

HALEY & ALDRICH, INC. One Arizona Center 400 E. Van Buren St., Suite 545 Phoenix, AZ 85004 602.760.2450

03 April 2023 File No. 0206534

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

- Attention: Mr. Paul Marsh State Mine Inspector
- Subject: Technical Incomplete Response to Comments for Flintstone Industries, Inc. Flintstone Quarry Property Reclamation Plan

Dear Mr. Marsh:

Flintstone Industries, Inc. (Flintstone) and Haley & Aldrich, Inc. (Haley & Aldrich) have reviewed the Arizona State Mine Inspector (ASMI) correspondence dated 7 February 2023 regarding the technically incomplete Reclamation Plan for the Flintstone Quarry Property in Dewey, Yavapai County, Arizona (Attachment A). The following presents Flintstone's response to ASMI's request for missing information.

GENERAL COMMENTS

Comment 1: Potential Disturbance of Wildlife Habitats

Section 2.5.1 states, "There are no known sensitive species habitats within the Site boundary that would potentially be disturbed by Site operations." Also, the provided maps do not identify any types of fish and wildlife habitats that will be impacted in the previously disturbed areas. Please revise section 2.5.1 to discuss and provide a map identifying any types of fish and wildlife habitats that will be disturbed. [§27-1271 (B.8), §27-1271 (B.9), R11-3-701, and R11-3-702]

Response to Comment 1:

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

Comment 2: Proposed Post-Agaregate Mining Land Use

Arizona State Mine Inspector 03 April 2023 Page 2

The stated post-aggregate mining land use (PMLU) is "naturalized open space," however, Section 2.1.5, 2.3, and 2.5.1 support a PMLU of residential land use. Please revise for consistency.

Response to Comment 2:

We agree with this comment that those sections support the residential land use as the PMLU. Sections 2.3, and 2.4.3 of the Plan have been updated to residential use as the PMLU for the area. Attachment B presents the revised Reclamation Plan.

Flintstone and Haley & Aldrich appreciates the opportunity to address ASMI's comments. If you have any additional questions or comments, please don't hesitate to contact Rich Brown at 602-760-2458.

Sincerely yours, HALEY & ALDRICH, INC.

Rich Brown, R.G. Client Specialist | Geologist

Bill Hyslip

Flintstone Industries, Inc.

Enclosures:

Attachment A - Technically Incomplete Letter dated 7 February 2023 Attachment B - Revised Reclamation Plan for the Flintstone Quarry Property dated April 2023

Eric Mears, R. G. Principal Consultant



ATTACHMENT A Technically Incomplete Letter dated 7 February 2023



February 7, 2023

Bill Hyslip Flintstone Industries, Inc. P.O. Box 73 Prescott, AZ 86314

Re: Technically Incomplete Reclamation Plan for Flintstone Industries, Inc. Flintstone Quarry Property

(602) 542-5971 Fax (602) 542-5335

Dear Mr. Hyslip:

On December 8, 2022, the State Mine Inspector's Office received your Reclamation Plan for the Flintstone Quarry Property. The site is within the Section 5, Township 13 North, Range 2 East, Gila and Salt River Meridian, in Yavapai County, Dewey, Arizona. The Yavapai County Parcel Number is 402-13-011Y.

On February 7, 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*.

Please address the following:

• Potential Disturbance of Wildlife Habitats

Section 2.1.5 states, "There are no known sensitive species habitats within the Site boundary that would potentially be disturbed by Site operations." Also, the provided maps do not identify any types of fish and wildlife habitats that will be impacted in the previously undisturbed areas. *Please revise section 2.1.5 to discuss and provide a map identifying any types of fish and wildlife habitats that will be disturbed.* [§27-1271 (B.8), §27-1271 (B.9), R11-3-701, and R11-3-702].

Proposed Post-Aggregate Mining Land Use

The stated post-aggregate mining land use (PMLU) is "naturalized open space," however, Section 2.1.5, 2.3, and 2.5.1 support a PMLU of residential land use. *Please revise for consistency*.

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,

Pul & n

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 Reclamation Plan for the Flintstone Quarry Property dated April 2023

www.haleyaldrich.com

ALDRICH

RECLAMATION PLAN FOR THE FLINTSTONE QUARRY PROPERTY 17909 EAST STATE ROUTE 169 DEWEY, ARIZONA

by Haley & Aldrich, Inc. Phoenix, Arizona



for Flintstone Industries Dewey, Arizona

File No. 206534-000 November 2022 Revised April 2023



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1. Introduction

This Reclamation Plan (Plan) was written for the Flintstone Quarry Property (Site), owned and operated by Flintstone Industries, Inc. (Flintstone) located in Yavapai County, Arizona. State law requires a reclamation plan for all aggregate mining operations that are located on private land, create disturbance areas larger than 5 acres, and have continued operations after 1 April 1997 (Aggregate Mined Land Reclamation Act, Arizona Revised Statute [A.R.S.] 27-1202 et. seq.). Plans for existing operations were required to be submitted to the Arizona State Mine Inspector (ASMI) before 1 January 2007. After 1 January 2007, all new aggregate mining operations located on private land must have an approved reclamation plan before exceeding a cumulative disturbance area of 5 acres.

The property operated by Flintstone consists of one parcel (402-13-011Y) located in Section 5, Township 13 North, Range 2 East of the Gila and Salt River Base and Meridian, Yavapai County, Arizona and encompasses approximately 60 acres near the intersection of East State Route 169 and South Mojo Trail in Dewey, Arizona.

This Plan was written to describe and summarize the overall reclamation approach to reclaim the Site during production using concurrent reclamation techniques, followed by final closure and reclamation at the cessation of mine life, in accordance with Arizona statutes and regulations.



2. **Reclamation Plan Narrative**

2.1 **OWNERSHIP/OPERATOR INFORMATION**

According to the records of the Yavapai County Assessor's Office, the Site is owned by the William H. and Nita S. Hyslip Revocable Trust and operated by Flintstone. Flintstone plans on conducting aggregate mining and processing on Yavapai County Assessor Parcel Number 402-13-011Y as shown on Figure 1. Owner and operator information are provided below.

Owner/Operator Name and Address 2.1.1

- William G. and Jody A. Hyslip Owner: P.O. Box 73 Humboldt, Arizona 86329
- Operator: Flintstone Industries, Inc. 7563 East Highway 69, Suite B Prescott, Arizona 86314

Contact Person Name and Address 2.1.2

Operator's contact person (for regulatory contact):

Bill Hyslip Flintstone Industries, Inc. P.O. Box 73 Humboldt, Arizona 86329 Phone: (928) 710-7768

2.1.3 **Responsible Party**

Flintstone is the responsible party for the reclamation described in this Plan. Flintstone assumes responsibility for the reclamation of surface disturbances that are attributable to the aggregate mining unit consistent with A.R.S. Article 27, Chapter 6 and the rules adopted pursuant to this chapter.

Signature

William (Bill) Hysli

4-7-23 Date

GUNER OPERATOR



2.1.4 Certificate of Disclosure

The certificate of disclosure required by A.R.S. 27-1205 was prepared by Flintstone and will be submitted separately.

2.1.5 Description of Current Operation

The property operated by Flintstone is located in Section 5, Township 13 North, Range 2 East of the Gila and Salt River Base and Meridian, Yavapai County, Arizona and encompasses approximately 60 acres across one parcel (Figure 1) with a current disturbance area of approximately 20 acres. The Site is bounded to the north by State Route 169, followed by residential properties, and undeveloped land to the west, east, and south. The Osborne Spring Wash cuts north to south through the western half of the Site.

According to the property owner, there are no known sensitive species habitats within the Site boundary that would potentially be disturbed by Site operations. Features of the property include the following:

- An open pit that is excavated using conventional front-end loading and track excavating equipment;
- One material screening plant;
- One maintenance shop;
- One mixed use mobile office/residential building;
- One residential mobile home;
- One abandoned airplane hangar; and
- Several rock stockpiles in the southern portion of the Site.

A septic system is also located near the office and residential buildings and two domestic drinking water wells are registered on-Site. According to Arizona Department of Water Resources (ADWR) online records, one well is capped and the other is in use. Current access to the parcel is provided by a gravel driveway entering from State Route 169 north of the Site.

Excavated materials are screened in the screening plant and finished products are sold to customers for use in landscaping projects off-property. Material is not crushed or washed on-Site and there are no ready mix or asphalt blending operations on the Site. However, temporary crushers may be brought on-Site and used on a short-term, as needed, basis.

Figure 2 shows existing Site conditions including the adjacent undeveloped land that surrounds the Site to the east, west, and south, and the residential properties north of State Route 169 to the north of the Site. The mining plan is designed to excavate concurrent reclamation slopes as the pit is advanced to the final depth and dimensions. The proposed mining and reclaim slopes are 3 horizontal to 1 vertical (3H:1V) to a maximum depth of 100 feet with 50-foot setbacks from the property line. Five acres in the northwest portion of the property will remain at the natural elevation for use as a future processing area.



Final reclamation will include construction of a berm to surround the ultimate pit boundary. The abandoned airplane hangar, truck scale, and maintenance shop may be removed from Site to accommodate future mining activities. The septic system, mobile homes, power line infrastructure, and water wells will remain on-Site for future use and will not be abandoned or removed.

Equipment, structures, and facilities at the Site are used for aggregate screening and washing. Two residential mobile homes are also located at the Site and are occupied by the plant operator and part-time employees.

Details of the processing area include:

- Portable crushing (as needed) and screening plant equipment;
- Mobile office/residential buildings;
- Equipment maintenance shop; and
- Truck scale.

Utilities on the Site include:

- Water provided by an on-Site well;
- Power supplied by Arizona Public Service (APS) via hardlines to the property;
- Minimal wastewater needs serviced by an on-Site septic system; and
- Solid waste disposal provided by Wingfield Service, a licensed solid waste contractor.

Processing and stockpiling of aggregates will be contained within the mining and plant processing areas. Portable (mobile) mining and process equipment will be utilized during active aggregate mining activities.

2.1.6 Current Permits, Licenses, and Approvals

Operations will comply with applicable air, storm water, and hazardous/regulated materials management regulations. The property currently has/will obtain the following permits/plans:

• Yavapai County Mining/Metallurgical Use Exemption Permit No. P32004001675

Mining may occur within the area of the Osborne Spring Wash that intersects the property on the western side of the parcel. If it is determined that avoidance of the wash is necessary, Flintstone will modify the pit design accordingly and submit an amendment to the Plan.

2.2 DESCRIPTION OF FUTURE DISTURBANCE

All future aggregate mining, processing and stockpiling, and reclamation activities on the Site are planned to occur in the excavation mining area and plant processing area as shown on Figure 3.

- Total disturbances are estimated at approximately 48 acres; approximately 43 acres for the mining area and approximately 5 acres for the plant and processing area.
- Pit walls concurrently mined to a reclamation slope of 3H:1V.



- The Site will maintain unpaved haul roads that lead from the active mining pits to the screening and stockpile areas.
- Phased excavation and concurrent reclamation of one contiguous excavation area over approximately 43 acres.

The setbacks to the excavation edge will be as follows:

- The setback from the property line will be 50 feet from the outside toe of the berm.
- The pit crest will be located 10 feet inside the toe of the berm and will be maintained at a 3H:1V slope.
- The maximum final depth of mining will be approximately 100 feet below land surface.
- Site mining operations are not anticipated to exceed 40 years.

2.3 RECLAMATION MEASURES TO ACHIEVE POST-MINING LAND USE

The entire mining area and plant and processing area encompasses approximately 48 acres. The post-aggregate mining land use at the Site has been designated as residential space (Figure 4). All mining excavations will be graded at the final reclamation slope angle of 3H:1V, thereby creating a concurrent reclaimed slope throughout the mine life.

All portable mining and maintenance equipment will be demobilized upon cessation of mining and completion of reclamation activities. Compacted surfaces and unpaved roads will be left in place after the cessation of mining activities for use in recreational activities. Existing property fencing and mobile residential buildings will remain in place post reclamation.

2.4 POST-AGGREGATE MINING REGRADING AND EROSION CONTROL

2.4.1 Description of Final Topography

The mining excavation area will be mined to final reclamation slopes of 3H:1V. The berms around the pit perimeter will remain in place post-reclamation to provide a visible barrier from State Route 169.

2.4.2 Erosion Control Plan

The Site will be non-discharging and specific erosion control measures include:

- Storm water will be routed into the active mining pit from the plant area and low-lying areas.
- An earthen berm will be maintained around the perimeter of the pit.
- Mining may occur within the area of the Osborne Spring Wash that intersects the property on the western side of the parcel. If it is determined that avoidance of the wash is necessary, Flintstone will modify the pit design accordingly and submit an amendment to the Plan.

2.4.3 Surrounding Area Land Use

The Site is located in a rural residential area in unincorporated Yavapai County. Surrounding land uses generally consist of low-density residential properties to the north and vacant land to the east, west, and south.



The planned post-aggregate mining land use as residential space is consistent with the surrounding parcels.

2.5 POST-AGGREGATE MINING PLAN FOR STRUCTURES AND EQUIPMENT

2.5.1 Structures to be Removed

The abandoned airplane hangar, truck scale, and maintenance shop may be removed from Site to accommodate future mining activities. The septic systems, mobile homes, power line infrastructure, and water wells will remain on-Site for future use and will not be abandoned or removed.

2.5.2 Access Restriction/Public Safety

An earthen berm will be maintained around the perimeter of the mining area pit. Perimeter warning signs and lockable gates will be installed and maintained during mining to identify potential hazards, prevent unauthorized access, and to ensure public safety.

2.6 POST-AGGREGATE MINING ROAD RECLAMATION

There will be no regrading of the mine roads. All compacted and unpaved mining roads will be left in place for use in post-mining land use activities.

2.7 SOIL CONSERVATION AND REVEGETATION

2.7.1 Topsoil Conservation Plan

The Site will be concurrently mined to the reclamation slopes as the pit advances. Topsoil and overburden will be removed and placed on the slopes or berms when available. Any remaining material stockpiles will be spread out around the Site for grading to allow for surface water drainage into the pit area and to enhance natural revegetation. The Site is planned for natural revegetation due to the fine-grained surficial soils that are conducive to natural revegetation growth.

2.8 CONCEPTUAL SCHEDULE FOR DISTURBANCE AND RECLAMATION

The conceptual schedule includes:

- Disturbance operations are ongoing.
- Excavation and concurrent reclamation are anticipated to continue through approximately 2062.
- Reclamation activities will be concurrent with excavation activities as conditions allow.
- If concurrent reclamation is not feasible, areas will be reclaimed after excavation activities are completed. Final post-aggregate excavation reclamation activities will begin within 12 months of the cessation of mining activities and are anticipated to be completed within 12 months.
- Reclamation will be deemed complete once the reclaimed surfaces have been regraded to match surrounding conditions, 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.

2.10 ESTIMATED RECLAMATION COSTS

The unit costs developed for this Plan 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 recommended best practices.

The estimated costs developed for this Plan include:

- Pit area regrading and scarifying;
- Structures and equipment removal;
- Plant equipment removal;
- Care and maintenance;
- General construction; 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 Regrading and Scarifying

The mining area will be concurrently mined to the reclamation slope of 3H:1V. Consequently, no regrading of pit walls will be necessary to achieve the final reclamation slopes. The pit floor will be scarified and regraded to promote vegetation growth. The approximate area of the pit floor is 15 acres.

The total estimated cost for scarifying and regrading the mining excavation area is \$5,000.



2.10.2 Roads

There will be no regrading of the mine roads. All compacted and unpaved mining roads will be left in place for use in post-mining land use activities per the landowner's request.

There are no costs associated with this item.

2.10.3 Structure Demolition Cost

The abandoned airplane hangar, truck scale, and maintenance shop will be removed from Site following the cessation of mining activities. The septic systems, mobile homes, power line infrastructure, and water wells will remain on-Site for future use and will not be abandoned or removed.

The total estimated cost for this category is \$29,000.

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 \$21,000.

2.10.5 Construction Cost

Installation of signage to prohibit entrance into the property for use as a recreational area by the public.

The cost of construction is estimated to be \$1,000.

2.10.6 Plant Equipment Removal Cost

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

One portable screening plant

Flintstone received a third-party estimate for removing the portable screening plant from the Site after cessation of mining (Appendix B). The cost of plant removal is estimated at \$3,700.

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 2020 through 2022.

• CPI = 0.04

The cost adjustment is estimated at \$2,000.



2.10.8 Administrative Cost

The administrative costs provide the necessary components to generate a third-party estimate. The estimated administrative costs include:

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

The total administrative cost is estimated to be \$21,000.

2.10.9 Total Reclamation Cost

The total reclamation cost for this Plan is estimated to be \$82,700.

Section	Reclamation Item	Cost
2.10.1	Pit Regrading and Scarifying	\$5,000
2.10.2	Roads	\$0
2.10.3	Structure Demolition Cost	\$29,000
2.10.4	Care and Maintenance Cost	\$21,000
2.10.5	Construction Cost	\$1,000
2.10.6	Plant Equipment Removal Cost	\$3,700
2.10.7	Cost Adjustment	\$2,000
2.10.8	Administrative Cost	\$21,000
	Total Reclamation Cost	\$82,700

Table I. Estimated Reclamation Cost Summary



3. Fees

The fee for a new Aggregate Mined Land Reclamation Plan is \$3,800. A check covering this fee has been submitted with this Plan.

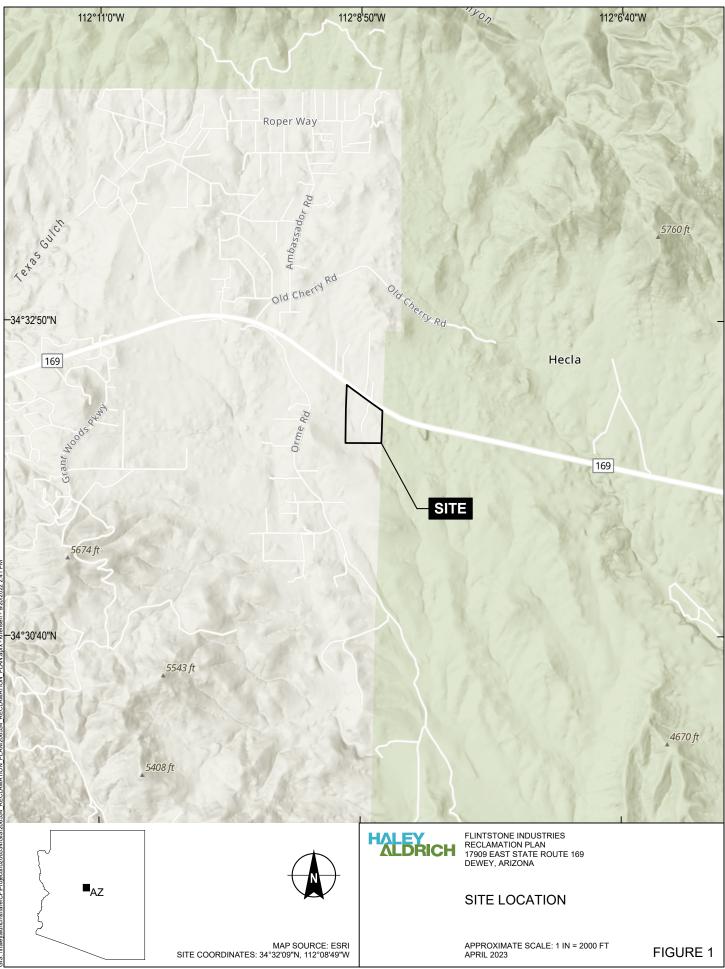


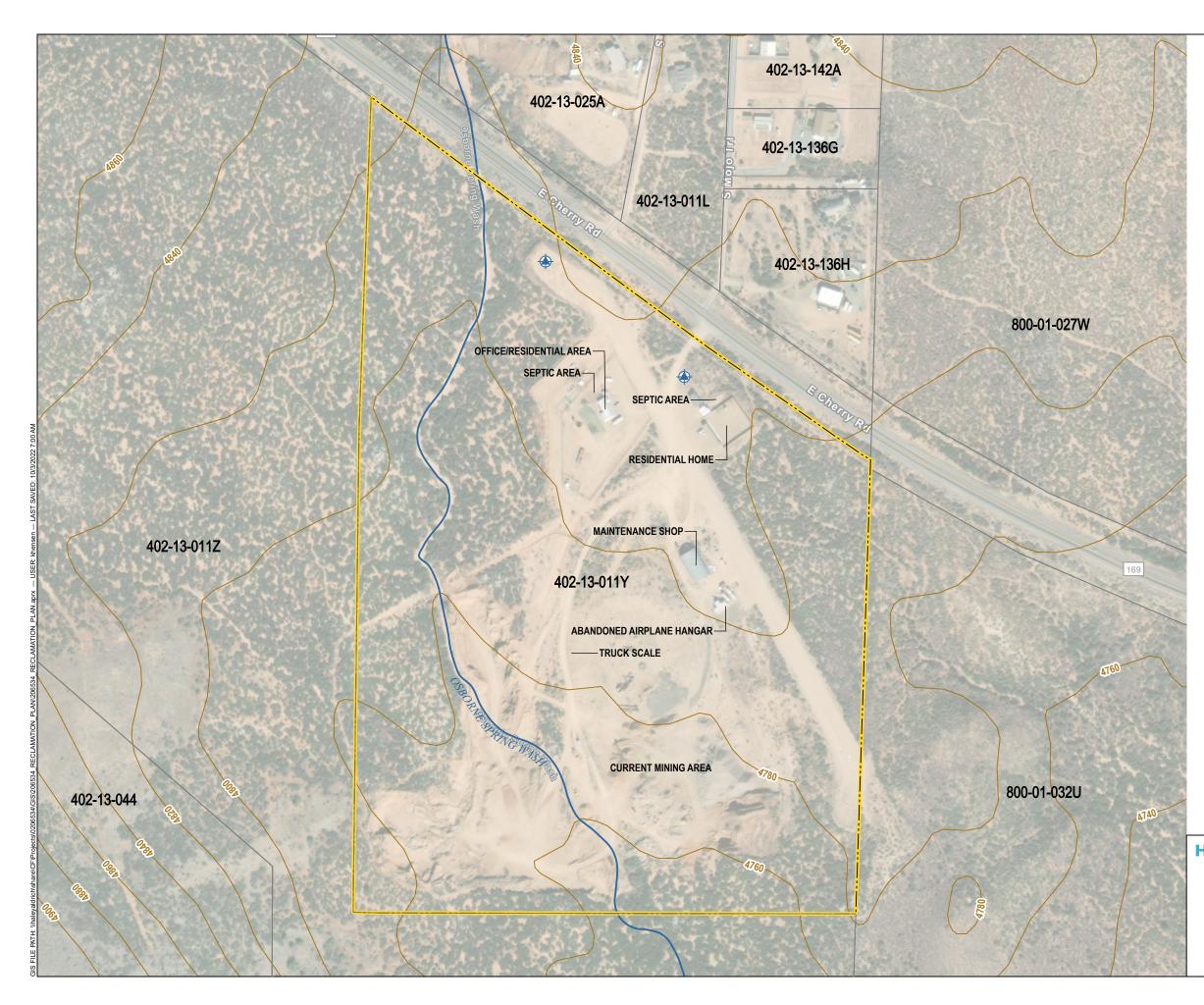
4. Financial Assurance

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 Arizona Administrative Code R11-3-809.C will be submitted within 60 days under separate correspondence.



FIGURES





LEGEND

۲ WELL

OSBORNE SPRING WASH

TOPOGRAPHIC ELEVATION CONTOUR, 20-FT INTERVAL

SITE BOUNDARY

PARCEL BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.

2. ASSESSOR PARCEL DATA SOURCE: YAVAPAI COUNTY

3. TOPOGRAPHIC ELEVATION CONTOUR DATA SOURCE: UNITED STATES GEOLOGICAL SURVEY (USGS), 28 SEPTEMBER 2021

4. AERIAL IMAGERY SOURCE: ESRI



320

640

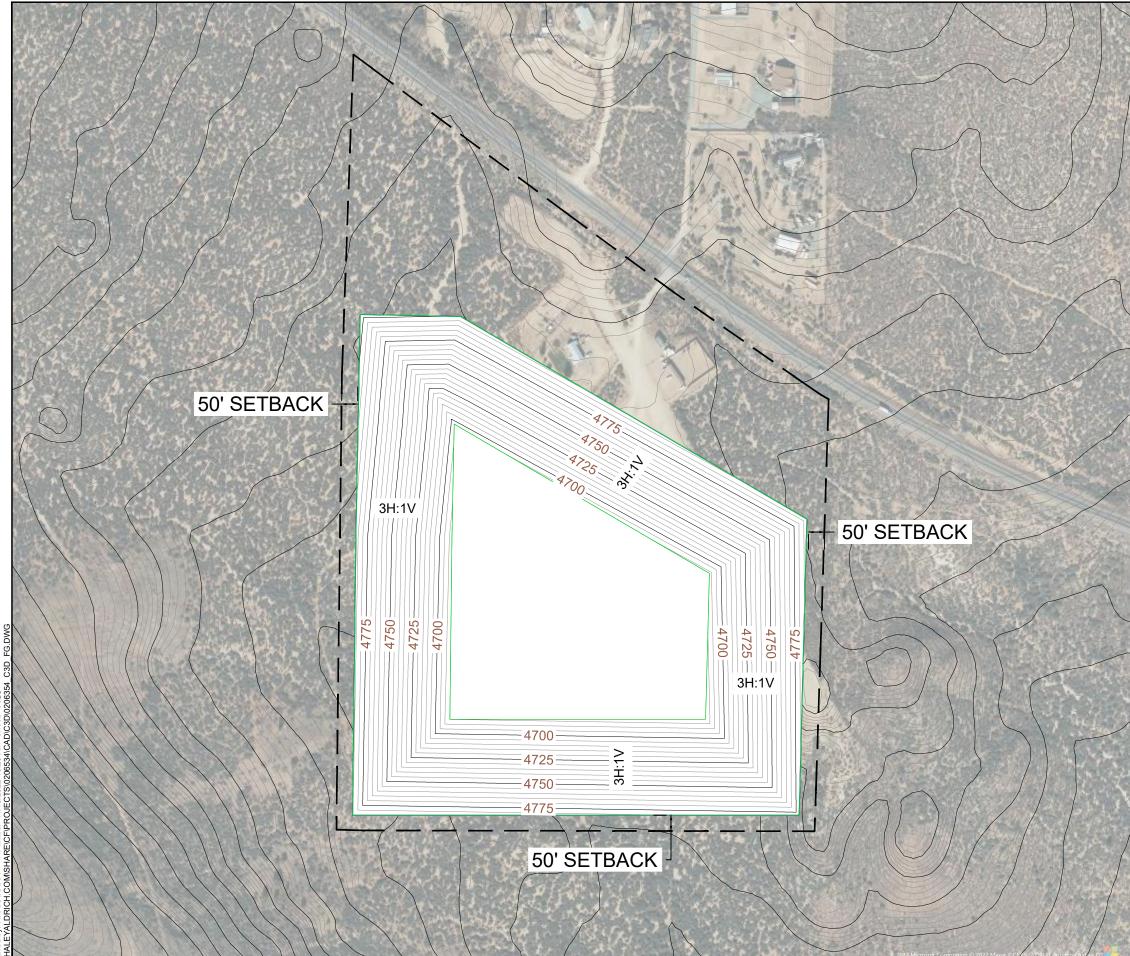
SCALE IN FEET

FLINTSTONE INDUSTRIES RECLAMATION PLAN 17909 EAST STATE ROUTE 169 DEWEY, ARIZONA

EXISTING SITE CONDITIONS

APRIL 2023

FIGURE 2



aved by: ANAKAHARA Printed: 11/10/2022 10:23 AM Sheet: FIG3

LEGEND

- -4750 EXCAVATION CONTOUR (MAJOR)
 - EXCAVATION CONTOUR (MINOR)
- PROPERTY BOUNDARY

NOTES

- 1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
- 2. ASSESSOR PARCEL DATA SOURCE: YAVAPAI COUNTY
- 3. TOPOGRAPHIC ELEVATION CONTOUR DATA SOURCE: UNITED STATES GEOLOGICAL SURVEY (USGS), 28 SEPTEMBER 2021



600

300 SCALE IN FEET



FLINTSTONE INDUSTRIES RECLAMATION PLAN 17909 EAST STATE ROUTE 169 DEWEY, ARIZONA

POST AGGREGATE MINING MAP

SCALE: AS SHOWN APRIL 2023

FIGURE 3

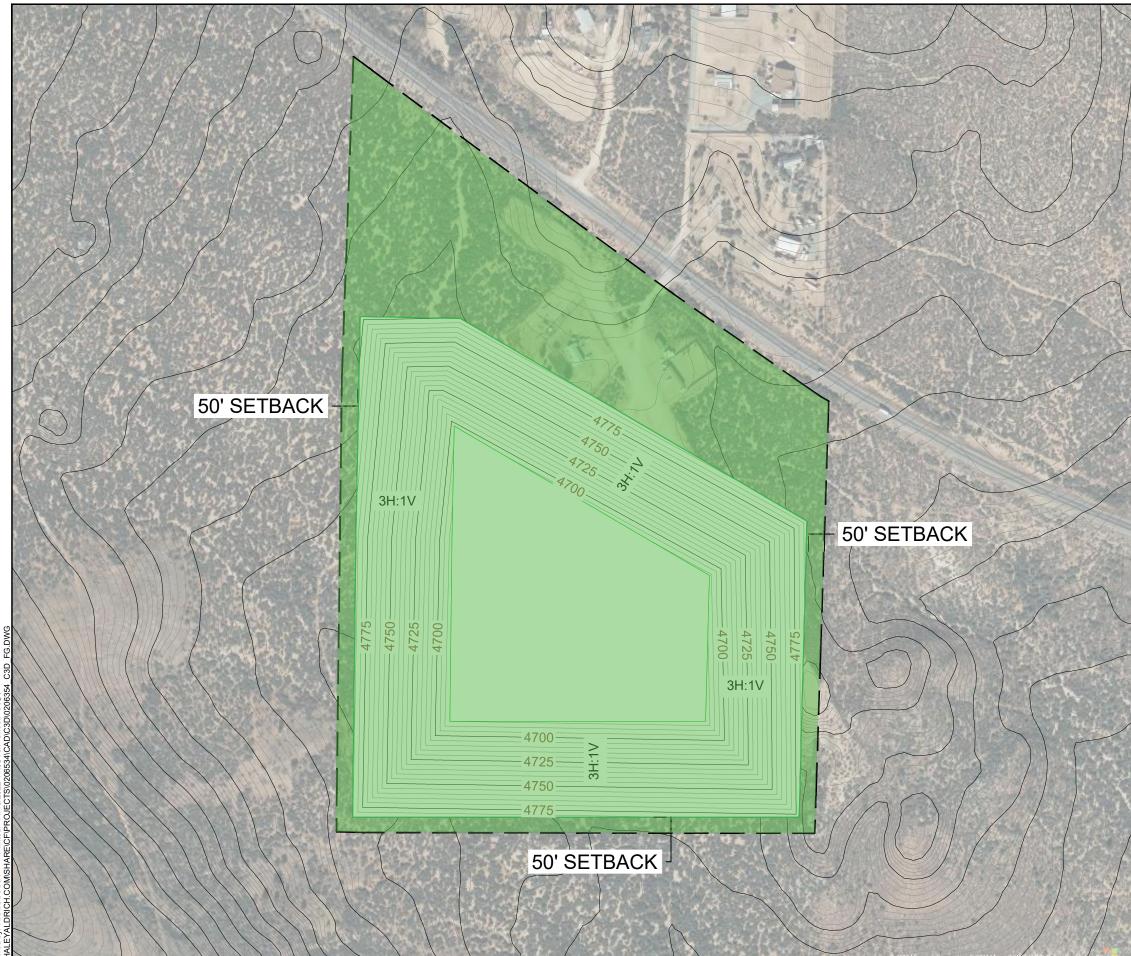


FIG4 ₹

LEGEND

- -4800 EXCAVATION CONTOUR (MAJOR)
 - EXCAVATION CONTOUR (MINOR)
 - PROPERTY BOUNDARY
 - RESIDENTIAL LAND USE

NOTES

- 1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
- 2. ASSESSOR PARCEL DATA SOURCE: YAVAPAI COUNTY
- 3. TOPOGRAPHIC ELEVATION CONTOUR DATA SOURCE: UNITED STATES GEOLOGICAL SURVEY (USGS), 28 SEPTEMBER 2021



600

300 SCALE IN FEET



FLINTSTONE INDUSTRIES RECLAMATION PLAN 17909 EAST STATE ROUTE 169 DEWEY, ARIZONA



SCALE: AS SHOWN APRIL 2023

FIGURE 4

APPENDIX A Reclamation Cost Estimate

Date Checked			Ву		Date	Uai	c. No.	Sheet No.
10/31/2022		206534	RAB		10/28/2022	_		1 of 12
	Project					S	ubject	
	Flintstone - Dewey Quarry				Estimated	Cos	t Summary	/ (1 of 2)
					Number of		a <i>i</i>	
Reclamation Item	Description and Units	S	ES	t. Cost	Units		Cost	References/Notes
Pit Area Regrade an	d Vegetation							Section 2.10.1 of Repo
	Surface Regrading and Scarifying	(square foot)	\$	0.01	653,400	\$	5,000	
(No Mulch or Fertilizer)	Revegetation Cost - Broadcas	· · /	\$	377	000,400	\$	- 3,000	
	Revegetation Cost - Hydrosee		\$	1,175		\$	-	
	Containerized Trees (Ea	· /	\$	10		\$	-	
	Minin	ig Area Regrade	and S	Scarifying	Sub-Total =	\$	5,000	
Overburden and Was	ste Rock Stockpiles							
	Surface Regrading and Scarifying	(square foot)	\$	0.01		\$		
	Revegetation Cost - Broadcas		\$	377		\$	-	
	Revegetation Cost - Hydrosee	· · /	\$	1,175		\$	-	
	Containerized Trees (Ea	ch)	\$	10		\$	-	
	Pla	nt Area Regrade	and	Scarifying	Sub-Total =	\$	-	
Roads								Section 2.10.2 of Report
(Side Slope < 30%)	Rip/Scarify (Linear Ft.)	\$	0.28		\$	-	
(Side Slope >30%)	Re-Grading and Topsoiling (Li		\$	1.69		\$	-	
(No Mulch or Fertilizer)	Revegetation Cost - Broadcas		\$	377		\$	-	
	Revegetation Cost - Hydrosee	ed (Acre)	\$	1,175		\$	-	
					Roads =	\$	-	
Structures and Equi	oment							Section 2.10.3 of Repo
Break-up and bury Slab)	Demolition and Removal - Metal Bu	ilding (Sq. Ft.)	\$	3.81	5,825	\$	22,000	
(Break-up and bury Slab)	emolition and Removal - Secondary Co	· ·	\$	8.52		\$	-	
Break-up and bury Slab)	Demolition and Removal - Concrete E	• • • •	\$	15.86		\$	-	
	Powerline Removal - Single Pole Util	• • • •	\$	12,560		\$	-	
	Transformer Removal (Ea Demolition - Chain-Link Fencing	,	\$ \$	6,280 4.36		\$ \$	-	
	Demolition - Barb Wire Fencing		ф \$	4.30 1.94		э \$	-	
	Septic Tank Removal (Ea	. ,	\$	1,000		\$	_	
	Well Removal (Ft. Dept		\$	33.55		\$	-	
	Removal - 15" Culvert (Line	,	\$	10.29		\$	-	
	Removal - 36" Culvert (Line	ar Ft.)	\$	17.15		\$	-	
(Break-up and bury Slab)	Demolition - Concrete Roads and F	Pads (Sq. Ft.)	\$	8.52	835	\$	7,000	
				5	Structures =	\$	29,000	
Care and Maintenand	Ce							Section 2.10.4 of Repo
	Site Monitoring and Reporting	(Annual)	\$	10,000	2	\$	20,000	
	Trash Removal (Ton)		\$	75	10	\$	1,000	
			Care	e and Mai	ntenance =	\$	21,000	
Construction								Section 2.10.5 of Repor
	_	<i></i>						
	Construction - Chain-Link Fencing		\$	9.21		\$	-	
	Install Rip Rap Erosion Lining Install Access Restriction	· · /	\$ \$	77.00 83.40	10	\$ ¢	-	
		oigii	φ		10 •nstruction =		1,000 1,000	
	Est. Reclamation Oper	rating and Mater	ial (O	&M) Cost	Sub-Total =	\$	56,000	

Date Checked	Checked By	Job Number	Ву		Date	Cal	c. No.	Sheet No.
10/31/2022		206534	RAB	6	10/28/2022	0		2 of 12
	Project					Su	oject	
Flint	stone - Dewey Qua	rry			Estimated C	ost	Summary (2	: of 2)
Reclamation Item	Decorintio	n and Units	F	st. Cost	Number of Units		Cost	References/Notes
Reclamation hem	Descriptio			31. 0031	Units		0031	References/fibics
Est. Recla	mation Operating a	and Material (O&M)	Cost	t Sub-Total	(from page 1) =	\$	56,000	
Material Haulage for	Backfill							
Truck and Loa	der - 2000Ft. One V	/av (Cu_Yd)	\$	0.98		\$	_	
	aper - 1000Ft. One		\$	0.68		\$	-	
				Mat	erial Haulage =	\$	-	
Plant Removal								Section 2.10.6 of Report
(Processing Equip)	Remova	l - Plants	\$	3,700.00	1.0	\$	3,700	
(Beltline)		- Conveyor	Ψ	0,100.00	1.0	\$	-	
· · ·		·		Р	lant Removal =	\$	3,700	
	Est. Reclamation	on Operating and M	Materi	ial (O&M) C	ost Sub-Total =	\$	59,700	
Cost Adjustment								Section 2.10.7 of Report
								https://www.usinflationca
Template based on 2020	Concumor Prior	e Index Increase			0.04	¢	2,000	lculator.com/inflation/cur rent-inflation-rates/
costs	Consumer Price				0.04	Ψ	2,000	
				Co	ost Adjustment =	\$	2,000	
	Est. Recla	mation Operating a	and N	laterial (O&	M) Cost Total =	\$	61,700	
Administrative Costs								Section 2.10.8 of Report
Administrative 003ta	2							
% of O&M Cost	Contir	ngency		10%		\$	6,000	ARPA Recommendations
% of O&M Cost	General Mobilizati	on/De-Mobilization		4%		\$	2,000	ARPA Recommendations
% of O&M Cost		ct costs		2%		\$	1,000	ARPA Recommendations
% of O&M Cost		tor Profit Iministration		10% 10%		\$ \$	6,000 6,000	ARPA Recommendations ARPA Recommendations
% of O&M Cost	Contract Ad	Ininistration	T		strative Costs =	ֆ \$	21,000	ARPA Recommendations
				Adminic		Ψ	21,000	
		Total Estimated	d Fina	ancial Assu	rance Amount =	\$	82,700	
							,	

10/31/202	Checked By 2 EJM	206534	By RAB	1	10/28/2022		3 of 12		
	Subject								
Fli	3								
							References/Notes		
ne unit cost basi	s for the estimate is	based on two key da	tabases						
• RS M	leans - Facilities Cor	struction Cost Data -	2020, and						
 Cater 	pillar Performance H	landbook, Edition 31							
quipment rental	rates and operator la	abor rates are based	on the RS-MEANS	CRE\	WS data, a	s reference	d		
		rates can be adjuste nce the Phoenix Area							
						uge.			
REWS DATA									
	Earthmoving Equ	iipment, cost \$/hr					RS Means : Facilities Construction Cost Dat		
	List	Labor (1)*	Equipment (2)	*	Total				
	980G Loader	\$54	\$135	5	\$189	\$/hr	crew B-10U		
	775D Haul Truck	\$44	\$369		\$413		crew B-34J		
	Water Truck	\$46	\$60		\$106	•	crew B-59		
	D10 Dozer	\$54	\$234		\$288		crew B-10M		
	325 Excavator	\$56	\$300		\$356		crew B12-D		
	16H Motor Grader		\$85		\$139		crew B-11L		
	631E Scraper	\$54	\$304		\$358		crew B-33D		
	80 ton Crane 120 ton Crane	\$56 \$56	\$28 ⁻ \$305		\$337 \$361		crew A-3L crew A-3M		
		φυυ	φους	,	ψ 0 01	ψ/Π			
LABOR DATA	Mashaniaal lahan	ф.с.4	¢	`	Ф Г4	Ф /h- т			
	Mechanical labor Laborer	\$51 \$39				\$/hr \$/hr	crew A-1A crew A-1		
	Laborer	\$ 3 9	φ	,	\$ <u>3</u> 9	φ/11			
MISC COST DAT	A								
	Demolition/Remov	al - Metal Building ar	nd Foundation	\$	3.81	\$/Sq. Ft.	RACER (ver. 8.1.2)		
		val - Block Building a		\$		\$/Sq. Ft.	RACER (ver. 8.1.2)		
	Demolition/Remov	al - Concrete Pads/r	oads 12"	\$	8.52	\$/Sq. Ft.	RACER (ver. 8.1.2)		
	Demolition/Remov	al - Chain-Link Fenc	ing	\$	4.36	\$/Sq. Ft.	RACER (ver. 8.1.2)		
	Removal of Single	-Pole Powerline		\$	12,560	\$/Mile	Haley & Aldrich Data		
	Removal of Electri			φ \$	6,280		Haley & Aldrich Data		
	• • • • • • •	–		•		A 151			
	Construction of Ch		0-6-6-	\$	11.57		RACER (ver. 8.1.2)		
		ess Restriction/Public	satety Signs	\$		\$/sign	RACER (ver. 8.1.2)		
	Well Removal			\$		ft depth	Alliad Maste Quete		
	Trash Removal			\$	15	Ton	Allied Waste Quote		
	Transport and Unl	oading, Heavy		\$	1,570	\$/load	Haley & Aldrich Data		
	Transport and Uni	• •		\$		\$/load	Haley & Aldrich Data		
	Broadcast Seeding								
		fertilizer, desert scrul	o seed mixture	\$	762	\$/acre	Haley & Aldrich Data		
	w/o mulch and fe	ertilizer		\$	377	\$/acre	Haley & Aldrich Data		
	Hydroseed								
		cort corub type cood	mixture	\$	1,476	\$/acre	Haley & Aldrich Data		
	w/ mulch and de Septic System R	••	IIIAdile	\$		\$/tank	Haley & Aldrich Data		

Date Checked	Checked By	Job Number	Ву		Date		Calc. No.	Sheet No.			
10/31/2022		206534	RAB		10	0/28/2022		4 of 12			
	Project		Subject								
Flin	tstone - Dewey C	Quarry									
								References/Notes			
	D10 Re-gr	ading from 1.5H:1	V slope to	o 3H:1V sloj	ре						
		g Productivity									
		oduction (CY/Hr)		950				(1) pg. 1-43 (200 Foot Push)			
Push Factors		r experience		0.875				(1) pg. 1-45			
		of material		0.8				(1) pg. 1-45			
		e of Push		1.6				(1) pg. 1-45			
		Correction		0.71				(1) pg. 1-41 Material Weight = 1.62 T/C			
Vork Factor	50 mii	nutes/hour		0.83				(1) pg. 1-45			
	Average Pro	oduction (CY/Hr)		629							
		y Production (CY)		5,036				(8-hour work day)			
	D10 D	ozer Cost									
		ntal (Monthly)	\$	20,500				(2) Line # 015433204360			
		p Cost (Daily)	Ŧ	20,000	\$	932		(22 working days/month)			
	Dozer Opera	ting Cost (Hourly)	\$	125				(2) Line # 015433204360			
		g Cost(Daily)	Ψ	120	\$	1,000		(8-hour work day)			
		or Cost (Hourly)	\$	54	¢	100		(2) crew B-10M (8-hour work day)			
		Cost (Daily)			\$	432	=	(orloar work day)			
	Dozer Tot	al Cost (Daily)			\$	2,364					
	Cos	t per CY			\$	0.47					
1) Caterpillar Perfo 2) RS Means 2020		k, Edition 31									

Date Checked	Checked By	Job Number	Ву		Date		Calc. No.	Sheet No.		
10/31/2022		206534	RAB		1	0/28/2022		5 of 12		
	Project		Subject							
Fli	ntstone - Dewey (Quarry				Scari	ifying Cost			
								References/Notes		
	Scarifying	- Motor Grader								
		er Productivity	_	0.75						
		⁻ beam (Ft.) with std tires (mph)		9.75 2.4				(1) pg. 3-13, 17.8 inch max depth(1) pg. 3-12		
	Fee	t per mile		5,280						
		eed in Ft./Hr.		6,336				assumes 2 passes are		
		-pass factor speed in Ft./Hr.		0.5 3,168				adequate for road scarifying		
	Optimum area	a/hour (Sq. Ft./Hr.)		30,888						
Work Factor		inute hour		0.83				(1) pg. 3-15		
		ea/hour (Ft. ² /Hr.) ea Daily (Sq. Ft.)		25,637 205,096				(8-hour work day)		
	Average are	a Daily (04.11.)		200,000				(6-hour work day)		
		ost (40,000 lb)								
		ental (Monthly) ip Cost (Daily)	\$	11,000	\$	500		(2) Line # 015433201920 (22 working days/month)		
	Grader Oper	ating Cost (Hourly)	\$	64				(2) Line # 015433201920		
		g Cost(Daily)	Ŷ	01	\$	512		(8-hour work day)		
		oor Cost (Hourly) Cost (Daily)	\$	54	\$	432		(2) crew B-11L (8-hour work day)		
	Grader To	tal Cost (Daily)			\$	1,444				
	Cost	per Sq. Ft.			\$	0.0070				
	Cost per Linear F				\$	0.28		(40-foot-wide road)		
(1) Caterpillar Perf	ormance Handbor	k Edition 31								
(1) Caterpiliar Peri (2) RS Means 202										

	Checked By	Job Number 206534	By RAB		Date	Calc. N					
10/31/2022 EJM 206534 Project				RAB 10/28/2022 6 of 12 Subject							
Flin	tstone - Dewey C	Quarry				Excavator Co					
							References/Notes				
actors		tor Productivity t capacity (Cu. Yd.)	-	1.5			(1) pg. 5-117 Bucket size selected for t				
401013		n Cycles/Hr.		180			(1) pg. 5-1555 325 Excavator = 1.5				
		t Fill factor		1.0			(1) pg. 5-126				
	50 m	inutes/Hr.		0.83			Material Weight = 1.62T/CY				
		Production (Cu. Yd.)		224							
		Production (Cu. Yd.)		1,793			(8-hour work day)				
		avator Cost	_								
		Rental (Monthly) p Cost (Daily)	\$	6,725	\$	306	(2) 01590 200 0200 pg. 2 (22 working days/month)				
		rating Cost (Hourly) g Cost (Daily)	\$	29	\$	232	(2) 01590 200 0200 pg. 2 (8-hour work day)				
		bor Cost (Hourly) Cost (Daily)	\$	35	\$	280	(2) crew B12-D, pg. 1099 (8-hour work day)				
	Excavator T	otal Cost (Daily)			\$	818					
	Cost p	er Cu. Yd.			\$	0.46					
) Caterpillar Perfo		k, Edition 31									
) RS Means 2020											

0ate Checked 10/31/2022	Checked By	Job Number 206534	Ву		Date		Calc. No.	Sheet No. 7 of 12			
Project				RAB 10/28/2022 7 of 12 Subject							
Flin	tstone - Dewey Qu	Jarry	Scraper Costing								
								References/Notes			
		631E Scraper									
		acity (heaped)			Cu. Yo	d.		Ϋ́d.			
		d load		37.5	ton			(1) pg. 9-5			
		Productivity	-	540				(1) == 0.67			
		1% RR, 1000 ft haul correction		0.93				(1) pg. 9-67 Material Weight = 1.62 T/Cu.			
		ute hour		0.83				matorial Program 1.02 1704.			
		u. Yd. per hour		415							
	631 Scr	aper Cost	_								
		ntal (Monthly) Cost (Daily)	\$	14,900	\$	677		(2) 01590 200 3700 pg. 21 (22 working days/month			
		,			¥	011					
	• •	ing Cost (Hourly) Cost(Daily)	\$	75	\$	600		(2) 01590 200 3700 pg. 21 (8-hour work day)			
	Operating	Cost(Daily)			Ψ	000		(O-Hour work day)			
		or Cost (Hourly)	\$	34	•			(2) crew B-33D, pg. 1099			
	Labor C	ost (Daily)			\$	272		(8-hour work day)			
	Scraper Tota	al Cost (Daily)			\$	1,549					
	D9 Do:	zer Cost									
		l (Monthly) Cost (Daily)	\$	14,300	\$	650		(2) 01590-200 4370, pg. 21 (22 working days/month			
	D9 Operating	g Cost (Hourly)	\$	65				(2) 01590-200 4370, pg. 21			
		Cost(Daily)			\$	520		(8-hour work day)			
	D9 Labor (Cost (Hourly)	\$	34				(2) crew B-10M, pg. 1099			
	Labor C	ost (Daily)			\$	272		(8-hour work day)			
	D9 Total (Cost (Daily)			\$	1,442					
	Tota	l Fleet	_								
		Cost (Daily)		000	\$	4,541		(1 - D9, 2 - 631)			
		luctivity (BCY/Hr) uctivity (BCY/Day)		830		6,640					
	Cost per Ci	ı. Yd. Moved			\$	0.68					
					\$						
	•	foot of 40 ft wide road, 1		. ,		1.48					
	Cost of place	ng 1 linear foot (40 foot v	/ide road	d)	\$	1.01					
		, Edition 31									

Date Checked	Checked By	Job Number	Ву		Date	0/20/2022	Calc. No.	Sheet No.		
10/31/2022		206534	RAB		1	0/28/2022		8 of 12		
Project Flintstone - Dewey Quarry			Subject Truck haul (1 of 2)							
								References/Notes		
		r Productivity	-							
		ime (minutes)		0.55				(1) pg. 13-46		
Cycle Time Factors	Material type (minutes) Type of Pile (minutes) Common ownership trucks/loaders			0.02				(1) pg. 13-46		
				0.02				(1) pg. 13-46		
		•		0				(1) pg. 13-46		
		operation et (minutes)		0 0.025				(1) pg. 13-46		
	-	e target		0.025				(1) pg. 13-46 (1) pg. 13-46		
	-	ime (minutes)		0.615				(1) pg. 13-40		
	•	Cycles/Hr.		98						
Nork Factor	-	utes/Hr.		0.83				(1) pg. 13-47		
	Average Cycles/Hr. Bucket Full Load (Cubic Yards) Bucket Fill Factor			81						
				7.5				(1) pg. 13-29		
				0.9				(1) pg. 13-46		
	Average Bucket L	oad (Cubic Yards)		6.75						
	Average Volume Loaded/Hr			547						
		ader Cost	-	44 500						
		tal (Monthly) Cost (Daily)	\$	11,500	\$	523		(2) 01590 200 4810 pg. 21 (22 working days/month)		
		ng Cost (Hourly) Cost(Daily)	\$	58	\$	464		(2) 01590 200 4810 pg. 21 (8-hour work day)		
		Cost (Hourly) ost (Daily)	\$	34	\$	272	-	(2) crew B-10M pg. 1099 (8-hour work day)		
	Loader Tota	l Cost (Daily)			\$	1,259				
	775D Truck	Productivity								
		(Cubic Yards)	-	41.1				(1) pg. 10-3		
	Loader Cycles ne	eded to Fill Truck		6.09				Use Loader Avg Bucket Load (CY		
		les per Truck		6						
	Average Truck Pay	/load (Cubic Yards)		40.5						
		ime (minutes)		4.45				Calculated from Loader rate		
Cycle Time Factors	Maneuver - Load Area (minutes)			0.5				(1) pg. 10-8		
		np Area (minutes)		1.1				(1) pg. 10-8		
		e (minutes)		1.2 1.2				(1) pg. 10-8 (1) pg. 10-8		
		ie (minutes) /cle Time (minutes)		8.45				(1) pg. 10-8 (1) pg. 10-8		
		ick Cycles/Hr.		7.1				(1) pg. 10-8 (1) pg. 10-8		
Work Factor		utes/Hr.		0.83				Assumption		
	Average Truck Cycles/Hr. Average (Cu.Yd.)/Hr. (for 1 truck)			5.9						
				239						
	Average (Cu.Yd.)/Hr. (for 2 trucks)		478						
1) Cotornillor D-f	rmonoo Llondha-li	Edition 21								
2) RS Means 2020	ormance Handbook,)									
,	-									

Date Checked Checked By	Job Number	Ву		Date		Calc. No.	Sheet No.
10/31/2022 EJM	206534	RAB		10/	28/2022		9 of 12
Project			Subject				
Flintstone - Dewey Quarry					True	ck Haulage (2 of 2)	
							References/Notes
776D T	ruck Cost						
	tal (Monthly)	\$	12,800				(1) 01590 200 5620 p22
	Cost (Daily)	·	,	\$	582		(22 working days/month)
Truck Or with	a a O a at (U a cash c)	•	57				(1) 01500 000 5000 00
	ng Cost (Hourly) Cost(Daily)	\$	57	\$	456		(1) 01590 200 5620 p22 (8-hour work day)
C P C A M				Ŷ			(2
	Cost (Hourly)	\$	26	•			(1) crew B-34A, pg. 1104
Labor C	ost (Daily)			\$	208	:	(8-hour work day)
Truck Tota	l Cost (Daily)			\$	1,246		
Trucks (2T to Loader Tot:	otal Cost (Daily) al Cost (Daily)			\$ \$	2,492 1,259		
	otal Cost (Daily)			\$	3,750		
	,	,					
Total Fleet Producti	ivity (Cu. Yd. per Day	')			3,821		(8-hour work day)
Fleet Cost	t per Cu. Yd.			\$	0.98		
	-						
1							
(1) Caterpillar Performance Handbook,(2) RS Means 2020	Edition 31						

Date Checked Checked By	Job Number	Ву		Date	Calc. N	lo. Sheet No.		
10/31/2022 EJM	206534	RÁB		1	0/28/2022	10 of 12		
Project			Subject					
Flintstone - Dewey Quarry			Crane Costing					
						Defense (N.)		
						References/Notes		
Rubber Tired Hy	draulic Crane - 80	-on Capac	ity					
	Crane Cost	<u> </u>						
	ntal (Monthly) p Cost (Daily)	\$	8,825	\$ 401	401	(2) 01590 500 2700 pg. 27 (22 working days/month)		
Ownersin	p Cost (Daily)			Ψ	401	(22 working days/monut)		
	ting Cost (Hourly)	\$	54			(2) 01590 500 2700 pg. 27		
Operatin	g Cost(Daily)			\$	432	(8-hour work day)		
Crane Labo	or Cost (Hourly)	\$	35			(2) crew B-95A, pg. 1100		
	Cost (Daily)			\$	280	(8-hour work day)		
Crana Tat	al Cost (Daily)			¢	1,113	(8-hour work day)		
	al Cost (Hourly)			\$ \$	139	(o-nour work day)		
Rubber Tired Hy	draulic Crane - 12	0-Ton Cap	acity					
	Crane Cost							
	ntal (Monthly)	\$	25,400	^	4.455	(2) 01590 500 2740 pg. 27		
Ownershi	p Cost (Daily)			\$	1,155	(22 working days/month)		
	ting Cost (Hourly)	\$	\$ 83	• • • • •		(2) 01590 500 2740 pg. 27		
Operatin	g Cost(Daily)			\$	664	(8-hour work day)		
Crane Labo	or Cost (Hourly)	\$ 35			(2) crew B-95A, pg. 1100			
	Cost (Daily)			\$	280	(8-hour work day)		
Cropa Tat	al Cost (Daily)			\$	2,099	(8-hour work day)		
	al Cost (Hourly)			э \$	2,099	(o-nour work day)		
(1) Caterpillar Performance Handboo	k Edition 31							
(2) RS Means 2020								

Date Checked C	Checked By	Job Number	Ву	Date	Calc. No.	Sheet No.		
10/31/2022 E	EJM	206534	RAB	10/28/2022	Galc. NO.	11 of 12		
	Project				Subject			
Flintstone - Dewey Quarry			Rip Rap Erosion Control					
Ma		References/Notes						
	Description Units Total Cost							
_	18" Minimum thi	ckness, not grouted			_			
		al (sq. yd.)		\$ 19		(2) Line # 313713100200		
		(per unit)		\$ 46		(2) Line # 313713100200		
	Equipme	ent (per unit)	1	\$ 13		(2) Line # 313713100200		
Estimated	d Cost per Squar	∋ Yard for Rip Rap M	aterial and Install =	\$ 77.00				
(1) Caterpillar Performance Handbook, Edition 31 (2) RS Means 2020								

Date Checked	Checked By	Job Number	Ву	Date	Calc. No.	Sheet No.
10/31/2022	2 EJM	206534	RAB	10/28/2022		12 of 12
	Project			S	ubject	
Flintstone - Dewey Quarry						
					Removal	
	_					References/Notes
	Re	emoval of Portable	Screening Plant			
	ecc repondix D	- Third Party Estim		r lant Equipmont		
(1) Caterpillar Perf	ormance Handbook,	Edition 31				
(2) RS Means 202						
1						

APPENDIX B Plant Removal Cost Estimate

TATE'S SERVICES

(928) 499-7475

Estimation costs for tear down and removal of Kolberg 391 self-contained portable screening plant unit located at Flintstone Industries Inc., 17909 East Highway 169, Dewey, AZ, 86327.

	TOTAL	\$3700.00
LOAD AND TRANSPORT TO PHX	Flat rate	<u>2500.00</u>
CLEAN UP AND SECURE FOR MOVING	8hrs @ \$150	\$1200.00