

Air Case ID: 13205 Permit Id: 4806

FIN No.: A2420

Company Name: PAHRUMP VALLEY AGGREGATES, LLC

HA Basin No: N/A

Increment Tracked ☐

Permit No:

AP14425169 *

Select a Permit No

Date App. Received:

09/14/2026



*

Permit Writer:

Not Assigned (NA) ▾ *

Case Type:

Class 2 New w/Public Notice ▾ *

Default ODS Date:

09/28/2026



*

Actual ODS Date:



Date App. to be Closed:

12/27/2026



*

Stop Days:

Actual Date App. to be Closed: 12/27/2026

App. Incomplete?

☐

Date App. Closed:



Fee Paid (\$):

10000 *

Case Description:

Comments:

Flag (For Class 4) :

None ▾

Update

Cancel

RECEIVED

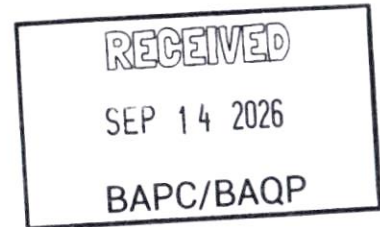
SEP 14 2026

ENVIRONMENTAL PROTECTION

September 9, 2026

2601158.101

Nevada Division of Environmental Protection
Bureau of Air Pollution Control
Class II Permitting Branch
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701-5249



**RE: New Class II Air Quality Operating Permit Application
Pahrump Valley Aggregates, LLC – Adkisson Quarry, FIN A2420**

Broadbent and Associates, Inc. (Broadbent) hereby submits the attached Nevada Division of Environmental Protection, Bureau of Air Pollution Control (NDEP-BAPC) New Class II Air Quality Operating Permit Application (AQOP) on behalf of Pahrump Valley Aggregates, LLC for the Adkisson Quarry located in Pahrump, Nevada. Adkisson Quarry is currently permitted by the NDEP-BAPC with an AQOP Surface Area Disturbance (SAD) as Facility Identification Number (FIN) A2420.

Pahrump Valley Aggregates, LLC, and Broadbent would appreciate the opportunity to review a draft copy of the permit prior to issuance. Should you have any questions or concerns regarding this submittal, please feel free to contact me by telephone at (775) 385 -3513 or cadams@broadbentinc.com or J. Michael Bradley at (805) 452-8447 or jmbradley@position6advisory.com.

Sincerely,
BROADBENT & ASSOCIATES, INC.



Carol Adams
Senior Scientist

Attachment: New Class II Air Quality Operating Permit Application

EC: J. Michael Bradley, jmbradley@position6advisory.com

ATTACHMENT: NEW CLASS II AIR QUALITY OPERATING PERMIT APPLICATION

Class II Air Quality Operating Permit Application Form

Facility Name: Pahrump Valley Aggregates, LLC – Adkisson Quarry

Existing Facility ID: A2420

Existing Class II AQOP: AP N/A

Type of Facility: Aggregate Crushing & Screening

Number of Units (including IA's) in Facility: 15

If a Revision, Number of Units (including IA's) Affected in Action: N/A

Application Type:

☒ **New AQOP**

☐ **Revision of Existing AQOP**

☐ **Renewal of Existing AQOP**



Please Submit Application to:

Nevada Division of Environmental Protection
Bureau of Air Pollution Control, Class II Permitting Branch
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701-5249
Phone (775) 687-9349

September 2024
(Ver. 6)

IMPORTANT INFORMATION

- The Application packet contains:
 - General Company Information Form
 - Industrial Process Form
 - Combustion Equipment Form
 - Storage Silo Form
 - Liquid Storage Tanks Form
 - Insignificant Activities Form
 - Facility-Wide Potential to Emit Table
 - Surface Area Disturbance Form
 - Plant Boundary Coordinates Form
 - Plant Building Parameters Form
 - Application Certification Document with Required Attachments
- Please see the Guidance Document for additional instructions on how to complete the application.
- A printed copy of the application must be submitted (mailed or hand delivered), along with an electronic version.
- The application filing fee required by Nevada Administrative Code (NAC) 445B.327 must be submitted with the completed application. Checks must be made payable to the "Nevada State Treasurer, Environmental Protection" with "BAPC" noted in the memo line. Fees may also be submitted electronically at <https://epayments.ndep.nv.gov/>.
- This application shall be used for new Class II sources, revisions to existing Class II Air Quality Operating Permits, and the renewal of Class II Air Quality Operating Permits. This application packet is not for use for an Administrative Renewal, Administrative Amendment, a general permit, a stand-alone Surface Area Disturbance (SAD) permit, nor for a Request for Change of Location Approval permit for a temporary source.
- An application for a Class II Air Quality Operating Permit must be signed by the Responsible Official, as defined in NAC 445B.156. The certification/signature page is the last page of the application and the original "wet" signature must be provided.
- All items in the application must be addressed. If an item does not apply "N/A" or similar notation must be entered in the appropriate blank. All other information must be provided. Incomplete applications will be returned to the Responsible Official within 10 working days of receipt of the application.
- For the renewal of a Class II Operating Permit, a complete application and corresponding processing fee must be submitted in accordance with NAC 445B.3473, prior to the expiration date of the current permit. The BAPC suggests that the application be submitted well in advance of the timeline outlined in NAC 445B.3473 to ensure the application is deemed complete.
- If the facility applies for a permit that has not previously held a Class I or Class II operating permit, is located within 1,000 feet of a school, hospital, or residential area, or the Director determines that the change to the stationary source results in an increase in allowable emissions that exceeds the thresholds in NAC 445B.3457, the BAPC shall establish a 30-day period for public participation.

GENERAL COMPANY INFORMATION FORM

1. Briefly describe the permitted facility's process and include the Standard Industrial Classification (SIC) number and North American Industry Classification System (NAICS). Add details in the attached Process Narrative.

2. Company Name and Address that are to appear on the operating permit [NAC 445B.295(1)]:

Name: Pahrump Valley Aggregates, LLC
Address: 732 South 6th Street, Suite N
City: Las Vegas
State: Nevada Zip Code: 89101

3. Owner's Name and Address [NAC 445B.295(1)]:

Name: Same as above
Address: _____
City: _____
State: _____ Zip Code: _____

4. Facility Name and Address, if different from #2 [NAC 445B.295(1)]:

Name: Adkisson Quarry
Address: 2690 E Adkisson Street
City: Pahrump
State: Nevada Zip Code: 89060

5. If records are required under the operating permit will be kept at a location other than the facility, specify that location [NAC 445B.295(7)]:

Name: J. Michael Bradley
Address: 12 Pepperwood Drive
City: Sandy
State: Utah Zip Code: 84095

GENERAL COMPANY INFORMATION FORM (continued)

6. Responsible Official Name, Title and Mailing Address [NAC 445B.295(1)]:

Name: J. Michael Bradley
Title: Owner Manager
Address: 12 Pepperwood Drive
City: Sandy
State: Utah Zip Code: 84095
Phone Number: (805) 452-8447
Fax Number: _____
E-mail Address: jnbradley@position6advisory.com

Is this a new Responsible Official? ☐ Yes ☒ No

If yes, and the Responsible Official (RO) does not meet the definition under NAC 445B.156 then please fill out the "Responsible Official Identification/Designation/Change Request Form" and mail it in.
(<https://ndep.nv.gov/air/permitting/download-permit-forms>)

7. Plant Manager or other appropriate Contact Name, Title and Address [NAC 445B.295(1)]:

Name: Same as above
Title: _____
Address: _____
City: _____
State: _____ Zip Code: _____
Phone Number: (xxx) xxx-xxxx
Fax Number: (xxx) xxx-xxxx
E-mail Address: _____

8. Location and Driving Directions to the Facility (For Example: From Elko, Nevada, 4 miles south of I-80 at xx Interchange) [NAC 445B.295(8)]:

Hydrographic Basin (HA) Number: 162
HA Basin Name: Pahrump Valley/NYE County

Township(s): 20 S; Range(s): 53 E; Section(s): 1

UTM Coordinates for the Front Gate of the Facility (NAD 83, Zone 11):

4,011,422 m North; 592,898 m East;

Nearest City: Pahrump

County: NYE

Driving Directions from nearest city to the Facility: State Highway 160 in Pahrump, Nevada to Mesquite Avenue. Turn east, travel approximately 2 miles to Powerline Road. Turn South, travel approximately 0.5 miles and the road turns east at Adkisson Street. Travel approximately 0.2 miles, entrance to Adkisson Quarry is on the left.

GENERAL COMPANY INFORMATION FORM (continued)

9. **Emission Cap Requested [NAC 445B.070 and NAC 445B.296(2)]:**
- ☐ Yes ☒ No (If yes, provide details in the attached Process Narrative)
10. **Important note** for completing the Industrial Process, Combustion Equipment, Storage Silo, and Liquid Storage Tank Application forms: forms need to be included for permitted emission units and insignificant activities. Provide additional forms as needed. All items in the application must be addressed. If an item does not apply then "N/A" or similar notation must be entered in the appropriate blank (TBD, unknown, etc.).
11. **Is the Facility located within 1,000 feet of a school, hospital, or residential area?**
- ☐ Yes ☒ No
12. **Does the Facility require controls or other limit restrictions to remain a Class II source?**
- ☐ Yes ☒ No
13. **Has the facility provided modeling for each non-combustion baghouse individually? (See Testing Determination System for Baghouses Guidance Document)**
- ☐ Yes ☒ No

INDUSTRIAL PROCESS APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: **System 1 - Transfer**

Emission Unit Description: **Loader to Hopper**

Alternative Operating Scenario: ☐ Yes ☒ No

Insignificant Activity: ☐ Yes ☒ No If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☒ Yes ☐ No If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID Applicable for Renewal or Revision	eg. Unit ID: S2.001, PF1.001	PF1.001
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	3-05-025-06
	Manufacturer		CON
	Date Manufactured		Unknown
	Model Number		Unknown
	Equipment Dimensions (LxWxH)	feet	36W x 30H
	Drop Length if applicable	feet	5.0
	Drop Height if applicable	feet	1.0
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. Choose one, if applicable		
	Drop Horizontal Dimension 1 if applicable	feet	N/A
	Drop Horizontal Dimension 2 if applicable	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,011,473
	UTM Easting (NAD 83, Zone 11)	m	592,968
Operating Parameters	Material Type Processed		Sand & Gravel
	Batch Process if applicable	unit /batch	N/A
	Start Time if operating less than 24 hours/day	hour:minute	12:00 am
	End Time if operating less than 24 hours/day	hour:minute	12:00 am
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? If "yes", attach manufacturer's sheets immediately after these forms.	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate If not included in detailed calculations.	dscfm	N/A
	Stack Release Type	☐ vertical ☐ capped ☐ horizontal	

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

Throughput will be monitored by counting loader buckets of material and multiplying by the known loader bucket capacity.

INDUSTRIAL PROCESS APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: System 2 – Screening

Emission Unit Description: 2-Deck Screen and Associated Transfers In and Out

Alternative Operating Scenario: ☐ Yes ☒ No

Insignificant Activity: ☐ Yes ☒ No If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☒ Yes ☐ No If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID Applicable for Renewal or Revision	eg. Unit ID: S2.001, PF1.001	PF1.002
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	3-05-025-11
	Manufacturer		Powerscreen
	Date Manufactured		N/A
	Model Number		Chieftain 180
	Equipment Dimensions (LxWxH)	feet	17L x 9.5W x 13H
	Drop Length if applicable	feet	N/A
	Drop Height if applicable	feet	1.0
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. Choose one, if applicable		
	Drop Horizontal Dimension 1 if applicable	feet	N/A
	Drop Horizontal Dimension 2 if applicable	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,011,473
	UTM Easting (NAD 83, Zone 11)	m	592,968
Operating Parameters	Material Type Processed		Sand & Gravel
	Batch Process if applicable	unit /batch	N/A
	Start Time if operating less than 24 hours/day	hour:minute	12:00 am
	End Time if operating less than 24 hours/day	hour:minute	12:00 am
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? If "yes", attach manufacturer's sheets immediately after these forms.	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate If not included in detailed calculations.	dscfm	N/A
	Stack Release Type	☐ vertical ☐ capped ☐ horizontal	

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

Throughput will be monitored by counting loader buckets of materials and multiplying by the known loader bucket capacity.

INDUSTRIAL PROCESS APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: System 2 – Screening

Emission Unit Description: 2-Deck Screen to Undersized Stockpile

Alternative Operating Scenario: ☐ Yes ☒ No

Insignificant Activity: ☐ Yes ☒ No If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☒ Yes ☐ No If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID Applicable for Renewal or Revision	eg. Unit ID: S2.001, PF1.001	PF1.003
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	3-05-025-05
	Manufacturer		Powerscreen
	Date Manufactured		N/A
	Model Number		Chieftain 180
	Equipment Dimensions (LxWxH)	feet	20L x 2.5W x 15H
	Drop Length if applicable	feet	2.5
	Drop Height if applicable	feet	1.0
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. Choose one, if applicable		
	Drop Horizontal Dimension 1 if applicable	feet	N/A
	Drop Horizontal Dimension 2 if applicable	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,011,473
	UTM Easting (NAD 83, Zone 11)	m	592,968
Operating Parameters	Material Type Processed		Sand & Gravel
	Batch Process if applicable	unit /batch	N/A
	Start Time if operating less than 24 hours/day	hour:minute	12:00 am
	End Time if operating less than 24 hours/day	hour:minute	12:00 am
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? If "yes", attach manufacturer's sheets immediately after these forms.	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate If not included in detailed calculations.	dscfm	N/A
	Stack Release Type	☐ vertical ☐ capped ☐ horizontal	

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

Throughput will be monitored by counting loader buckets of materials and multiplying by the known loader bucket capacity.

INDUSTRIAL PROCESS APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: **System 2 – Screening**

Emission Unit Description: **3-Deck Screen and Associated Transfers In and Out**

Alternative Operating Scenario: ☐ Yes ☒ No

Insignificant Activity: ☐ Yes ☒ No If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☒ Yes ☐ No If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID Applicable for Renewal or Revision	eg. Unit ID: S2.001, PF1.001	PF1.004
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	3-05-025-11
	Manufacturer		Metso Lokotrack
	Date Manufactured		N/A
	Model Number		ST4.8
	Equipment Dimensions (LxWxH)	feet	61L x 59W x 21.3H
	Drop Length if applicable	feet	N/A
	Drop Height if applicable	feet	1.0
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. Choose one, if applicable		
	Drop Horizontal Dimension 1 if applicable	feet	N/A
	Drop Horizontal Dimension 2 if applicable	feet	N/A
	Emissions Released Inside building?		yes/no
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,011,473
	UTM Easting (NAD 83, Zone 11)	m	592,968
Operating Parameters	Material Type Processed		Sand & Gravel
	Batch Process if applicable	unit /batch	N/A
	Start Time if operating less than 24 hours/day	hour:minute	12:00 am
	End Time if operating less than 24 hours/day	hour:minute	12:00 am
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? If "yes", attach manufacturer's sheets immediately after these forms.	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate If not included in detailed calculations.	dscfm	N/A
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

Throughput will be monitored by counting loader buckets of materials and multiplying by the known loader bucket capacity.

INDUSTRIAL PROCESS APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: **System 3 – Primary Crushing**

Emission Unit Description: **Cone Crusher and Associated Transfers In and Out**

Alternative Operating Scenario: ☐ Yes ☒ No

Insignificant Activity: ☐ Yes ☒ No If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☒ Yes ☐ No If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID Applicable for Renewal or Revision	eg. Unit ID: S2.001, PF1.001	PF1.005
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	3-05-025-10
	Manufacturer		Nordberg
	Date Manufactured		N/A
	Model Number		HP200e
	Equipment Dimensions (LxWxH)	feet	62L x 9.8W x 11.5H
	Drop Length if applicable	feet	N/A
	Drop Height if applicable	feet	1.0
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. Choose one, if applicable		
	Drop Horizontal Dimension 1 if applicable	feet	N/A
	Drop Horizontal Dimension 2 if applicable	feet	N/A
	Emissions Released Inside building?		yes/no
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,011,473
	UTM Easting (NAD 83, Zone 11)	m	592,968
Operating Parameters	Material Type Processed		Sand & Gravel
	Batch Process if applicable	unit /batch	N/A
	Start Time if operating less than 24 hours/day	hour:minute	12:00 am
	End Time if operating less than 24 hours/day	hour:minute	12:00 am
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? If "yes", attach manufacturer's sheets immediately after these forms	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate If not included in detailed calculations	dscfm	N/A
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

Throughput will be monitored by counting loader buckets of material and multiplying by the known loader bucket capacity.

INDUSTRIAL PROCESS APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: System 3 – Primary Crushing

Emission Unit Description: Recycle Conveyor to 3-Deck Screen

Alternative Operating Scenario: ☐ Yes ☒ No

Insignificant Activity: ☐ Yes ☒ No If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☒ Yes ☐ No If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID Applicable for Renewal or Revision	eg. Unit ID: S2.001, PF1.001	PF1.006
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	3-05-025-03
	Manufacturer		N/A
	Date Manufactured		N/A
	Model Number		N/A
	Equipment Dimensions (LxWxH)	feet	20L x 3W
	Drop Length if applicable	feet	3.0
	Drop Height if applicable	feet	1.0
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. Choose one, if applicable		
	Drop Horizontal Dimension 1 if applicable	feet	N/A
	Drop Horizontal Dimension 2 if applicable	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,011,473
	UTM Easting (NAD 83, Zone 11)	m	592,968
Operating Parameters	Material Type Processed		Sand & Gravel
	Batch Process if applicable	unit /batch	N/A
	Start Time if operating less than 24 hours/day	hour:minute	12:00 am
	End Time if operating less than 24 hours/day	hour:minute	12:00 am
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? If "yes", attach manufacturer's sheets immediately after these forms.	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate If not included in detailed calculations.	dscfm	N/A
	Stack Release Type	☐ vertical ☐ capped ☐ horizontal	

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

Throughput will be monitored by counting loader buckets of material and multiplying by the known loader bucket capacity.

INDUSTRIAL PROCESS APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: **System 3 – Primary Crushing**
Emission Unit Description: **Stacker Conveyor to Stockpiles**

Alternative Operating Scenario: ☐ Yes ☒ No

Insignificant Activity: ☐ Yes ☒ No If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☒ Yes ☐ No If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID Applicable for Renewal or Revision	eg. Unit ID: S2.001, PF1.001	PF1.007
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	3-05-025-05
	Manufacturer		McCloskey
	Date Manufactured		N/A
	Model Number		ST80
	Equipment Dimensions (LxWxH)	feet	80L x 3W
	Drop Length if applicable	feet	3.0
	Drop Height if applicable	feet	2.0
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. Choose one, if applicable		
	Drop Horizontal Dimension 1 if applicable	feet	N/A
	Drop Horizontal Dimension 2 if applicable	feet	N/A
	Emissions Released Inside building?		yes/no
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,011,453
	UTM Easting (NAD 83, Zone 11)	m	592,974
Operating Parameters	Material Type Processed		Sand & Gravel
	Batch Process if applicable	unit /batch	N/A
	Start Time if operating less than 24 hours/day	hour:minute	12:00 am
	End Time if operating less than 24 hours/day	hour:minute	12:00 am
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? If "yes", attach manufacturer's sheets immediately after these forms.	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate If not included in detailed calculations.	dscfm	N/A
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

Throughput will be monitored by counting loader buckets of material and multiplying by the known loader bucket capacity.

INDUSTRIAL PROCESS APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: **System 4 – Wash Plant**

Emission Unit Description: **Loader to Wash Plant Hopper**

Alternative Operating Scenario: ☐ Yes ☒ No

Insignificant Activity: ☐ Yes ☒ No If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☒ Yes ☐ No If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID Applicable for Renewal or Revision	eg. Unit ID: S2.001, PF1.001	PF1.008
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	3-05-025-06
	Manufacturer		Masaba
	Date Manufactured		Unknown
	Model Number		N/A
	Equipment Dimensions (LxWxH)	feet	9W x 16L
	Drop Length if applicable	feet	5.0
	Drop Height if applicable	feet	1.0
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. Choose one, if applicable		
	Drop Horizontal Dimension 1 if applicable	feet	N/A
	Drop Horizontal Dimension 2 if applicable	feet	N/A
	Emissions Released Inside building?		yes/no
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,011,473
	UTM Easting (NAD 83, Zone 11)	m	592,968
Operating Parameters	Material Type Processed		Sand & Gravel
	Batch Process if applicable	unit /batch	N/A
	Start Time if operating less than 24 hours/day	hour:minute	12:00 am
	End Time if operating less than 24 hours/day	hour:minute	12:00 am
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? If "yes", attach manufacturer's sheets immediately after these forms.	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate If not included in detailed calculations.	dscfm	N/A
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

Throughput will be monitored by counting loader buckets of material and multiplying by the known loader bucket capacity.

INDUSTRIAL PROCESS APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: **System 4 – Wash Plant**

Emission Unit Description: **Transfer from Hopper to Wash Plant**

Alternative Operating Scenario: ☐ Yes ☒ No

Insignificant Activity: ☐ Yes ☒ No If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☒ Yes ☐ No If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID Applicable for Renewal or Revision	eg. Unit ID: S2.001, PF1.001	PF1.009
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	3-05-025-99
	Manufacturer		Masaba
	Date Manufactured		Unknown
	Model Number		N/A
	Equipment Dimensions (LxWxH)	feet	44L x 11W x 14H
	Drop Length if applicable	feet	N/A
	Drop Height if applicable	feet	1.0
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. Choose one, if applicable		
	Drop Horizontal Dimension 1 if applicable	feet	N/A
	Drop Horizontal Dimension 2 if applicable	feet	N/A
	Emissions Released Inside building?		yes/no
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,011,473
	UTM Easting (NAD 83, Zone 11)	m	592,974
Operating Parameters	Material Type Processed		Sand & Gravel
	Batch Process if applicable	unit /batch	N/A
	Start Time if operating less than 24 hours/day	hour:minute	12:00 am
	End Time if operating less than 24 hours/day	hour:minute	12:00 am
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? If "yes", attach manufacturer's sheets immediately after these forms.	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	Feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate If not included in detailed calculations.	dscfm	N/A
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

Throughput will be monitored by counting loader buckets of material and multiplying by the known loader bucket capacity.

COMBUSTION EQUIPMENT APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: System 5 –Generator Power
Emission Unit Description: 416 HP Crusher Power Unit

Alternative Operating Scenario: ☐ Yes ☒ No

Insignificant Activity: ☐ Yes ☒ No If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☒ Yes ☐ No If yes, identify in process narrative. _____

Description			Data
Equipment Description	BAPC Emission Unit ID Applicable for Renewal or Revision	eg. Unit ID: S2.001	S2.001
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	2-01-001-02
	Manufacturer		Caterpillar
	Date Manufactured		2014+
	Model and Serial Number		Model: C9.3 SN: TBD
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		NECI
	Date Constructed	month/day/yr	2014+
	Cylinder Displacement	liter/cylinder	9.3
	EPA Tier #		Tier 4 Final
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,011,453
	UTM Easting (NAD 83, Zone 11)	m	592,974
Operating Parameters /Fuel Usage	Fuel Type		Diesel
	Fuel Flow Meter Installed?	yes/no/NA	No
	Sulfur Content	%	0.0015
	Heat Content	Btu/unit	138,000 BTU/gal
	Start Time if operating less than 24 hours/day	hour:minute	12:00 am
	End Time if operating less than 24 hours/day	hour:minute	12:00 am
Control Equipment	Manufacturer		Isuzu
	Manufacturer's Guarantee Included? If "yes", attach manufacturer's sheets immediately after these forms.	yes/N/A	N/A
Stack Parameters	Stack Height	feet	7
	Stack Inside Diameter	feet	0.29
	Stack Temperature	°F	1,350
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	2,600
	Dry Gas Volume Flow Rate If not included in detailed calculations.	dscfm	2,600
	Stack Release Type	☐ vertical ☐ capped ☒ horizontal	

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM CLASS II OPERATING PERMIT (continued)

Emission Unit Description:

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).

Maximum fuel consumption rate supplied by manufacturer

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:

☐ Yes ☒ No

COMBUSTION EQUIPMENT APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: System 5 –Generator Power
Emission Unit Description: 134 HP 3-Deck Screen Power Unit

Alternative Operating Scenario: ☐ Yes ☒ No

Insignificant Activity: ☐ Yes ☒ No If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☒ Yes ☐ No If yes, identify in process narrative. _____

Description			Data
Equipment Description	BAPC Emission Unit ID Applicable for Renewal or Revision	eg. Unit ID: S2.001	S2.002
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	2-01-001-02
	Manufacturer		Caterpillar
	Date Manufactured		2014+
	Model and Serial Number		Model: C3.6 SN: TBD
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		NECI
	Date Constructed	month/day/yr	2014+
	Cylinder Displacement	liter/cylinder	3.6
	EPA Tier #		Tier 4
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,011,453
	UTM Easting (NAD 83, Zone 11)	m	592,974
Operating Parameters /Fuel Usage	Fuel Type		Diesel
	Fuel Flow Meter Installed?	yes/no/NA	No
	Sulfur Content	%	0.0015
	Heat Content	Btu/unit	138,000 BTU/gal
	Start Time if operating less than 24 hours/day	hour:minute	12:00 am
	End Time if operating less than 24 hours/day	hour:minute	12:00 am
Control Equipment	Manufacturer		Isuzu
	Manufacturer's Guarantee Included? If "yes", attach manufacturer's sheets immediately after these forms.	yes/N/A	N/A
Stack Parameters	Stack Height	feet	5
	Stack Inside Diameter	feet	0.13
	Stack Temperature	°F	1,218
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	715
	Dry Gas Volume Flow Rate If not included in detailed calculations.	dscfm	715
	Stack Release Type	☐ vertical ☐ capped ☒ horizontal	

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM CLASS II OPERATING PERMIT (continued)

Emission Unit Description:

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).

Maximum fuel consumption rate supplied by manufacturer

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:

☐ Yes ☒ No

COMBUSTION EQUIPMENT APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: **System 5 –Generator Power**
Emission Unit Description: **109 HP 2-Deck Screen Power Unit**

Alternative Operating Scenario: ☐ Yes ☒ No

Insignificant Activity: ☐ Yes ☒ No If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☒ Yes ☐ No If yes, identify in process narrative. _____

Description			Data
Equipment Description	BAPC Emission Unit ID Applicable for Renewal or Revision	eg. Unit ID: S2.001	S2.003
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	2-01-001-02
	Manufacturer		Deutz
	Date Manufactured		Pre - 2003
	Model and Serial Number		Model: BF4M1012C SN: TBD
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		NECI
	Date Constructed	month/day/yr	Pre - 2003
	Cylinder Displacement	liter/cylinder	3.19
	EPA Tier #		Tier 1
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,011,453
	UTM Easting (NAD 83, Zone 11)	m	592,974
Operating Parameters /Fuel Usage	Fuel Type		Diesel
	Fuel Flow Meter Installed?	yes/no/NA	No
	Sulfur Content	%	0.0015
	Heat Content	Btu/unit	138,000 BTU/gal
	Start Time if operating less than 24 hours/day	hour:minute	12:00 am
	End Time if operating less than 24 hours/day	hour:minute	12:00 am
Control Equipment	Manufacturer		Isuzu
	Manufacturer's Guarantee Included? If "yes", attach manufacturer's sheets immediately after these forms.	yes/N/A	N/A
Stack Parameters	Stack Height	feet	5
	Stack Inside Diameter	feet	0.13
	Stack Temperature	°F	1,160
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	620
	Dry Gas Volume Flow Rate If not included in detailed calculations	dscfm	620
	Stack Release Type	☐ vertical ☐ capped ☒ horizontal	

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM CLASS II OPERATING PERMIT (continued)

Emission Unit Description:

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).

Maximum fuel consumption rate supplied by manufacturer

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:

☐ Yes ☒ No

COMBUSTION EQUIPMENT APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: **System 5 –Generator Power**

Emission Unit Description: **60 HP Stacker Power Unit**

Alternative Operating Scenario: ☐ Yes ☒ No

Insignificant Activity: ☐ Yes ☒ No If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☒ Yes ☐ No If yes, identify in process narrative. _____

Description			Data
Equipment Description	BAPC Emission Unit ID Applicable for Renewal or Revision	eg. Unit ID: S2.001	S2.004
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	2-01-001-02
	Manufacturer		Caterpillar
	Date Manufactured		2014+
	Model and Serial Number		Model: 2.2B SN: TBD
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		NECI
	Date Constructed	month/day/yr	2014+
	Cylinder Displacement	liter/cylinder	2.2
	EPA Tier #		Tier 4 Final
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,011,453
	UTM Easting (NAD 83, Zone 11)	m	592,974
Operating Parameters /Fuel Usage	Fuel Type		Diesel
	Fuel Flow Meter Installed?	yes/no/NA	No
	Sulfur Content	%	0.0015
	Heat Content	Btu/unit	138,000 BTU/gal
	Start Time if operating less than 24 hours/day	hour:minute	12:00 am
	End Time if operating less than 24 hours/day	hour:minute	12:00 am
Control Equipment	Manufacturer		Isuzu
	Manufacturer's Guarantee Included? If "yes", attach manufacturer's sheets immediately after these forms.	yes/N/A	N/A
Stack Parameters	Stack Height	feet	5
	Stack Inside Diameter	feet	0.17
	Stack Temperature	°F	1,020
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	300
	Dry Gas Volume Flow Rate If not included in detailed calculations.	dscfm	300
	Stack Release Type	☒ vertical ☐ capped ☐ horizontal	

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM CLASS II OPERATING PERMIT (continued)

Emission Unit Description:

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).

Maximum fuel consumption rate supplied by manufacturer

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:

☐ Yes ☒ No

COMBUSTION EQUIPMENT APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: System 5 – Portable Generator
Emission Unit Description: 33.3 HP Portable Diesel Generator

Alternative Operating Scenario: ☐ Yes ☒ No

Insignificant Activity: ☐ Yes ☒ No If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☒ Yes ☐ No If yes, identify in process narrative. _____

Description			Data
Equipment Description	BAPC Emission Unit ID Applicable for Renewal or Revision	eg. Unit ID: S2.001	S2.005
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	2-01-001-02
	Manufacturer	Allmand Bros.	
	Date Manufactured	2021	
	Model and Serial Number	MN: Maxi-Power25 (MP25) SN: 4TCSU2511KHM00635	
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)	NECI	
	Date Constructed	month/day/yr	2021
	Cylinder Displacement	liter/cylinder	2.2
	EPA Tier #	Tier 4 Final	
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,011,453
	UTM Easting (NAD 83, Zone 11)	m	592,974
Operating Parameters / Fuel Usage	Fuel Type	Diesel	
	Fuel Flow Meter Installed?	yes/no/NA	No
	Sulfur Content	%	0.0015
	Heat Content	Btu/unit	138,000 BTU/gal
	Start Time if operating less than 24 hours/day	hour:minute	12:00 am
	End Time if operating less than 24 hours/day	hour:minute	12:00 am
Control Equipment	Manufacturer	Isuzu	
	Manufacturer's Guarantee Included? If "yes", attach manufacturer's sheets immediately after these forms.	yes/N/A	N/A
Stack Parameters	Stack Height	feet	5
	Stack Inside Diameter	feet	0.17
	Stack Temperature	°F	894
	Stack Exit Velocity	feet/second	146
	Actual Gas Volume Flow Rate	acfm	191
	Dry Gas Volume Flow Rate If not included in detailed calculations.	dscfm	191
	Stack Release Type	☒ vertical ☐ capped ☐ horizontal	

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM CLASS II OPERATING PERMIT (continued)

Emission Unit Description:

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).

Maximum fuel consumption rate supplied by manufacturer

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:

☐ Yes ☒ No

LIQUID STORAGE TANK APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: **System 6 – Fuel Tank**

Emission Unit Description: **1,000 Gallon Diesel Fuel Tank**

Alternative Operating Scenario: ☐ Yes ☒ No

Insignificant Activity: ☒ Yes ☐ No If yes, identify exemption regulation: NAC 445B.288.2.(d)

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ Yes ☒ No If yes, identify in process narrative.

Description		Data
Equipment Description	BAPC Emission Unit ID and System Number <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001 System Number: 5 IA1.001
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors 4-06-004-01
	Manufacturer	N/A
	Date Manufactured	N/A
	Model Number	N/A
	Heated Tank	yes/no No
	Shell Height	feet 12
	Shell Diameter	feet 4
	Maximum Liquid Height	feet 5.75
	Average Liquid Height	feet 5.75
	Capacity of Tank	gallons 1,000
	Shell Color	White
	Roof Condition	good/poor Good
	Roof Type (Cone, Dome, External, or Internal Floating Roof)	N/A
	Roof Height	feet 11
	Cone Roof Slope	N/A
	Dome Roof Radius	feet N/A
	True Vapor Pressure of Liquid	psig N/A
	Reid Vapor Pressure of Liquid	psig 13.6
	Orientation of Tank	Horizontal/Vertical Horizontal
Location of Emission Source	Submerged Fill [NAC 445B.22093(3)]	yes/no No
	Equipment Dimensions (LxWxH)	feet 11L x 4D
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m 4,011,453
	UTM Easting (NAD 83, Zone 11)	m 592,974

LIQUID STORAGE TANK APPLICATION FORM CLASS II OPERATING PERMIT (CONTINUED)

Emission Unit Description:

Description			Data
Operating Parameters	Material Type		Diesel
	Operating Time per Year	hour/year	8,760
	Maximum Throughput	gallon/month	2,200
	Maximum Throughput	gallon/year	26,400
Control Equipment	Type of Control		NA
	Control Efficiency	%	NA
	Pollutant(s) Controlled		NA
	Manufacturer		NA
	Manufacturer's Guarantee Included?	yes/N/A	NA
Volatile Organic Compounds (VOC) Emissions	Emission Limit	ton/year	1.89E-04
Other Pollutants (HAP)	Emission Factor (with units)	(lb/yr)	0.379
	Emission Factor Reference		TANKs 5.2
	Emission Limit	pound/hour	4.33E-05
	Emission Limit	ton/year	1.89E-04

INDUSTRIAL PROCESS AND STORAGE SILO DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Throughput		Controls		Emissions					Reference
		Daily	Annual	Tons/hour	Tons/year	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
System 1 - Transfer													
PF1.001	Loader to Hopper	24	8,760	290	300,000	NA	0%	PM	0.003	lb/ton	0.87	0.45	NDEP Guidance on Emission Factors for the Mining Industry, May 31, 2017
								PM ₁₀	0.0011	lb/ton	0.32	0.17	
								PM _{2.5}	0.00017	lb/ton	0.049	0.026	
System 2 - Screening													
PF1.002	2-Deck Screen and Associated Transfers In and Out	24	8,760	290	300,000	Water Sprays	75%	PM	0.025	lb/ton	1.81	0.94	NDEP Guidance on Emission Factors for the Mining Industry, May 31, 2017
								PM ₁₀	0.0087	lb/ton	0.63	0.33	
								PM _{2.5}	0.0013	lb/ton	0.094	0.049	
PF1.003	2-Deck Screen to Undersized Stockpile	24	8,760	44	30,000	Water Sprays	75%	PM	0.003	lb/ton	0.033	0.011	NDEP Guidance on Emission Factors for the Mining Industry, May 31, 2017
								PM ₁₀	0.0011	lb/ton	0.048	0.017	
								PM _{2.5}	0.00017	lb/ton	7.40E-03	2.55E-03	
PF1.004	3-Deck Screen and Associated Transfers In and Out	24	8,760	435	465,000	Water Sprays	75%	PM	0.025	lb/ton	1.81	0.94	NDEP Guidance on Emission Factors for the Mining Industry, May 31, 2017
								PM ₁₀	0.0087	lb/ton	0.63	0.33	
								PM _{2.5}	0.0013	lb/ton	0.094	0.049	
System 3 - Primary Crushing													
PF1.005	Cone Crusher and Associated Transfers In and Out	24	8,760	145	165,000	Water Sprays	75%	PM	0.0054	lb/ton	0.20	0.11	NDEP Guidance on Emission Factors for the Mining Industry, May 31, 2017
								PM ₁₀	0.0024	lb/ton	0.087	0.050	
								PM _{2.5}	0.0004	lb/ton	0.015	8.25E-03	
PF1.006	Recycle Conveyor to 3-Deck Screen	24	8,760	145	165,000	Water Sprays	75%	PM	0.003	lb/ton	0.11	0.062	NDEP Guidance on Emission Factors for the Mining Industry, May 31, 2017
								PM ₁₀	0.0011	lb/ton	0.040	0.023	
								PM _{2.5}	0.00017	lb/ton	6.16E-03	3.51E-03	
PF1.007	Stacker Conveyor to Stockpiles	24	8,760	290	300,000	Water Sprays	75%	PM	0.003	lb/ton	0.22	0.11	NDEP Guidance on Emission Factors for the Mining Industry, May 31, 2017
								PM ₁₀	0.0011	lb/ton	0.080	0.041	
								PM _{2.5}	0.00017	lb/ton	0.012	6.38E-03	
System 4 - Wash Plant													
PF1.008	Loader to Wash Plant Hopper	24	8,760	400	300,000	N/A	0%	PM	0.003	lb/ton	1.20	0.45	NDEP Guidance on Emission Factors for the Mining Industry, May 31, 2017
								PM ₁₀	0.0011	lb/ton	0.44	0.17	
								PM _{2.5}	0.00017	lb/ton	0.068	0.026	
PF1.009	Transfer from Hopper to Wash Plant	24	8,760	400	300,000	N/A	0%	Wet Process - No Emissions					

COMBUSTION EQUIPMENT DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Heat Input (MMBtu)		Fuel Usage			Power Output		Controls		Emissions					Reference
		Daily	Annual	Hourly	Annual	Hourly	Annual	Units	Amount	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
System 5 - Generator Power																		
S2.001	416 HP Crusher Power Unit	24	8,760	2.91	25,509	21.10	184,849	gallon	416	hp	N/A	N/A	PM	0.02	g/kW-hr	0.014	0.060	EPA-420-B-16-022, Nonroad Compression-Ignition Engines' Exhaust Emission Standards
													PM ₁₀	0.02	g/kW-hr	0.014	0.060	
													PM _{2.5}	0.02	g/kW-hr	0.014	0.060	
													SO ₂	1.21E-05	lb/hp-hr	0.010	0.022	AP-42, Table 3.3-1
													NOx	0.40	g/kW-hr	0.27	1.20	EPA-420-B-16-022, Nonroad Compression-Ignition Engines' Exhaust Emission Standards
													CO	3.5	g/kW-hr	2.39	10.48	
													VOC	0.19	g/kW-hr	0.13	0.57	
													Pb	n/a	n/a	n/a	n/a	n/a
													Hg	n/a	n/a	n/a	n/a	n/a
H ₂ S	n/a	n/a	n/a	n/a	n/a													
S2.002	134 HP 3-Deck Screen Power Unit	24	8,760	0.94	8,217	6.80	59,543	gallon	134	hp	N/A	N/A	PM	0.02	g/kW-hr	0.010	0.019	EPA-420-B-16-022, Nonroad Compression-Ignition Engines' Exhaust Emission Standards
													PM ₁₀	0.02	g/kW-hr	0.010	0.019	
													PM _{2.5}	0.02	g/kW-hr	0.010	0.019	
													SO ₂	1.21E-05	lb/hp-hr	0.010	0.010	AP-42, Table 3.3-1
													NOx	0.40	g/kW-hr	0.088	0.39	EPA-420-B-16-022, Nonroad Compression-Ignition Engines' Exhaust Emission Standards
													CO	3.5	g/kW-hr	0.77	3.38	
													VOC	0.19	g/kW-hr	0.042	0.18	
													Pb	n/a	n/a	n/a	n/a	n/a
													Hg	n/a	n/a	n/a	n/a	n/a
H ₂ S	n/a	n/a	n/a	n/a	n/a													
S2.003	109 HP 2-Deck Screen Power Unit	24	8,760	0.76	6,684	5.53	48,434	gallon	109	hp	N/A	N/A	PM	2.20E-03	lb/hp-hr	0.24	1.05	AP-42, Table 3.3-1
													PM ₁₀	2.20E-03	lb/hp-hr	0.24	1.05	AP-42, Table 3.3-1
													PM _{2.5}	2.20E-03	lb/hp-hr	0.24	1.05	AP-42, Table 3.3-1
													SO ₂	1.21E-05	lb/hp-hr	0.010	0.010	AP-42, Table 3.3-1
													NOx	3.10E-02	lb/hp-hr	3.38	14.80	AP-42, Table 3.3-1
													CO	6.68E-03	lb/hp-hr	0.73	3.19	AP-42, Table 3.3-1
													VOC	2.51E-03	lb/hp-hr	0.27	1.20	AP-42, Table 3.3-1
													Pb	n/a	n/a	n/a	n/a	n/a
													Hg	n/a	n/a	n/a	n/a	n/a
H ₂ S	n/a	n/a	n/a	n/a	n/a													

COMBUSTION EQUIPMENT DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Heat Input (MMBtu)		Fuel Usage			Power Output		Controls		Emissions					Reference	
		Daily	Annual	Hourly	Annual	Hourly	Annual	Units	Amount	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)		
System 5 - Generator Power																			
S2.004	60 HP Stacker Power Unit	24	8,760	0.42	3,679.2	3.04	26,661	gallon	60	hp	N/A	N/A	PM	0.02	g/kW-hr	0.010	0.010	EPA-420-B-16-022, Nonroad Compression-Ignition Engines: Exhaust Emission Standards	
													PM ₁₀	0.02	g/kW-hr	0.010	0.010		
													PM _{2.5}	0.02	g/kW-hr	0.010	0.010		
													SO ₂	1.21E-05	lb/hp-hr	0.010	0.010	AP-42, Table 3.3-1	
													NOx	0.40	g/kW-hr	0.040	0.17	EPA-420-B-16-022, Nonroad Compression-Ignition Engines: Exhaust Emission Standards	
													CO	5.0	g/kW-hr	0.49	2.16		
													VOC	0.19	g/kW-hr	0.020	0.080		
													Pb	n/a	n/a	n/a	n/a	n/a	
													Hg	n/a	n/a	n/a	n/a	n/a	
H ₂ S	n/a	n/a	n/a	n/a	n/a														
S2.005	33.3 HP Portable Diesel Generator	24	8,760	0.22	1,934.2	1.60	14,016	gallon	33.3	hp	N/A	N/A	PM	0.03	g/kW-hr	0.010	0.010	EPA-420-B-16-022, Nonroad Compression-Ignition Engines: Exhaust Emission Standards	
													PM ₁₀	0.03	g/kW-hr	0.010	0.010		
													PM _{2.5}	0.03	g/kW-hr	0.010	0.010		
													SO ₂	1.21E-05	lb/hp-hr	0.010	0.010	AP-42, Table 3.3-1	
													NOx	4.7	g/kW-hr	0.26	1.13	EPA-420-B-16-022, Nonroad Compression-Ignition Engines: Exhaust Emission Standards	
													CO	5.5	g/kW-hr	0.30	1.32		
													VOC	2.51E-03	lb/hp-hr	0.08	0.37		
													Pb	n/a	n/a	n/a	n/a	n/a	
													Hg	n/a	n/a	n/a	n/a	n/a	
H ₂ S	n/a	n/a	n/a	n/a	n/a														

GREENHOUSE GASES (GHG) DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Heat Input (MMBtu)		Fuel Usage			Controls		Emissions						Reference
		Daily	Annual	Hourly	Annual	Hourly	Annual	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	GWP Multiplier	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
System 5 - Generator Power																	
S2.001	416 HP Crusher Power Unit	24	8,760	2.91	25,509	21.1	184,849	gallon	N/A	N/A	CO ₂	73.96	1	kg/MMBtu	474.8	2,080	40 CFR Part 98
											CH ₄	3.0E-03	28	kg/MMBtu	0.54	2.36	
											N ₂ O	6.0E-04	265	kg/MMBtu	1.02	4.47	
S2.002	134 HP 3-Deck Screen Power Unit	24	8,760	0.94	8,217	6.8	59,543	gallon	N/A	N/A	CO ₂	73.96	1	kg/MMBtu	152.9	670	40 CFR Part 98
											CH ₄	3.0E-03	28	kg/MMBtu	0.17	0.76	
											N ₂ O	6.0E-04	265	kg/MMBtu	0.33	1.44	
S2.003	109 HP 2-Deck Screen Power Unit	24	8,760	0.76	6,684	5.5	48,434	gallon	N/A	N/A	CO ₂	73.96	1	kg/MMBtu	124.4	545	40 CFR Part 98
											CH ₄	3.0E-03	28	kg/MMBtu	0.14	0.62	
											N ₂ O	6.0E-04	265	kg/MMBtu	0.27	1.17	
S2.004	60 HP Stacker Power Unit	24	8,760	0.42	3,679	3.0	26,661	gallon	N/A	N/A	CO ₂	73.96	1	kg/MMBtu	68.5	300	40 CFR Part 98
											CH ₄	3.0E-03	28	kg/MMBtu	0.078	0.34	
											N ₂ O	6.0E-04	265	kg/MMBtu	0.15	0.64	
S2.005	33.3 HP Portable Diesel Generator	24	8,760	0.22	1,934	1.6	14,016	gallon	N/A	N/A	CO ₂	73.96	1	kg/MMBtu	36.0	158	40 CFR Part 98
											CH ₄	3.0E-03	28	kg/MMBtu	0.041	0.18	
											N ₂ O	6.0E-04	265	kg/MMBtu	0.077	0.34	

HAZARDOUS AIR POLLUTANTS (HAPS) DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Heat Input (lb/MMBtu)		Fuel Usage			Controls		Emissions					Reference
		Daily	Annual	Hourly	Annual	Hourly	Annual	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
System 05 - Generator Power																
S2.001	416 HP Crusher Power Unit	24	8760	2.91	25,509	21.1	184,849	gallon	N/A	N/A	Totals HAPS	N/A	N/A	1.61E-02	7.04E-02	Refer to Hazardous Air Pollutants - Diesel-Fired Equipment Worksheet
S2.002	134 HP 3-Deck Screen Power Unit	24	8,760	0.94	8,217	6.8	59,543	gallon	N/A	N/A	Totals HAPS	N/A	N/A	5.18E-03	2.27E-02	Refer to Hazardous Air Pollutants - Diesel-Fired Equipment Worksheet
S2.003	109 HP 2-Deck Screen Power Unit	24	8760	0.76	6,684	5.53	48,434	gallon	N/A	N/A	Totals HAPS	N/A	N/A	4.21E-03	1.84E-02	Refer to Hazardous Air Pollutants - Diesel-Fired Equipment Worksheet
S2.004	60 HP Stacker Power Unit	24	8760	0.42	3,679	3.04	26,661	gallon	N/A	N/A	Totals HAPS	N/A	N/A	2.32E-03	1.02E-02	Refer to Hazardous Air Pollutants - Diesel-Fired Equipment Worksheet
S2.005	33.3 HP Portable Diesel Generator	24	8,760	0.22	1,934	1.60	14,016	gallon	N/A	N/A	Totals HAPS	N/A	N/A	1.22E-03	5.34E-03	Refer to Hazardous Air Pollutants - Diesel-Fired Equipment Worksheet
IA1.001	1,000 Gallon Diesel Fuel Tank	24	8,760	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Totals HAPS	N/A	N/A	4.33E-05	1.89E-04	Refer to VOC and HAP Emissions - Tanks Worksheet

FACILITY-WIDE POTENTIAL TO EMIT TABLE
(FOR ALL SOURCES INCLUDING INSIGNIFICANT ACTIVITIES)
(POUND/HOUR AND TON/YEAR)

Pollutant	Facility-Wide Potential to Emit (pound/hour)	Facility-Wide Potential to Emit (ton/year)
Total Particulate Matter (PM)	6.53	4.22
Total PM ₁₀	2.56	2.26
Total PM _{2.5}	0.63	1.32
Total Sulfur Dioxide (SO ₂)	0.050	0.062
Total Oxides of Nitrogen (NO _x)	4.04	17.69
Total Carbon Monoxide (CO)	4.68	20.53
Total Volatile Organic Compounds (VOC)	0.55	2.40
Total Lead (Pb)		
Total Hydrogen Sulfide (H ₂ S)		
Total Sulfuric Acid Mist (H ₂ SO ₄)		
Total Hazardous Air Pollutants (HAPs)	0.029	0.13
Total Greenhouse Gases (CO _{2e})	859	3,764
Other Regulated Pollutants (Specify)		

SURFACE AREA DISTURBANCE FORM

1. Total Acres of the Facility Site: 41.5 Acres
2. Total Acres Disturbed: 41.5 Acres
3. Add Surface Area Disturbance location as Township(s), Range(s) and Section
Section 1, T 20S, R 53E
4. NAC 445B.22037 requires fugitive dust to be controlled (regardless of the size or amount of acreage disturbed), and requires an ongoing program, using best practical methods, to prevent particulate matter from becoming airborne. All activities which have the potential to adversely affect the local air quality must implement all appropriate measures to limit controllable emissions. Appropriate measures for dust control may consist of a phased approach to acreage disturbance rather than disturbing the entire area all at once; using wet suppression through such application methods as water trucks or water spray systems to control wind-blown dust; the application of soil binding agents or chemical surfactant to roadways and areas of disturbed soil; as well as the use of wind-break or wind limiting fencing designed to limit wind erosion soils.
5. If the Surface Area Disturbance is greater than 5 acres, please check each box that applies for Best Management Practices (BMPs) used for controlling dust on project's disturbed areas:
 - ☒ Water trucks
 - ☒ Graveling/paving of roadway storage areas and staging areas
 - ☐ Dust palliatives
 - ☒ Posting and limiting vehicle speeds to 10-15 miles per hour
 - ☒ Ceasing operations during high wind events
 - ☒ Fencing or berming to prevent unauthorized access to disturbed areas
 - ☒ Application of water sprays on material storage piles on a regular basis
 - ☐ Covering material storage piles with tarpaulin or geo-textiles; tenting
 - ☐ Use of overhead water spray racks or water hoses
 - ☒ Track-out controls (graveled entranced, exit area, and street sweeping)
 - ☐ Landscape preservation and impact avoidance
 - ☐ Wind fence
 - ☒ Pre-watering of areas to be disturbed (including all unpaved onsite roads and staging areas)
 - ☒ Inform all subcontractors (including truck drivers) of their responsibilities for the control of fugitive dust while they are on the project site
 - ☒ Training of equipment operators to recognize fugitive dust generation and having the authority to shut down operations until water truck arrives and sprays water on the disturbed areas
 - ☐ Other Applicable BMPs: Click or tap here to enter text.
 - ☐ Other Applicable BMPs: Click or tap here to enter text.
 - ☒ If using water trucks, list how many water trucks are used and their capacity in gallons:
One 4,000 Gallon Water Truck and one 2,000 Gallon Water Truck

PLANT BOUNDARY COORDINATES FORM

[illegible]

PLANT BUILDING PARAMETERS FORM if applicable

Building Parameters

Building Name: N/A

Building Tier : _____

Roof Height (ft): _____

Building Diameter (ft): _____

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing

Building Parameters

Building Name: _____

Building Tier : _____

Roof Height (ft): _____

Building Diameter⁴ (ft): _____

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing

APPLICATION CERTIFICATION DOCUMENT

(With Required Attachments)

Please check all applicable boxes below to indicate the information provided in your application submittal:

- ☒ General Company Information Form
- ☒ Industrial Process Application Form(s)
- ☒ Combustion Equipment Application Form(s)
- ☐ Storage Silos Application Form(s)
- ☒ Liquid Storage Tank Application Form(s)
- ☐ Manufacturer's Guarantee
- ☒ Facility-Wide Potential to Emit Table
- ☒ Surface Area Disturbance Form
- ☒ Plant Boundary Coordinates Form *if applicable*
- ☒ Plant Building Parameters Form *if applicable*
- ☒ Detailed Emission Calculations (for all emission units including IA units)
- ☐ Source Testing Data (if referenced in calculations)
- ☒ Process Narrative
- ☒ Process Flow Diagram(s)
- ☒ Site Plan(s) showing the locations (UTM coordinates), dimensions, and heights of buildings on the site
- ☒ Maps:
 - ☒ Vicinity Map of where the facility is located in the State
 - ☒ Area Map of the Facility (including location of all emission units, building locations (with UTM's), location of front gate, and fence line/site boundary (with UTM's))
- ☐ Environmental Evaluation (AERMOD Air Dispersion Modeling) *if applicable*
[NAC 445B.310]
- ☐ Manufacturer's Guarantee *if applicable*
- ☒ Equipment Specifications *if applicable*
- ☒ TANKs Modeling Output *if applicable*
- ☒ Application Fee Attached or Electronically Submitted
- ☐ Digital Copy of Application on CD or Thumb Drive
- ☒ Application Certification Document with Original Responsible Official Signature

APPLICATION CERTIFICATION DOCUMENT (CONTINUED)

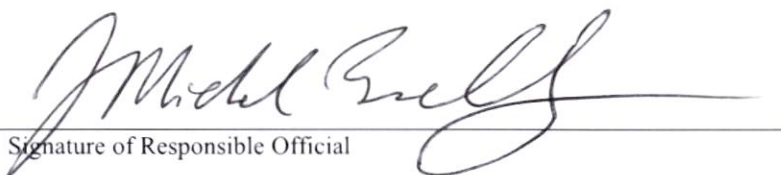
(With Required Attachments)

PLEASE NOTE THE FOLLOWING REQUIREMENTS WHICH APPLY TO PERMIT APPLICANTS DURING THE APPLICATION PROCESS:

- A. A permit applicant must submit supplementary facts or corrected information upon discovery [NAC 445B.297(1)(b)].
- B. A permit applicant is required to provide any additional information which the Director requests in writing within the time specified in the Director's request [NAC 445B.297(1)(c)].
- C. Submission of fraudulent data or other information may result in prosecution for an alleged criminal offense [NRS 445B.470].

CERTIFICATION:

I certify that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate and complete.



Signature of Responsible Official

J. Michael Bradley

Print or Type Name and Title

Date

9/9/26

DETAILED EMISSIONS CALCULATIONS

VOC AND HAP EMISSIONS - TANKS

Unit #	Unit Description	VOC	VOC	HAP	HAP	
		Emissions	Emissions	Emissions	Emissions	Emission
		(lb/hr)	(ton/yr)	(lb/hr)	(ton/yr)	Factor Reference
1A1.001	1,000 Gallon Diesel Fuel Tank	4.33E-05	1.89E-04	4.33E-05	1.89E-04	TANKs 5.2
	TOTAL EMISSIONS	4.33E-05	1.89E-04	4.33E-05	1.89E-04	

NOTE: HAP emissions are assumed to be equal to VOC emissions.

HAZARDOUS AIR POLLUTANTS - DIESEL-FIRED EQUIPMENT

Pollutant	Emission Factor lb/MMBtu	System 05, S2.001		System 05, S2.002		System 05, S2.003	
		Hourly Rate lb/hr	Annual Rate ton/yr	Hourly Rate lb/hr	Annual Rate ton/yr	Hourly Rate lb/hr	Annual Rate ton/yr
Benzene	9.33E-04	2.72E-03	1.19E-02	8.75E-04	3.83E-03	7.12E-04	3.12E-03
Toluene	4.09E-04	1.19E-03	5.22E-03	3.84E-04	1.68E-03	3.12E-04	1.37E-03
Xylenes	2.85E-04	8.30E-04	3.64E-03	2.67E-04	1.17E-03	2.17E-04	9.52E-04
Propylene	2.58E-03	7.51E-03	3.29E-02	2.42E-03	1.06E-02	1.97E-03	8.62E-03
1,3-Butadiene	3.91E-05	1.14E-04	4.99E-04	3.67E-05	1.61E-04	2.98E-05	1.31E-04
Formaldehyde	1.18E-03	3.44E-03	1.51E-02	1.11E-03	4.85E-03	9.00E-04	3.94E-03
Acetaldehyde	7.67E-04	2.23E-03	9.78E-03	7.19E-04	3.15E-03	5.85E-04	2.56E-03
Acrolein	9.25E-05	2.69E-04	1.18E-03	8.68E-05	3.80E-04	7.06E-05	3.09E-04
Polycyclic aromatic hydrocarbons (PAH)							
Naphthalene	8.48E-05	2.47E-04	1.08E-03	7.95E-05	3.48E-04	6.47E-05	2.83E-04
Acenaphthylene	5.06E-06	1.47E-05	6.45E-05	4.75E-06	2.08E-05	3.86E-06	1.69E-05
Acenaphthene	1.42E-06	4.14E-06	1.81E-05	1.33E-06	5.83E-06	1.08E-06	4.75E-06
Fluorene	2.92E-05	8.50E-05	3.72E-04	2.74E-05	1.20E-04	2.23E-05	9.76E-05
Phenanthrene	2.94E-05	8.56E-05	3.75E-04	2.76E-05	1.21E-04	2.24E-05	9.83E-05
Anthracene	1.87E-06	5.45E-06	2.39E-05	1.75E-06	7.68E-06	1.43E-06	6.25E-06
Fluoranthene	7.61E-06	2.22E-05	9.71E-05	7.14E-06	3.13E-05	5.81E-06	2.54E-05
Pyrene	4.78E-06	1.39E-05	6.10E-05	4.48E-06	1.96E-05	3.65E-06	1.60E-05
Benz(a)anthracene	1.68E-06	4.89E-06	2.14E-05	1.58E-06	6.90E-06	1.28E-06	5.61E-06
Chrysene	3.53E-07	1.03E-06	4.50E-06	3.31E-07	1.45E-06	2.69E-07	1.18E-06
Benzo(b)fluoranthene	9.91E-08	2.89E-07	1.26E-06	9.30E-08	4.07E-07	7.56E-08	3.31E-07
Benzo(k)fluoranthene	1.55E-07	4.51E-07	1.98E-06	1.45E-07	6.37E-07	1.18E-07	5.18E-07
Benzo(a)pyrene	1.88E-07	5.47E-07	2.40E-06	1.76E-07	7.72E-07	1.43E-07	6.28E-07
Indeno(1,2,3-cd)pyrene	3.75E-07	1.09E-06	4.78E-06	3.52E-07	1.54E-06	2.86E-07	1.25E-06
Dibenzo(a,h)anthracene	5.83E-07	1.70E-06	7.44E-06	5.47E-07	2.40E-06	4.45E-07	1.95E-06
Benzo(g,h,i)perylene	4.89E-07	1.42E-06	6.24E-06	4.59E-07	2.01E-06	3.73E-07	1.63E-06
TOTAL HAPS EMISSIONS	6.45E-03	1.61E-02	7.04E-02	5.18E-03	2.27E-02	4.21E-03	1.84E-02

NOTES: HAP emission factors are from AP-42, Section 3.3, Table 3.3-2, October 1996

HAZARDOUS AIR POLLUTANTS - DIESEL-FIRED EQUIPMENT

Pollutant	System 05, S2.004		System 05, S2.005	
	Hourly Rate lb/hr	Annual Rate ton/yr	Hourly Rate lb/hr	Annual Rate ton/yr
Benzene	3.92E-04	1.72E-03	2.06E-04	9.02E-04
Toluene	1.72E-04	7.52E-04	9.03E-05	3.96E-04
Xylenes	1.20E-04	5.24E-04	6.29E-05	2.76E-04
Propylene	1.08E-03	4.75E-03	5.70E-04	2.50E-03
1,3-Butadiene	1.64E-05	7.19E-05	8.63E-06	3.78E-05
Formaldehyde	4.96E-04	2.17E-03	2.61E-04	1.14E-03
Acetaldehyde	3.22E-04	1.41E-03	1.69E-04	7.42E-04
Acrolein	3.89E-05	1.70E-04	2.04E-05	8.95E-05
Polycyclic aromatic hydrocarbons (PAH)				
Naphthalene	3.56E-05	1.56E-04	1.87E-05	8.20E-05
Acenaphthylene	2.13E-06	9.31E-06	1.12E-06	4.89E-06
Acenaphthene	5.96E-07	2.61E-06	3.14E-07	1.37E-06
Fluorene	1.23E-05	5.37E-05	6.45E-06	2.82E-05
Phenanthrene	1.23E-05	5.41E-05	6.49E-06	2.84E-05
Anthracene	7.85E-07	3.44E-06	4.13E-07	1.81E-06
Fluoranthene	3.20E-06	1.40E-05	1.68E-06	7.36E-06
Pyrene	2.01E-06	8.79E-06	1.06E-06	4.62E-06
Benz(a)anthracene	7.06E-07	3.09E-06	3.71E-07	1.62E-06
Chrysene	1.48E-07	6.49E-07	7.79E-08	3.41E-07
Benzo(b)fluoranthene	4.16E-08	1.82E-07	2.19E-08	9.58E-08
Benzo(k)fluoranthene	6.51E-08	2.85E-07	3.42E-08	1.50E-07
Benzo(a)pyrene	7.90E-08	3.46E-07	4.15E-08	1.82E-07
Indeno(1,2,3-cd)pyrene	1.58E-07	6.90E-07	8.28E-08	3.63E-07
Dibenzo(a,h)anthracene	2.45E-07	1.07E-06	1.29E-07	5.64E-07
Benzo(g,h,i)perylene	2.05E-07	9.00E-07	1.08E-07	4.73E-07
TOTAL HAPS EMISSIONS	2.32E-03	1.02E-02	1.22E-03	5.34E-03

NOTES: HAP emission factors are from AP-42, Section 3.3, Table 3.3-2, October 1996

EPA TANKS 5.2
Tank Identification and Physical Characteristics

Identification

Tank ID	Diesel Fuel Tank
City, State	Pahrump, Nevada
Company	Pahrump Valley Aggregates, LLC - Adkisson Q
Tank Type	Horizontal Fixed Roof Tank
Description	1,000 Gal Diesel Fuel Tank

Tank Characteristics

Shell Length (ft)	11.00
Shell Diameter (ft)	4.00
Annual Throughput (gal/yr)	26,400.00
Is Tank Heated?	No
Is Tank Insulated?	No
Shell Color/Shade	White
Shell Condition	Good
Annual Turnovers	320.8

Breather Vent Settings

Vacuum Setting (psig)	-0.03
Pressure Setting (psig)	0.03

Meteorological Data

Meteorological Location	Las Vegas, NV
Annual Average Atmospheric Pressure (psi)	13.6

EPA TANKS 5.2
Liquid Contents of Storage Tank

Diesel Fuel Tank
Pahrump, Nevada

Horizontal Fixed Roof Tank

Mixure/Component	Annual Average Liquid Surface Temperature (°F)				Annual Average Vapor Pressure (psia)				Annual Average Vapor Molecular Weight (lb/lb-mole)	Liquid Mole Fract	Mol. Weight
	Avg	Min	Max		Liquid Bulk Temp (°F)	Avg	Min	Max			
No. 2 Fuel Oil (Diesel)	72.09	66.93	77.26		70.95219	0.009274839	0.00786585	0.01090179	130		

EPA TANKS 5.2
Detail Calculations (AP-42)

Diesel Fuel Tank	Horizontal Fixed Roof Tank
Palbrump, Nevada	
Annual Emission Calculations	
Annual Standing Losses (lb/yr)	0.184869965
Annual Vapor Space Volume (cu ft)	69.11503838
Annual Stock Vapor Density (lb/cu ft)	0.00211324
Annual Average Vapor Space Expansion Factor	0.034704543
Annual Average Vented Vapor Saturation Factor	0.999228437
Tank Vapor Space Volume	
Annual Vapor Space Volume (cu ft)	69.11503838
Shell Diameter (ft)	4
Effective Diameter (ft)	7.484820637
Vapor Space Outage (ft)	1.570796327
Shell Length (ft)	11
Vapor Density	
Annual Stock Vapor Density (lb/cu ft)	0.00211324
Annual Average Vapor Molecular Weight (lb/lb-mole)	130
Annual Average Vapor Pressure at Daily Average Liquid Surface Temperature (psia)	0.009274939
Annual Average Liquid Surface Temp. (°F)	530.764864
Annual Average Ambient Temp. (°F)	528.72
Liquid Bulk Temperature (°F)	529.62719
Tank Paint Solar Absorptance (Shell)	0.17
Vapor Space Expansion Factor	
Annual Average Vapor Space Expansion Factor	0.034704543
Annual Average Vapor Temperature Range (°F)	20.6446
Annual Average Daily Vapor Pressure Range (psia)	0.003035935
Breather Vent Press. Setting Range (psia)	0.06
Annual Average Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia)	0.007868855
Annual Average Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia)	0.01090179
Annual Average Min. Liquid Surface Temp. (°F)	525.603814
Annual Average Max. Liquid Surface Temp. (°F)	535.926114
Annual Average Daily Ambient Temp. Range (°F)	20.9
Vented Vapor Saturation Factor	
Annual Average Vented Vapor Saturation Factor	0.999228437
Annual Average Vapor Pressure at Daily Average Liquid Surface Temperature (psia)	0.009274939
Vapor Space Outage (ft)	1.570796327
Annual Working Losses (lb/yr)	
Annual Working Losses (lb/yr)	0.194024055
Annual Average Vapor Molecular Weight (lb/lb-mole)	130
Annual Average Vapor Pressure at Daily Average Liquid Surface Temperature (psia)	0.009274939
Annual Throughput (gal/yr)	26400
Annual Turnovers	320.8
Working Loss Turnover Factor	0.260182876
Shell Diameter (ft)	4
Working Loss Product Factor	1
Annual Total Losses (lb/yr)	0.37889402

Horizontal Fixed Roof Tank

Nonroad Compression-Ignition Engines: Exhaust Emission Standards

	Rated Power (kW)	Tier	Model Year	NMHC (g/kW-hr)	NMHC + NOx (g/kW-hr)	NOx (g/kW-hr)	PM (g/kW-hr)	CO (g/kW-hr)	Smoke ^a (Percentage)	Useful Life (hours /years) ^b	Warranty Period (hours /years) ^b
Federal	kW < 8	1	2000-2004	-	10.5	-	1.0	8.0	20/15/50	3,000/5	1,500/2
		2	2005-2007	-	7.5	-	0.80	8.0			
		4	2008+	-	7.5	-	0.40 ^c	8.0			
	8 ≤ kW < 19	1	2000-2004	-	9.5	-	0.80	6.6		3,000/5	1,500/2
		2	2005-2007	-	7.5	-	0.80	6.6			
		4	2008+	-	7.5	-	0.40	6.6			
	19 ≤ kW < 37	1	1999-2003	-	9.5	-	0.80	5.5		5,000/7 ^d	3,000/5 ^e
		2	2004-2007	-	7.5	-	0.60	5.5			
		4	2008-2012	-	7.5	-	0.30	5.5			
			2013+	-	4.7	-	0.03	5.5			
	37 ≤ kW < 56	1	1998-2003	-	-	9.2	-	-		8,000/10	3,000/5
		2	2004-2007	-	7.5	-	0.40	5.0			
		3 ^f	2008-2011	-	4.7	-	0.40	5.0			
		4 (Option 1) ^g	2008-2012	-	4.7	-	0.30	5.0			
		4 (Option 2) ^g	2012	-	4.7	-	0.03	5.0			
		4	2013+	-	4.7	-	0.03	5.0			
	56 ≤ kW < 75	1	1998-2003	-	-	9.2	-	-			
		2	2004-2007	-	7.5	-	0.40	5.0			
		3	2008-2011	-	4.7	-	0.40	5.0			
		4	2012-2013 ^h	-	4.7	-	0.02	5.0			
			2014+ ⁱ	0.19	-	0.40	0.02	5.0			
	75 ≤ kW < 130	1	1997-2002	-	-	9.2	-	-			
		2	2003-2006	-	6.6	-	0.30	5.0			
		3	2007-2011	-	4.0	-	0.30	5.0			
		4	2012-2013 ^h	-	4.0	-	0.02	5.0			
			2014+	0.19	-	0.40	0.02	5.0			

Continued

	Rated Power (kW)	Tier	Model Year	NMHC (g/kW-hr)	NMHC + NOx (g/kW-hr)	NOx (g/kW-hr)	PM (g/kW-hr)	CO (g/kW-hr)	Smoke ^a (Percentage)	Useful Life (hours /years) ^b	Warranty Period (hours /years) ^b
Federal	130 ≤ kW < 225	1	1996-2002	1.3 ^j	-	9.2	0.54	11.4	20/15/50	8,000/10	3,000/5
		2	2003-2005	-	6.6	-	0.20	3.5			
		3	2006-2010	-	4.0	-	0.20	3.5			
		4	2011-2013 ^h	-	4.0	-	0.02	3.5			
			2014+ ⁱ	0.19	-	0.40	0.02	3.5			
	225 ≤ kW < 450	1	1996-2000	1.3 ^j	-	9.2	0.54	11.4			
		2	2001-2005	-	6.4	-	0.20	3.5			
		3	2006-2010	-	4.0	-	0.20	3.5			
		4	2011-2013 ^h	-	4.0	-	0.02	3.5			
			2014+ ⁱ	0.19	-	0.40	0.02	3.5			
	450 ≤ kW < 560	1	1996-2001	1.3 ^j	-	9.2	0.54	11.4			
		2	2002-2005	-	6.4	-	0.20	3.5			
		3	2006-2010	-	4.0	-	0.20	3.5			
		4	2011-2013 ^h	-	4.0	-	0.02	3.5			
			2014+ ⁱ	0.19	-	0.40	0.02	3.5			
	560 ≤ kW < 900	1	2000-2005	1.3 ^j	-	9.2	0.54	11.4			
		2	2006-2010	-	6.4	-	0.20	3.5			
		4	2011-2014	0.40	-	3.5 ^k	0.10	3.5			
			2015+ ⁱ	0.19	-	3.5 ^k	0.04 ^l	3.5			
	kW > 900	1	2000-2005	1.3 ^j	-	9.2	0.54	11.4			
		2	2006-2010	-	6.4	-	0.20	3.5			
		4	2011-2014	0.40	-	3.5 ^k	0.10	3.5			
			2015+ ⁱ	0.19	-	3.5 ^k	0.04 ^l	3.5			

Notes on following page.

Notes:

- For Tier 1, 2, and 3 standards, exhaust emissions of nitrogen oxides (NOx), carbon monoxide (CO), hydrocarbons (HC), and non-methane hydrocarbons (NMHC) are measured using the procedures in 40 Code of Federal Regulations (CFR) Part 89 Subpart E. For Tier 1, 2, and 3 standards, particulate matter (PM) exhaust emissions are measured using the California Regulations for New 1996 and Later Heavy-Duty Off-Road Diesel Cycle Engines.
- For Tier 4 standards, engines are tested for transient and steady-state exhaust emissions using the procedures in 40 CFR Part 1039 Subpart F. Transient standards do not apply to engines below 37 kilowatts (kW) before the 2013 model year, constant-speed engines, engines certified to Option 1, and engines above 560 kW.
- Tier 2 and later model naturally aspirated nonroad engines shall not discharge crankcase emissions into the atmosphere unless these emissions are permanently routed into the exhaust. This prohibition does not apply to engines using turbochargers, pumps, blowers, or superchargers.
- In lieu of the Tier 1, 2, and 3 standards for NOx, NMHC + NOx, and PM, manufacturers may elect to participate in the averaging, banking, and trading (ABT) program described in 40 CFR Part 89 Subpart C.
- a Smoke emissions may not exceed 20 percent during the acceleration mode, 15 percent during the lugging mode, and 50 percent during the peaks in either mode. Smoke emission standards do not apply to single-cylinder engines, constant-speed engines, or engines certified to a PM emission standard of 0.07 grams per kilowatt-hour (g/kW-hr) or lower. Smoke emissions are measured using procedures in 40 CFR Part 86 Subpart I.
- b Useful life and warranty period are expressed hours and years, whichever comes first.
- c Hand-startable air-cooled direct injection engines may optionally meet a PM standard of 0.60 g/kW-hr. These engines may optionally meet Tier 2 standards through the 2009 model years. In 2010 these engines are required to meet a PM standard of 0.60 g/kW-hr.
- d Useful life for constant speed engines with rated speed 3,000 revolutions per minute (rpm) or higher is 5 years or 3,000 hours, whichever comes first.
- e Warranty period for constant speed engines with rated speed 3,000 rpm or higher is 2 years or 1,500 hours, whichever comes first.
- f These Tier 3 standards apply only to manufacturers selecting Tier 4 Option 2. Manufacturers selecting Tier 4 Option 1 will be meeting those standards in lieu of Tier 3 standards.
- g A manufacturer may certify all their engines to either Option 1 or Option 2 sets of standards starting in the indicated model year. Manufacturers selecting Option 2 must meet Tier 3 standards in the 2008-2011 model years.
- h These standards are phase-out standards. Not more than 50 percent of a manufacturer's engine production is allowed to meet these standards in each model year of the phase out period. Engines not meeting these standards must meet the final Tier 4 standards.
- i These standards are phased in during the indicated years. At least 50 percent of a manufacturer's engine production must meet these standards during each year of the phase in. Engines not meeting these standards must meet the applicable phase-out standards.
- j For Tier 1 engines the standard is for total hydrocarbons.
- k The NOx standard for generator sets is 0.67 g/kW-hr.
- l The PM standard for generator sets is 0.03 g/kW-hr.

Citations: Code of Federal Regulations (CFR) citations:

- 40 CFR 89.112 = Exhaust emission standards
- 40 CFR 1039.101 = Exhaust emission standards for after 2014 model year
- 40 CFR 1039.102 = Exhaust emission standards for model year 2014 and earlier
- 40 CFR 1039 Subpart F = Exhaust emissions transient and steady state test procedures
- 40 CFR 86 Subpart I = Smoke emission test procedures
- 40 CFR 1065 = Test equipment and emissions measurement procedures

PROCESS NARRATIVE

PROCESS NARRATIVE

Pahrump Valley Aggregates, Adkisson Quarry is located in Nye County within Section 1, Township 20 South, Range 53 East in Hydrographic Area (HA) 162, Pahrump Valley/Nye County. HA 162 is currently unclassified for PM₁₀, PM_{2.5}, CO, NOx, SO₂, O₃, and lead criteria pollutants.

Pahrump Valley Aggregates, LLC owns and operates Adkisson Quarry. The facility processes pit-run gravel excavated on-site into graded aggregate products and also includes a gravel/sand wash plant. The facility operation is covered by Standard Industrial Classification (SIC) Code 1499, Miscellaneous Nonmetallic Minerals, Except Fuels, and North American Industry Classification System (NAICS) Code 212390, Other Nonmetallic Mineral Mining and Quarrying.

The crushing and screening process consists of a feeder/hopper, two (2) screens, cone crusher, and stacker. Material is fed through the feeder/hopper to a 2-deck screen, which performs pre-screening (scalping) to remove undersized material before directing the oversized fraction to a 3-deck screen which conveys the material to the cone crusher. The crusher discharge is returned to the 3-deck screen for re-screening, allowing oversized material to be recirculated to the crusher until the desired product size is achieved. Final product meeting the size specification is discharged from the 3-deck screen and conveyed by the radial stacker to the final product stockpile(s).

The crushing and screening circuit is equipped with water sprays for dust suppression to control fugitive dust emissions. The 2-deck screen and feeder/hopper incorporate enclosed or guarded conveyor transfer points and hopper design is intended to reduce material spillage and the generation of fugitive dust. The radial stacker provides controlled discharge height and hydraulic positioning, which reduces drop-height dust generation when building the final product stockpile(s).

The wash plant operation consists of a feeder/hopper, wash plant and final product stockpile(s). Fugitive dust emissions are expected from the feeder/hopper, however the wash plant is a wet process; therefore, fugitive dust emissions are negligible.

The facility equipment is powered by diesel power units, and a diesel-fired generator is utilized for scale house operations.

FEDERAL STANDARDS APPLICABILITY

System 5, S2.001, S2.002, S2.004, S2.005 – Equipment power units and the diesel-fired generator are subject to 40 CFR Part 60 Subpart IIII – New Source Performance Standards (NSPS) – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.

System 1 – 03, PF1.001 - PF1.006, Crushing and screening processes, are subject to 40 CFR Part 60 Subpart OOO – NSPS – Standards of Performance for Nonmetallic Mineral Processing Plants.

System 5, S2.003 – Equipment power unit is subject to 40 CFR Part 63 Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants (NESHAP) - Stationary Reciprocating Internal Combustion Engines.

INSIGNIFICANT ACTIVITIES

The following fuel tank is deemed insignificant pursuant to NAC 445b. 288.2.(d).

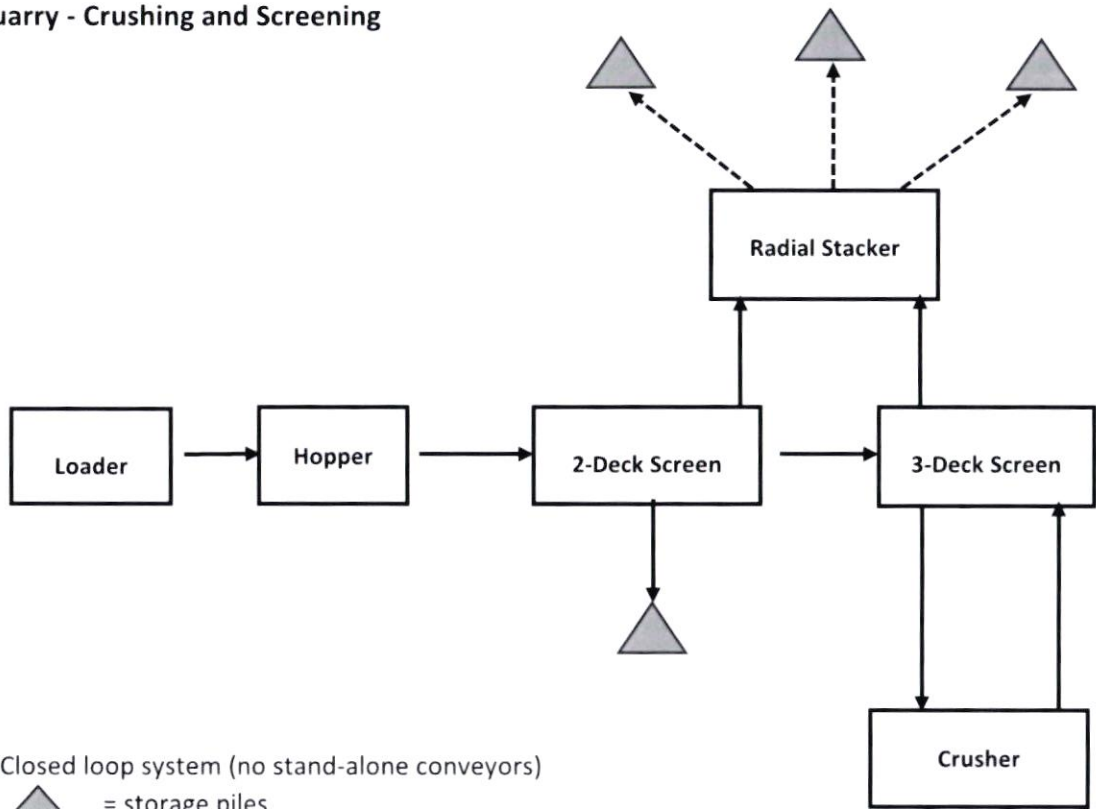
IA1.001 – 1,000 Gallon Diesel Fuel Tank

PROCESS FLOW DIAGRAMS

Pahrump Valley Aggregates, LLC

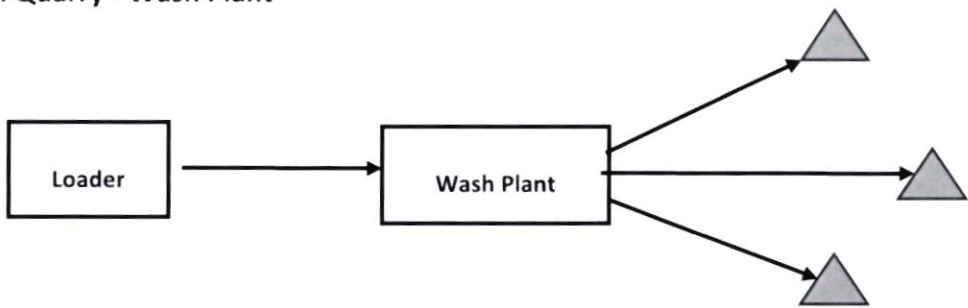
Facility ID: A2420

Adkisson Quarry - Crushing and Screening



- NOTES: 1) Closed loop system (no stand-alone conveyors)
2) ▲ = storage piles

Adkisson Quarry - Wash Plant



- NOTE: 1) ▲ = storage piles

SITE PLANS / MAPS

(Boundary Coordinate Information located in Application)

Area Map / Site Plan

Pahrump Valley Aggregates LLC
Adkisson Quarry

Crushing/Screening/
Wash Plant Operations

6 Inch Stockpile

1 Inch Stockpile

Survey
Google Earth

N

900 ft





ENVIRONMENTAL EVALUATION

NOT REQUIRED