



3 April 2023
File No.: 0205062

Arizona State Mine Inspector
1700 West Washington Street #403
Phoenix, Arizona 85007

ATTENTION: Paul Marsh

SUBJECT: Technically Incomplete Response to Comments for CalPortland
Rio Rico Plant Reclamation Plan Significant Amendment

Dear Mr. Marsh:

CalPortland Company (CalPortland) and Haley & Aldrich, Inc. (Haley & Aldrich) have reviewed the Arizona State Mine Inspector (ASMI) correspondence dated 27 February 2023 regarding the technically incomplete significant amendment to an approved Reclamation Plan for the CalPortland Rio Rico Plant in Rio Rico, Arizona (Attachment A). The following presents CalPortland's response to ASMI's request for missing information.

GENERAL COMMENTS

Comment 1: Post Aggregate Mine Use

The plan amendment states the Post Mine Land Use is naturalized open space. However, the plan also states that septic tanks would remain in place. The septic tanks must be removed to be consistent with the stated PMLU.

Response to Comment 1:

The remaining infrastructure for the site to be left in place will be an asset to the property for the post mining land use. We have changed the post mining land use to commercial use.

Attachment B presents the revised Reclamation Plan Amendment.

Comment 2: Wildlife in Previously Undisturbed Areas

Please cite the source indicating that there are no wildlife habitats that would be disturbed.

Response to Comment 2:

Haley & Aldrich reviewed the Arizona Game and Fish Department website and GIS map at the following link: <https://ert.azgfd.gov/content/map>. No significant fish and wildlife habitats are present within the area of the site. This includes all previously disturbed and disturbed areas planned in the future. Haley & Aldrich did not revise Figures as there are no affected habitats within the previously disturbed or the future disturbed project areas.

Comment 3: Section 2.3.1: Third Bullet Point

Define "small" or remove.

Response to Comment 3:

Section 2.3.1 has been updated to reflect the comment above. Attachment B presents the revised Reclamation Plan Amendment.

Comment 4: Section 2.9

This section is not appropriate for the reclamation plan. Please remove.

Response to Comment 4:

We respectfully disagree with this comment. This statement within Section 2.9 has been included in over 100 approved reclamation plans. We feel that it is appropriate and reflects the unpredictability of the construction materials market and the future economics of the mine and industry. The language is important as it preserves the operator's ability to modify this plan, subject to approval by ASMI, to adapt their operations to changing environments or future market conditions.

CalPortland appreciates the opportunity to address ASMI's comments. If you have any questions or comments, please don't hesitate to contact me at 520.572.3514.

Sincerely,



Tori Tang
Environmental Manager

Attachment A – ASMI Technically Incomplete Letter Dated 27 February 2023
Attachment B – Revised Rio Rico Significant Reclamation Plan Amendment

ATTACHMENT A

ASMI Technically Incomplete Letter Dated 27 February 2023

Arizona State Mine Inspector



PAUL D. MARSH

1700 W. Washington Suite 403
Phoenix, Arizona 85007-2805
(602) 542-5971
Fax (602) 542-5335



February 27, 2023

CalPortland Company
Tori Tang
3755 North Business Center Drive, #3
Tucson, Arizona 85705

Re: Technically Incomplete Reclamation Plan for CalPortland – Rio Rico Plant

Dear Ms. Tang:

On September 19, 2022, the State Mine Inspector's Office received your Reclamation Plan Substantial Change Amendment for the Rio Rico Plant in Rio Rico, Arizona. The site is located approximately 1,000 feet west of US Interstate 19 and is bounded by local roads Camino Ramanote and Camino Toruno to the north and Camino Agua Fria to the south. The Santa Cruz County Parcel Numbers are 149-09-001, 115-04-385, 115-04-386, 115-03-046A, 115-03-046B, 115-03-049B, 115-03-049C, and 115-03-049E.

On November 17, 2022, this office received information from our consultant reviewing your plan indicating it was Technically Incomplete.

On January 3, 2022, the State Mine Inspector received your Technically Incomplete Response to Comments for CalPortland Rio Rico Plant Amendment. On February 23, 2023, this office received information from our consultant reviewing your plan indicating it was Technically Incomplete. In accordance with A.R.S. §§ 27-1272, 27-1273, this letter is to notify you the plans have been found *Technically Incomplete*.

The following items need to be addressed:

- **Post Aggregate Mine Use**

The plan amendment states the Post Mine Land Use is naturalized open space. However, the plan also states that septic tanks would remain in place. The septic tanks must be removed to be consistent with the stated PMLU.

- **Wildlife in Previously Undisturbed Areas**

Please cite the source indicating that there are no wildlife habitats that would be disturbed.

- **Section 2.3.1: Third Bullet Point**

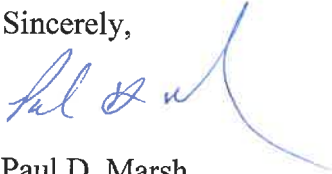
Define "small" or remove.

- **Section 2.9**

This section is not appropriate for the reclamation plan. Please remove.

Please supply the additional information within 90 days. If you have any questions concerning this determination, please contact Amanda Lothner at (602) 542-5971.

Sincerely,



Paul D. Marsh
Arizona State Mine Inspector



1700 W. Washington Suite 403
Phoenix, Arizona 85007-2805
(602) 542-5971
Fax (602) 542-5335



ATTACHMENT B

Revised Rio Rico Significant Reclamation Plan Amendment

**REPORT ON
RECLAMATION PLAN SIGNIFICANT AMENDMENT
RIO RICO PLANT
RIO RICO, ARIZONA**

by
Haley & Aldrich, Inc.
Phoenix, Arizona

for
CalPortland Company
Phoenix, Arizona



File No. 0205062
Resubmittal: April 2023
February 2023

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A	Reclamation Cost Estimate

1. Introduction

This Aggregate Mined Land Reclamation Plan Amendment (Plan) details the significant amendment to closure and reclamation of the CalPortland Company (CalPortland) Rio Rico Plant (Site), located in Rio Rico, Arizona. Reclamation planning has been conducted in accordance with the Arizona Aggregate Mined Lands Reclamation Act (Arizona Revised Statutes [A.R.S.] §27-1201) as authorized by A.R.S. §27-1204. This Plan has been developed pursuant to the format and content prescribed in the Arizona Aggregate Mined Lands Reclamation Rules (Arizona Administrative Code [A.A.C.] R11-3-101, et seq.). Figure 1 presents the facility location map of the Rio Rico operations.

The Project Boundary Area in the 2006 Arizona State Mine Inspector (ASMI)-approved Plan¹ for the Site consisted of approximately 300 acres across multiple parcels owned by CalPortland. The property is located approximately 1,000 feet west of US Interstate 19 (I-19) and is bounded to the north by local roads Camino Ramanote and Camino Toruno and to the south by Camino Agua Fria, respectively. This substantial change to the approved Plan has been prepared to update the original 2006 ASMI-approved Plan for the following reasons:

- CalPortland plans to expand the disturbance area for the mining activity to the southwest by approximately 49 additional acres, bringing the total area of disturbance to approximately 349 acres.
 - The original Santa Cruz County parcels include 149-09-001, 115-04-385, and 115-04-386.
 - The additional parcels include 115-03-046A, 115-03-046B, 115-03-049B, 115-03-049C, and 115-03-049E.
- The 2006 approved plan listed the Operator as CPC SouthWest Materials, Inc. This amendment will change the operator to California Portland Cement Company who was identified as the landowner in the 2006 approved plan.
- The 2006 approved plan allows for a maximum pit depth of 50 feet below ground surface (bgs). This amendment will deepen the pit to a maximum depth of 100 feet bgs.
- The 2006 approved plan requires the removal of one groundwater well, concrete septic tanks, and the hardline power infrastructure following mine closure. This amendment will remove those requirements and leave these items for the post-mining land use (PMLU) and potential resale of the property at the end of mine life and reclamation.

¹ Reclamation Plan Rio Rico Operation, 2006. – Brown and Caldwell,

2. Reclamation Plan Narrative

2.1 OWNERSHIP/OPERATOR INFORMATION

According to the records of the Santa Cruz County Tax Assessor, the Santa Cruz County parcels 149-09-001, 115-04-385, 115-04-386, 115-03-046A, 115-03-046B, 115-03-049B, 115-03-049C, and 115-03-049E are owned by California Portland Cement Company.

2.1.1 Owner/Operator Name and Address

Landowner/Operator:

California Portland Cement Company (CalPortland)
10655 West Park Run Drive
Suite 275
Las Vegas, Nevada 89144

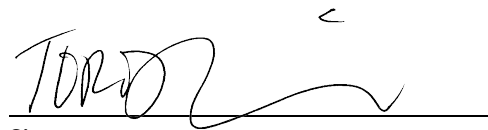
2.1.2 Contact Person Name and Address

Operator's contact person (for regulatory contact):

Tori Tang, Environmental Manager
CalPortland Company
3755 North Business Center Drive, #3
Tucson, Arizona 85705
(520) 572-5314 (phone)
ttang@calportland.com

2.1.3 Responsible Party

CalPortland hereby assumes responsibility for the reclamation of surface disturbances that are attributable to the aggregate mining unit consistent with A.R.S. §27-1201 and A.A.C. R11-3-501 pursuant to that chapter. All areas that have been disturbed at the Site will be reclaimed to a safe and stable condition upon cessation of aggregate mining operations.



Signature

April 3, 2023

Date

Tori Tang

Name

Environmental Manager

Title

2.2 CERTIFICATE OF DISCLOSURE

The certificate of disclosure required by A.R.S. 27-1205 will be prepared by CalPortland, if necessary, and will be submitted separately.

2.3 DESCRIPTION OF CURRENT OPERATIONS

The mining operation included the removal and processing of earthen materials to produce aggregate as described in A.R.S. § 27-441. The 2006 plan addressed mining and plant operations within the approximate 300-acre owned and leased areas. This amendment addresses the expanded operations to include an additional 49 acres to the southwest and adjacent to current operations. Since the plan was originally approved, CalPortland has mined or begun the process of mining each phase from the 2006 approved plan. There are no known fish or wildlife habitats within the Site boundary that would potentially be disturbed by Site operations or expansions related to this amendment.

The CalPortland Site is west of I-19 and can be accessed via the Frontage Road off I-19 to Camino Ramanote and Calle Toruno along the northern portion of property. The additional proposed 49 acres comprised of five parcels (115-03-046A, 115-03-046B, 115-03-049B, 115-03-049C, and 115-03-049E) are located southwest of the original mine area and is separated by Corrida De Toros. It is anticipated that only mobile mining equipment will be used in the expansion area; all material processing will be conducted in the established plant processing area on the east side of the property. No other infrastructure is currently planned for the expanded mining area. A portion of the Site and the expansion area lies within the 100-year floodplain of the Agua Fria Wash.

Figure 2 presents the existing Site conditions. The ground surface is generally flat, sloping primarily towards the Agua Fria Wash, with elevations ranging from 3,225 to 3,175 feet above mean sea level (amsl). All slopes within the pit areas are currently graded to 3 Horizontal to 1 Vertical (3H:1V).

Equipment, structures, and facilities on the Site are utilized for aggregate crushing and screening, concrete batch mixing, manufacturing of asphalt, and equipment maintenance. Details of the processing area are as follows:

- The processing area is located on the north side of the Agua Fria Wash and will remain within the existing footprint on the original parcels from the approved plan.
- Equipment and facilities for aggregate mining processing and concrete batch mixing include:
 - One ready-mix concrete plant;
 - One crushing and screening plant;
 - One maintenance shop area with a fuel station;
 - Truck wash area;
 - One wash plant;
 - A mobile dispatch office;
 - A scale and scale office;
 - A sales and administration office; and
 - A pre-cast concrete block manufacturing facility (tenant leased area and equipment).

- Utilities on the Rio Rico Site include:
 - Power provided by overhead power lines and transformers;
 - City water connection
 - One water well
 - Two septic systems; and
 - Contract solid waste

2.3.1 Surrounding Area Land Use

The mining operations are conducted primarily within the Agua Fria Wash. The planned post-aggregate mining uses of commercial is consistent with surrounding land uses. Surrounding land uses generally consist of the following:

- Natural desert and the Agua Fria Wash to the south;
- Residential areas to the north and northeast;
- Existing commercial areas to the east along the frontage road and Camino Ramanote; and
- Open desert area to the west of the Site

2.3.2 Current Permits, Licenses, and Approvals

In addition to the approved Reclamation Plan (as amended), operations will comply with applicable air, stormwater, flood control, and hazardous/regulated materials management regulations. The property currently has the following permits/plans:

- Arizona Department of Environmental Quality (ADEQ) General Crushing and Screening Plant Permit;
- ADEQ General Concrete Batch Plant Permit;
- Arizona Department of Water Resources (ADWR) Groundwater Withdrawal Permit;
- Santa Cruz County Flood Control District Floodplain Use Permit; and
- Arizona Pollutant Discharge Elimination System (AZPDES) Permit.

Although these permits/plans indirectly regulate operations at the Site, they do not have the authority to control or limit the depth or extent of mining.

2.3.3 Description of Future Disturbance

All future mining and reclamation activities on the Rio Rico property are planned to occur within the property boundaries as shown on Figure 3.

- Maximum final depth of mining will be approximately 100 feet bgs;
- Pit walls mined to a final reclamation slope of 3H:1V;
- Excavation will occur with a 50-foot setback from the property lines;
- Unpaved haul roads that lead to the primary crushing, screening, and stockpile areas; and
- Addition of a future hot-mix asphalt plant.

2.4 POST-AGGREGATE MINING RE-GRADING AND EROSION CONTROL

The following sections identify the items and the methods in which each item will be reclaimed in accordance with this amendment to the Plan.

2.4.1 Description of Final Topography

The final topography for all areas planned to be reclaimed will include pit wall slopes no steeper than 3H:1V. Topsoil will be used in concurrent reclamation or stored in berms around the perimeter of the Site. Processing plant material stockpiles will be depleted and removed by the end of the mining operations.

2.4.2 Erosion Control Plan

Stormwater drainage controls have been established as part of the Floodplain Use Permit (FUP) renewed in January 2022. Specific erosion controls include:

- Stormwater will be routed into the pit;
- Recycled concrete riprap, along with cobbles and/or boulders, will be placed in drainage channels to stabilize the soil and reduce the potential for erosion, if necessary;
- Pit walls and berms will be hydroseeded with a native grass mix; and
- Riprap will be used to line drainage points as required to minimize erosion.

2.5 POST-AGGREGATE MINING PLAN FOR STRUCTURES AND EQUIPMENT

2.5.1 Structures to be Removed

All equipment (mobile equipment, feeders, crushers, conveyor belts, screens, stackers, etc.) and structures (offices, shops, water recycle/settling ponds, fuel and oil tanks, scales, etc.) will be removed from the CalPortland property once mining operations have ceased. The existing water well, septic tanks, and power line infrastructure will be left in place for the PMLU (Figure 4). The associated costs of structure removal are included in an updated reclamation cost estimate (Appendix A).

2.5.2 Access Restriction/Public Safety

Final mining slopes will be graded to 3H:1V or flatter to provide an acceptable factor of safety against deep-seated failure. Signs will be posted along the crest and toe of all pit slopes warning the public of potential rock and soil fall hazards and to exercise caution.

2.6 POST-AGGREGATE MINING ROAD RECLAMATION

The Site contains approximately 11,000 feet of unpaved roads in the active mining area. Additional unpaved mining roads will be added as mining activities occur within the 49-acre expansion area. Roads used for access, security, and monitoring will remain un-reclaimed around the perimeter of the property. All plant and haul roads will be reclaimed by scarifying allowing natural vegetation to grow. Any compacted road will be ripped/scarified to match surface drainage patterns of the surrounding land.

2.6.1 Reclaimed Road Erosion Control Plan

The reclamation of compacted road surfaces will eliminate the concentrated and erosive flow patterns associated with typical road runoff. The uneven and loosened surfaces created by scarifying and ripping will facilitate infiltration and generate relatively non-erosive sheet flow under heavy precipitation events.

2.7 SOIL CONSERVATION AND REVEGETATION

2.7.1 Topsoil Conservation Plan

Previous excavation has removed a majority of the topsoil off Site during mining operations. Topsoil will be reclaimed and stockpiled from future disturbance areas.

2.7.2 Revegetation Plan

Active revegetation is planned for pit slope walls, approximately 161 acres in total. Grasses, shrubs, and forbs suitable for the Arizona Upland Sonoran Desert Scrub environment will be used in the planned revegetation. The approved plan details that planting will occur between 15 September and 30 November; however, it is recommended that planting dates remain flexible to encourage planting during months that best promote plant growth. The planting method will be by hydroseeding. Mulching, fertilizing, or supplemental irrigation will not be required to successfully revegetate the Site.

Care and maintenance of the reclamation effort will involve annual inspections of the Site to monitor slope movement, erosion, and vegetation growth. Two annual inspection reports will be published on the anniversary date of Site closure.

2.8 CONCEPTUAL SCHEDULE FOR DISTURBANCE AND RECLAMATION

The conceptual schedule includes:

- Disturbance operations are ongoing.
- Mining operations are anticipated to continue through approximately 2050.
- Reclamation activities will be concurrent with mining activities as conditions allow.
- If concurrent reclamation is not feasible, areas will be reclaimed after mining operations cease. Post-aggregate mining reclamation activities will begin within 12 months of the cessation of mining activities and is anticipated to be completed within 12 months.
- Reclamation will be deemed complete once the reclaimed surfaces are re-graded to a safe and stable condition, access restriction measures are in place, and the ASMI verifies that the owner or operator has fulfilled the requirements of the approved reclamation plan.

2.9 PROBABLE FUTURE CONDITIONS

The profitable operation of a mine is based on a variety of factors including the amount and quality of geologic resources available for extraction, site-specific hydrogeologic conditions, permitting constraints, economic factors affecting the cost of extraction and processing, and market conditions which influence the supply and demand for these materials or finished products containing these

materials. Changes to any of these factors can have significant impacts to mine profitability and can thus require operators to modify mining, processing, or operational methods or expand or temporarily cease operations.

Further, the means and methods described in this Plan to operate a mining facility and implement reclamation are based on the application of currently-available technologies and practices. These technologies and practices are constantly evolving, and the operations described in this Plan may be modified if the currently specified means and methods become outdated, obsolete, cost ineffective, or impracticable.

Consequently, factors affecting profitable operation or means and methods are likely to change due to unanticipated or unknown future conditions. Therefore, the operator of the facility described in this Plan reserves the right to adapt their operations or plans to these changing, unanticipated, or unknown future conditions to the extent that these operational changes do not cause substantial non-compliance with existing permits or authorizations.

Probable future development at the Site will potentially include a hot-mix asphalt plant.

2.10 ESTIMATED RECLAMATION COSTS

The unit costs developed for this Plan amendment are based primarily on the cost estimating database RS Means Facilities Construction Cost Data (2020) along with estimated productivity for material movement based primarily on the Caterpillar Handbook (Edition 31). Administrative costs were based on Arizona Rock Products Association and Haley & Aldrich, Inc. recommendations.

The estimated costs developed for this Reclamation Plan Significant Amendment include:

- Pit wall reclamation;
- Road reclamation;
- Structure demolition and removal;
- Care and maintenance;
- General construction;
- Plant removal; and
- Administrative costs.

A summary of the estimated reclamation costs is listed in Table I at the end of this section. The sources and calculation of the estimated reclamation costs are provided in Appendix A.

2.10.1 Pit Area Regrading and Scarifying

All slopes will be mined to a final reclamation slope of 3H:1V. No regrading or backfilling is proposed for the pit areas. The pit slopes will be revegetated using a hydro-seed mix.

The cost for revegetating the pit walls is estimated to be \$189,000.

2.10.2 Road Reclamation Cost

There are an estimated 11,000 feet of temporary unpaved roads that will be reclaimed by scarifying and ripping and allowed to naturally revegetate.

The cost of scarifying and regrading the roads is estimated to be \$3,000.

2.10.3 Structure Demolition Cost

The reclamation activities detailed in this category include:

- Removal of the truck wash equipment;
- Removal of the sales and administration office;
- Removal of the fuel station concrete slab;
- Removal of the maintenance shop and concrete slabs; and
- Removal of scale and scale house structure.

The existing water well, septic tanks, and power line infrastructure will be left in place for the PMLU. The total estimated cost for removal of the above-listed structures and equipment in this category is \$188,000.

2.10.4 Care and Maintenance Cost

Care and maintenance for the reclamation effort at this operation consist of:

- Two annual inspections of the Site;
- Preparation of the required annual report describing Site conditions; and
- Trash removal.

Two annual inspections are anticipated to be needed before the Site is released. The cost of care and maintenance of the Site is estimated to be \$22,000.

2.10.5 Construction Cost

Construction efforts for reclamation include:

- Installing Site access restriction signs around the perimeter of the Mining Area; and
- Installation of riprap lining in drainages, if needed.

The cost of construction is estimated to be \$41,000.

2.10.6 Plant Removal Cost

The estimated reclamation costs detailed in this section include the dismantling, loading onto transport, and removal of the following equipment:

- Crushing and screening equipment;
- One concrete batch mixing plant;

- One wash plant; and
- One hot-mix asphalt plant.

The cost of plant removal is estimated at \$242,000. There are no costs for the removal of any facilities or equipment owned by third parties who may be leasing space from CalPortland.

2.10.7 Cost Adjustment

A price index factor was included to adjust from 2020 pricing to estimated 2022 pricing on operating and material costs. The index factor supplied is the Consumer Price Index (CPI) for the period 2006 through 2022.

- CPI = 0.046

The cost adjustment is estimated at \$32,000.

2.10.8 Administrative Cost

The estimated administrative costs are required to support a third-party cost estimate in accordance with A.R.S. 27-1271.11 of the Aggregate Mined Land Reclamation Statute. These administrative costs include:

- Contingency;
- Mobilization/demobilization;
- Indirect costs;
- Contractor profit; and
- Contract administrative costs.

The total estimated administrative cost is \$259,000.

2.10.9 Total Reclamation Cost

The total estimated reclamation cost for this Plan is \$976,000.

Table I. Estimated Reclamation Cost Summary

Section	Reclamation Item	Cost
2.10.1	Pit Area Regrading and Scarifying	\$189,000
2.10.2	Roads Reclamation Cost	\$3,000
2.10.3	Structure Demolition Cost	\$188,000
2.10.4	Care and Maintenance Cost	\$22,000
2.10.5	Construction Cost	\$41,000
2.10.6	Plant Removal Cost	\$242,000
2.10.7	Cost Adjustment	\$32,000
2.10.8	Administrative Cost	\$259,000
	Total Reclamation Cost	\$976,000

3. Fees

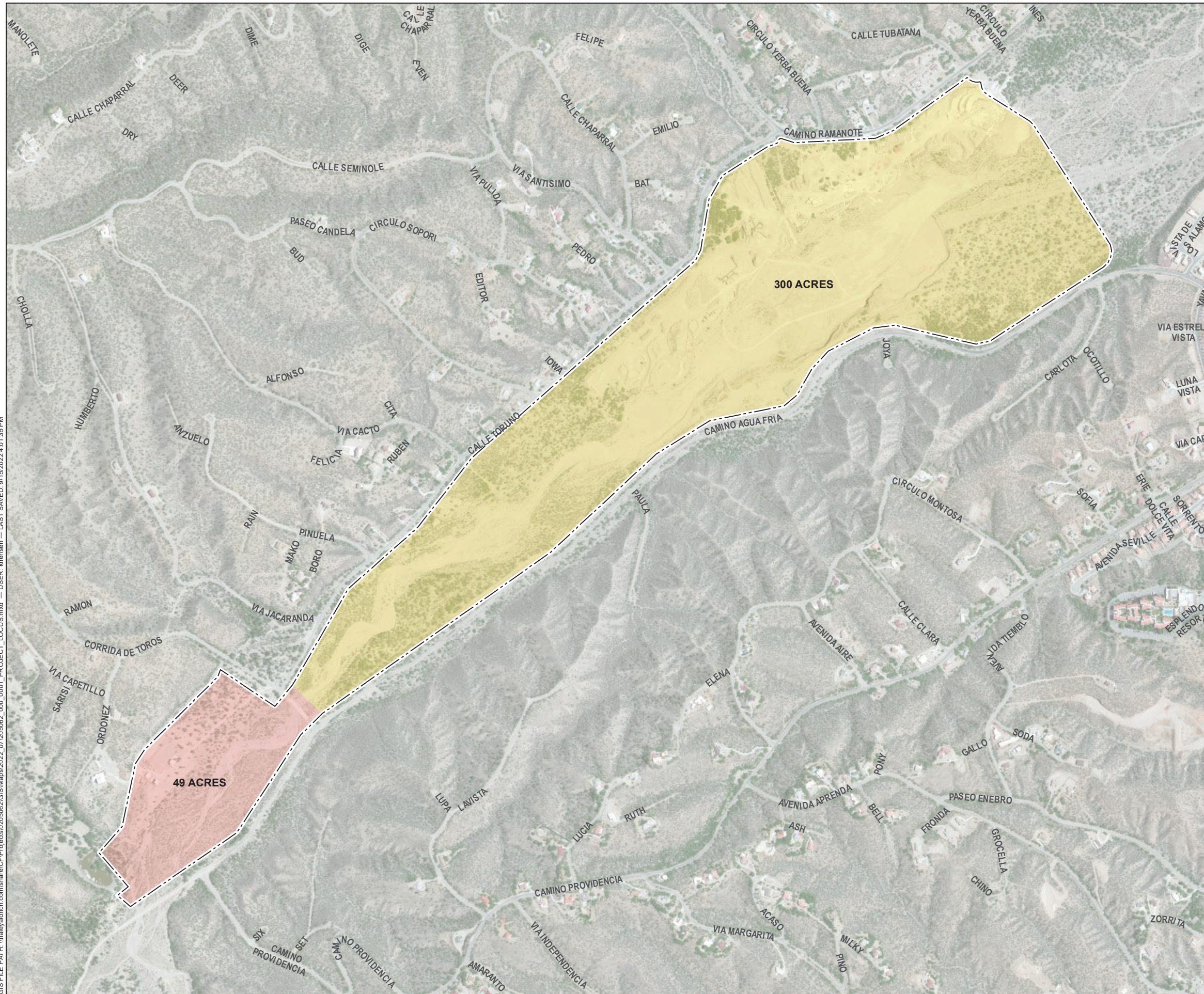
The fee to amend the Reclamation Plan is \$1,565.00 for an existing aggregate mining unit. A check covering this fee was submitted with this Plan.

4. Financial Assurance

Corporate self-insurance will be the Financial Assurance Mechanism used to cover the estimated reclamation costs. The corporate information required to satisfy the financial test requirements of A.A.C. R11-3-809.C will be submitted within 60 days under separate correspondence.

FIGURES

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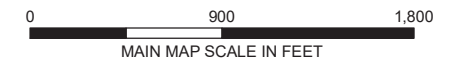


LEGEND

- APPROVED RECLAMATION PLAN AREA
- AMENDED ADDITIONAL RECLAMATION PLAN AREA
- SITE BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. APPROVED RECLAMATION PLAN PARCELS INCLUDE: 149-09-001, 115-04-385, AND 115-04-386.
3. ADDITIONAL RECLAMATION PLAN PARCELS INCLUDE: 115-03-046A, 115-03-046B, 115-03-049B, 115-03-049C, AND 115-03-049E.
4. AERIAL IMAGERY SOURCE: ESRI



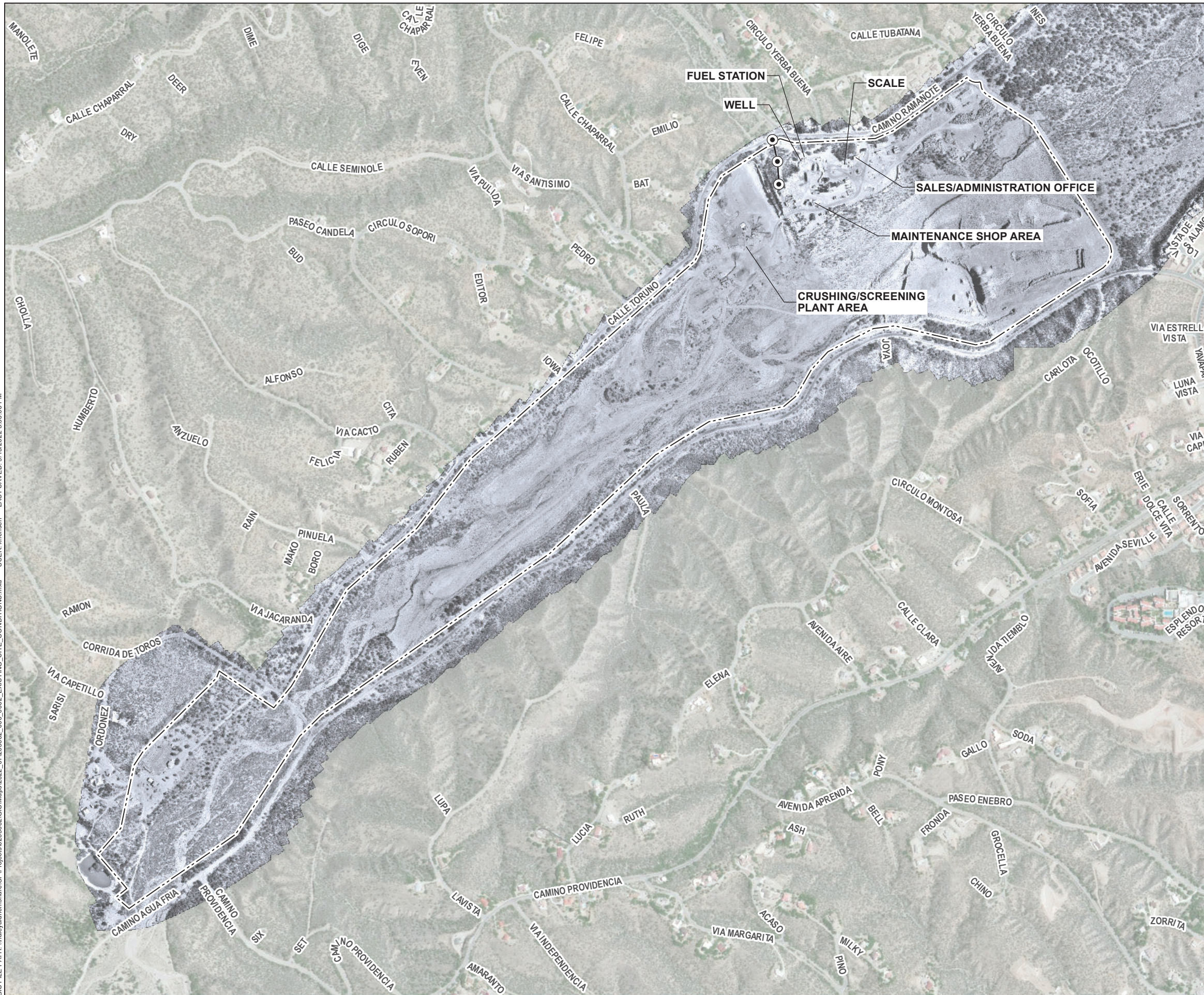
HALEY ALDRICH CALPORTLAND COMPANY
 RIO RICO OPERATIONS RECLAMATION PLAN AMENDMENT
 RIO RICO, ARIZONA

PROJECT LOCUS




APRIL 2023

FIGURE 1

GIS FILE PATH: \\haleyaldrich\share\CF\Projects\02050662\GIS\Mapa2022_07\2050662_000_0002_EXISTING_SITE_CONDITIONS.mxd — USER: khansen — LAST SAVED: 9/15/2022 3:35:06 PM



LEGEND

-  ELECTRIC TRANSMISSION POLE
-  ELECTRIC TRANSMISSION LINE
-  SITE BOUNDARY

NOTES

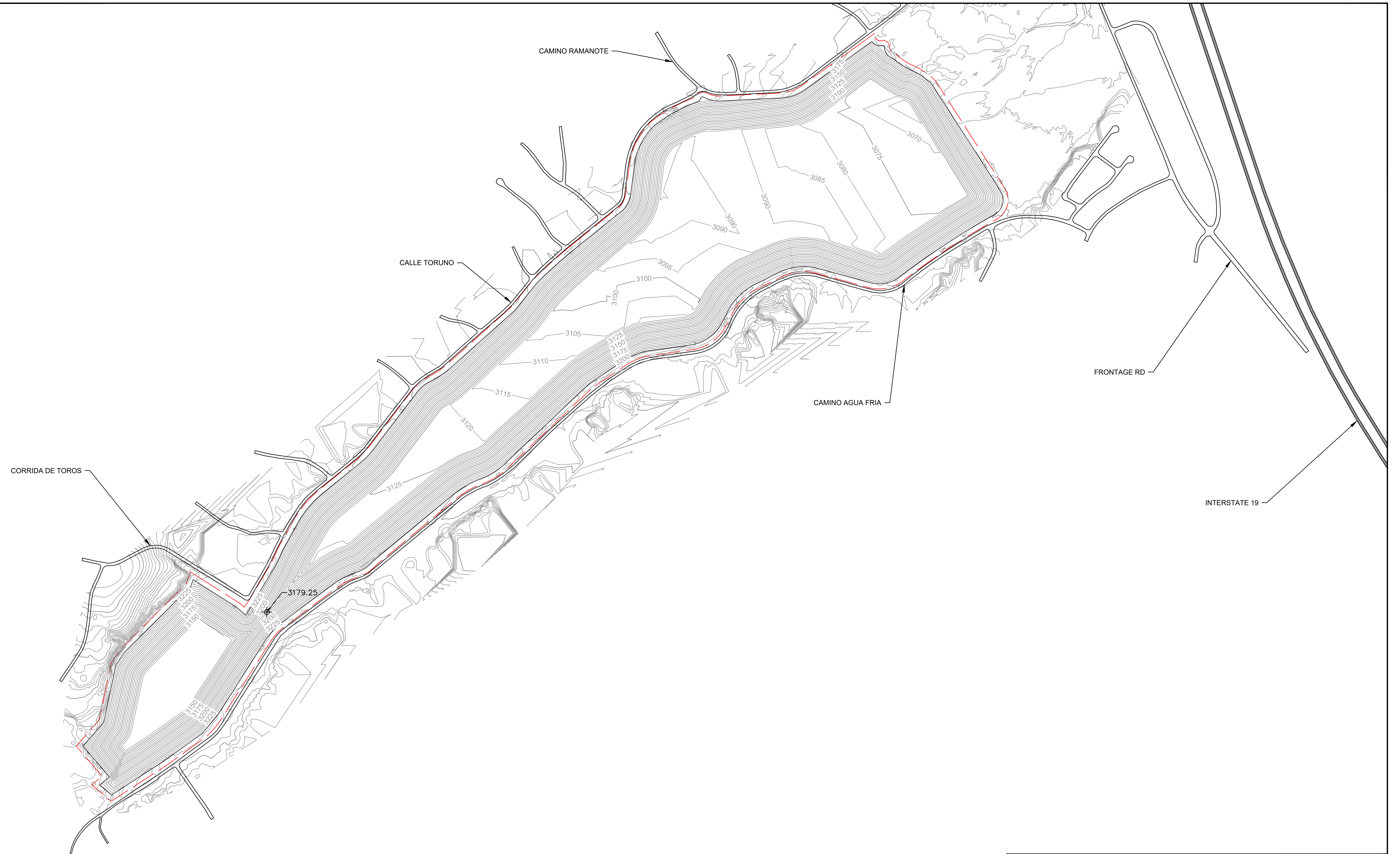
1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: DRONE FLIGHT BY HALEY & ALDRICH, 29 APRIL 2022, AND ESRI

HALEY ALDRICH CALPORTLAND COMPANY
 RIO RICO OPERATIONS RECLAMATION PLAN AMENDMENT
 RIO RICO, ARIZONA

EXISTING SITE CONDITIONS

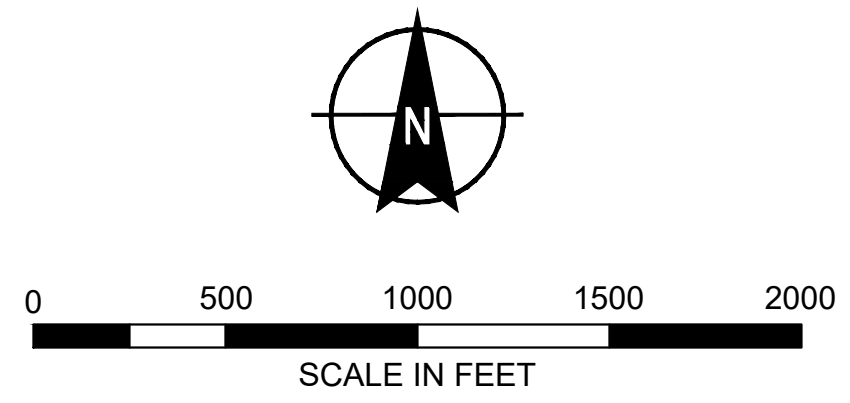
APRIL 2023

FIGURE 2



LEGEND
--- PROJECT BOUNDARY

- NOTES**
1. ALL LOCATIONS AND BORDERS ARE APPROXIMATE.
 2. COORDINATE SYSTEM IS NAD83 AZ EAST US FOOT UNLESS OTHERWISE SPECIFIED
 3. MINING EXTENTS ARE UP SET BACK 50 FEET FROM PROPERTY LIMITS. PIT DEPTH IS 100 FEET



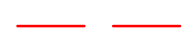

HALEY ALDRICH CALPORTLAND COMPANY
RIO RICO OPERATIONS RECLAMATION PLAN AMENDMENT
RIO RICO, ARIZONA

**POST AGGREGATE
EXCAVATION CONTOURS**

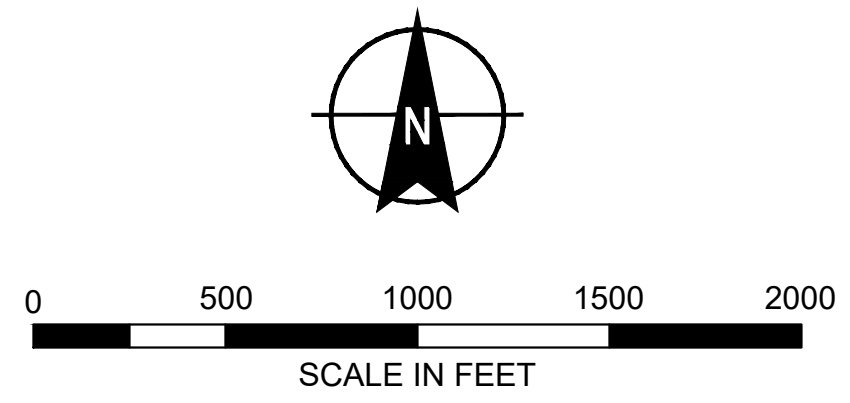
SCALE: AS SHOWN
APRIL 2023

FIGURE 3



LEGEND	
	PROJECT BOUNDARY
	NATURALIZED OPEN SPACE

- NOTES**
1. ALL LOCATIONS AND BORDERS ARE APPROXIMATE.
 2. COORDINATE SYSTEM IS NAD83 AZ EAST US FOOT UNLESS OTHERWISE SPECIFIED
 3. MINING EXTENTS ARE UP SET BACK 50 FEET FROM PROPERTY LIMITS. PIT DEPTH IS 100 FEET



HALEY ALDRICH	CALPORTLAND COMPANY RIO RICO OPERATIONS RECLAMATION PLAN AMENDMENT RIO RICO, ARIZONA
	POST MINING LAND USE
SCALE: AS SHOWN APRIL 2023	
FIGURE 4	

APPENDIX A
Reclamation Cost Estimate

Appendix A
Reclamation Cost Estimate
CalPortland Rio Rico Operations

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
7/28/2022	EJM	205062	RAB	7/27/2022		1 of 12
Project			Subject			
CalPortland - Rio Rico Operations			Estimated Cost Summary (1 of 2)			

Reclamation Item	Description and Units	Est. Cost	Number of Units	Cost	References/Notes	
Mining Area Regrade and Scarifying					Section 2.10.1 of Report	
	Surface Regrading and Scarifying (square foot)	\$ 0.01		\$ -		
(No Mulch or Fertilizer)	Revegetation Cost - Broadcast (Acre)	\$ 377		\$ -		
	Revegetation Cost - Hydroseed (Acre)	\$ 1,175	161	\$ 189,000		
	Containerized Trees (Each)	\$ 10		\$ -		
Mining Area Regrade and Scarifying Sub-Total = \$ 189,000						
Stockpiles, Overburden, or Fines Area						
	Surface Regrading and Scarifying (square foot)	\$ 0.01		\$ -		
	Revegetation Cost - Broadcast (Acre)	\$ 377		\$ -		
	Revegetation Cost - Hydroseed (Acre)	\$ 1,175		\$ -		
	Containerized Trees (Each)	\$ 10		\$ -		
Plant Area Regrade and Scarifying Sub-Total = \$ -						
Roads						
(Side Slope < 30%)	Rip/Scarify (Linear Ft.)	\$ 0.28	11,000	\$ 3,000	Section 2.10.2 of Report	
(Side Slope >30%)	Re-Grading and Topsoiling (Linear Ft.)	\$ 1.69		\$ -		
(No Mulch or Fertilizer)	Revegetation Cost - Broadcast (Acre)	\$ 377		\$ -		
	Revegetation Cost - Hydroseed (Acre)	\$ 1,175		\$ -		
Roads = \$ 3,000						
Structures						
(Break-up and bury Slab)	Demolition and Removal - Metal Building (Sq. Ft.)	\$ 3.81	4,700	\$ 18,000	Section 2.10.3 of Report	
(Break-up and bury Slab)	Demolition and Removal - Secondary Containment (Sq. Ft.)	\$ 8.52		\$ -		
(Break-up and bury Slab)	Demolition and Removal - Concrete Building (Sq. Ft.)	\$ 15.86		\$ -		
	Powerline Removal - Single Pole Utility (Linear Mile)	\$ 12,560		\$ -		
	Transformer Removal (Each)	\$ 6,280		\$ -		
	Demolition - Chain-Link Fencing (Linear Ft.)	\$ 4.36		\$ -		
	Demolition - Barb Wire Fencing (Linear Ft.)	\$ 1.94		\$ -		
	Septic Tank Removal (Each)	\$ 1,000		\$ -		
	Well Removal (Ft. Depth)	\$ 33.55		\$ -		
	Removal - 15" Culvert (Linear Ft.)	\$ 10.29		\$ -		
	Removal - 36" Culvert (Linear Ft.)	\$ 17.15		\$ -		
(Break-up and bury Slab)	Demolition - Concrete Roads and Pads (Sq. Ft.)	\$ 8.52	20,000	\$ 170,000		
Structures = \$ 188,000						
Care and Maintenance						
	Site Monitoring and Reporting (Annual)	\$ 10,000	2	\$ 20,000		Section 2.10.4 of Report
	Trash Removal (Ton)	\$ 75	25	\$ 2,000		
Care and Maintenance = \$ 22,000						
Construction						
	Construction - Chain-Link Fencing (Linear Ft.)	\$ 9.21		\$ -	Section 2.10.5 of Report	
	Install Rip Rap Erosion Lining (Sq. Yd)	\$ 77.00	500	\$ 39,000		
	Install Access Restriction Sign	\$ 83.40	25	\$ 2,000		
Construction = \$ 41,000						
Est. Reclamation Operating and Material (O&M) Cost Sub-Total = \$ 443,000						

Appendix A
Reclamation Cost Estimate
CalPortland Rio Rico Operations

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
7/28/2022	EJM	205062	RAB	7/27/2022		2 of 12
Project			Subject			
CalPortland - Rio Rico Operations			Estimated Cost Summary (2 of 2)			

Reclamation Item	Description and Units	Est. Cost	Number of Units	Cost	References/Notes
<p style="text-align: right;">Est. Reclamation Operating and Material (O&M) Cost Sub-Total (from page 1) = \$ 443,000</p>					
Material Haulage for Backfill					
	Truck and Loader - 2000Ft. One Way (Cu. Yd)	\$ 0.98		\$ -	
	Dozer and Scraper - 1000Ft. One Way (Cu Yd)	\$ 0.68		\$ -	
				Material Haulage = \$ -	
Plant Removal					
	(Processing Equip) Removal - Plants	\$ 242,000.00	1.0	\$ 242,000	Section 2.10.6 of Report
	(Beltline) Removal - Conveyor			\$ -	
				Plant Removal = \$ 242,000	
Est. Reclamation Operating and Material (O&M) Cost Sub-Total = \$ 685,000					
Cost Adjustment					
	Template based on 2020 costs	Consumer Price Index Increase	0.046	\$ 32,000	Section 2.10.7 of Report https://www.usinflationcalculator.com/inflation/current-inflation-rates/
				Cost Adjustment = \$ 32,000	
Est. Reclamation Operating and Material (O&M) Cost Total = \$ 717,000					
Administrative Costs					
	% of O&M Cost	Contingency	10%	\$ 72,000	Section 2.10.8 of Report ARPA Recommendations
	% of O&M Cost	General Mobilization/De-Mobilization	4%	\$ 29,000	ARPA Recommendations
	% of O&M Cost	Indirect costs	2%	\$ 14,000	ARPA Recommendations
	% of O&M Cost	Contractor Profit	10%	\$ 72,000	ARPA Recommendations
	% of O&M Cost	Contract Administration	10%	\$ 72,000	ARPA Recommendations
				Administrative Costs = \$ 259,000	
Total Estimated Financial Assurance Amount = \$ 976,000					

Appendix A
Reclamation Cost Estimate
CalPortland Rio Rico Operations

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
7/28/2022	EJM	205062	RAB	7/27/2022		3 of 12
Project			Subject			
CalPortland - Rio Rico Operations			Unit Cost Basis			

<p>The unit cost basis for the estimate is based on two key databases</p> <ul style="list-style-type: none"> • RS Means - Facilities Construction Cost Data -2017, and • Caterpillar Performance Handbook, Edition 31. <p>Equipment rental rates and operator labor rates are based on the RS-MEANS CREWS data, as referenced for each piece of equipment. The unit rates can be adjusted by the city cost index for specific locations, however, no adjustment was made since the Phoenix Area rates are close to the national average.</p>	References/Notes																																																																																																																																																						
<p>CREWS DATA</p> <p style="text-align: center;">Earthmoving Equipment, cost \$/hr</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">List</th> <th style="text-align: right;">Labor (1)*</th> <th style="text-align: right;">Equipment (2)*</th> <th style="text-align: right;">Total</th> <th></th> </tr> </thead> <tbody> <tr> <td>980G Loader</td> <td style="text-align: right;">\$54</td> <td style="text-align: right;">\$135</td> <td style="text-align: right;">\$189 \$/hr</td> <td>crew B-10U</td> </tr> <tr> <td>775D Haul Truck</td> <td style="text-align: right;">\$44</td> <td style="text-align: right;">\$369</td> <td style="text-align: right;">\$413 \$/hr</td> <td>crew B-34J</td> </tr> <tr> <td>Water Truck</td> <td style="text-align: right;">\$46</td> <td style="text-align: right;">\$60</td> <td style="text-align: right;">\$106 \$/hr</td> <td>crew B-59</td> </tr> <tr> <td>D10 Dozer</td> <td style="text-align: right;">\$54</td> <td style="text-align: right;">\$234</td> <td style="text-align: right;">\$288 \$/hr</td> <td>crew B-10M</td> </tr> <tr> <td>325 Excavator</td> <td style="text-align: right;">\$56</td> <td style="text-align: right;">\$300</td> <td style="text-align: right;">\$356 \$/hr</td> <td>crew B12-D</td> </tr> <tr> <td>16H Motor Grader</td> <td style="text-align: right;">\$54</td> <td style="text-align: right;">\$85</td> <td style="text-align: right;">\$139 \$/hr</td> <td>crew B-11L</td> </tr> <tr> <td>631E Scraper</td> <td style="text-align: right;">\$54</td> <td style="text-align: right;">\$304</td> <td style="text-align: right;">\$358 \$/hr</td> <td>crew B-33D</td> </tr> <tr> <td>80 ton Crane</td> <td style="text-align: right;">\$56</td> <td style="text-align: right;">\$281</td> <td style="text-align: right;">\$337 \$/hr</td> <td>crew A-3L</td> </tr> <tr> <td>120 ton Crane</td> <td style="text-align: right;">\$56</td> <td style="text-align: right;">\$305</td> <td style="text-align: right;">\$361 \$/hr</td> <td>crew A-3M</td> </tr> </tbody> </table> <p>LABOR DATA</p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Mechanical labor</td> <td style="text-align: right;">\$51</td> <td style="text-align: right;">\$0</td> <td style="text-align: right;">\$51 \$/hr</td> <td>crew A-1A</td> </tr> <tr> <td>Laborer</td> <td style="text-align: right;">\$39</td> <td style="text-align: right;">\$0</td> <td style="text-align: right;">\$39 \$/hr</td> <td>crew A-1</td> </tr> </tbody> </table> <p>MISC COST DATA</p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Demolition/Removal - Metal Building and Foundation</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">3.81</td> <td style="text-align: right;">\$/Sq. Ft.</td> <td>RACER (ver. 8.1.2)</td> </tr> <tr> <td>Demolition/Removal - Block Building and Foundation</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">7.61</td> <td style="text-align: right;">\$/Sq. Ft.</td> <td>RACER (ver. 8.1.2)</td> </tr> <tr> <td>Demolition/Removal - Concrete Pads/roads 12"</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">8.52</td> <td style="text-align: right;">\$/Sq. Ft.</td> <td>RACER (ver. 8.1.2)</td> </tr> <tr> <td>Demolition/Removal - Chain-Link Fencing</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">4.36</td> <td style="text-align: right;">\$/Sq. 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CalPortland Rio Rico Operations**

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
7/28/2022	EJM	205062	RAB	7/27/2022		4 of 12
Project			Subject			
CalPortland - Rio Rico Operations			Dozing Cost			

	References/Notes																																								
D10 Re-grading from 1.5H:1V slope to 3H:1V slope																																									
<u>D10 Dozing Productivity</u>																																									
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 55%;">Optimum Production (CY/Hr)</td> <td style="width: 10%; text-align: right;">950</td> <td></td> </tr> <tr> <td rowspan="4" style="vertical-align: top;">Push Factors</td> <td>Operator experience</td> <td style="text-align: right;">0.875</td> <td></td> </tr> <tr> <td>Type of material</td> <td style="text-align: right;">0.8</td> <td></td> </tr> <tr> <td>Grade of Push</td> <td style="text-align: right;">1.6</td> <td></td> </tr> <tr> <td>Weight Correction</td> <td style="text-align: right;">0.71</td> <td></td> </tr> <tr> <td rowspan="2" style="vertical-align: top;">Work Factor</td> <td>50 minutes/hour</td> <td style="text-align: right; border-top: 1px solid black;">0.83</td> <td></td> </tr> <tr> <td colspan="2">Average Production (CY/Hr)</td> <td style="text-align: right;">629</td> </tr> <tr> <td colspan="2">Average Daily Production (CY)</td> <td style="text-align: right;">5,036</td> <td></td> </tr> </table>		Optimum Production (CY/Hr)	950		Push Factors	Operator experience	0.875		Type of material	0.8		Grade of Push	1.6		Weight Correction	0.71		Work Factor	50 minutes/hour	0.83		Average Production (CY/Hr)		629	Average Daily Production (CY)		5,036		<p>(1) pg. 1-43 (200 Foot Push)</p> <p>(1) pg. 1-45</p> <p>(1) pg. 1-45</p> <p>(1) pg. 1-45</p> <p>(1) pg. 1-41 Material Weight = 1.62 T/CY</p> <p>(1) pg. 1-45</p> <p style="text-align: center;">(8-hour work day)</p>												
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<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;"></td> <td style="width: 10%;">Dozer Rental (Monthly)</td> <td style="width: 10%; text-align: right;">\$ 20,500</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td></td> <td>Ownership Cost (Daily)</td> <td></td> <td style="text-align: right;">\$ 932</td> <td></td> </tr> <tr> <td></td> <td>Dozer Operating Cost (Hourly)</td> <td style="text-align: right;">\$ 125</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Operating Cost(Daily)</td> <td></td> <td style="text-align: right;">\$ 1,000</td> <td></td> </tr> <tr> <td></td> <td>Dozer Labor Cost (Hourly)</td> <td style="text-align: right;">\$ 54</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Labor Cost (Daily)</td> <td></td> <td style="text-align: right; border-bottom: 3px double black;">\$ 432</td> <td></td> </tr> <tr> <td></td> <td>Dozer Total Cost (Daily)</td> <td></td> <td style="text-align: right;">\$ 2,364</td> <td></td> </tr> <tr> <td></td> <td>Cost per CY</td> <td></td> <td style="text-align: right;">\$ 0.47</td> <td></td> </tr> </table>		Dozer Rental (Monthly)	\$ 20,500				Ownership Cost (Daily)		\$ 932			Dozer Operating Cost (Hourly)	\$ 125				Operating Cost(Daily)		\$ 1,000			Dozer Labor Cost (Hourly)	\$ 54				Labor Cost (Daily)		\$ 432			Dozer Total Cost (Daily)		\$ 2,364			Cost per CY		\$ 0.47		<p>(2) Line # 015433204360 (22 working days/month)</p> <p>(2) Line # 015433204360 (8-hour work day)</p> <p>(2) crew B-10M (8-hour work day)</p>
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<p>(1) Caterpillar Performance Handbook, Edition 31</p> <p>(2) RS Means 2019</p>																																									

Appendix A
Reclamation Cost Estimate
CalPortland Rio Rico Operations

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
7/28/2022	EJM	205062	RAB	7/27/2022		5 of 12
Project			Subject			
CalPortland - Rio Rico Operations			Scarifying Cost			

	References/Notes
Scarifying - Motor Grader	
16H Grader Productivity	
Ripper beam (Ft.)	9.75
Max first gear with std tires (mph)	2.4
Feet per mile	5,280
Half Speed in Ft./Hr.	6,336
Double-pass factor	0.5
Effective speed in Ft./Hr.	3,168
Optimum area/hour (Sq. Ft./Hr.)	30,888
50 minute hour	0.83
Average area/hour (Ft. ² /Hr.)	25,637
Average area Daily (Sq. Ft.)	205,096
Work Factor	(1) pg. 3-15
	(8-hour work day)
Grader Cost (40,000 lb)	
Grader Rental (Monthly)	\$ 11,000
Ownership Cost (Daily)	\$ 500
Grader Operating Cost (Hourly)	\$ 64
Operating Cost(Daily)	\$ 512
Grader Labor Cost (Hourly)	\$ 54
Labor Cost (Daily)	\$ 432
Grader Total Cost (Daily)	\$ 1,444
Cost per Sq. Ft.	\$ 0.0070
Cost per Linear Ft. of Road	\$ 0.28
	(40-foot-wide road)
(1) Caterpillar Performance Handbook, Edition 31 (2) RS Means 2019	

**Appendix A
Reclamation Cost Estimate
CalPortland Rio Rico Operations**

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
7/28/2022	EJM	205062	RAB	7/27/2022		6 of 12
Project			Subject			
CalPortland - Rio Rico Operations			Excavator Costing			

	References/Notes
325 Excavator Productivity	
Factors	
Heaped bucket capacity (Cu. Yd.)	1.5
Optimum Cycles/Hr.	180
Bucket Fill factor	1.0
50 minutes/Hr.	0.83
Average Hourly Production (Cu. Yd.)	224
Average Daily Production (Cu. Yd.)	1,793
	(1) pg. 5-117 Bucket size selected for the (1) pg. 5-1555 325 Excavator = 1.5 CY (1) pg. 5-126 Material Weight = 1.62T/CY (8-hour work day)
325 Excavator Cost	
Excavator Rental (Monthly)	\$ 6,725
Ownership Cost (Daily)	\$ 306
Excavator Operating Cost (Hourly)	\$ 29
Operating Cost (Daily)	\$ 232
Excavator Labor Cost (Hourly)	\$ 35
Labor Cost (Daily)	\$ 280
Excavator Total Cost (Daily)	\$ 818
Cost per Cu. Yd.	\$ 0.46
	(2) 01590 200 0200 pg. 20 (22 working days/month) (2) 01590 200 0200 pg. 20 (8-hour work day) (2) crew B12-D, pg. 1099 (8-hour work day)
(1) Caterpillar Performance Handbook, Edition 31 (2) RS Means 2019	

Appendix A
Reclamation Cost Estimate
CalPortland Rio Rico Operations

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
7/28/2022	EJM	205062	RAB	7/27/2022		7 of 12
Project			Subject			
CalPortland - Rio Rico Operations			Scraper Costing			

	References/Notes
631E Scraper	
Scraper capacity (heaped)	31 Cu. Yd.
Rated load	37.5 ton
	Yd. (1) pg. 9-5
Scraper Productivity	
Bank Cu. Yd./Hr, 4% RR, 1000 ft haul	540
Material correction	0.93
50 minute hour	0.83
Actual bank Cu. Yd. per hour	415
	(1) pg. 9-67 Material Weight = 1.62 T/Cu. Yd.
631 Scraper Cost	
Scraper Rental (Monthly)	\$ 14,900
Ownership Cost (Daily)	\$ 677
	(2) 01590 200 3700 pg. 21 (22 working days/month)
Scraper Operating Cost (Hourly)	\$ 75
Operating Cost(Daily)	\$ 600
	(2) 01590 200 3700 pg. 21 (8-hour work day)
Scraper Labor Cost (Hourly)	\$ 34
Labor Cost (Daily)	\$ 272
	(2) crew B-33D, pg. 1099 (8-hour work day)
Scraper Total Cost (Daily)	<u>\$ 1,549</u>
D9 Dozer Cost	
D9 Rental (Monthly)	\$ 14,300
Ownership Cost (Daily)	\$ 650
	(2) 01590-200 4370, pg. 21 (22 working days/month)
D9 Operating Cost (Hourly)	\$ 65
Operating Cost(Daily)	\$ 520
	(2) 01590-200 4370, pg. 21 (8-hour work day)
D9 Labor Cost (Hourly)	\$ 34
Labor Cost (Daily)	\$ 272
	(2) crew B-10M, pg. 1099 (8-hour work day)
D9 Total Cost (Daily)	<u>\$ 1,442</u>
Total Fleet	
Total Fleet Cost (Daily)	\$ 4,541
Total Fleet Productivity (BCY/Hr)	830
Total Fleet Productivity (BCY/Day)	6,640
Cost per Cu. Yd. Moved	\$ 0.68
	(1 - D9, 2 - 631)
Cubic yards in 1 linear foot of 40 ft wide road, 1 foot thick (Cu. Yd.)	1.48
Cost of placing 1 linear foot (40 foot wide road)	\$ 1.01

(1) Caterpillar Performance Handbook, Edition 31
(2) RS Means 2019

Appendix A
Reclamation Cost Estimate
CalPortland Rio Rico Operations

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
7/28/2022	EJM	205062	RAB	7/27/2022		8 of 12
Project			Subject			
CalPortland - Rio Rico Operations			Truck haul (1 of 2)			

	References/Notes																																													
980G Loader Productivity																																														
Cycle Time Factors	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Basic Cycle Time (minutes)</td> <td style="width: 15%; text-align: right;">0.55</td> <td style="width: 45%;"></td> </tr> <tr> <td>Material type (minutes)</td> <td style="text-align: right;">0.02</td> <td>(1) pg. 13-46</td> </tr> <tr> <td>Type of Pile (minutes)</td> <td style="text-align: right;">0.02</td> <td>(1) pg. 13-46</td> </tr> <tr> <td>Common ownership trucks/loaders</td> <td style="text-align: right;">0</td> <td>(1) pg. 13-46</td> </tr> <tr> <td>Constant operation</td> <td style="text-align: right;">0</td> <td>(1) pg. 13-46</td> </tr> <tr> <td>Small target (minutes)</td> <td style="text-align: right;">0.025</td> <td>(1) pg. 13-46</td> </tr> <tr> <td>Fragile target</td> <td style="text-align: right;">0</td> <td>(1) pg. 13-46</td> </tr> <tr> <td>Total Cycle Time (minutes)</td> <td style="text-align: right;">0.615</td> <td></td> </tr> <tr> <td>Optimum Cycles/Hr.</td> <td style="text-align: right;">98</td> <td></td> </tr> <tr> <td>50 minutes/Hr.</td> <td style="text-align: right;">0.83</td> <td>(1) pg. 13-47</td> </tr> <tr> <td>Average Cycles/Hr.</td> <td style="text-align: right;">81</td> <td></td> </tr> <tr> <td>Bucket Full Load (Cubic Yards)</td> <td style="text-align: right;">7.5</td> <td>(1) pg. 13-29</td> </tr> <tr> <td>Bucket Fill Factor</td> <td style="text-align: right;">0.9</td> <td>(1) pg. 13-46</td> </tr> <tr> <td>Average Bucket Load (Cubic Yards)</td> <td style="text-align: right;">6.75</td> <td></td> </tr> <tr> <td>Average Volume Loaded/Hr</td> <td style="text-align: right;">547</td> <td></td> </tr> </table>	Basic Cycle Time (minutes)	0.55		Material type (minutes)	0.02	(1) pg. 13-46	Type of Pile (minutes)	0.02	(1) pg. 13-46	Common ownership trucks/loaders	0	(1) pg. 13-46	Constant operation	0	(1) pg. 13-46	Small target (minutes)	0.025	(1) pg. 13-46	Fragile target	0	(1) pg. 13-46	Total Cycle Time (minutes)	0.615		Optimum Cycles/Hr.	98		50 minutes/Hr.	0.83	(1) pg. 13-47	Average Cycles/Hr.	81		Bucket Full Load (Cubic Yards)	7.5	(1) pg. 13-29	Bucket Fill Factor	0.9	(1) pg. 13-46	Average Bucket Load (Cubic Yards)	6.75		Average Volume Loaded/Hr	547	
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**Appendix A
Reclamation Cost Estimate
CalPortland Rio Rico Operations**

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
7/28/2022	EJM	205062	RAB	7/27/2022		9 of 12
Project			Subject			
CalPortland - Rio Rico Operations			Truck Haulage (2 of 2)			

			References/Notes
775D Truck Cost			
Truck Rental (Monthly)	\$	12,800	(1) 01590 200 5620 p22
Ownership Cost (Daily)		\$ 582	(22 working days/month)
Truck Operating Cost (Hourly)	\$	57	(1) 01590 200 5620 p22
Operating Cost(Daily)		\$ 456	(8-hour work day)
Truck Labor Cost (Hourly)	\$	26	(1) crew B-34A, pg. 1104
Labor Cost (Daily)		<u>\$ 208</u>	(8-hour work day)
Truck Total Cost (Daily)		\$ 1,246	
Trucks (2T total Cost (Daily)		\$ 2,492	
Loader Total Cost (Daily)		<u>\$ 1,259</u>	
Fleet Total Total Cost (Daily)		\$ 3,750	
Total Fleet Productivity (Cu. Yd. per Day)		3,821	(8-hour work day)
Fleet Cost per Cu. Yd.	\$	0.98	
(1) Caterpillar Performance Handbook, Edition 31			
(2) RS Means 2019			

Appendix A
Reclamation Cost Estimate
CalPortland Rio Rico Operations

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
7/28/2022	EJM	205062	RAB	7/27/2022		10 of 12
Project			Subject			
CalPortland - Rio Rico Operations			Crane Costing			

	References/Notes
Rubber Tired Hydraulic Crane - 80 -on Capacity	
80-Ton Crane Cost	
Crane Rental (Monthly)	\$ 8,825
Ownership Cost (Daily)	\$ 401
Crane Operating Cost (Hourly)	\$ 54
Operating Cost(Daily)	\$ 432
Crane Labor Cost (Hourly)	\$ 35
Labor Cost (Daily)	<u>\$ 280</u>
Crane Total Cost (Daily)	\$ 1,113
Crane Total Cost (Hourly)	\$ 139
Rubber Tired Hydraulic Crane - 120-Ton Capacity	
120-Ton Crane Cost	
Crane Rental (Monthly)	\$ 25,400
Ownership Cost (Daily)	\$ 1,155
Crane Operating Cost (Hourly)	\$ 83
Operating Cost(Daily)	\$ 664
Crane Labor Cost (Hourly)	\$ 35
Labor Cost (Daily)	<u>\$ 280</u>
Crane Total Cost (Daily)	\$ 2,099
Crane Total Cost (Hourly)	\$ 262
(1) Caterpillar Performance Handbook, Edition 31 (2) RS Means 2019	

**Appendix A
Reclamation Cost Estimate
CalPortland Rio Rico Operations**

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
7/28/2022	EJM	205062	RAB	7/27/2022		11 of 12
Project			Subject			
CalPortland - Rio Rico Operations			Rip Rap Erosion Control			

Material Cost, Hauling, and Placing Erosion Control Structures - Rip Rap			References/Notes
<u>Description</u>	<u>Units</u>	<u>Total Cost</u>	
18" Minimum thickness, not grouted			
Material (sq. yd.)	1	\$ 19	(2) Line # 313713100200
Labor (per unit)	1	\$ 46	(2) Line # 313713100200
Equipment (per unit)	1	\$ 13	(2) Line # 313713100200
Estimated Cost per Square Yard for Rip Rap Material and Install =		\$ 77.00	
<p>(1) Caterpillar Performance Handbook, Edition 31 (2) RS Means 2019</p>			

Appendix A
Reclamation Cost Estimate
CalPortland Rio Rico Operations

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
7/28/2022	EJM	205062	RAB	7/27/2022		12 of 12
Project			Subject			
CalPortland - Rio Rico Operations			Plant Removal			

Removal of Crushing/Screening plants or Wash Plants	References/Notes																											
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Description</th> <th style="text-align: right; border-bottom: 1px solid black;">Units</th> <th style="text-align: right; border-bottom: 1px solid black;">Total Cost</th> </tr> </thead> <tbody> <tr> <td>80 Ton Crane (Hr)</td> <td style="text-align: right;">250</td> <td style="text-align: right;">\$ 55,000</td> </tr> <tr> <td>120 Ton Crane (Hr)</td> <td style="text-align: right;">100</td> <td style="text-align: right;">\$ 26,000</td> </tr> <tr> <td>Mechanical Labor (Hr)</td> <td style="text-align: right;">1,500</td> <td style="text-align: right;">\$ 77,000</td> </tr> <tr> <td>Loading/Unloading Labor (Hr)</td> <td style="text-align: right;">400</td> <td style="text-align: right;">\$ 16,000</td> </tr> <tr> <td>Light Transportation (Trips)</td> <td style="text-align: right;">30</td> <td style="text-align: right;">\$ 32,000</td> </tr> <tr> <td>Heavy Transportation (Trips)</td> <td style="text-align: right;">23</td> <td style="text-align: right;">\$ 36,000</td> </tr> <tr> <td> </td> <td></td> <td></td> </tr> <tr> <td>Estimated Total Cost for Plant Removal =</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">242,000</td> </tr> </tbody> </table>	Description	Units	Total Cost	80 Ton Crane (Hr)	250	\$ 55,000	120 Ton Crane (Hr)	100	\$ 26,000	Mechanical Labor (Hr)	1,500	\$ 77,000	Loading/Unloading Labor (Hr)	400	\$ 16,000	Light Transportation (Trips)	30	\$ 32,000	Heavy Transportation (Trips)	23	\$ 36,000	 			Estimated Total Cost for Plant Removal =	\$	242,000	
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