Lehigh Hanson
HEIDELBERGCEMENT Group

Lehigh Southwest Cement Co.
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Phone (408) 996-4233

October 30, 2020

Mr. Rob Salisbury
Department of Planning and Development
Land Development and Engineering
County of Santa Clara
70 West Hedding St.
San Jose, CA 95110

RE: Response to Statement of Inadequacy Letter on the August 26, 2020 Financial Assurance Cost Estimate (FACE) for the Lehigh Hanson Permanente Quarry; State Mine ID# 91-43-0004

Dear Mr. Salisbury:

In response to the County of Santa Clara's (County) letter, dated October 1, 2020, we are providing a revised Financial Assurance Cost Estimate (FACE), as well as this cover letter which details how comments were addressed in the revised FACE.

1. *Task V (Plant Structures and Equipment Removal) of the FACE includes the estimated hours and associated cost for removal of the processing plant, conveyor and support structure. Please explain how the equipment hours and labor hours required for this task were calculated, and submit additional information as needed to substantiate the equipment hours and labor hours estimate for this task.*

   Response: The estimate for equipment and operator hours was prepared by a professional cost-estimating consultant, EnviroMINE, which has substantial experience with the preparation of financial assurance estimates for mining sites throughout California. This experience has included working closely with various contractors that specialize in demolition services. The estimated number of hours and type of equipment needed for aggregate plant and structure removal are based on similar-sized plant removal estimates, as well as EnviroMINE's observation of plant demolition at other sites. For at least the past 5 years, the FACE has documented the same estimated methods and time requirements for removal of the plant, conveyors and support structures; each of these FACEs have been accepted by the County and Department of Conservation.

   Equipment costs have been obtained from Caltrans Labor Surcharge and Equipment Rental Rates for April 2020 – March 2021: (https://dot.ca.gov/-/media/dot-media/programs/construction/documents/equipment-rental-rates-and-labor-surcharge/book_2020.pdf). Labor costs have been obtained from the Department of Industrial Relations, Prevailing Wage Determinations (2020-2): (https://www.dir.ca.gov/oprl/2020-2/PWD/Northern.html).

   If it is determined that another third-party estimate is required to substantiate the equipment and labor hours, then additional time will be necessary to revise the FACE. These types of estimates often take more than 30 days to prepare. Either option requires assumptions, based on past experiences, about the time and equipment necessary for the task.

2. *Task VI (Backfilling Main Pit) of the FACE specifies that 30,532,326 cubic yards of fill is required to fill the main quarry pit, and estimates the total cost for the transport and placement of this required fill to be $43,421,195, for a per unit cost of approximately $1.42 per cubic yard. The task description and cost estimate includes estimated costs for transport of the fill material from the West Material Storage Area to the main quarry pit, but provides little detail about necessary engineering and compaction of this fill material once it has been deposited in the main quarry pit. Please provide additional detail and revise the cost estimate as necessary to describe and account for compaction and engineering of the fill material once it has been placed in the main quarry pit.*

   Response: Estimated costs for "Geotechnical Oversight During Backfilling" are provided in Section VIII (Miscellaneous Costs). Total costs for this task, which consist of monitoring and reporting, equate to $559,800. The only compaction requirement is in Condition No. 25 of the June 26, 2012 Reclamation Plan Conditions of Approval (COA), which requires that fill material be compacted by a minimum of three passes of heavy equipment. COA No. 25 was a specific response to comments made by the Division of Mine Reclamation regarding compaction. A minimum of three passes is expected to occur normally as part of the course of placing fill. The cost estimate for geotechnical oversight ensures that the minimum number of passes will occur.

3. *Task VI (Backfilling of the Main Pit) of the FACE provides a cost estimate for a conveyor system and Appendix 1 provides bids for components of this conveyor system, all of which are outdated. Please provide updated bids for each conveyor component, and adjust the cost estimate accordingly if needed.*

   Response: An updated bid from Aggregate Machinery Specialist has been attached to the revised FACE.

4. *Task VI (Backfilling of the Main Pit) of the FACE states that a conveyor system will be used to transport material from the West Material Storage Area (WMSA) to the Main Quarry Pit. The distance between the WMSA and the Main Quarry Pit is approximately 6,200 ft. Please demonstrate that the conveyor system is sufficient to transport the required volume of material to the Main Quarry Pit, given the travel distance.*

   Response: It is very common for mining operations to convey material over long distances, as it is much more efficient than using haul trucks for the same task. A detailed list of the components encompassed in the conveyor system is provided in Attachment 1 of the FACE. Additional information about the sufficiency of this system has been added to the cover letter of the Attachment 1 quote. It should also be noted that the conveyor system will generate approximately 75% of the power required to run the system from conveying material downhill. Supplemental electricity will be provided from hard line power. Additional costs are included in the FACE to account for installation of electrical transmission lines and the utility costs from operating the conveyor system. The FACE has documented the same conveyor system to transport the required volume of material to the Main Quarry in previous years. Similar comments about the components and the adequacy of the conveyor system were received from the County in 2012. In a response letter from EnviroMINE, dated January 23, 2012, additional description of the conveyor was provided and the FACE was ultimately approved by the County and the Department of Conservation.

5. *Task VI (Ripping, Finish Grading, BMP Installation) of the FACE does not provide a written description of the types of BMPs to be installed, and Section C – Materials has been left blank, indicating that no materials are required for this task. Please provide a brief written description of the types of BMPs required, including on an interim basis during the reclamation process, and revise this section as*

required to accurately account for required BMP materials. Additionally, the labor category for Task VI lists only dozer operators; this section should be revised to account for the labor needed to install BMP materials, if any.

Response: After grading work has been completed, and prior to revegetating the site, permanent BMPs will be installed to manage stormwater runoff. The reclamation plan and FACE describe three permanent desiltation basins which will be constructed to manage runoff at the WMSA, North Quarry (Main Pit) and EMSA. Also, two desiltation basins will be constructed in the Permanente Creek Reclamation Area (PCRA). The operator is currently spending approximately $150,000 per year to replace and maintain temporary BMPs throughout the site. The FACE has been revised to include this cost for an additional 5 years (Section VIII, page 17). This is a conservative estimate since areas that today are not fully reclaimed will be reclaimed after grading work.

6. *Task VII (Revegetation) of the FACE estimates that it will take 480 hours (4 laborers with 120 hours each) to plant approximately 42,000 trees and shrubs, requiring a planting rate of 87 plantings per hour per laborer. Please explain how the labor hours required for this task were calculated, and submit additional information as needed to substantiate the labor hours estimated for this task.*

   Response: The labor hours for planting each tree/shrub have been increased to match planting times that are prescribed in the RSMeans Site Work & Landscape Costs manual. A copy of the subject RSMeans page has been attached to the revised FACE. The planting rate has been changed to 59 plantings per 8-hour day for a two-person crew (approximately 3.7 plantings per hour per laborer).

Please do not hesitate to contact me if you have any questions about these responses.

Sincerely,

Tressa Jackson

Tressa Jackson
Area Environmental Manager

Enclosure:
Lehigh-Permanente Quarry 2020 FACE (revised 10/30/20)

cc:
Erika Guerra, Lehigh;
Talia Flagan, Lehigh;

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FINANCIAL ASSURANCE COST ESTIMATE

FOR

Permanente Quarry

(Mine Name)

CA Mine ID # 91- 43-0004

Reclamation Plan #/Name Reclamation Plan Amendment for Permanente Quarry/2250-13-66-10P-10EIR (M1)

Prepared by: *(Name & Affiliation)*	This financial assurance cost estimate prepared and submitted pursuant to *(choose one)* :
EnviroMINE, Inc (consultant for Lehigh Hanson) 3511 Camino del Rio South, Suite 403 San Diego, CA 92108 Date: August 26, 2020 - rev. 10/30/20	☐ A new or amended reclamation plan approved on (Date): ☒ An annual mine inspection performed on (Date): 8/6/2020 ☐ Other: Please Specify:

Most Recent Approved Financial Assurance Cost Estimate

Date: August 26, 2019 (revised October 9, 2019)

Amount: $ 58,860,529

Amount of existing Financial Assurance Mechansim(s)

Date: Various

Amount: $ 58,860,529

I. SUPPORTING DOCUMENTS

This estimate represents the cost of conducting and completing reclamation in accordance with the Surface Mining and Reclamation Act (SMARA) and the following supporting documents:

Reclamation Plan Approval Date and Number

June 26, 2012, 2250-13-66-10P-10EIR (M1) (County of Santa Clara)

Permits and/or Environmental Documents Approved as, or Conditional upon, the Reclamation Plan

Site is vested.

Other Agency Financial Assurances Securing Reclamation of Disturbed Lands

N/A

Wage Rates used in Cost Estimate* *(cost estimates are required to use current 'General prevailing wage determinations made by the director of industrial relations' where applicable (http://www.dir.ca.gov/OPRL/PWD/index.htm) with employer labor surcharge added, or greater)*

Department of Industrial Relations, Prevailing Wage Determinations (2020-2)

Equipment Rates used in Cost Estimates* *(use current 'Labor Surchage and Equipment Rental Rates (Cost of Equipment Ownership)' equipment rates published by Caltrans (http://www.dot.ca.gov/hq/construc/equipmnt.html) or other publicly available and verifiable local rates)*

Caltrans, Labor Surcharge & Equipment Rental Rates (4/1/20-3/31/21)

Equipment Production Rates used in Cost Estimate *(Use of current Caterpillar Performance Handbook or equivalent published production rates is required)*

Caterpillar Performance Handbook, 37th Edition
RSMeans Site Work & Landscaping Cost Data, Kingston, MA, 2018

**Many mine sites are remote projects that require hours of travel (to and from) and sometimes require additional time to prepare for even the simplest of tasks. In accordance with labor Code Sections 1773.1 and 1773.9, contractors are required to make travel and/or subsistence (per diem) payments to each worker to execute the work. These arrangements can be quite variable and site specific.*

Attachments:

1. Bid from Aggregate Machinery Specialist for Primary Station and conveyor system
2. Backfill Volume Estimate Memo from Stantec Consulting Services, Inc.
3. Bulldozer production rates
4. Scraper production rates for capping site with non-limestone material
5. Compost quote from Z-Best Products
6. Seed quote from Pacific Coast Seed for PCRA
7. Seed quote from Pacific Coast Seed
8. Bid from Freedlun Hydroseeding, Inc. for applying hydroseed
9. Tree/shrub planting rates from RSMeans.

(add additional pages as needed)

II. Description of Current Site Conditions

(i.e., disturbed acres, slope conditions, excavation depths, topsoil and overburden stockpiles, equipment and facilities, reclamation in progress, erosion control status, required corrective actions, etc.)

Current operations at the site include a quarry (Main Pit/North Quarry) that consists of a cut-face with a series of benches and multiple material storage areas – East Material Storage Area (EMSA) and West Material Storage Area (WMSA). Reclamation at the quarry is conducted on an annual basis for areas at final grade and not subject to further disturbance. In 2012, reclamation work commenced in the Permanente Creek Reclamation Area (PCRA), the installation of BMP's and hydroseeding was completed in Subareas 4, 5 and 6. Current grading activities are taking place in Phase 1A of the approved mine plan. The majority of the 639.6-acre RPA footprint is found in a fully disturbed condition with little evidence of vegetative cover. An exception to this includes areas where reclamation has begun or areas that have naturally revegetated. In total, approximately 546 acres are currently disturbed at the site. There is also a rock plant, cement plant, and various pieces of mobile equipment on the site.

III. Description of Anticipated Site Conditions (12 months from date of estimate)

(i.e., increase of disturbed acres, increase of depth, increases in amount of equipment and/or facilities, required corrective actions, etc.)

It is expected that mining will continue to progress in Phase 1 of the Main Pit during the next 12 months.

IV. Description/Justification of Cost Increase/Decrease

The total cost has increased as a result of increased labor and equipment rental costs, revegetation costs, and increased backfilling requirements since the previous FACE update.

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

At this time, plant removal would involve demolishing and transporting the Rock Plant, including conveyors, crushers, screens, wash plants, scales, storage tanks, and miscellaneous structures to an offsite location. This also includes the removal of the overland conveyor that extends from the Main Pit to the Cement Plant (approx. 8,900 feet). In addition to demolition and removal of these structures, all foundations must be demolished and removed, and compacted surfaces must be ripped to prepare the site for revegetation.

Reclamation Plan Performance Standard (End Use):

At the conclusion of mining operations, all equipment, structures, and other infrastructure improvements will need to be removed from the site.

Describe tasks:

This estimate assumes the use of a crane, excavators with steel shear and grapple attachments, front-end loaders, trucks with low bed trailers, and dump trucks for dismantling and removing the plant equipment and structures. The steel structures will be cut into manageable pieces with an excavator mounted with a steel shear, with pieces placed on an over-the-road truck for removal to a scrap yard for recycling. It is estimated that there is approximately 1,000 tons of recyclable steel onsite. Current market value of scrap steel is $160 per ton (Alco Metals, San Jose). Other non-recyclable materials will be put into roll-off dumpsters (CDR Dumpster Rental) and hauled off site. Some structures will be dismantled by shearing, cutting using a cutting torch, or simply unbolting the equipment from the support structures prior to demolition. Also, there are currently 30 pieces of mobile equipment (loaders, dozers, trucks, etc.) that would need to be loaded and hauled off site to a resale dealer. This estimate assumes two (2) hours per piece of equipment. Once the equipment is removed, it will be necessary to demolish all concrete footings and foundations. Concrete will be broken up using an excavator and a hydraulic hammer and hauled to a recycling yard. This estimate assumes that there is approximately 2,950 cubic yards of concrete to be demolished and removed from the site. Also, approximately 28,110 linear feet of water pipeline will need to be dismantled and removed from the site.

Equipment on site wholly owned by operator?: [X] YES [ ] NO

(if no, please provide the name/s and contact information for any lien holder)

(add additional pages as needed)

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Processing Plant, Conveyor, & Support Structure Removal

(↑ Describe Reclamation Activity Being Estimated)

V. PLANT STRUCTURES & EQUIPMENT REMOVAL

Methods to be used:

A. Equipment - List equipment to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	Unit of Measure	$/Unit	# of Units	Cost ($)
Grove RT 635 40t Crane	Hours	$90.57	108.0	$9,782
CAT 330 w/ Steel Shear ($167.40+$116.08)	Hours	$283.48	93.0	$26,364
CAT 330 w/ Grapple ($167.40+$15.81)	Hours	$183.21	108.0	$19,787
Semi-truck w/ end dump	Hours	$90.06	84.0	$7,565
Semi-truck w/ 2 axle lowboy trailer ($79.48+$19.49)	Hours	$98.97	118.0	$11,678
CAT 966E Wheel Loader	Hours	$138.19	108.0	$14,925
Welding Truck	Hours	$47.91	120.0	$5,749
Pickup Truck (2)	Hours	$27.42	112.0	$3,071
			Total Equipment Cost for this Task =	$98,920

B. Labor - List all labor categories to complete identified task

Labor Category	$/Hour (prevailing wage)	Labor Surcharge/Hr *(where applicable)* (enter % of wage) 0.0%	# of Hours	Cost ($)
Crane Operator (Operating Engineer, Grp. 3-A, Area 1)	$80.43	$0.00	108.0	$8,686
Excavator Operator (2) (Operating Engineer, Grp. 3, Area 1)	$80.04	$0.00	201.0	$16,088
Dump Truck Driver (Teamster, Grp. 3)	$64.92	$0.00	84.0	$5,453
Lowboy Truck Driver (Teamster, Grp. 4)	$65.27	$0.00	118.0	$7,702
Loader Operator (Operating Engineer, Grp. 3, Area 1)	$80.04	$0.00	108.0	$8,644
Foreman (Operating Engineer, Grp. 2, Area 1)	$81.52	$0.00	140.0	$11,413
Laborer (2) (Laborer, Grp. 3, Area 1)	$58.34	$0.00	112.0	$6,534
Welder (4) (Laborer, Const. Specialist, Area 1)	$59.29	$0.00	225.0	$13,340
			Total Labor Cost for this Task =	$77,861

C. Demolition - List all structures and equipment to be dismantled or demolished and removed from site

Structure/Equipment to be removed	Type of Material	Volume/ Quantity	Unit Cost Basis	Disposal Cost	Cost ($)
Roll-off Trash Containers & Landfill Fees (20 CY)	Mixed	15.00	$592.00	$0.00	$8,880
		0.00	$0.00	$0.00	$0
				Total Materials Cost for this Task =	$8,880

D. Total Direct Cost of Structure and Equipment Removal (Total A+B+C)

Equipment Cost + Labor Cost + Demolition Cost = $185,661

E. Net Salvage Value* (Supported by properly prepared third party estimate, bid, or cost calculation)

Net Salvage Value = $ **160,000.00**

F. Total Cost of Structure and Equipment Removal (Subtract Line D from Line E)

Total Cost of Structure and Equipment Removal = **$25,661**

NOTE: Above **Total Cost** will display $0.00 if net of entered removal costs and salvage value is negative.

*Note: Salvage value may only be used to offset the direct cost of removing the single item for which salvage value is being claimed. Salvage value shall not be used to offset any other demolition, general cleanup, or reclamation costs.

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Concrete Breaking and Pipeline Removal

(↑ Describe Reclamation Activity Being Estimated)

V. PLANT STRUCTURES & EQUIPMENT REMOVAL

Methods to be used:

A. Equipment - List equipment to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	Unit of Measure	$/Unit	# of Units	Cost ($)
CAT 330 Excavator w/ Rock Breaker Attachment ($167.40+$39.22)	Hours	$206.62	92.0	$19,009
CAT 330 Excavator w/ Bucket	Hours	$167.40	58.0	$9,709
CAT 966E Wheel Loader	Hours	$138.19	16.0	$2,211
Haul Truck (10)	Hours	$90.06	268.0	$24,136
Pickup Truck	Hours	$27.42	168.0	$4,607
CAT 966E Wheel Loader (for pipeline removal)	Hours	$138.19	114.0	$15,754
Semi-truck w/ 2 axle lowboy trailer (pipeline removal) ($79.48+$19.49)	Hours	$98.97	48.0	$4,751
			Total Equipment Cost for this Task =	$80,176

B. Labor - List all labor categories to complete identified task

Labor Category	$/Hour (prevailing wage)	Labor Surcharge/Hr *(where applicable)* (enter % of wage) 0.0%	# of Hours	Cost ($)
Excavator Operators (2) (Operating Engineer, Grp. 3, Area 1)	$80.04	$0.00	150.0	$12,006
Loader Operator (Operating Engineer, Grp. 3, Area 1)	$80.04	$0.00	16.0	$1,281
Haul Truck Driver (10) (Teamster, Grp. 3)	$64.92	$0.00	268.0	$17,399
Laborer (2) (Laborer, Grp. 3, Area 1)	$58.34	$0.00	116.0	$6,767
Loader Operator (pipeline removal) (Operat. Engineer, Grp. 3, Area 1)	$80.04	$0.00	114.0	$9,125
Lowboy Truck Driver (for pipeline removal) (Teamster, Grp. 4)	$65.27	$0.00	48.0	$3,133
Laborer (4) (for pipeline removal) (Laborer, Grp. 3, Area 1)	$58.34	$0.00	114.0	$6,651
			Total Labor Cost for this Task =	$56,361

C. Demolition - List all structures and equipment to be dismantled or demolished and removed from site

Structure/Equipment to be removed	Type of Material	Volume/ Quantity	Unit Cost Basis	Disposal Cost	Cost ($)
Recycling Fee	Concrete	175.00	$82.00	$0.00	$14,350
Dump Fee	Pipeline	14.00	$500.00	$0.00	$7,000
				Total Materials Cost for this Task =	$21,350

D. Total Direct Cost of Structure and Equipment Removal (Total A+B+C)

Equipment Cost + Labor Cost + Demolition Cost = $157,887

E. Net Salvage Value* (Supported by properly prepared third party estimate, bid, or cost calculation)

Net Salvage Value = $ **0.00**

F. Total Cost of Structure and Equipment Removal (Subtract Line D from Line E)

Total Cost of Structure and Equipment Removal = **$157,887**

NOTE: Above **Total Cost** will display $0.00 if net of entered removal costs and salvage value is negative.

*Note: Salvage value may only be used to offset the direct cost of removing the single item for which salvage value is being claimed. Salvage value shall not be used to offset any other demolition, general cleanup, or reclamation costs.

Mobile Equipment Removal

(↑ Describe Reclamation Activity Being Estimated)

V. PLANT STRUCTURES & EQUIPMENT REMOVAL

Methods to be used:

A. Equipment - List equipment to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	Unit of Measure	$/Unit	# of Units	Cost ($)
Semi-Truck w/ 3 axle lowboy to remove the following ($79.48+$24.06):	Hours	$103.54	18.0	$1,864
216 Skid Steer, 226 Skid Steer, 16G Grader,		$0.00	0.0	$0
872GP Grader, Miller 600D Welder, Allmand 695 Lite		$0.00	0.0	$0
Towers, Water Trucks		$0.00	0.0	$0
		$0.00	0.0	$0
Semi-Truck w/ 5 axle lowboy & two pilot cars to remove*:	Hours	$2,812.00	13.0	$36,556
992 Loader, 944k Loader, D10 Dozer, 1050K Dozer, 850k		$0.00	0.0	$0
Dozer, 824 Dozer, 460 Truck		$0.00	0.0	$0

* Based on a lump sum estimate that includes driver. Increased by CPI.

Total Equipment Cost for this Task = $38,420

B. Labor - List all labor categories to complete identified task

Labor Category	$/Hour (prevailing wage)	Labor Surcharge/Hr *(where applicable)* (enter % of wage) 0.0%	# of Hours	Cost ($)
Semi-truck Driver (Teamster, Grp. 4)	$65.27	$0.00	18.0	$1,175
	$0.00	$0.00	0.0	$0
	$0.00	$0.00	0.0	$0

Total Labor Cost for this Task = $1,175

C. Demolition - List all structures and equipment to be dismantled or demolished and removed from site

Structure/Equipment to be removed	Type of Material	Volume/ Quantity	Unit Cost Basis	Disposal Cost	Cost ($)
		0.00	$0.00	$0.00	$0
		0.00	$0.00	$0.00	$0
		0.00	$0.00	$0.00	$0
		0.00	$0.00	$0.00	$0

Total Materials Cost for this Task = $0

D. Total Direct Cost of Structure and Equipment Removal (Total A+B+C)

Equipment Cost + Labor Cost + Demolition Cost = $39,595

E. Net Salvage Value* (Supported by properly prepared third party estimate, bid, or cost calculation)

Net Salvage Value = $ **0.00**

F. Total Cost of Structure and Equipment Removal (Subtract Line D from Line E)

Total Cost of Structure and Equipment Removal = **$39,595**

NOTE: Above **Total Cost** will display $0.00 if net of entered removal costs and salvage value is negative.

*Note: Salvage value may only be used to offset the direct cost of removing the single item for which salvage value is being claimed. Salvage value shall not be used to offset any other demolition, general cleanup, or reclamation costs.

VI. PRIMARY RECLAMATION ACTIVITY : Backfilling Main Pit

Use multiple sheets as necessary to estimate the cost of each activity required. Provide documentation showing that rates, prices, and wages are available locally to the lead agency and/or the Department if necessary.

Current Site Conditions:

This estimate's restoration scenario incorporates backfilling of the Main Pit to buttress past instabilities. To accomplish this, the West Materials Storage Area (WMSA) will be used as the primary source of backfill material, since mining byproducts (unused mined material) will not be available. A stockpile located west of the Rock Plant, that contains approximately 300,000 tons of crushed rock, will also be relocated to the main pit. Material used for backfilling is to be amended with organic matter (approximately 63,000 tons). Measures to protect surface water quality during reclamation activities consist of isolating runoff from limestone materials in the Main Pit backfill, WMSA, and EMSA. This will be accomplished during reclamation by capping reclaimed areas with a 1-foot thick layer of run-of-mine non-limestone rock (i.e., greywacke, chert, and greenstone).

Reclamation Plan Performance Standard (End Use):

Reclamation requirements for the site include the development of a benched quarry face with an overall slope gradient of 1H:1V (horizontal: vertical), while the overburden fill slopes will be reclaimed at a maximum overall slope inclination between 2.5H:1V to 2.6H:1V. The proposed end use for the quarry after reclamation is complete is open space.

Describe tasks, methods, equipment, etc:

Decompaction, cut, fill, haul, slope reduction, compaction, grading, topsoil placement, drainage work, soil amendment, special requirements, etc. Separate sheets may be used for each task if necessary.

A conveyor system will be utilized to transport backfill material from the WMSA to the Main Pit and place material directly into the pit. Oversized material will be reduced by a jaw crusher to six (6) inch minus prior to loading onto the conveyor. This estimate assumes the purchase of a crusher, conveyor, and stacking system (See Attachment 1 for cost estimate). Operation and maintenance costs to run the system have been included in the tables below. Stockpiled material near the Rock Plant will be relocated to the Main Pit by using haul trucks that are loaded with a front-end loader. Organic material would be delivered to the WMSA from an offsite source and added to backfill material with a loader. Distribution of non-limestone material for capping will utilize a variety of equipment. A combination of dozers, scrapers, loaders, and haul trucks will be utilized to distribute the non-limestone capping material.

Provide Quantities:

Overburden and topsoil, cut and fill, import or export (cubic yards), area (acres), haul distance (feet), equipment production rates (cubic yards/hour, or as applicable), etc.

After analyzing the existing and proposed topography, the total volume required for backfilling the Main Pit is estimated at 30,532,326 cubic yards (See Attachment 2 for volume estimate memo from Stantec Consulting Services, Inc.). This volume accounts for material that was removed from the pit during the past year (686,678 cubic yards). During the past year, most mining activity occurred in the southern portion of the Main Pit. The conveyor system would extend approximately 10,000 feet to the WMSA. Backfilling of the Main Pit will also include grading of approximately 6,700,000 cubic yards of non-limestone material that has been identified as the “Main Slide.” Materials originating from the Main Slide will be removed using a D10 bull dozer (See Attachment 3 for production rates). This estimate assumes production rates of 1,027.5 cubic yards per hour for the D11 bulldozer and 1,380 cubic yards per hour for the conveyor system. To optimize production from the dozers, the conveyor system will be relocated as grading progresses; average push distances will be kept at approximately 300 feet. For stockpiled material near the Rock Plant, a Cat 992 front-end-loader will load the material into haul trucks while a water truck and grader will be utilized to maintain the road network and suppress dust. It is estimated that there is 200,000 cubic yards of stockpiled material (using 1.5 tons per CY). Organic material would be delivered by trucks to the WMSA, near the hopper for the portable conveyor system, and a 938 loader will feed the material into the hopper. Approximately 710,000 cubic yards of non-limestone material will be used for capping reclaimed areas of the site. Caterpillar production rates for a 651 Scraper are provided in Attachment 4.

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Backfilling Main Pit

(↑ Describe Reclamation Activity Being Estimated)

VI. PRIMARY RECLAMATION ACTIVITY

Acres:		Overburden (cy):	30,532,326
Haul Distance (ft):	300	Topsoil (cy):	
Production Rate (cy/hr):	1,380 conveyor	*(NOTE: no automatic calculations occur to data in this upper table)*	

Methods to be used:

A. Equipment - List equipment to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	Unit of Measure	$/Unit	# of Units	Cost ($)
Grove RT 525 Crane (for conveyor install)	Hours	$70.53	200.0	$14,106
CAT 938G Loader (for conveyor install)	Hours	$99.78	200.0	$19,956
CAT 315L Excavator (for conveyor install)	Hours	$61.88	200.0	$12,376
Pickup Truck (2) (for conveyor install)	Hours	$27.42	400.0	$10,968
42" Conveyor System Over 10,000' (lump sum)*	Hours	$10,246,880.00	1.0	$10,246,880
CAT D-10N Dozers (3)	Hours	$317.82	66375.0	$21,095,303
CAT D-11N Dozer	Hours	$495.53	7429.0	$3,681,292
Water Truck	Hours	$47.91	7429.0	$355,923
Conveyor Operation/Maintenance	Hours	$47.69	22125.0	$1,055,141
Electricity	Hours	$28.67	22125.0	$634,324
CAT 325L Excavator (for relocating conveyor)	Hours	$112.03	80.0	$8,962
CAT 988 Loader (for relocating conveyor)	Hours	$176.77	80.0	$14,142
			Total Equipment Cost for this Task =	$37,149,373

* Total cost of primary station, dust collector, pit conveyor, and stacker described in Attachment 1.

B. Labor - List all labor categories to complete identified tasks

Labor Category	$/Hour (prevailing wage)	Labor Surcharge/Hr *(where applicable)* (enter % of wage) 0.0%	# of Hours	Cost ($)
Crane Operator (Operating Engineer, Grp. 3-A, Area 1)	$80.43	$0.00	200.0	$16,086
Loader Operators (2) (Operating Engineer, Grp. 3, Area 1)	$80.04	$0.00	280.0	$22,411
Excavator Operators (2) (Operating Engineer, Grp. 3, Area 1)	$80.04	$0.00	280.0	$22,411
Foreman (Operating Engineer, Grp. 2, Area 1)	$81.52	$0.00	200.0	$16,304
Laborers (2) (Laborer, Grp. 3, Area 1)	$58.34	$0.00	400.0	$23,336
Dozer Operators (4) (Operating Engineer, Grp. 3, Area 1)	$80.04	$0.00	73804.0	$5,907,272
Water Truck Driver (Teamster, Grp. 2)	$64.62	$0.00	7429.0	$480,062
			Total Labor Cost for this Task =	$6,487,883

C. Materials - List all materials required to complete identified task

Item	$/Unit	Sales tax (enter local rate in %) 0.0%	Quantity	Cost ($)
	$0.00	$0.00	0.0	$0
			Total Materials Cost for this Task =	$0

D. Total Direct Cost for this task

Equipment Cost + Labor Cost + Materials Cost = $43,637,256

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Stockpile Relocation, Organic Material, Capping

(↑ Describe Reclamation Activity Being Estimated)

VI. PRIMARY RECLAMATION ACTIVITY

Acres:	440	Overburden (cy):	910,000
Haul Distance (ft):		Topsoil (cy):	
Production Rate (cy/hr):	454 (scraper), 520 (truck)	*(NOTE: no automatic calculations occur to data in this upper table)*	

Methods to be used:

A. Equipment - List equipment to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	Unit of Measure	$/Unit	# of Units	Cost ($)
CAT 992C Loader (for stockpile relocation)	Hours	$481.62	195.0	$93,916
CAT 777D Haul Trucks (11) (for stockpile reloc., capping)	Hours	$286.99	2254.0	$646,875
CAT 12H Blade (for stockpile relocation)	Hours	$92.40	98.0	$9,055
CAT 938F Loader (for organic material mixing)	Hours	$88.25	600.0	$52,950
CAT 992B Loader (2) (for non-limestone capping)	Hours	$314.75	314.0	$98,832
CAT 651B Scraper (4) (for capping)	Hours	$283.50	608.0	$172,368
CAT D-10N Dozer (2) (for capping)	Hours	$317.82	238.0	$75,641
Water Truck (for stockpile relocation & capping)	Hours	$47.91	492.0	$23,572
			Total Equipment Cost for this Task =	$1,173,209

B. Labor - List all labor categories to complete identified tasks

Labor Category	$/Hour (prevailing wage)	Labor Surcharge/Hr *(where applicable)* (enter % of wage) 0.0%	# of Hours	Cost ($)
Loader Operators (4) (Operating Engineer, Grp. 3, Area 1)	$80.04	$0.00	1109.0	$88,764
Haul Truck Drivers (11) (Teamster, Grp. 4)	$65.27	$0.00	2254.0	$147,119
Blade Operator (Operating Engineer, Grp. 3, Area 1)	$80.04	$0.00	98.0	$7,844
Scraper Operators (4) (Operating Engineer, Grp. 3, Area 1)	$80.04	$0.00	608.0	$48,664
Dozer Operators (2) (Operating Engineer, Grp. 3, Area 1)	$80.04	$0.00	238.0	$19,050
Water Truck Driver (Teamster, Grp. 2)	$64.62	$0.00	492.0	$31,793
			Total Labor Cost for this Task =	$343,234

C. Materials - List all materials required to complete identified task

Item	$/Unit	Sales tax (enter local rate in %) 0.0%	Quantity	Cost ($)
Organic Material * (tons)	$27.75	$0.00	63,000.0	$1,748,250
* Cost from Z-Best Products in Gilroy, CA, plus shipping (Attachment 5)	$0.00	$0.00	0.0	$0
			Total Materials Cost for this Task =	$1,748,250

D. Total Direct Cost for this task

Equipment Cost + Labor Cost + Materials Cost = $3,264,693

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Ripping, Finish Grading, BMP Installation

(↑ Describe Reclamation Activity Being Estimated)

VI. PRIMARY RECLAMATION ACTIVITY

Acres:	498	Overburden (cy):	
Haul Distance (ft):		Topsoil (cy):	
Production Rate (cy/hr):	1 acre/hour	*(NOTE: no automatic calculations occur to data in this upper table)*	

Methods to be used:

A. Equipment - List equipment to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	Unit of Measure	$/Unit	# of Units	Cost ($)
Grading with a CAT D-8R Dozer	Hours	$191.18	498.0	$95,208
Ripping with a CAT D-8R Dozer ($191.18+$16.78)	Hours	$207.96	7.0	$1,456
Desiltation Basin Installation (Lump Sum est. plus CPI)	Basin	$23,573.00	3.0	$70,719
		$0.00	0.0	$0
		$0.00	0.0	$0
		$0.00	0.0	$0

Total Equipment Cost for this Task = $167,382

B. Labor - List all labor categories to complete identified tasks

Labor Category	$/Hour (prevailing wage)	Labor Surcharge/Hr *(where applicable)* (enter % of wage) 0.0%	# of Hours	Cost ($)
Dozer Operator (2) (Operating Engineer, Grp. 3, Area 1)	$80.04	$0.00	505.0	$40,420
	$0.00	$0.00	0.0	$0
	$0.00	$0.00	0.0	$0
	$0.00	$0.00	0.0	$0
	$0.00	$0.00	0.0	$0
	$0.00	$0.00	0.0	$0

Total Labor Cost for this Task = $40,420

C. Materials - List all materials required to complete identified task

Item	$/Unit	Sales tax (enter local rate in %) 0.0%	Quantity	Cost ($)
	$0.00	$0.00	0.0	$0
	$0.00	$0.00	0.0	$0
	$0.00	$0.00	0.0	$0
	$0.00	$0.00	0.0	$0
	$0.00	$0.00	0.0	$0

Total Materials Cost for this Task = $0

D. Total Direct Cost for this task

Equipment Cost + Labor Cost + Materials Cost = $207,803

VI. PRIMARY RECLAMATION ACTIVITY Permanente Creek Reclamation Area

Use multiple sheets as necessary to estimate the cost of each activity required. Provide documentation showing that rates, prices, and wages are available locally to the lead agency and/or the Department if necessary.

Current Site Conditions:

This section describes the reclamation costs of historic mining disturbance adjacent to Permanente Creek, described as the Permanente Creek Reclamation Area ("PCRA"). The PCRA is divided into seven different subareas (numbered one through seven) with customized reclamation treatments for each subarea. In 2012, after approval of the RPA, reclamation work commenced in Subareas 4, 5 and 6 and was completed in late October. Work completed included installation of BMPs as well as hydroseeding of disturbed areas. In total, approximately nine (9) acres in the PCRA was reclaimed in 2012. In 2016, the application for permitting the restoration work with ACOE and CDFW was submitted and is in process.

Reclamation Plan Performance Standard (End Use):

Removing a concrete half culvert located in the proposed restored stream channel is one aspect of the Permanente Creek Restoration. The concrete half culvert is located just downstream from Pond 13 and covers a length of approximately 375 feet. The reclamation plan also calls for restoration of about 2,500 linear feet of Permanente Creek. Material from historic mining has collected in the creek channel. The reclamation plan calls for removal of this material and creation of a reconfigured creek channel that is roughly 50 feet wide with a 10-foot bottom and 3:1 side slopes. A number of limestone boulders have found their way into Permanente Creek as a result of historic mining operations. These boulders range in size from approximately 10" to 3' in diameter. Once removed from the creek, boulders will be loaded onto off-road haul trucks and hauled to the North Quarry for final placement. After grading work has been completed and prior to revegetating the site temporary and permanent BMPs will be installed to manage stormwater runoff. Lastly, slopes located in Subareas 2 and 3 of the PCRA are comprised of loose unconsolidated fill material. In an effort to reduce erosion from these slopes and to provide more favorable surfaces for seed propagation, the slopes will be compacted.

Describe tasks, methods, equipment, etc:

Decompaction, cut, fill, haul, slope reduction, compaction, grading, topsoil placement, drainage work, soil amendment, special requirements, etc. Separate sheets may be used for each task if necessary.

According to the CAT Handbook, an H120c hydraulic hammer attached to a 315L excavator can demolish approximately 230 cubic yards of reinforced concrete within 8 hours. Once the concrete culvert has been broken into pieces 2-feet in diameter or smaller, the excavator will be used to load the material into haul trucks. Material will be removed from the creek with an excavator, loader, and articulated haul trucks. Small boulders will be removed using hand labor, while larger boulders will be removed with an excavator and/or loader. Construction laborers will install straw waddles and silt fencing to manage stormwater runoff. Slopes located within Subareas 2 and 3 will be compacted with a D8 dozer, towing a sheep's foot, that is moved up and down the slopes by a winch.

Provide Quantities:

Overburden and topsoil, cut and fill, import or export (cubic yards), area (acres), haul distance (feet), equipment production rates (cubic yards/hour, or as applicable), etc.

It is estimated that approximately 130 cubic yards of concrete will need to be demolished and removed to complete removing the concrete half culvert. There is an estimated 17,500 cubic yards of material that will be removed from the channel to create the reconfigured channel. This estimate also assumes that 200 boulders are located within the inundation limits of Permanente Creek.

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PCRA Culvert/Boulder Removal, Grading, BMPs

(↑ Describe Reclamation Activity Being Estimated)

VI. PRIMARY RECLAMATION ACTIVITY

Acres:		Overburden (cy):	17,500 (in PC Channel)
Haul Distance (ft):		Topsoil (cy):	
Production Rate (cy/hr):		*(NOTE: no automatic calculations occur to data in this upper table)*	

Methods to be used:

A. Equipment - List equipment to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	Unit of Measure	$/Unit	# of Units	Cost ($)
CAT 315L Excavator w/ Rock Breaker Attach. ($61.88+$23.75)	Hours	$85.63	6.0	$514
CAT 315L Excavator w/ bucket (culvert removal)	Hours	$61.88	2.0	$124
Haul Truck (4) (culvert removal)	Hours	$90.06	12.0	$1,081
CAT 330BL Excavator (channel restoration/boulder removal)	Hours	$154.07	174.0	$26,808
CAT 966F Loader (channel restoration/boulder removal)	Hours	$141.22	148.0	$20,901
CAT 740 Articulated Haul Truck (channel/boulder removal)	Hours	$126.75	154.0	$19,520
Desiltation Basin Installation (Lump Sum est. plus CPI)	Basin	$23,573.00	2.0	$47,146
CAT D-8R Dozer w/ Winch (for slope treatment)	Hours	$191.18	16.0	$3,059
Sheep's Foot Attachment (for slope treatment)	Hours	$14.16	16.0	$227
Pick Up Truck	Hours	$27.42	40.0	$1,097
			Total Equipment Cost for this Task =	$120,475

B. Labor - List all labor categories to complete identified tasks

Labor Category	$/Hour (prevailing wage)	Labor Surcharge/Hr *(where applicable)* (enter % of wage) 0.0%	# of Hours	Cost ($)
Excavator Operators (4) (Operating Engineer, Grp. 3, Area 1)	$80.04	$0.00	182.0	$14,567
Haul Truck Drivers (4) (Teamster, Grp. 4)	$65.27	$0.00	12.0	$783
Loader Operators (2) (Operating Engineer, Grp. 3, Area 1)	$80.04	$0.00	148.0	$11,846
Articulated Haul Truck Drivers (3) (Teamster, Grp. 4)	$65.27	$0.00	154.0	$10,052
Dozer Operator (Operating Engineer, Grp. 3, Area 1)	$80.04	$0.00	16.0	$1,281
Foreman(Operating Engineer, Grp. 2, Area 1)	$81.52	$0.00	8.0	$652
Laborers (7) (Laborer, Grp. 3, Area 1)	$58.34	$0.00	284.0	$16,569
			Total Labor Cost for this Task =	$55,749

C. Materials - List all materials required to complete identified task

Item	$/Unit	Sales tax (enter local rate in %) 0.0%	Quantity	Cost ($)
Concrete Recycling Fee (loads)	$82.00	$0.00	8.0	$656
Straw Waddles	$5.07	$0.00	37,600.0	$190,632
Silt Fencing	$4.50	$0.00	3,450.0	$15,525
	$0.00	$0.00	0.0	$0
	$0.00	$0.00	0.0	$0
			Total Materials Cost for this Task =	$206,813

D. Total Direct Cost for this task

Equipment Cost + Labor Cost + Materials Cost =	$383,037

VII. REVEGETATION *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to the lead agency and/or the Department.

Current Site Condition:

After final grading is completed, disturbed areas of the site will be revegetated with seed mixes and container stock to achieve the goals of the reclamation plan. Previous restoration planting at the Quarry has been used as a guide for revegetation planning. These revegetated areas will serve as a basis for anticipated revegetation success. Native species common in revegetated areas include California buckwheat, coyote brush, buckbrush and sagebrush. At this time, 13.7 acres of hydroseeding would be necessary within the PCRA and 502 acres of hydroseeding would be required on the remaining areas of the site. An additional 1.5 acres of the PCRA and 28 of the remaining reclamation area will require hand planting of container stock.

Reclamation Plan Performance Standard (End Use):

The goal for revegetation efforts is native community restoration. This refers to the reclamation of disturbed lands to a self-sustaining community of native species which would visually integrate with surrounding lands. Revegetation is designed to control erosion and stabilize slopes against long-term erosion using plant materials capable of self-regeneration without continued dependence on irrigation, soil amendments or fertilizer.

Describe Tasks:

Prior to revegetation, growth medium will be applied to approximately 498 acres of the site. Of the 498 acres that will receive growth medium, a thickness of six inches of topsoil will be distributed over 28 acres of the site and a thickness of three inches of topsoil will be distributed over 470 acres for a total volume of 212,152 CY. To transport the material around the site, a team of off-road haul trucks will be utilized and D-8 dozer will be used to spread the material. A dozer is preferred to distribute the topsoil over a wheel type tractor because its track impressions will imprint final slopes to retain seeds and increase water retention and infiltration, thereby increasing the potential for revegetative success. Using mechanical hydroseeding equipment, areas will be seeded, mulched, and composted in a single application. A hydromulch mix will contain compost, organic mulch, fertilizer and the seed mix. See Attachments 6 and 7 for seed quotes from Pacific Coast Seed. Freedlun Hydroseeding provided a conservative cost quote for the hydroseed applications (Attachment 8). Planting shrubs and trees will require the efforts of four common laborers and two pickup trucks along with the oversight of a revegetation specialist.

VII. REVEGETATION *(use multiple sheets as needed)*

Topsoil Placement and Container Stock Planting

(↑ Describe Revegetation Activity Being Estimated)

Methods to be used:

A. Equipment - List equipment to complete identified task. For large reclamation projects, separate mine areas.

Equipment	Unit of Measure	$/Unit	# of Units	Cost ($)
CAT 988 Loader (for topsoil placement)	Hours	$176.77	422.0	$74,597
CAT 740 Haul Truck (2) (for topsoil placement)	Hours	$126.75	844.0	$106,977
Water Truck (for topsoil placement)	Hours	$47.91	422.0	$20,218
CAT D8R Dozer (for topsoil placement)	Hours	$191.18	422.0	$80,678
Pickup Truck (2) (for planting)	Hours	$27.42	5656.0	$155,088
Materials & Labor for planting in PCRA	Plant	$16.89	2500.0	$42,225
			Total Equipment Cost for this Task =	$479,782

B. Labor - List all labor categories to complete identified task.

Labor Category	$/Hour (prevailing wage)	Labor Surcharge /HR (where applicable) (enter % of wage) 0.0%	# of Hours	Cost ($)
Loader Operator (Operating Engineer, Grp. 3, Area 1)	$80.04	$0.00	422.0	$33,777
Haul Truck Drivers (2) (Teamster, Grp. 4)	$65.27	$0.00	844.0	$55,088
Water Truck Driver (Teamster, Grp. 2)	$64.62	$0.00	422.0	$27,270
Dozer Operator (Operating Engineer, Grp. 3, Area 1)	$80.04	$0.00	422.0	$33,777
Laborer (4) (Laborer, Grp. 3, Area 1)- based on RSMeans 29.5 plnt./dy.	$58.34	$0.00	11312.0	$659,942
Revegetation Specialist	$92.91	$0.00	120.0	$11,149
			Total Labor Cost for this Task =	$821,003

C. Materials - List all materials required to complete identified task

Item/Plant Species	Unit of measure	$/Unit	Sales tax (enter local rate in %) 0.0%	Quantity	Cost ($)
Pacific madrone	Container	$2.19	$0.00	798.0	$1,748
Grey pine	Container	$2.60	$0.00	8,990.0	$23,374
Coast live oak	Container	$2.60	$0.00	824.0	$2,142
Canyon live oak	Container	$2.60	$0.00	824.0	$2,142
Blue oak	Container	$2.60	$0.00	824.0	$2,142
Valley oak	Container	$2.60	$0.00	824.0	$2,142
Interior live oak	Container	$2.60	$0.00	824.0	$2,142
Mountain mahogany	Container	$3.18	$0.00	3,976.0	$12,644
Toyon	Container	$1.35	$0.00	3,976.0	$5,368
Scrub oak	Container	$2.19	$0.00	3,976.0	$8,707
California coffeeberry	Container	$1.76	$0.00	3,976.0	$6,998
Redberry	Container	$1.76	$0.00	3,976.0	$6,998
Hillside gooseberry	Container	$1.76	$0.00	3,976.0	$6,998
Chaparral currant	Container	$1.76	$0.00	3,976.0	$6,998
				Total Materials Cost for this Task =	$90,543

D. Total Direct Cost for this task

Equipment Cost + Labor Cost + Materials Cost = $1,391,328

VII. REVEGETATION *(use multiple sheets as needed)*

Hydroseeding

(↑ Describe Revegetation Activity Being Estimated)

Methods to be used:

A. Equipment - List equipment to complete identified task. For large reclamation projects, separate mine areas.

Equipment	Unit of Measure	$/Unit	# of Units	Cost ($)
Hydroseeding Equipment & Labor(PCRA)(excl. seed cost)[1]	Acre	$6,500.00	13.7	$89,050
Hydroseeding Equipment & Labor (remaining areas)[2]	Acre	$1,634.00	502.0	$820,268
1. Hydroseeding quote from Freedlun Hydroseeding.		$0.00	0.0	$0
2. Hydroseeding quote from RSMeans Data (32 92 19.14 0600).		$0.00	0.0	$0
			Total Equipment Cost for this Task =	$909,318

B. Labor - List all labor categories to complete identified task.

Labor Category	$/Hour (prevailing wage)	Labor Surcharge /HR (where applicable) (enter % of wage) 0.0%	# of Hours	Cost ($)
	$0.00	$0.00	0.0	$0
			Total Labor Cost for this Task =	$0

C. Materials - List all materials required to complete identified task

Item/Plant Species	Unit of measure	$/Unit	Sales tax (enter local rate in %) 0.0%	Quantity	Cost ($)
Artemisia californica	Pounds	$40.00	$0.00	8,169.0	$326,760
Baccharis pilularis	Pounds	$30.00	$0.00	10,122.2	$303,666
Eriogonum fasciculatum	Pounds	$12.00	$0.00	10,259.2	$123,110
Salvia leucophylla	Pounds	$80.00	$0.00	1,004.0	$80,320
Salvia mellifera	Pounds	$48.00	$0.00	1,564.9	$75,115
Achillea millefolium	Pounds	$48.00	$0.00	1,031.4	$49,507
Artemisia douglasiana	Pounds	$110.00	$0.00	530.0	$58,300
Bromus carinatus	Pounds	$8.00	$0.00	3,094.2	$24,754
Elymus glaucus	Pounds	$24.00	$0.00	3,094.2	$74,261
Eschscholzia californica	Pounds	$24.00	$0.00	1,004.0	$24,096
Heterotheca grandiflora	Pounds	$90.00	$0.00	515.7	$46,413
Lotus purshianus	Pounds	$100.00	$0.00	551.3	$55,130
Lotus scoparius	Pounds	$50.00	$0.00	1,004.0	$50,200
Lupinus nanus	Pounds	$52.00	$0.00	502.0	$26,104
Melica californica	Pounds	$55.00	$0.00	1,004.0	$55,220
Nassella pulchra	Pounds	$48.00	$0.00	2,008.0	$96,384
Poa secunda	Pounds	$30.00	$0.00	1,004.0	$30,120
Trifolium willdenovii	Pounds	$60.00	$0.00	1,004.0	$60,240
Plantago erecta	Pounds	$40.00	$0.00	41.4	$1,656
Sisyrinchium bellum	Pounds	$90.00	$0.00	19.2	$1,728
Vulpia microstachys	Pounds	$24.00	$0.00	137.0	$3,288
Carex barbarae	Pounds	$400.00	$0.00	3.0	$1,200
Carex praegracilis	Pounds	$125.00	$0.00	3.0	$375
Cyperus eragrostis	Pounds	$140.00	$0.00	6.0	$840
Hordeum brachyantherum	Pounds	$30.00	$0.00	18.0	$540
Juncus effusus	Pounds	$120.00	$0.00	1.0	$120
Juncus patens	Pounds	$135.00	$0.00	1.0	$135
Leymus triticoides	Pounds	$80.00	$0.00	6.0	$480
				Total Materials Cost for this Task =	$1,570,062

D. Total Direct Cost for this task

Equipment Cost + Labor Cost + Materials Cost = $2,479,380

VIII. MISCELLANEOUS COSTS *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Examples of this type of cost may include temporary storage of equipment and materials off site, special one-time permits (i.e. transportation permits for extra wide overweight loads, etc.), decommissioning a process mill (i.e. decontamination of equipment), disposal of warehouse inventories, well abandonnment, remediation of fueling and waste oil storage sites, septic system removal, costs to prepare closure and monitoring reports, site security, preserving potable water and maintaining utilities, etc.

Item/Task	Quantity	$/Unit	Cost ($)
Water Line Construction (feet)	6,000.0	$15.64	$93,840
Power Line Construction (poles)	20.0	$2,140.00	$42,800
Removal of Power Lines and Poles (poles)	20.0	$354.00	$7,080
Geotechnical Oversight During Backfilling			
Geotechnical Monitoring (Technician) (hours)	5,600.0	$90.00	$504,000
Geotechnical Monitoring (Supervision) (hours)	280.0	$155.00	$43,400
Final Geotechnical Report (hours)	80.0	$155.00	$12,400
	0.0	$0.00	$0
Permitting Costs for PCRA (lump sum)	1.0	$23,361.00	$23,361
Wetland Delineation (lump sum)	1.0	$5,631.00	$5,631
		Total Miscellaneous Costs =	$732,512

IX. MONITORING COSTS

Monitoring Task	$/Visit	# of Visits/Year	# of Monitoring Years	Cost ($)
Creek Restoration Monitoring (PCRA – 1 year) (hours)	$105.00	100.0	1.0	$10,500
Geologic Monitoring (PCRA – 1 year) (hours)	$155.00	120.0	1.0	$18,600
Annual Monitoring (Scientist/Tech)	$14,984.00	1.0	5.0	$74,920
Annual Monitoring (Project Manager)	$1,640.00	1.0	5.0	$8,200
Geologic Monitoring (Geologist)	$5,467.00	1.0	5.0	$27,335
Water Quality Monitoring (QSP	$13,800.00	1.0	5.0	$69,000
Water Quality Monitoring (QSD)	$5,480.00	1.0	5.0	$27,400
Report Preparation (Scientist/Tech)	$5,750.00	1.0	5.0	$28,750
Report Preparation (Project Manager)	$1,370.00	1.0	5.0	$6,850
Annual Weed Control and General Maintenance	$65,713.00	2.0	5.0	$657,130
Annual Maintenance of Temporary Stormwater BMPs	$150,000.00	1.0	5.0	$750,000
			Total Monitoring Costs =	$1,678,685

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X. SUMMARY OF COSTS

This section shall be used to summarize all the cost sheets in one place.

(V) Total of all Plant Structures & Equipment Removal Costs	$	223,143
(VI) Total of all Primary Reclamation Activities Costs	$	47,492,788
(VII) Total of all Revegetation Costs	$	3,870,709
(VII) Total of all Miscellaneous Costs	$	732,512
(IX) Total of all Monitoring Costs	$	1,678,685
Total of Direct Costs	$	**53,997,837**

XI. SUPERVISION / PROFIT & OVERHEAD / CONTINGENCIES / MOBILIZATION

(A) Supervision (2.4 %)		$	1,272,896
(B) Profit/Overhead (3.8 %)		$	2,053,379
(C) Contingencies (2.0 %)		$	1,079,957
(D) Mobilization (2.0 %)		$	1,079,957
Total of Indirect Costs		$	**5,486,189**
Total of Direct and Indirect Costs		$	**59,484,026**
(E) Lead Agency and/or Dept. of Conservation Administrative Costs	5%	$	2,974,201

Total Estimated Cost of Reclamation $ **62,458,227**

Attachment 1

AGGREGATE MACHINERY SPECIALISTS

924 Calle Negocio • Unit A
San Clemente, CA 92673
Phone: (949) 366-3070 • Fax: (949) 366-3069
www.aggregatemachineryspecialist.net

October 19, 2020

Mr. Travis Jokerst
ENVIROMINE INC.
3511 Camino del Rio South, Suite 403
San Diego, CA 92108

SUBJECT: Lehigh Hanson Permanente Plant
QUOTE #: 1020-1103-JFM(1a)

Dear Mr. Jokerst,

Thank you for the opportunity to revise and update our previous quotations of July 12, 2016 and September 7, 2018. At this time we are also revising our cover letter of October 13, 2020. These changes expand on conveyors, the specifications, and important features.

Truck haulage for these grades, anticipated haul distance, operating hours, and environmental issues such as noise, lighting, emissions, increase in labor force and cost, both operating and maintenance.

As originally requested somewhere around 2012, we proposed a conveyor system consisting of four (4) 42" x 2,375' with 300 Hp drive. This system could handle to up to 2,000 Tph in surges and, subject to final elevation. Elevation change was nominal 200' or 50' per unit. This resulted in a conservative range in tonnage and elevation, and a total conveyor length of 9,500'.

If the conveyor length needs to be increased this can be done by adding up to 375' for each conveyor. This results in four units nominal 2,750' or 11,000' run. This will utilize the available 300 Hp per conveyor without over loading.

This equipment has a normal useful life of over 10 years and with reasonable maintenance can be extended almost indefinitely. Conveyors 20 – 25 years old are common and if in reasonable condition resale value is good. The same cannot be said for haulage equipment. The system as described has very heavy mine duty components. Belt speed and tension are well within good design characteristics. The capacity is somewhat dependent on the primary crusher thruput and can operate between 1000 – 2000 Tph. Limiting factors other than capacity will be belt speed, belt tension, and elevation changes. Downhill motor horsepower is the same uphill, due to the braking action. It may be possible to generate power to off set some of the power costs.

As you can see om the report there are significant increases in costs. There is an on-going consolidation of suppliers, reduction in manufacturing and service personnel, less imported components and supplies, and pressure for increased profits.

Additionally, freight costs for shipments into California are increasing in the 20% - 40% range. Regulations, fuel costs, insurance, and permits are increasing with a reduction in competition.

Deliveries are currently 16 – 20 weeks after drawing approval. Approval drawings would be available typically 3 – 4 weeks after receipt and acceptance of an approved purchased document.

Terms are also changing. Typically, one can expect a nominal 20% down payment with order, 25% upon drawing approval, 45% upon notice of readiness to ship, balance 20 Days after shipment.

Invoices EQ20063 and EQ20066 for these services in relation to this project have been forwarded. Note, the terms are Net Due on Receipt.

We trust this meets your requirements and that you will not hesitate in contacting us if any questions arise or changes are required.

Thank you,

AGGREGATE MACHINERY SPECIALIST

John F. Mulligan

Cc: T. ONeill
J.C. Mulligan

ENVIROMINE

Lehigh Hanson Permanente Reclamation

October 13, 2020

ITEM 1 Primary Station

1. New 40 x 50 Portable Primary Plant consisting of the following:

Structural steel chassis with blocking supports, crusher discharge hopper, chutes, and all necessary supporting structures.

Deister 60" x 24' Heavy Duty Vibrating Grizzly Feeder complete with mild steel pan, 1/2" thick AR steel pan liner, 10' long step deck AR steel grizzly bar section, and heavy duty coil support springs with pads.

- Dual shaft gear driven vibrating unit with adjustable counterweights, 140 mm oil lubricated bearings, 1/2 HP oil lube system with electric circulating pump and oil reservoir, and drive sheave.

- Variable Frequency, 60 HP, 1800 RPM, totally enclosed, fan cooled, high torque, ball bearing, squirrel cage motor with V-belt drive for motor including motor sheave, bushing for motor sheave, v-belts for standard drive centers, and pivotal motor base

McLanahan or Telsmith Roller Bearing Jaw Crusher complete with fabricated steel frames, manganese steel jaw dies, AR cheek plates, hydraulic locking and unlocking wedge lock mechanism with manual hand pump, toggle beam, fly wheel and crusher sheave.

- Automatic pressure oil lubrication system including 2 HP electric oil pump, oil tank, filter, pressure regulator, by-pass valve, pressure gauge, alarm system.

- Hydraulic toggle relief cylinders controlled by a hydraulic power unit with 20 HP electric driven pump, reservoir, filter, water to oil cooler, relief valve and hydraulic controls.

- V-belt drive for 1200 RPM motor including motor sheave, bushing for motor sheave and v-belts for standard drive centers. (Shaft diameter, length and keyway details must be provided if motor supplied by Customer.)

- V-belt drive guard consisting of guard with mounting bracket for attachment to standard foundations. Guards comply with most safety codes, but may require field modifications to meet specific codes.

- Quad axles and highway towing kit including axles, axle support, air brakes, wheels, tires, kingpin, mud-flaps, and lights with reflectors.

- 250 HP, 1200 RPM, TEFC electric motor with slide-rails.

- 54" x 32'-3" End Discharge Conveyor complete with V-belt and torque arm reducer drive, 20 HP, 1800 RPM, TEFC, 3/60/460 electric motor, drive guard, nip guards, idlers, 3-ply 3/16" x 1/16" conveyor belting, lagged head pulley, self-cleaning tail pulley, skirting with rubber flashing, belt scraper, and backstop.

PRICE: **$1,250,000.00**

OPTIONS/ACCESSORIES

A. Self-contained gas engine powered 4-point hydraulic leveling system including 6" bore hydraulic rams with 36" stroke, control valves, hoses, and mounting brackets. Plant must be blocked for operation.

ADD: **$ 34,800.00**

B. Lift off motor starter panel with wiring to plant motors and variable speed control.

ADD: **$ 69,705.00**

ITEM 2 Dust Collector

A. DCE Model DLMV 60/15 Type F (H + K11- 15 Hp Integral Fan) Base Model

- Finish cost: standard finish
- Seal frame assembly (tube sheet): standard –mild steel
- Inserts: mild steel
- Filter bags: Dura-Life™ Polyester
- Control Box with Timer: with solenoids (NEMA 4 ENCL)
- Pressure gauge: Magnehelic
- Motor options: fan rotation
- Compressed air components: piggyback filter and regulator
- Housing assembly (upstands): vertical, unmounted
- Clamp assembly: standard

PRICE: fob Louisville, KY **$ 46,515.00**

B. Mounting

Designed to be installed on the discharge conveyor, removed when traveling.

Vertical mounting support, corrugated metal conveyor covers, discharge head box for conveyor.

PRICE: fob Factory **$ 23,220.00**

TOTAL: **$ 69,735.00**

SUMMARY – Item 1 & 2

Primary	$1,250,000.00
Leveling Jacks	$ 34,800.00
Motor Control	$ 69,705.00
Dust Collector with Mounting	$ 69,735.00
Subtotal	**$1,424,240.00**
Sales Tax (8%)	$ 113,940.00
Freight, estimated	$ 125,000.00
TOTAL	**$1,663,180.00**

ITEM 3 42" x 2375' Overland Conveyor

- **Frame –** 8" channel, bolt in cross members
- **Supports** – 2' tall intermediate supports on 20' spacing, head end supports for 8' discharge height
- **Drive –** Falk V-Class shaft mounted right-angle gear reducer assembly with cooling fan and L.S. Hindon emergency brake
- **Motor –** 300hp electric with VFD control package
- **V-Belt Drive –** with drive guard
- **Capacity –** 2000 TPH based on 100# per cu/ft of material
- **Belt Speed –** 511 FPM @ 212' decline
- **Pulleys – ENGINEERED CLASS PULLEYS**
- **Take Up –** Gravity take up tower on tail end
- **Belting –** Quoted Separately
- **Primary Belt Scraper –** Martin Pit Viper Primary with Twist Tensioner
- **Secondary Belt Scraper –** Martin Secondary Scraper with tungsten-carbide blade
- **V-Plow –** On return side
- **Transition Idlers –** CEMA D, PPI, 20 degree sealed 5" diameter trough idlers
- **Troughing Idlers –** CEMA D, PPI, 35 degree sealed 5" diameter trough idlers, 3.5' spacing
- **Return Idlers –** CEMA D, PPI, sealed 5" return idlers, 10' spacing
- **Self-Aligning Idlers –** CEMA D, PPI 50' from ends, then 100' spacing
- **Hopper –** 6ft long with adjustable rubber flashing
- **Switchgear – NOT INCLUDED**
- **Guards –** Tail pulley guard, v-belt guard and nip guard on head pulley. We do not warrant that our guards will meet all local codes. It is the responsibility of the end user to have them checked by a local inspector
- **Steel Shot Blasted**
- **Primer –** (1) coat of 2 part urethane primer
- **Paint –** (1) coat of 2 part urethane paint
- **Owner's Manual –** (2) copies for maintenance and parts

PRICE: fob Point of Manufacture **$1,091,415.00 each**

OPTIONS/ACCESSORIES

A. Safety Cut-off switch with cable	**ADD:**	**$ 13,000.00**
B. Discharge Hood with replaceable AR liners	**ADD:**	**$ 4,000.00**
C. Fenner-Dunlop 42" PSR 3-1200 Granite 3/8 x ¼ covers	**ADD:**	**$ 586,000.00**
D. Dust collector, Model DLVM-2010, 7½ Hp, vertical mounting, support legs	**ADD:**	**$ 35,155.00**

Total for one (1) conveyor:		**$1,729,570.00**
Lot of four (4) conveyors:		**$6,918,280.00**
Sales Tax (8%)	$ 553,420.00	
Freight, estimated		$ 380,000.00
TOTAL:		**$7,851,700.00**

ITEM 4 Masaba 42" x 190' Pit Portable Magnum Telescoping Stacker

Conveyor Frame
Main Frame – 84" Deep engineered truss
Extra Chord Angle – From tail end to head end undercarriage pinning point.
Counterweight – On-board design installed in the main frame tail
Stinger Frame – 66" Deep engineered truss
Stinger Drive – ***MASABA*** **TRACK TECHNOLOGY**. Eliminates danger of cable breakage and uncontrolled roll back - No winch or cable. Conveyor extends to 190' length

Road Portability
Tubular Undercarriage – Hydraulic raise & lower with 30 hp pumping unit
Swing Axle – Pit portable tandem walking beam axle with dual (8) 385/65D-19.5 tires and wheel
Axle Jacks – Jacks hydraulically lift conveyor to allow swing axle deployment
Power Travel – (1) hydraulic drive with #100 chain and sprockets
Towing Eye – For pit transport
Anchor Pivot Plate - Maintains tail end during radial travel.

Main & Stinger Components
Drives – Class II head end
Motors – (2) 60 hp/(2) 50 hp
Gear Reducers – Dodge TAII shaft mount with backstop
Capacity – 1500 TPH based on 100# per cu/ft of material at 18 degrees
Belt Speed – 450/600 FPM
Head Pulley – Heavy Duty 18" diameter drum pulley with 3/8" herringbone lagging
Tail Pulley – Heavy Duty 16" diameter self-cleaning wing type pulley
Take Ups – Screw type
Belting – 3-ply 3/16" x 1/16" 330 PIW
Belt Splice – Flexco mechanical steel fasteners
Belt Scraper – Martin Pit Viper with Twist Tensioner
Transition Idlers *(main)* – CEMA C, Precision, 20 degree, sealed 5" diameter idlers
Troughing Idlers – CEMA C, Precision, 35 degree, sealed 5" diameter, 4' spacing
Return Idlers – CEMA C, Precision, sealed 5" return idlers, 10' spacing
Self-Aligning *(main)* – (1) CEMA C, Precision, self-aligning idler
Self-Aligning Return *(stinger)* – ASGCO Tru-Trainer Return Roll
Hopper – 6' long hopper with adjustable rubber flashing, radial receiving hopper and rock ledge

Controls
Complete Switchgear - manual operation for extend/retract, raise/lower, axle jacks, start/stop conveyors and main disconnect
PLC – Manual – electric buttons control. Power travel, conveyor raise and conveyor extension.
Material Flow Sensor – pauses conveyor movement when material is not present

General Specifications
Guards – Tail pulley guard, v-belt guard and nip guard on head pulley. We do not warrant that our guards will meet all local codes. It is the responsibility of the end user to have them checked by a local inspector
Steel Shot Blasted
Primer – (1) coat of 2 part urethane primer
Paint – (1) coat of 2 part urethane paint
Owner's Manual – (2) copies for maintenance and parts

PRICE: fob, South Dakota **$ 627,975.00**

OPTIONS/ACCESSORIES

A. Remote grease bank for pulley bearings	**ADD:**	**$**	**3,700.00**
B. Wireless remote control for all manual conveyor functions 1,000 ft. range	**ADD:**	**$**	**4,500.00**
C. Impact idlers in lieu of steel rolls in load area	**ADD:**	**$**	**1,250.00**
D. Safety switch, radial travel safety switches	**ADD:**	**$**	**1,450.00**
E. Dual power travel, 4-wheel drive	**ADD:**	**$**	**9,250.00**

Total with options:	**$**	**648,125.00**
Sales Tax (8%)	$	51,850.00
Freight, estimated	$	32,025.00
TOTAL:	**$**	**732,000.00**

SUMMATION

Item 1 &2	Primary Station and Dust Control	$ 1,663,180.00
Item 3	Conveyors (4)	$ 7,851,700.00
Item 4	Pit Stacker	$ 732,000.00
TOTAL		**$10,246,880.00**

Freights are based on current freight estimates and would be invoiced at our actual cost. Sales tax is quoted at current rate and would be adjusted to appropriate rate at time of invoice. Terms to be agreed upon.

J.F. Mulligan
October 13, 2020

Attachment 2

Stantec

Memo

To:	Talia Flagan Mineral Resource Manager West Region 24001 Stevens Creek Blvd. Cupertino, CA 95014 talia.flagan@LehighHanson.com	From:	Erick Kennedy 5725 Mark Dabling Blvd. Suite 190 Colorado Springs, CO 80919 erick.kennedy@stantec.com
File:	face_memo_08202020	Date:	August 20, 2020

Reference: RPA Reclaim FACE Memo & face_memo_08302019

Stantec was provided a drawing file with contours representing the 2012 approved Reclamation Plan Amendment (RPA) surface. These contours correspond to Figure 3.16-4 Mining and Reclamation Phase 3 / Final Reclamation, created by EnviroMINE Inc December 2011. Stantec was asked to calculate the volume of fill material required to meet this surface to be applied in the cost estimate calculation for an updated FACE (Financial Assurance Cost Estimate). Lehigh has asked Stantec to calculate the volume of fill to move required to achieve their final RPA topography from 'current' topography. The topography used in the updated calculation represents surface conditions on May 30, 2020.

The volume of fill required to achieve the 2012 RPA contours in the area surrounding the "North Quarry In-Pit Fill" is shown in Table 1 below. Figures 1 and 2 show the surfaces to demonstrate the relevant area within the reported volume. The conceptual pit volume on the south side of Permanente Creek was omitted from the analysis. The actual pit bottom was clipped from the provided May 30, 2020 topography surface due to existing water levels. No additional fill volume was added to account for the difference between bottom of the available surface and actual mining dig faces.

Table 1: Fill volume between the starting and ending surface

end surface: 2012 approved reclamation plan topo

start surface: May 30, 2020 topo

Fill volume (end surface above start surface):

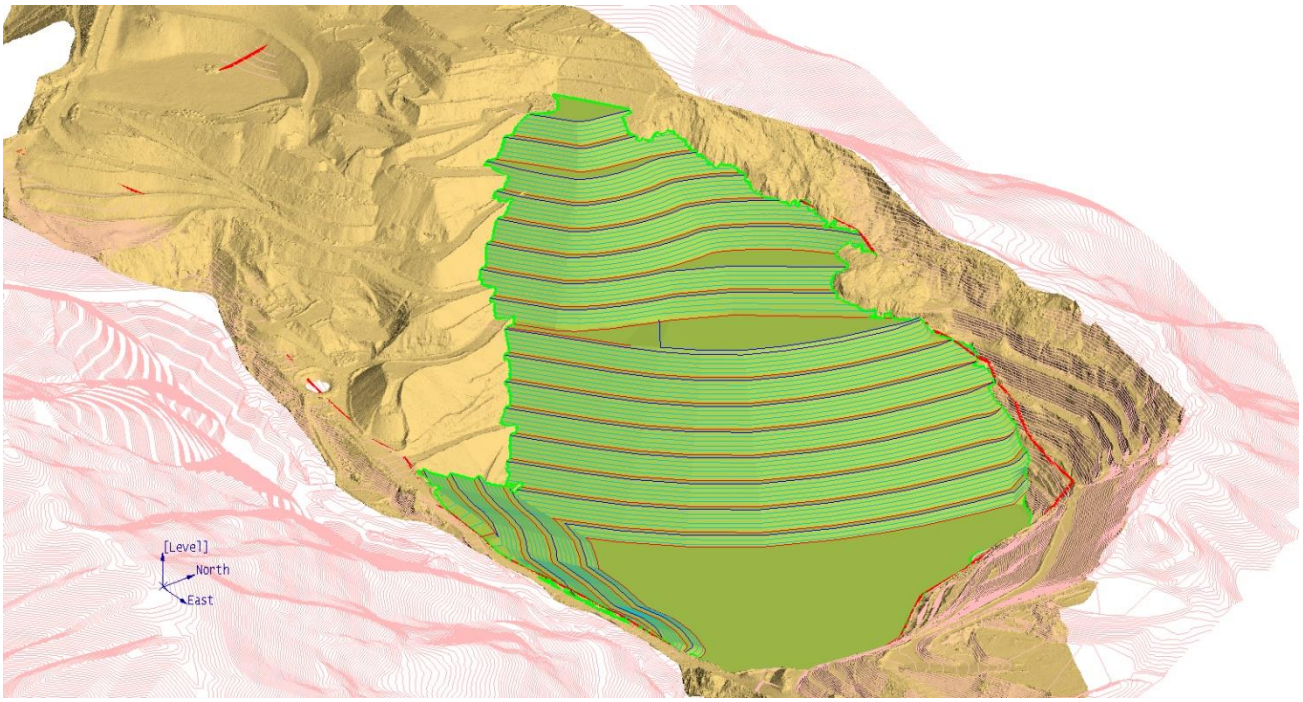
824,372,803 cubic feet

30,532,326 cubic yards

The fill volume increased by 686,678 cubic yards over the last year's survey due to mining advancements.

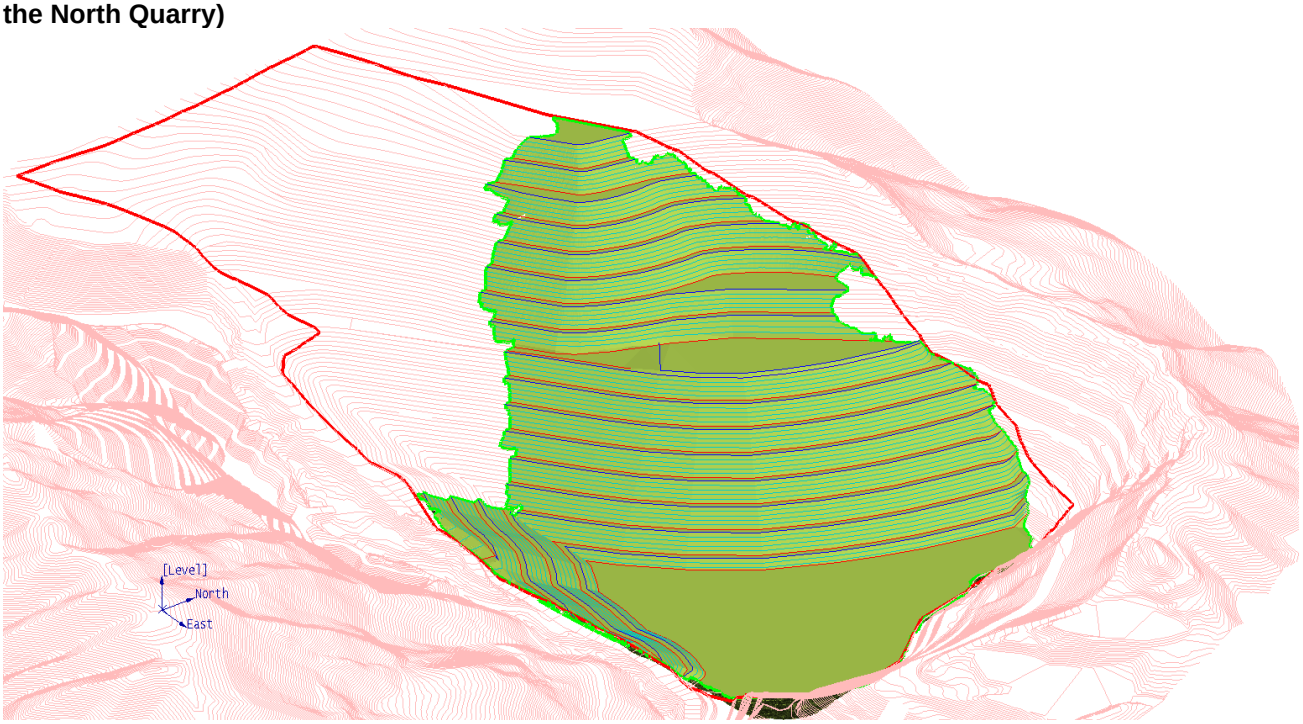
Reference: **RPA Reclaim FACE Memo & face_memo_08302019**

Figure 1: 2012 RPA surface (red topo lines with light green surface of relevant area within the North Quarry) with the May 30 2020 topo (tan surface)



Reference: **RPA Reclaim FACE Memo & face_memo_08302019**

Figure 2: 2012 RPA surface (red topo lines with light green surface indicating the relevant area within the North Quarry)

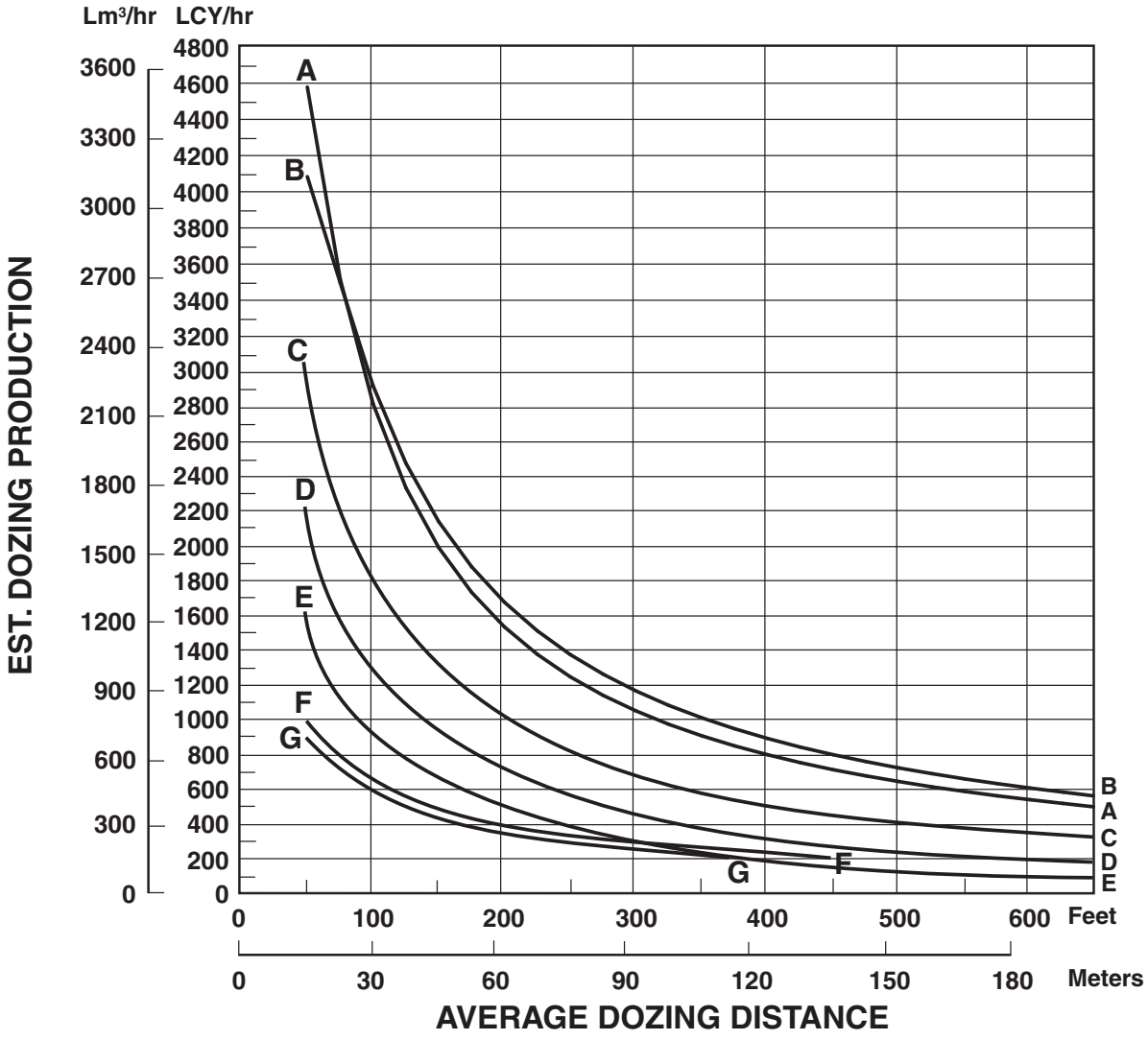


Stantec Consulting Services Inc.

Erick Kennedy
Mine Designer
Phone: (303) 291-2178
erick.kennedy@stantec.com

Attachment 3

ESTIMATED DOZING PRODUCTION ● Universal Blades ● D7G through D11T



KEY

A — D11T-11U
B — D11T CD
C — D10T-10U
D — D9R/D9T-9U
E — D8R/D8T-8U
F — D7R Series 2-7U
G — D7G-7U

NOTE: This chart is based on numerous field studies made under varying job conditions. Refer to correction factors following these charts.

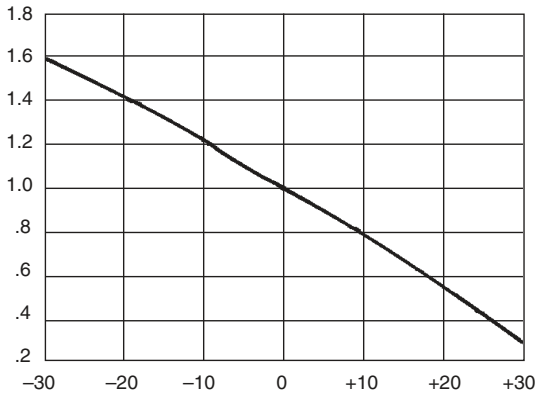
JOB CONDITION CORRECTION FACTORS

	TRACK-TYPE TRACTOR	WHEEL-TYPE TRACTOR
OPERATOR —		
Excellent	1.00	1.00
Average	0.75	0.60
Poor	0.60	0.50
MATERIAL —		
Loose stockpile	1.20	1.20
Hard to cut; frozen —		
with tilt cylinder	0.80	0.75
without tilt cylinder	0.70	—
Hard to drift; "dead" (dry, non-cohesive material) or very sticky material	0.80	0.80
Rock, ripped or blasted	0.60-0.80	—
SLOT DOZING	1.20	1.20
SIDE BY SIDE DOZING	1.15-1.25	1.15-1.25
VISIBILITY —		
Dust, rain, snow, fog or darkness	0.80	0.70
JOB EFFICIENCY —		
50 min/hr	0.83	0.83
40 min/hr	0.67	0.67
BULLDOZER*		
Adjust based on SAE capacity relative to the base blade used in the Estimated Dozing Production graphs.		
GRADES — See following graph.		

***NOTE:** Angling blades and cushion blades are not considered production dozing tools. Depending on job conditions, the A-blade and C-blade will average 50-75% of straight blade production.

% Grade vs. Dozing Factor

(–) Downhill
(+) Uphill



ESTIMATING DOZER PRODUCTION OFF-THE-JOB

Example problem:

Determine average hourly production of a D8T/8SU (with tilt cylinder) moving hard-packed clay an average distance of 45 m (150 feet) down a 15% grade, using a slot dozing technique.

Estimated material weight is 1600 kg/Lm^3 (2650 lb/LCY). Operator is average. Job efficiency is estimated at 50 min/hr.

Uncorrected Maximum Production — 458 Lm^3/h (600 LCY/hr) (example only)

Applicable Correction Factors:

Hard-packed clay is "hard to cut" material –0.80
Grade correction (from graph) . . . . . .–1.30
Slot dozing . . . . . .–1.20
Average operator . . . . . .–0.75
Job efficiency (50 min/hr) . . . . . .–0.83
Weight correction . . . . . .(2300/2650)–0.87

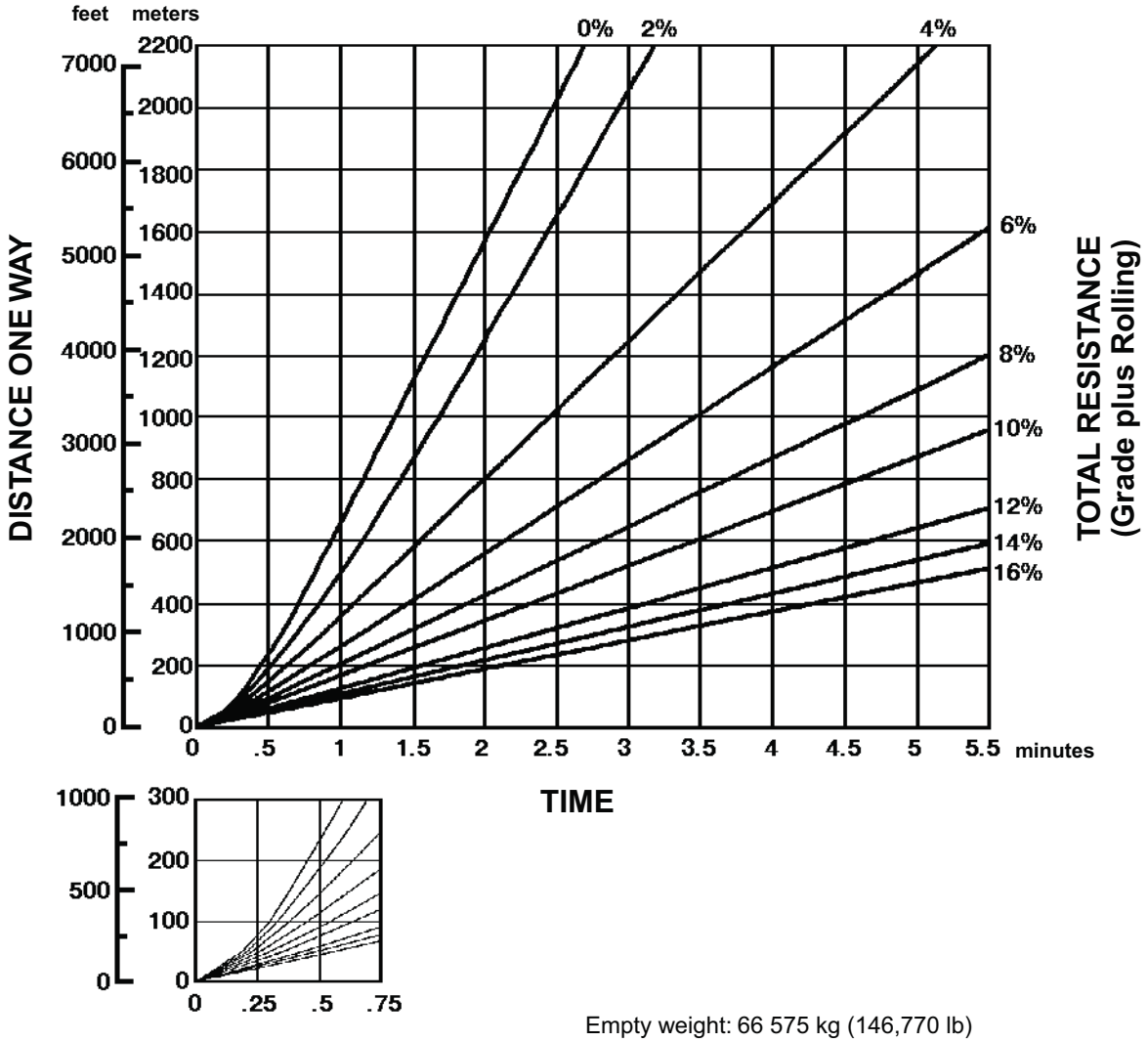
Production = Maximum Production × Correction Factors
= (600 LCY/hr) (0.80) (1.30) (1.20) (0.75) (0.83) (0.87)
= 405.5 LCY/hr

To obtain production in metric units, the same procedure is used substituting maximum uncorrected production in Lm^3.

= 458 Lm^3/h × Factors
= 309.6 Lm^3/h

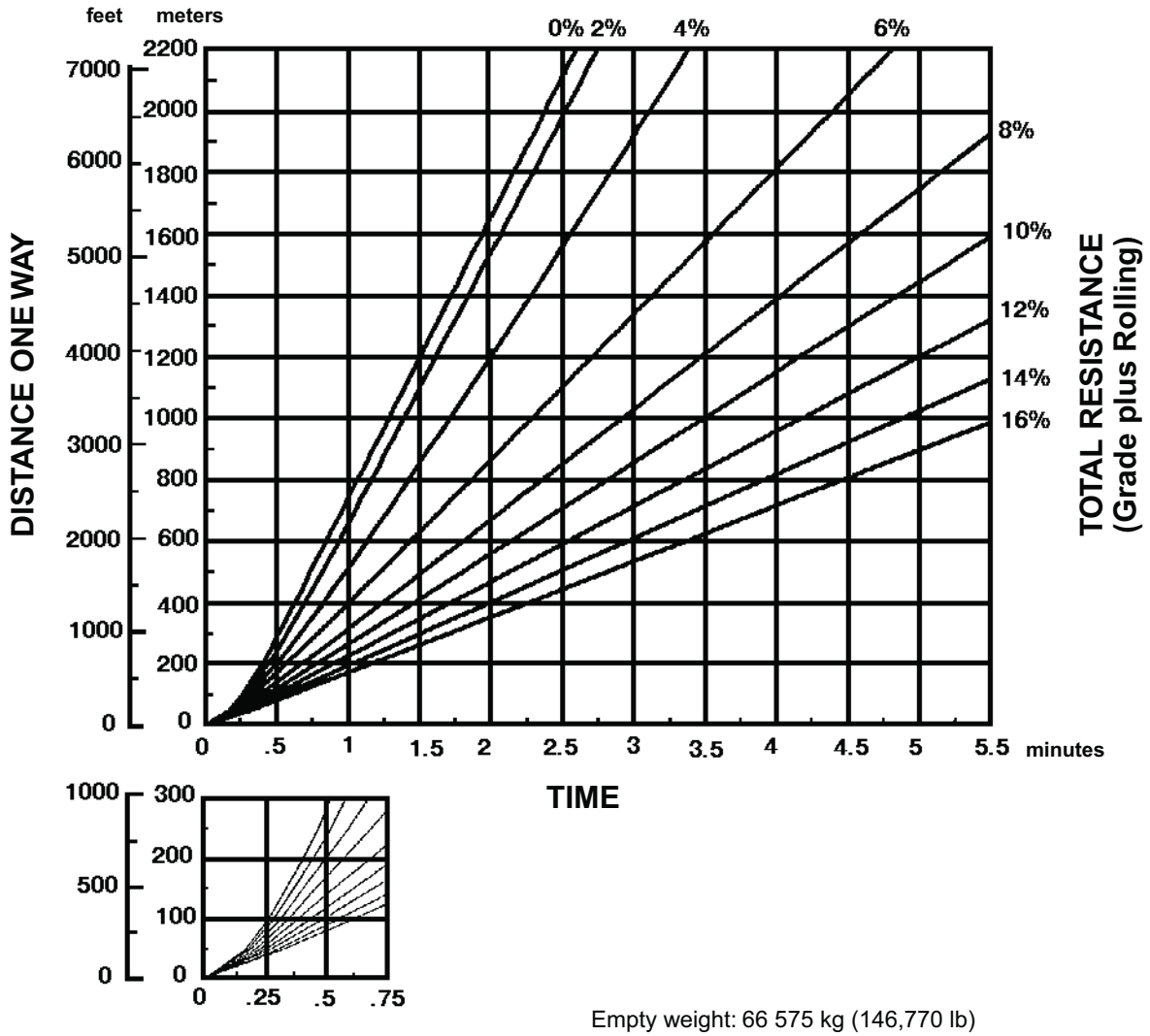
Attachment 4

LOADED



Empty weight: 66 575 kg (146,770 lb)
Payload: 47 175 kg (104,000 lb)

EMPTY



Empty weight: 66 575 kg (146,770 lb)

Attachment 5

https://www.zankerrecycling.com/zbest/products/landscape-compost/

Soil and Sand — South County... | Z-Best - Landscape Compo...

980 State Highway 25
Gilroy, CA
View Map

zbest composting

Questions?
Call or email us.
408 846-1577

ORGANIC COMPOSTS AND MULCHES

Landscape Compost

Landscape Compost is produced from food scraps. Landscape Compost particle size is 1/4" minus and weighs around 900 lbs per cubic yard. Z-Best Landscape Compost conditions soil and improves aeration, drainage, and water and nutrient-holding capacity. Landscape Compost is a helpful addition for heavy clay soils and is an effective pre-plant conditioner for new lawns and gardens.

Please contact us at 408-313-0444 for any questions regarding wholesale purchases of our products.

1:23 PM
10/7/2019

From: Beto Ochoa
To: Kristen Davis
Subject: Re: Compost Quote
Date: Thursday, August 20, 2020 11:44:30 AM

Hi Kristen,

The cost of compost is the same. Depending on the time of year, we may even provide a lower price for your job.

Thank you,

Beto Ochoa
Z-Best Products
980 State Hwy 25
Gilroy, CA 95020
Cell: 408-313-0444
Email: beto@zankerrecycling.com

On Tue, Aug 18, 2020 at 1:46 PM Kristen Davis <Kristen@enviromineinc.com> wrote:

> Hello Beto,
>
> My coworker Travis Jokerst obtained a landscape composting quote from you last year (see email attached). Has the cost for 60,000 tons of landscape compost changed since last year?
>
> Thank you so much,
>
> Kristen Davis
>
> EnviroMINE, Inc
>
> 1400 E Katella Ave, Suite 218
>
> Orange, CA 92867
>
> 619-952-9619

From: Beto Ochoa
To: Travis Jokerst
Subject: Re: Compost Quote
Date: Monday, October 07, 2019 12:33:46 PM
Attachments: image001.png

Hi Travis,

60,000 tons of our cheapest compost (Landscape Compost) = $27.75/ ton freight and taxes included.

Thank you,

Beto Ochoa
Z-Best Products
980 State Hwy 25
Gilroy, CA 95020
Cell: 408-313-0444
Email: beto@zankerrecycling.com

On Mon, Oct 7, 2019 at 10:00 AM Travis Jokerst <travisj@enviromineinc.com> wrote:

> Good Morning Beto,
>
> I'm estimating the cost for reclaiming a mine site in the Cupertino area and this would require about 60,000 tons of organic material for blending with backfill. Can you please send me a quote for your cheapest mulch, including delivery and tax? This work may not happen for several years, so please use an average conversion number from yards to tons (since I don't know what time of year it would be needed). The site is near the intersection of Stevens Creek Boulevard and Foothill Boulevard.
>
> Feel free to call me if you have any questions.
>
> Thank you!
>
> Travis

Attachment 6

Warren Coalson
Enviromine, Inc.
3511 Camino Del Rio South, Suite 403
San Diego, CA 92108

August 18, 2020

Re: Permanente Quarry Cupertino

Dear Mr. Coalson:

Thank you for contacting Pacific Coast Seed, Inc. as your seed supplier for the above referenced project. We anticipate that we will have the below listed seed in sufficient quantities to seed the ~13.70 acres located in Cupertino, CA. The below items have been priced assuming the seed is provided on a Standard Commercial Quality basis. These items will be mixed and labeled in accordance with California and Federal Seed Laws and consist of the following:

Table 1:

SCIENTIFIC NAME	COMMON NAME	Pounds Per Acre Bulk Seed	Cost Per Pound Bulk Seed
SHRUBS			
Artemisia californica	coastal sagebrush	10	$40.00
Baccharis pilularis	coyotebrush	6	$30.00
Eriogonum fasciculatum	Eastern Mojave buckwheat	16	$12.00
Lotus scoparius (now known as Acmispon glaber)	deer weed	2	$50.00
Salvia mellifera	black sage	4.3	$48.00
GRASSES AND HERBS			
Achillea millefolium	common yarrow	2	$48.00
Artemisia douglasiana	Douglas' sagewort	1.9	$110.00
Bromus carinatus	California brome	10	$8.00
Clarkia purpurea ssp. quadrivulnera	winecup clarkia	1	$24.00
Elymus glaucus	blue wildrye	6	$15.00
Heterotheca grandiflora	telegraph weed	1	$90.00
Lotus purshianus (now known as Acmispon americanus)	Spanish Clover	3.6	$100.00
Plantago erecta	dotseed plantain	3	$40.00

Sisyrinchium bellum	western blue-eyed grass	1.4	$90.00
Vulpia microstachys	small fescue	10	$24.00

Table 2:

Scientific Name	Common Name	Lb/Acre	Price/Lb
Artemisia douglasiana	mugwort	2	$110.00
Carex barbarae	valley sedge	3	$400.00
Carex praegracilis	field sedge	3	$125.00
Cyperus eragrostis	tall flatsedge	6	$140.00
Hordeum brachyantherum	meadow barley	18	$30.00
Juncus effusus	bog rush	1	$120.00
Juncus patens	common rush	1	$135.00
Leymus triticoides	creeping wildrye	6	$80.00
Total		**40**	

Please provide a purchase order by June 1st on the year preceding that in which the seed purchase is intended. Some items may require extra collections be made in advance to assume supply of the quantities requested.

Thank you again for consulting Pacific Coast Seed, Inc. as your seed supplier for this project. We look forward to working with you on future projects.

Sincerely,

Pacific Coast Seed, Inc

Kitty Luckert

Kitty Luckert
Office Manager

Attachment 7

Warren Coalson
Enviromine, Inc.
3511 Camino Del Rio South, Suite 403
San Diego, CA 92108

August 18, 2020

Re: Permanente Quarry Cupertino

Dear Mr. Coalson:

Thank you for contacting Pacific Coast Seed, Inc. as your seed supplier for the above referenced project. We anticipate that we will have the below listed seed in sufficient quantities to seed the ~~13.70~~ 517 acres located in Cupertino, CA. The below items have been priced assuming the seed is provided on a Standard Commercial Quality basis. These items will be mixed and labeled in accordance with California and Federal Seed Laws and consist of the following:

Table 1:

SCIENTIFIC NAME	COMMON NAME	Pounds Per Acre Bulk Seed	Cost Per Pound Bulk Seed
SHRUBS			
Artemisia californica	Coastal Sagebrush	16 (8)*	$40.00
Baccharis pilularis	Coyotebrush	20 (6)*	$30.00
Eriogonum fasciculatum	California Buckwheat	20 (10)*	$12.00
Salvia leucophylla	Purple Sage	2*	$80.00
Salvia mellifera	Black Sage	3	$48.00
GRASSES AND HERBS			
Achillea millefolium	Common Yarrow	1	$48.00
Artemisia douglasiana	Douglas' Sagewort	1 (2)*	$110.00
Bromus carinatus	California Brome	6 (8)	$8.00
Elymus glaucus	Blue Wildrye	6 (8)	$24.00
Eschscholzia californica	California poppy	2 (1.5)	$24.00
Heterotheca grandiflora	Telegraph Weed	1*	$90.00
Lotus purshianus	Spanish Clover	1 (1.5)	$100.00
Lotus scoparius	Deerweed	2	$50.00
Lupinus nanus	Sky Lupine	1 (2)	$52.00
Melica californica	California Melic	2	$55.00

Nasella pulchra	Purple Needlegrass	4	$48.00
Poa secunda	One-Sided Bluegrass	2	$30.00
Trifolium willdenovii	Tomcat Clover	2	$60.00
Total		**93**	

Please provide a purchase order by June 1st on the year preceding that in which the seed purchase is intended. Some items may require extra collections be made in advance to assume supply of the quantities requested.

Thank you again for consulting Pacific Coast Seed, Inc. as your seed supplier for this project. We look forward to working with you on future projects.

Sincerely,

Pacific Coast Seed, Inc

Kitty Luckert

Kitty Luckert
Office Manager

Attachment 8

FREEDLUN HYDROSEEDING INC

518 BAYWOOD CT, VACAVILLE, CA 95688

LICENSE #740810

800-300-9423 707-448-9423

FAX 707-446-8146

DEAN@FREEDLUN.NET OR TERRI@FREEDLUN.NET

Price Quote

August 18, 2020
Kristen Davist
EnviroMine, Inc.
RE: Reclamation Cost Estimate 2020

Hello Kristen
Please find our updated pricing for the following BFM products:
Hydroseed using Flexterra: 20+ acres @ $6,500.00 per acre
Hydroseed using ProMatrix: 20 + acres @ $4,900.00 per acre (no longer hydroblanket)
Both products shall be applied @ 4,000 lbs/acre

This quote is for one application. Should more applications be required, additional charges will apply. Full payment of the quoted price is due within 30 days of application. Late payments will incur an additional fee of 1.5% per month.
This quote assumes customer will provide legal access to the property and to an ample water supply. If no water is available, let us know. This quote excludes any soil prep, soil amendments, any guarantee of growth, watering, weeding, or maintenance. The seed we purchase is determined by the details you have provided and authorized above, and is State inspected for germination percentages.
If a payment & performance bond is required, our rate is 3%. Unless we have been notified of such requirement in writing, the cost of any bond is not included in our quote, and will be added to the final quoted price. Our company is SB/MICRO certified through the State of California. Init. ____

Due to the changing prices of seed, the quoted price is good for 60 days. Let us know if you want to 'Lock-in' a price for a date more than 2 months away.

To accept this proposal, initial where indicated, sign and date below & fax back to 707-446-8146. Once accepted, this quote will become a contract.
In any legal action undertaken to enforce its terms, the successful party will be entitled to any and all attorney fees and legal costs incurred in connection with such an enforcement action.

x_____ Date_____ Initial Required Above

Printed name_____Title_____

Attachment 9

32 93 Plants

32 93 33 – Shrubs

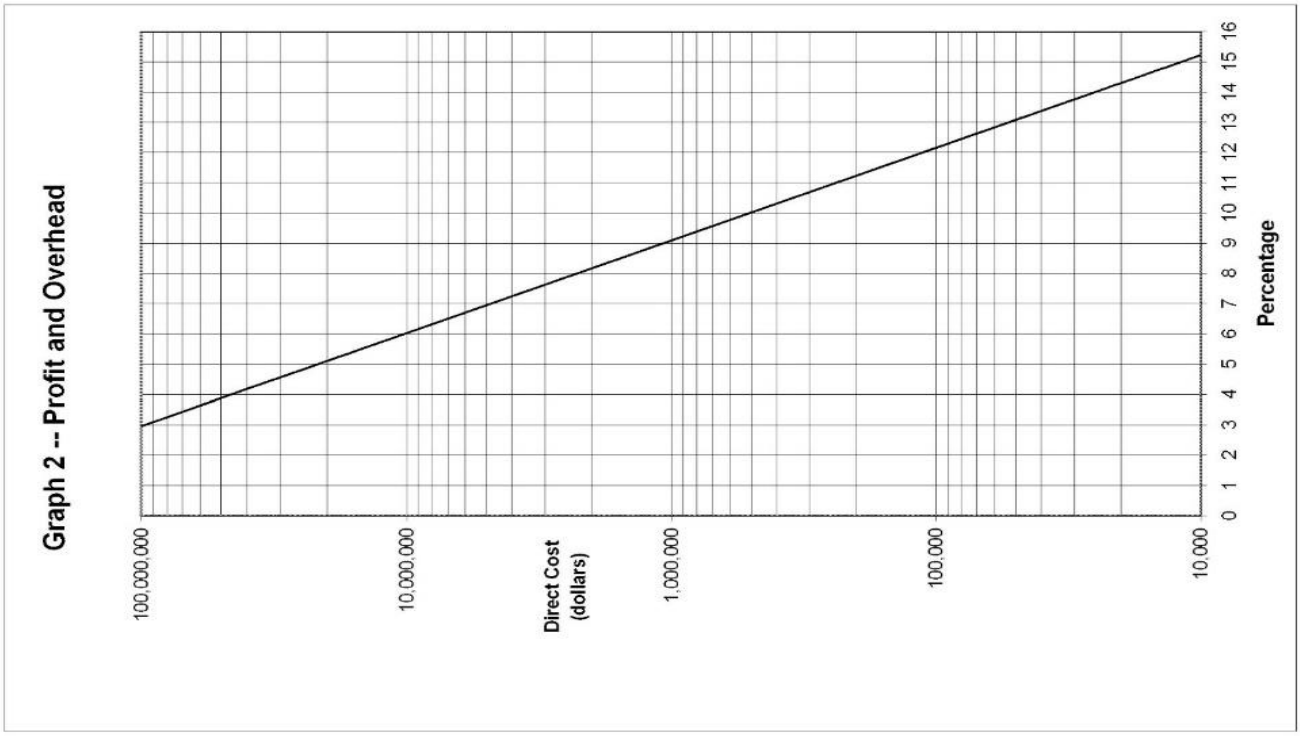
		Crew	Daily Output	Labor-Hours	Unit	2018 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
32 93 33.60 Cacti										
1310	1 gal.				Ea.	8			8	8.80
1312	2 gal.				↓	17.50			17.50	19.25
1320	5 gal.				↓	25			25	27.50
1400	Burbank spineless Prickly Pear, Opuntia fiscus-indica, Z8, cont									
1420	5 gal.				Ea.	20			20	22
1430	15 gal.				"	50			50	55
1500	Bunny ears, Opuntia microdasys, Z8, cont									
1510	1 gal.				Ea.	4.50			4.50	4.95
1520	5 gal.				"	16			16	17.60
1600	Prickly Pear, Opuntia species, Z8, cont									
1610	1 gal.				Ea.	5			5	5.50
1620	5 gal.				↓	20			20	22
1630	15 gal.				↓	50			50	55
1700	Giant Saguaro Cactus, Carnegia gigantea, Z8, cont									
1713	3 gal.				Ea.	43			43	47
1720	5 gal.				"	73			73	80

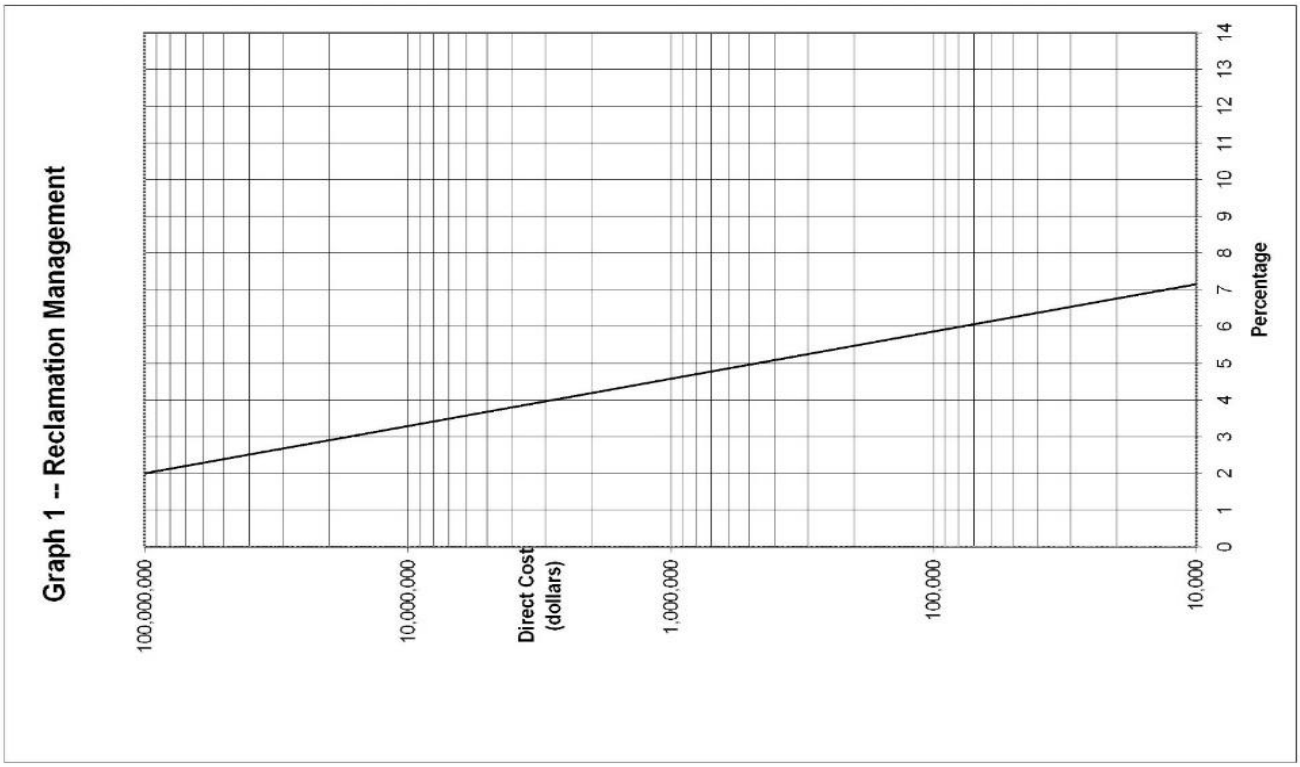
32 93 43 – Trees

32 93 43.10 Planting

0010	**PLANTING**									
0011	Trees, shrubs and ground cover									
0100	Light soil									
0110	Bare root seedlings, 3" to 5" height	1 Clab	960	.008	Ea.		.33		.33	.51
0120	6" to 10"		520	.015			.61		.61	.93
0130	11" to 16"		370	.022			.86		.86	1.31
0140	17" to 24"		210	.038			1.52		1.52	2.31
0200	Potted, 2-1/4" diameter		840	.010			.38		.38	.58
0210	3" diameter		700	.011			.46		.46	.69
0220	4" diameter		620	.013			.51		.51	.78
0300	Container, 1 gallon	2 Clab	84	.190			7.60		7.60	11.55
0310	2 gallon		52	.308			12.25		12.25	18.70
0320	3 gallon		40	.400			15.95		15.95	24.50
0330	5 gallon		29	.552			22		22	33.50
0400	Bagged and burlapped, 12" diameter ball, by hand		19	.842			33.50		33.50	51
0410	Backhoe/loader, 48 HP	B-6	40	.600			26	7.80	33.80	48.50
0415	15" diameter, by hand	2 Clab	16	1			40		40	60.50
0416	Backhoe/loader, 48 HP	B-6	30	.800			35	10.40	45.40	64.50
0420	18" diameter by hand	2 Clab	12	1.333			53		53	81
0430	Backhoe/loader, 48 HP	B-6	27	.889			39	11.55	50.55	72
0440	24" diameter by hand	2 Clab	9	1.778			71		71	108
0450	Backhoe/loader, 48 HP	B-6	21	1.143			50	14.90	64.90	92
0470	36" diameter, backhoe/loader, 48 HP	"	17	1.412	↓		61.50	18.40	79.90	114
0550	Medium soil									
0560	Bare root seedlings, 3" to 5"	1 Clab	672	.012	Ea.		.47		.47	.72
0561	6" to 10"		364	.022			.88		.88	1.34
0562	11" to 16"		260	.031			1.23		1.23	1.87
0563	17" to 24"		145	.055			2.20		2.20	3.35
0570	Potted, 2-1/4" diameter		590	.014			.54		.54	.82
0572	3" diameter		490	.016			.65		.65	.99
0574	4" diameter		435	.018			.73		.73	1.12
0590	Container, 1 gallon (29.5 plants/8 hr. day.)	2 Clab	59	.271			10.80		10.80	16.45
0592	2 gallon		36	.444			17.70		17.70	27
0594	3 gallon		28	.571	↓		23		23	34.50

Attachment 10


Graph 2 -- Profit and Overhead
100,000,000
10,000,000
Direct Cost (dollars)
1,000,000
100,000
10,000
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
Percentage


Graph 1 -- Reclamation Management
100,000,000
10,000,000
Direct Cost (dollars)
1,000,000
100,000
10,000
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Percentage