



February 13, 2018

Chief, Permits Office (Air-3)
EPA Region 9 – Air Division
75 Hawthorne St.
San Francisco, CA 94105

Attention: Air Division Staff

Subject: General Air Quality Permit for New or Modified Minor Source Stone Quarrying, Crushing, and Screening Facilities in Indian Country Application
Oscar Renda Contracting, Inc.
Navajo Nation Crushing/Screening Operation
Navajo Nation – McKinley and San Juan Counties, New Mexico

To Whom It May Concern,

On behalf of Oscar Renda Contracting, Inc., we are submitting this General Air Quality Permit for New or Modified Minor Source Stone Quarrying, Crushing, and Screening Facilities in Indian Country application to authorize the construction/operation of the subject facility to support a pipeline project within the Navajo Nation in McKinley and San Juan Counties, New Mexico. The required forms, maps, and supporting documents are attached. Oscar Renda Contracting, Inc. will satisfy all applicable requirements of the General Air Quality Permit for New or Modified Minor Source Stone Quarrying, Crushing, and Screening Facilities in Indian Country.

Oscar Renda Contracting, Inc. respectfully requests that this permit application be expeditiously reviewed, as the subject facility will be used to support a nearby public works project.

Elm Creek Environmental, LLC (Elm Creek) will serve as the technical representative for Oscar Renda Contracting, Inc. on this project. **We respectfully request to be copied on all correspondence regarding this project including, but not limited to the final approval letter.** If you have any questions regarding this application, please contact us at our office or through email at josh@elmcreekenv.com.

Elm Creek Environmental, LLC


Josh Butler, CES – Project Manager

Distribution: Addressee
Navajo Nation EPA Air Quality Control Program
Mr. Rich Campbell – Oscar Renda Contracting, Inc.
10102-003 Project File



Oscar Renda Contracting, Inc.
General Air Quality Permit for New or Modified Minor
Source Stone Quarrying, Crushing, and Screening Facilities in
Navajo Nation Crushing/Screening Operation
Navajo Nation – McKinley and San Juan Counties, New
Mexico

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Elm Creek Environmental, LLC

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Oscar Renda Contracting, Inc.
General Air Quality Permit for New or Modified Minor Source Stone Quarrying, Crushing, and
Screening Facilities in Indian Country
Navajo Nation Crushing/Screening Operation
Navajo Nation – McKinley and San Juan Counties, New Mexico

Project Description

Oscar Renda Contracting, Inc. proposes to authorize a portable aggregate crushing/screening operation via the General Air Quality Permit for New or Modified Minor Source Stone Quarrying, Crushing, and Screening Facilities in Indian Country. The portable crushing operation will be used to process and provide material to a nearby pipeline project that is taking place near US Highway 491, between Twin Lakes and Naschitti, New Mexico and within Navajo Nation land. The extents of the pipeline projects right-of-way (ROW) are shown on the attached map.

The subject facility will have a maximum production rate of 300 tons per hour (TPH) and 8,760,000 tons per year (TPY) at a maximum operating schedule of 24 hours per day, 7 days per week, and 52 weeks per year. The proposed aggregate crushing/screening operation equipment will include all of the equipment listed within the table below.

Table 1. Proposed Equipment		
Unit No.	Description	Equipment Size
S1	Powerscreen Warrior 1800	300 TPH
S2	Powerscreen Warrior 1800	300 TPH
S3	Powerscreen Warrior 1800	300 TPH
C1	Powerscreen Trakpactor 500	300 TPH
C2	Powerscreen Trakpactor 500	300 TPH
E1*	CAT C4.4	110 HP
E2*	CAT C4.4	110 HP
E3*	CAT C4.4	110 HP
E4*	CAT C13	440 HP
E5*	CAT C13	440 HP

*The portable generator engines are exempt mobile sources per §49.153.

The generator engines at this facility are not stationary engines. The engines meet the definition of “nonroad engines” in 40 CFR 49.123(a) as the units are designed to be portable, are not regulated by a federal new source performance standard promulgated under section 111 of the Clean Air Act, and will not remain at a location for more than 12 consecutive months. As nonroad engines, the units meet the definition of a “mobile source” under 40 CFR 49.123(a). Per 40 CFR 49.153(c)(1), the Federal Minor New Source Review Program in Indian Country does not apply to mobile sources. Emissions and fuel usage data were not accounted for as these units are exempt.

Oscar Renda Contracting, Inc. will utilize Best Available Control Technology (BACT) at the subject facility. Permanently mounted spray bars will be installed at the inlet and outlet of all crushers, at all shaker screens, and at all material transfer points and used as necessary to maintain compliance with all commission regulations. Each road, parking lot, or other area at the plant site that is used by vehicles will



be watered so as to minimize dust emissions. Stockpiles will also be watered, as needed, to minimize dust emissions.

The emission calculations for the facility are based on 8,760 hours of operation. The potential to emit calculator shows that the total potential to emit of the facility falls under the threshold emission rates for attainment areas listed in Section 5 of the application form. Any emissions from planned Startup and Shutdown activities are not expected to be any worse over a full hour than emissions during normal operation, and thus should be included in this permit authorization. Any planned Maintenance activities for this facility will be considered De Minimis or authorized under a separate authorization, as necessary.

All required forms, maps, and other supporting documents are included with this application. Oscar Renda Contracting, Inc. will comply with all applicable permit requirements listed under the General Air Quality Permit for New or Modified Minor Source Stone Quarrying, Crushing, and Screening Facilities in Indian Country.





United States Environmental Protection Agency General Air Quality Permit for New or Modified Minor Sources of Air Pollution in Indian Country

<https://www.epa.gov/tribal-air/tribal-minor-new-source-review>

Questionnaire for Requesting Coverage under the General Air Quality Permit for New or Modified Minor Source Stone Quarrying, Crushing, and Screening Facilities in Indian Country

Last Modified: February 13, 2017

Version 1.0

Does the General Permit apply to my facility?

The following questionnaire is intended to help you, the facility owner or operator, determine whether or not you are eligible for a General Air Quality Permit for Minor Source Stone Quarrying, Crushing, and Screening Facilities. You are not required to complete this questionnaire and it is not necessary to apply for a General Air Quality Permit for New or Modified Minor Source Stone Quarrying, Crushing, and Screening Facilities. This questionnaire does not cover all of the General Air Quality Permit requirements and does not guarantee approval of a minor source preconstruction permit under this program. This General Air Quality Permit is available to true minor and synthetic minor sources of regulated New Source Review (NSR) pollutants.

Description of Stone Quarrying, Crushing, and Screening Facilities

A stone quarrying, crushing, and screening facility is any stationary or portable non-metallic mineral processing facility which uses rock crushers, grinding mills, screening operations, bucket elevators, belt conveyors, bagging operations, storage bins, storage piles, truck loading stations, or railcar loading stations to process rock, sand, gravel, or mineral aggregate or that mines rock, sand and gravel for construction.

About this Questionnaire

The questions focus on general information pertaining to your existing or future sand, gravel, rock crushing, and screening facility. The questionnaire is not meant to be exhaustive and only requires knowledge of basic facility information, including process rates, raw material throughput, and fuel usage.

You should continue with this Questionnaire if you meet all of the following criteria:

- You plan to construct a new true or synthetic minor source stone quarrying, crushing, and screening facility OR you plan to modify an existing, minor source stone quarrying, crushing, and screening facility;
- You are not planning to construct or modify a major source stone quarrying, crushing, and screening facility;
- Your new or modified minor source stone quarrying, crushing, and screening facility is located within Indian country;
- Your facility processes non-metallic materials (i.e., sand, gravel, rock or stone);
- Are seeking to co-locate with a hot mix asphalt operation (this is not a requirement to qualify for the General Permit);
- You do not know whether your facility needs a permit, or if you do not know the attainment status of your area; and you want to find out whether or not you should apply for the General Permit for a stone quarrying, crushing, and screening facility; and
- You intend to satisfy the processes that the U.S. Environmental Protection Agency (EPA) has made available in the application documents for this General Permit to address threatened and endangered

species and historic properties under the Endangered Species Act and the National Historic Preservation Act, respectively.

More Information

The definition of a “modification” and “PTE” can be found at 40 CFR 49.152(d) and in the “Instructions” document. Additional information on the applicability of the Federal Indian Country Minor NSR Rule can be found at 40 CFR 49.153.

Information on the ozone attainment status of the area where your facility is located can be found at: <https://www.epa.gov/green-book>. You may also contact your reviewing authority for information on your attainment status.

Please contact your reviewing authority if you have questions or need assistance. A list of reviewing authorities, their areas of coverage, and contact information can be found in Attachment D to the General Air Quality Permit for Minor Source Stone Quarrying, Crushing, and Screening Facilities or visit: <https://www.epa.gov/tribal-air/tribal-minor-new-source-review>.

Sources eligible for the General Permit for Minor Source Stone Quarrying, Crushing, and Screening Facilities may also be subject to federal standards under 40 CFR 60 Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants, 40 CFR 60 Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, and 40 CFR 63 Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. The conditions applicable to sources seeking coverage under this General Permit are intended to be generally consistent with the requirements in these regulations; however, compliance with the applicable requirements is required independent of the conditions in the General Permit, and not all requirements applicable under Subparts OOO, IIII, and ZZZZ are necessarily included in the General Permit. The Background Document for the General Permit identifies the specific requirements in these Subparts that are intended to be included in the General Permit.

Additional Information about Co-Located Hot Mix Asphalt Operations:

If you otherwise qualify for this General Permit and intend to be co-located with your hot mix asphalt operation you may still qualify for the General Permit if:

- The combined potential emissions of the two operations are below all of the applicable major NSR thresholds and you obtain a general permit or site-specific permit for your hot mix asphalt operation; or
- The combined potential emissions of the two operations are below all the applicable major NSR thresholds, but you elect to take more restrictive throughput and fuel use limits, those in Conditions 16. and 19.e of the General Permit, so that combined potential emissions of the two operations are below 100 tons per year (tpy) for regulated NSR pollutants, and you obtain the hot mix asphalt plant General Permit with the elective limits for co-located operations. This option is not available in serious, severe or extreme ozone nonattainment areas or serious carbon monoxide (CO) nonattainment areas.

Please contact your reviewing authority for additional information.

Questionnaire for Stone Quarrying, Crushing, and Screening Facilities

Part 1: Does my Stone Quarrying, Crushing, and Screening Facility Need or Qualify for a Minor Source Permit?

The following questions are meant to determine whether or not your stone quarrying, crushing, and screening facility needs or qualifies for a general permit.

1. Will the potential to emit (PTE) of your facility be less than 250 tpy for particulate matter (PM, PM₁₀, or PM_{2.5}), volatile organic compounds (VOC), nitrogen oxides (NO_x), CO, and sulfur dioxide (SO₂), each individually? The emissions from your facility may be calculated using the PTE calculator provided at <https://www.epa.gov/tribal-air/tribal-minor-new-source-review>. Be sure to include all existing, new, and modified emission units at your facility.

Yes No

If you answered ‘**No**’ you do not qualify for the General Permit, please contact your reviewing authority to apply for a site-specific permit. If you answered ‘**Yes**,’ continue on to the next question. A synthetic minor source that agrees to the enforceable conditions in the General Permit and is below the threshold above should answer ‘**Yes**.’

2. Will the PTE of your new facility or the increase in potential emissions from your modified existing facility be equal to or above the applicable minor NSR thresholds listed below for ANY pollutant? The potential emissions from your facility may be calculated using the PTE calculator provided at <https://www.epa.gov/tribal-air/tribal-minor-new-source-review>. Be sure to include all new or modified emission units at your facility.

Pollutant	Attainment Area	Nonattainment Area
CO	10 tpy	5 tpy
PM	10 tpy	5 tpy
PM ₁₀	5 tpy	1 tpy
PM _{2.5}	3 tpy	0.6 tpy
SO ₂	10 tpy	5 tpy
NO _x	10 tpy	5 tpy
VOC	5 tpy	2 tpy

Yes No

If you answered ‘**No**,’ your source is exempt from the minor NSR program. Please contact your reviewing authority to confirm that your facility will not need a permit. If you answered ‘**Yes**,’ continue on to the next question.

3. If located in a nonattainment area for any pollutant, will the PTE of your facility for the particular nonattainment pollutant be less than the NSR major source thresholds specified in the table below (based on nonattainment classification)? Be sure to include all existing, new, and modified emission units at your facility.

Pollutant	Nonattainment Classification	NSR Major Source Threshold
Ozone	Marginal	100 tpy of VOC or NO _x
	Moderate	100 tpy of VOC or NO _x
	Serious	50 tpy of VOC or NO _x
	Severe	25 tpy of VOC or NO _x
	Extreme	10 tpy of VOC or NO _x
PM ₁₀	Moderate	100 tpy
	Serious	70 tpy
CO	Moderate	100 tpy
	Serious	50 tpy
SO ₂ , NO ₂ , PM _{2.5}	No nonattainment classification	100 tpy

Yes No Not Applicable

If you answered **'No,'** your source does not qualify for the General Permit. Please contact your reviewing authority to apply for a site-specific permit. If you answered **'Yes,'** continue on to the next question. A synthetic minor source that agrees to the enforceable conditions in the General Permit and is below the thresholds above should answer **'Yes.'**

Information on the ozone attainment status of the area where your facility is located can be found at: <https://www.epa.gov/green-book>.

4. Did you include potential emissions from your co-located hot mix asphalt operation in your PTE calculations for this section?

Yes No Not Applicable – not co-located with a hot mix asphalt operation

If you answered **'No,'** your source does not qualify for coverage under the General Permit for stone quarrying, crushing and screening facilities. Please contact your reviewing authority to apply for a site-specific permit. If you answered **'Yes'** or **'Not Applicable'** continue on to Part 2 of the Questionnaire. If you qualify for this General Permit and are co-located with a hot mix asphalt operation you must also receive either a general permit or site-specific permit for the hot mix asphalt equipment prior to construction or modification.

Part 2: What Types of Facilities DO NOT Qualify for this General Air Quality Permit for Stone Quarrying, Crushing, and Screening Facilities?

The following questions are meant to determine whether or not your stone quarrying, crushing, and screening facility processes materials that would disqualify it for operating under the General Air Quality Permit for Minor Source Stone Quarrying, Crushing, and Screening Facilities.

1. Will your facility process metallic materials, radioactive materials, materials that contain asbestos, or materials intended to be used as fuel?

Yes No

2. Will your facility process minerals for structural clay, clay ceramics, brick, lime manufacturing, phosphate products, Portland cement, or refractory products?

Yes No

3. Is your facility a sand and/or gravel processing plant that is classified as an industrial sand and gravel plant (SCC 3-05-027) AND that uses sand/gravel dryers?

Yes No

If you answered **'No'** to all of these questions, your facility may qualify for coverage under the Minor Source Stone Quarrying, Crushing, and Screening Facility General Air Quality Permit, and should continue on to Part 3 of the Questionnaire.

If you answered **'Yes'** to any of these questions, your facility likely does not qualify for coverage under the Minor Source Stone Quarrying, Crushing, and Screening Facility General Air Quality Permit. Please contact your reviewing authority to confirm that your facility will not qualify for this permit.

Part 3: Does my Stone Quarrying, Crushing, and Screening Facility Qualify for a General Air Quality Permit?

The following questions are meant to determine whether or not your stone quarrying, crushing, and screening facility would qualify for the General Permit for minor source stone quarrying, crushing, and screening facilities.

1. Will your facility's maximum raw material throughput be less than 1,100,000 tons per month based on a 12-month rolling average?

Yes No Not Applicable

2. If the engines used to power the crushers, screeners, and conveyors are stationary engines, will your facility only use diesel fuel/biodiesel to power these engines? "Stationary" engines include all internal-combustion engines that are used either in a fixed application, or in a portable (or transportable) application in which the engine (and any replacement engine that is intended to perform the same or similar function) will stay at a single site for 12 months or a shorter period for seasonal sources.

Yes No Not Applicable

3. If located in an attainment, unclassifiable or attainment/unclassifiable area for ozone or a marginal or moderate nonattainment area for ozone, will the facility's fuel usage for the stationary engines powering the crushers, screeners, and conveyors be less than a combined total of 24,200 gallons of diesel fuel per calendar month?

Yes No Not Applicable

4. If located in a serious/severe/extreme ozone nonattainment area, will the facility's fuel usage for the stationary engines powering the crushers, screeners, and conveyors be less than a combined total of 12,000/5,500/1,900 gallons of diesel fuel per calendar month, respectively?

Yes No Not Applicable

5. Will each of the asphalt storage tank(s) and fuel storage tank(s) at this facility have a maximum capacity less than 39,890 gallons and a true maximum vapor pressure less than 4 psi?

Yes No No storage tanks at the source

6. Do you intend to satisfy the procedures for threatened and endangered species and historic properties according to the processes provided by the EPA for this General Permit?

Yes No

Conclusion

If you answered 'Yes' or 'Not Applicable' to each of the questions in Part 3, you may qualify for coverage under the Stone Quarrying, Crushing, and Screening Facility General Air Quality Permit. If you believe based upon your answers in this questionnaire that your new or modified rock crushing and screening facility qualifies for a General Air Quality Permit for Minor Source Stone Quarrying, Crushing, and Screening Facilities, please submit a Request for Coverage to your reviewing authority.

If you answered 'No' to any of these questions, your facility may not qualify for coverage under the Stone Quarrying, Crushing, and Screening Facility General Air Quality Permit. Please contact your reviewing authority to confirm that your facility will not qualify for a General Permit.



**United States Environmental Protection Agency
 General Air Quality Permit for New or Modified Minor Sources of Air
 Pollution in Indian Country**

<https://www.epa.gov/tribal-air/tribal-minor-new-source-review>

**Request for Coverage under the General Air Quality Permit for New or Modified
 Minor Source Stone Quarrying, Crushing, and Screening Facilities in Indian
 Country**

Last Modified: January 4, 2017
 Version 1.0

Prior to construction or modification, complete this application and submit it to your reviewing authority.

A list of reviewing authorities, their areas of coverage, and contact information can be found in Attachment D to the General Air Quality Permit for Minor Source Stone Quarrying, Crushing, and Screening Facilities or visit:

<https://www.epa.gov/tribal-air/5-source-categories-stone-quarrying-crushing-and-screening-facilities-final-rule>.

For questions regarding this application please contact your reviewing authority.

For instructions on completing this application please see the document “Instructions for Requesting Coverage under the General Air Quality Permit for New or Modified Minor Source Stone Quarrying, Crushing, and Screening Facilities in Indian Country.”

Section 1: Contact Information

1. Business Name: Oscar Renda Contracting, Inc.	2. Date: 2/7/2018
3. Site Address(es): See!attached!map	4. County(ies): San Juan/McKinley
5. Name of Operator at Site(s) (if different from owner):	6. Phone of Operator or Contact at Site(s) (if different from owner):
7. Owner: Rich Campbell - Oscar Renda Contracting, Inc.	8. Telephone Number of Owner: 817-293-4263
9. Owner's Mailing Address: 608 Henrietta Creek Rd. Roanoke, Texas 76262	10. Send all correspondence regarding this application to: Company Name: c/o: Rich Campbell Address: 608 Henrietta Creek Rd. Roanoke, Texas 76262
11. Authorized contact regarding this permit application: Name: Josh Butler - Elm Creek Env., LLC Title: Project Manager Phone: 214-334-6954	Email: josh@elmcreekenv.com FAX:

Section 2: Facility Information for Requesting Coverage under the General Air Quality Permit for New or Modified Minor Source Stone Quarrying, Crushing and Screening Facilities

12. Please list all of the site locations for which you want approval to locate your stone quarrying, crushing, and screening facility. Include the site name (if any), street address, city, state, and name of the Indian Reservation. If needed, use additional paper. You may seek approval for additional locations in the future.

Site Name	Street Address	City/Town	Area of Indian Country
BOR San Juan Lateral	N/A - See attached area map	See attached area map	Navajo Nation

13. This application is for (check all that apply):

- Construction/relocation of a new stone quarrying, crushing, and screening facility in Indian country (please describe the proposed new source).
 The proposed source will be a portable stone quarrying, crushing, and screening facility that will be used to support a nearby pipeline project.

- Add a new location for your stone quarrying, crushing, and screening facility already covered by the General Permit. (Please describe the proposed new location.)

- Modification of an existing stone quarrying, crushing, and screening facility. Please describe the modification below. The definition of "modification" can be found at 40 CFR 49.152(d), and in the "Instructions" document.

- A stone quarrying, crushing, and screening operation co-located with a hot mix asphalt operation and seeking to limit combined PTE to less than 100 tpy for NSR-regulated pollutants. You must comply with Conditions 16. and 19.e in the General Permit. This option is not available in serious, severe, or extreme ozone nonattainment areas and serious CO nonattainment areas. (Please describe the proposed source.)

- Stationary (fixed) stone quarrying, crushing, and screening facility

- Portable stone quarrying, crushing, and screening facility
- Relocation of an existing stone quarrying, crushing, and screening facility

14. North American Industry Classification System/Standard Industrial Classification Code and/or description of the facility:

212312/1422 - Aggregate material will be excavated from the project area, processed, and then used to support the pipeline project.

15. Will your new or modified facility be located in an ozone nonattainment area? Information on the ozone attainment status of the area where your facility is or will be located can be found at:

<https://www.epa.gov/green-book>.

Yes No

If you answered 'Yes,' specify the classification of the ozone nonattainment area:

Marginal Moderate Serious Severe Extreme

16. Will your new or modified facility be located in a particulate matter (PM₁₀/PM_{2.5}) nonattainment area? Information on the attainment status of the area where your facility is or will be located can be found at:

<https://www.epa.gov/green-book>.

Yes No

If you answered 'Yes,' specify the classification of the PM₁₀/PM_{2.5} nonattainment area:

Moderate Serious

17. Will the PTE of your new facility or the increase in potential emissions from your modified existing facility be equal to or above the applicable minor NSR thresholds listed below for ANY of the listed pollutants, both in tpy? Emissions from your facility may be calculated using the PTE calculator available online at: <https://www.epa.gov/tribal-air/5-source-categories-stone-quarrying-crushing-and-screening-facilities-final-rule>. Be sure to include all new or modified emission units at your facility.

Pollutant	Attainment Area	Nonattainment Area
CO	10 tpy	5 tpy
Particulate Matter (PM)	10 tpy	5 tpy
Particulate Matter (PM ₁₀)	5 tpy	1 tpy
Particulate Matter (PM _{2.5})	3 tpy	0.6 tpy
Sulfur Dioxide (SO ₂)	10 tpy	5 tpy
Nitrogen Oxides (NO _x)	10 tpy	5 tpy
Volatile Organic Compounds (VOC)	5 tpy	2 tpy

Yes No

If you answered ‘No,’ your source is likely exempt from the minor NSR program. Please contact your reviewing authority to confirm that your facility will not need a permit. If you answered ‘Yes,’ continue on to the next question.

18. If located in an attainment, attainment/unclassifiable or unclassifiable area, will the PTE of your new or modified facility be less than 250 tpy for PM, PM₁₀, PM_{2.5}, VOC, NO_x, CO, and SO₂ each individually? Be sure to include all existing, new, and modified emission units at the facility.

Yes No

If you answered ‘No,’ your source does not qualify for the General Permit. Please contact your reviewing authority to apply for a site-specific permit. If you answered ‘Yes,’ continue on to the next question.

19. If located in a nonattainment area, will the PTE of your facility for the particular nonattainment pollutant be less than the NSR major source thresholds below for ALL pollutants? Be sure to include all existing, new, and modified emission units at the facility.

Pollutant	Nonattainment Classification	NSR Major Source Threshold
Ozone	Marginal	100 tpy of VOC or NO _x
	Moderate	100 tpy of VOC or NO _x
	Serious	50 tpy of VOC or NO _x
	Severe	25 tpy of VOC or NO _x
	Extreme	10 tpy of VOC or NO _x
PM ₁₀	Moderate	100 tpy
	Serious	70 tpy
CO	Moderate	100 tpy
	Serious	50 tpy
SO ₂ , NO ₂ , PM _{2.5}	No nonattainment classification	100 tpy

Yes No N/A - Not located in any nonattainment area

If you answered ‘No,’ your source does not qualify for the General Permit. Please contact reviewing authority to apply for a site-specific permit. If you answered ‘Yes’ or ‘N/A,’ continue on to the next question.

20. What is the projected monthly throughput of rock, stone, sand, gravel, and aggregate (in tons) to be processed at your new or modified facility?

730,000 tons per month

21. What is the projected monthly usage of diesel fuel (in gallons) for all stationary combustion sources (e.g., boilers) at your new or modified facility?

4,000 gallons per month

Section 3: Technical Information for Requesting Coverage under the General Air Quality Permit for New or Modified Minor Source Stone Quarrying, Crushing and Screening Facilities

Information regarding the emission units at your facility is required by 40 CFR 49.154 and 40.160. Please provide the information below for all equipment at your facility. For each emissions unit, include supporting documentation for the PTE of the unit with your Request for Coverage. In addition, for existing emissions units, include the most recent actual annual emissions. See 40 CFR 49.154(a)(2). (For more information on how to calculate actual emissions, go to: <https://www.epa.gov/tribal-air/registration-existing-true-minor-sources-air-pollution-indian-country>.) As needed, please include other relevant information with your Request for Coverage (including any equipment not identified below).

22. Facility Equipment

List all equipment at the site that is or will be owned, leased or operated by the applicant, as well as the maximum rated capacity in tons per hour, Btu, or horsepower. If needed to list all equipment, additional pages may be photocopied and added after this one.

Unit ID #	Type Description					Maximum Rated Capacity	Make/Model	Date of Construction (mm/dd/yyyy)
	Crusher	Screeners	Internal Combustion Engine	Other Exhaust Unit	Other (please specify)			
S1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Tons per Hour (tph) for Equipment and Btu or Horsepower for engines	Powerscreen Warrior 1800 <input checked="" type="checkbox"/>	New
S2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		300	Powerscreen Warrior 1800 <input checked="" type="checkbox"/>	New
S3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		300	Powerscreen Warrior 1800 <input checked="" type="checkbox"/>	New
C1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		300	Powerscreen TrakPactor 50 <input checked="" type="checkbox"/>	New
C2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		300	Powerscreen TrakPactor 50 <input checked="" type="checkbox"/>	New
E1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		110	CAT C4.4	New
E2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		110	CAT C4.4	New
E3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		110	CAT C4.4	New
E4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		440	CAT C13	New
E5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		440	CAT C13	New
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

Notes:

In the column labeled Unit ID # please give unique identifiers for all of the equipment at the site. You may use an existing facility numbering system or emissions inventory ID #. This unique identifier will differentiate between the different emission units at the facility.

In subsequent sections of this permit application, please use the same Unit ID #'s already provided for the equipment listed here.

It is recommended—but not required—that you include an identifying letter specific to the equipment type, e.g., 'C' for crusher, followed by an identifying number of your choice.

23. **Crushing** (Please use same ID #'s identified above in this permit application)

Unit ID #	Process Rate			Type				Controls		
	tph	Annual hours of operation	tpy (tph x annual hours)	Primary	Secondary	Tertiary	Fines	Average Moisture Content	Controls Used (Please specify)	Efficiency
C1	300	8,760	2,628,000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	>1.5%	Water Sprays	70%
C2	300	8,760	2,628,000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	>1.5%	Water Sprays	70%
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Totals:	600		4,380,000							

24. **Screening** (Please use same Unit ID #'s identified above in this permit application)

Unit ID #	Process Rate			Type of Screening			Controls		
	tph	Annual hours of operation	tpy (tph x annual hours)	Regular	Fines	Wet Screening*	Average Moisture Content	Controls Used (Please specify)	Efficiency
S1	300	8,760	2,628,000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	>1.5%	Water Sprays	70%
S2	300	8,760	2,628,000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	>1.5%	Water Sprays	70%
S3	300	8,760	2,628,000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	>1.5%	Water Sprays	70%
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Totals:	900		7,884,000						

* Wet screening refers to screening processes that are accomplished with water as the carrier of the sand/aggregate or where the aggregate is saturated with water.

25. Material Handling – Transferring, Loading, Unloading, Conveyors, and Dropping (Please use same Unit ID #'s identified above in this permit application)

Unit ID #	Description	Maximum Material Transferred (tpy)	Average Moisture Content	Control Technology					
				None	Water Spray	Chemical Additive	Conveyor with ½ cover	Conveyor with ¾ cover	Cover with full cover
	e.g., truck dump, conveyor drop, truck loading	Per point	%						
STK	Stockpiles/Loading/Unloading	13,140,000	>1.5%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Totals:		13,140,000							

26. Internal Combustion Engines (including emergency generators)

Unit ID #	Unit Description	Maximum Rated Capacity (HP)	Types of Fuel(s) Used ¹	Manufactured Date (mm/dd/yyyy)	Model year
E1-E3	Screening Unit Generators	110	Diesel	New	New
E4-E5	Crushing Unit Generators	440	Diesel	New	New

27. Volatile Liquid Storage Tanks

This section applies to storage tanks used to store liquid materials. Please provide the following information for each storage tank.

Unit ID#	Type of Liquid	Capacity (gallons)	Vapor Pressure of Liquid (psi)	Is the tank above or underground?	Date of Installation (if existing)

Section 4: Information on Completing Screening Processes that Have to Be Satisfied to Request Coverage under the General Air Quality Permit for New or Modified Minor Source Stone Quarrying, Crushing and Screening Facilities

28. Threatened or Endangered Species

Have you demonstrated that you meet one of the criteria listed in Appendix A with respect to the protection of any and all species that are federally listed as threatened or endangered under the ESA or of habitat that is federally designated as “critical habitat” under the ESA? If you answer ‘No,’ you cannot request coverage under this permit.

Yes No

If you answered ‘Yes,’ then you need to provide the appropriate documentation to the EPA to qualify for coverage under this permit. Please indicate under which criterion in Appendix A you are satisfying this requirement:

A B C D E

29. Historic Properties

Have you completed the screening process in Appendix B to determine if the construction, modification or operation of your new or modified minor source of air pollutants has the potential to cause effects to historic properties (pursuant to the NHPA)? If you answer ‘No,’ you cannot request coverage under this permit.

Yes No

If you answered ‘Yes,’ then provide the appropriate documentation to the EPA to qualify for coverage under this permit.

Section 5: Additional Information about the General Air Quality Permit for New or Modified Minor Source Stone Quarrying, Crushing and Screening Facilities

This section provides information on the sizes of sources in terms of emissions that are eligible for the General Permit. The emission limitations and standards in this permit are expected to ensure that source-wide emissions are below the rates shown in the following table:

Pollutant of Concern	Attainment, Unclassifiable or Attainment/Unclassifiable Areas	Nonattainment Areas
CO	19 tpy	19 tpy (moderate and serious areas)
PM ₁₀	63 tpy	63 tpy (moderate areas and serious areas)

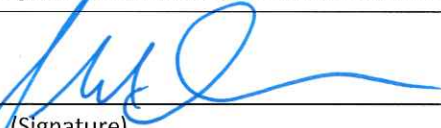
Pollutant of Concern	Attainment, Unclassifiable or Attainment/Unclassifiable Areas	Nonattainment Areas
PM _{2.5}	63 tpy	63 tpy
NO _x	88 tpy	88 tpy (marginal and moderate ozone areas)
		45 tpy (serious ozone areas)
		22.5 tpy (severe ozone areas)
		9 tpy (extreme ozone areas)
VOC	7 tpy	7 tpy (ozone areas)

For a stone quarrying, crushing and screening operation co-located with a hot mix asphalt operation the emission limitations and standards in Conditions 16. and 19.e of the General Permit are expected to ensure the source-wide emissions are below the rates shown in the following table:

Pollutant of Concern	Attainment, Unclassifiable or Attainment/Unclassifiable Areas	Nonattainment Areas
CO	78 tpy	78 tpy (moderate areas)
		Not applicable (serious areas)
PM	86 tpy	Not applicable
PM ₁₀	63 tpy	63 tpy (moderate areas)
		63 tpy (serious areas)
PM _{2.5}	30 tpy	30 tpy
SO ₂	18 tpy	18 tpy
NO _x	90 tpy	Not applicable (serious and above ozone areas)
		90 tpy (marginal and moderate ozone areas)

Pollutant of Concern	Attainment, Unclassifiable or Attainment/Unclassifiable Areas	Nonattainment Areas
VOC	27 tpy	Not applicable (serious and above ozone areas)
		27 tpy (marginal and moderate ozone areas)

You should contact your reviewing authority if you intend to rely on the emission limitations and standards in this General Permit to prevent having to obtain a Title V permit.

Applicant's Statement (to be signed by the applicant)		
I certify that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate,		
Name:  (Signature)	Name: <u>Richard A. Campbell</u> (Print or Type)	Date: <u>2/5/16</u>
Title: <u>PROJECT EXECUTIVE</u>		

Area Map

Navajo Nation, New Mexico

Naschitti

491

491

Tohatchi

Navajo Indian Reservation

Mexican Springs

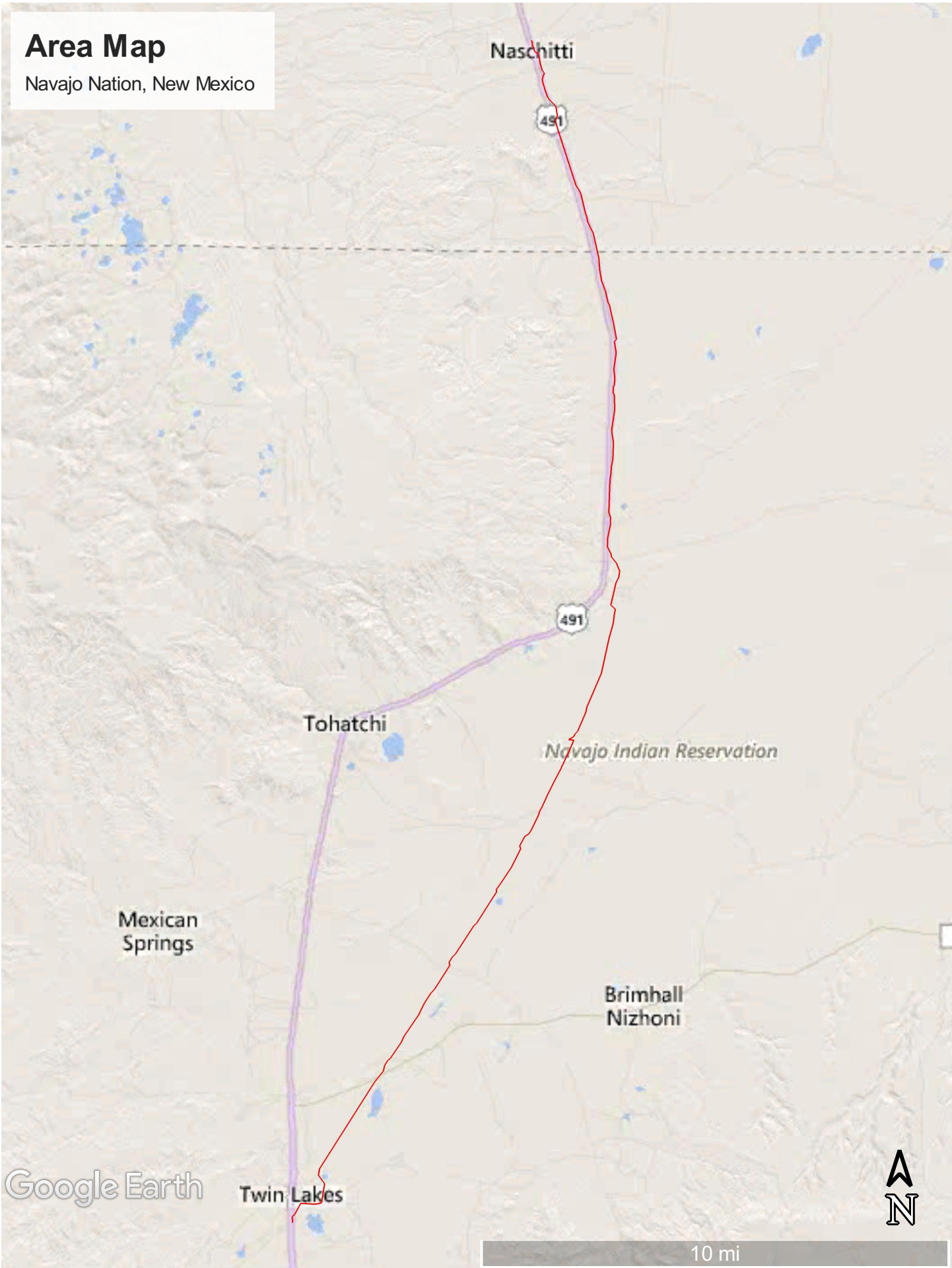
Brimhall
Nizhoni

Google Earth

Twin Lakes



10 mi



Oscar Renda Contracting, Inc.
General Air Quality Permit for New or Modified Minor Source Stone Quarrying, Crushing, and
Screening Facilities in Indian Country
Navajo Nation Crushing/Screening Operation
Navajo Nation – McKinley and San Juan Counties, New Mexico

Process Description

The Navajo Nation Crushing/Screening operation consists of three portable screening units and two portable crushing units. All of the portable screening units are Powerscreen Warrior 1800s and all of the portable crushing units are Powerscreen Trakpactor 500s.

Powerscreen Warrior 1800

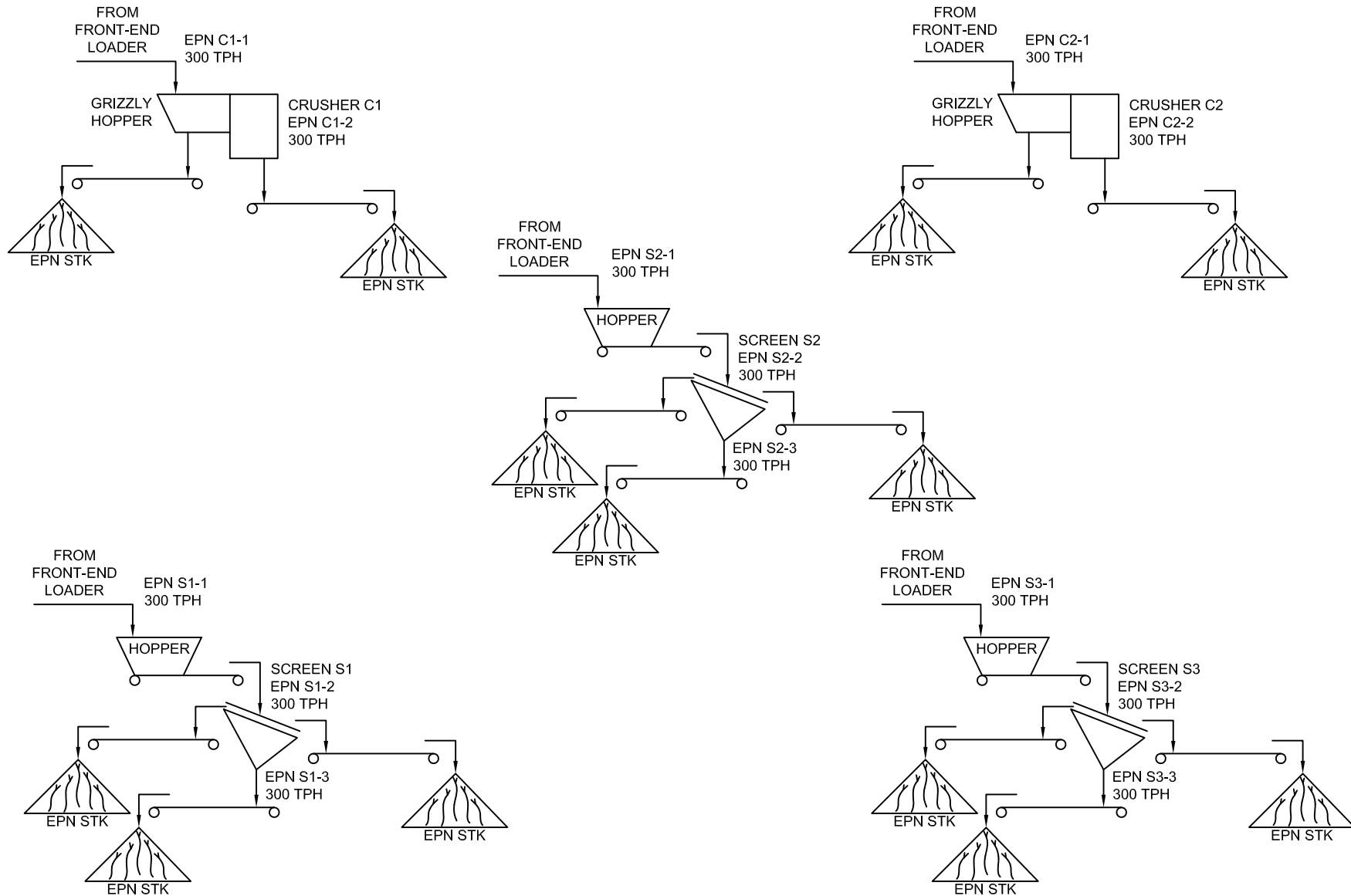
Aggregate material that is mined onsite is transported to one of the three Powerscreen Warrior 1800s units and transferred (EPNs S1-1, S2-1, & S3-1) to the unit's hopper. Material from the hopper is transferred via a conveyor to the screen (EPNs S11-2, S2-2, & S3-2). Large material caught by the top deck of the screen is transferred to a conveyor to be stockpiled (EPN STK). Smaller material caught by the second deck is transferred to a conveyor to be stockpiled (EPN STK). Material that isn't caught by the screen decks is transferred (EPNs S1-3, S2-3, & S3-3) to a conveyor to be stockpiled (EPN STK).

Powerscreen Trakpactor 500

Aggregate material that is mined onsite is transported to one of the two Powerscreen Trakpactor 500s units and transferred (EPNs C1-1 & C2-1) to the unit's grizzly hopper. Smaller material that isn't caught by the grizzly hopper falls onto a conveyor beneath the grizzly hopper to be transferred to a material stockpile (EPN STK). Larger material that is caught by the grizzly hopper is fed into the unit's crusher (EPNs C1-2 & C2-2) to be processed. Material processed by the crusher falls onto a conveyor to be stockpiled (EPN STK).

Please refer to the attached flow diagram in order to follow the process description given above.





TITLE:
FLOW DIAGRAM

DRAWING NO.:
1/1

PROJECT NO.:
103-003

DATE:
2/8/2018

SITE:
NAVAJO NATION, NEW MEXICO

SCALE:
NTS

DRAWN BY:
JB

CHECKED BY:
DG

REVISION:
N/A



ELM CREEK ENVIRONMENTAL, LLC
311 N. BALLARD AVE., SUITE 200
PHONE: 214-334-6954
WWW.ELMCREEKENV.COM

Potential To Emit Calculator for Stone Quarrying, Crushing, and Screening Plants

8/23/2016

This workbook is designed to calculate the potential to emit of a sand, gravel, rock crushing, and screening facility without control devices.

Directions - Enter the facility's information below in the yellow highlighted cells.

For the rock processing operations, input the number of machines in each category that are used in your operations.

For the conveying operations, enter the number of drop points associated with each crushing/screening operation.

For the truck loading and transport offsite, enter the number 1.

For the engines, input the total horsepower rating of all the stationary engines on site.

The potential to emit for the facility will be displayed under the "Output" tab. The criteria pollutant emission rate is calculated depending on the equipment used and the maximum rating of any stationary engines. The effect of any control devices is not considered.

Facility Profile

Rock Processing Equipment	Number of Operations	Maximum Capacity (tons/hr)*	Number of Conveyor Drop Points	Description
Truck Unloading/Grizzly Feeder	5	200		Fragmented rock delivered to site and dumped into grizzly or crusher feeder
Primary Crusher (Output is 3 - 12 inches) and Screening	2	300	1	Rock that passes through the primary crusher. This rock is 3 to 12 inches in diameter after this step. Rock is screened, conveyed to a pile, and shipped offsite or conveyed to another processing step.
Secondary Crusher (Output is 1 - 3 inches) and Screening	0	0	0	Rock that passes through the secondary crusher. This rock is 1 to 3 inches in diameter after this step. Rock is screened, conveyed to a pile, and shipped offsite or conveyed to another processing step.
Tertiary Crusher (Output is 3/16 - 1 inches) and Screening	0	0	0	Rock that passes through the tertiary crusher. This rock is 3/16 to 1 inches in diameter after this step. Rock is screened, conveyed to a pile, and shipped offsite or conveyed to another processing step.
Fines Crusher (output is less than 3/16 inches) and Screening	0	0	0	Rock that passes through the fines crusher. This rock is less than 3/16 inches in diameter after this step. Rock is screened, conveyed to a pile, and shipped offsite.
Dry Sand and Gravel Screening**	3	300	2	Dry sand and gravel that passes through the screener. Dry sand and gravel is excavated, screened, classified for size, conveyed to a pile, and shipped offsite.
Truck Loading and Transport Offsite	5	200		Rock product that is shipped offsite.

* If the maximum capacity of a piece of equipment is bottlenecked (reduced) by another piece of equipment operating in a 'train', enter the bottlenecked capacity.

** If your sand and gravel screening operation processes saturated material, and uses wet processing methods, enter zero (0) for the inputs in this row.

Power Generation Equipment	Generator/Engine Size (Hp) (total) ^a	Sulfur Content of Diesel Fuel (%) ^a	Description
Stationary Diesel Electrical Generators w/ Rating Less Than or Equal to than 600 Hp	0	0.50%	A stationary engine is an engine that is used in a fixed location, or a nonroad (portable) engine that remains in one location for at least a full year.
Stationary Diesel Electrical Generators w/ Rating Greater than 600 Hp	0	0.50%	

^aNo stationary engines will be located at this facility. The engines will be nonroad (portable) engines which will not operate at a location for more than 12 consecutive months at a time.

Storage Piles	Description
Rock Product in Storage Piles (tons)	Average Amount of Crushed Rock Product Stored in Storage Piles During the Year (tons). Default value is one week's production. 166,462
Moisture Content of Storage Piles (%)	Moisture content of the storage piles. If operations are controlled with water sprays, include this in your estimate. Default value for uncontrolled operations is 0.7%. Default value for controlled operations is 2%. 1.5%
Mean Wind Speed (mph)	Average wind speed at the site. 15.00

Potential To Emit Calculator for Stone Quarrying, Crushing, and Screening Plants

8/23/2016

Facility Potential to Emit (PTE) Summary

FOR DETERMINING IF YOU NEED A PERMIT (does not include controls):

Process	Pollutant						
	PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	VOC
Sand, Gravel, Rock Crushing, Screening, Conveying	1234.62	303.19	0.00	-	-	-	-
Storage Piles	1.24	0.59	0.09	-	-	-	-
Engine/Generator	0.00	0.0000	0.00	0.00	0.00	0.00	0.00
Total Potential to Emit (tons/year)	1235.86	303.78	0.09	0.00	0.00	0.00	0.00

FOR DETERMINING PTE IF USING GENERAL PERMIT (includes controls in General Permit):

Process	PM	PM₁₀	PM_{2.5}	SO₂	NO_x	CO	VOC
Sand, Gravel, Rock Crushing, Screening, Conveying	18.40	10.50	0.14				
Storage Piles	1.24	0.59	0.09	-	-	-	-
Engine/Generator	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Potential to Emit (tons/year)	19.65	11.09	0.23	0.00	0.00	0.00	0.00

Maximum Throughputs, Based on Equipment Capacity	
Operation Description	tons/year
Truck Unloading - Fragmented Stone	8,760,000
Primary Crushing and Screening	5,256,000
Secondary Crushing and Screening	0
Tertiary Crushing and Screening	0
Fines Crushing and Screening	0
Dry Sand and Gravel Screening	7,884,000
Conveyor Transfer Points (total)	21,024,000
Truck Loading - Conveyor, crushed stone	8,760,000

Maximum Fuel Usage, Based on Engine Size ^a		
Operation Description	gal/year	gal/month
Diesel Engine (<= 600 hp)	0	0
Diesel Engine (> 600 hp)	0	0

Potential To Emit Calculator for Stone Quarrying, Crushing, and Screening Plants

8/23/2016

Emissions from Sand, Gravel, Rock Crushing, and Screening Operations

1. Emission Factors for PM, PM10, and PM2.5

Type of Operation	SCC	Emission Factors (lb/ton)		
		PM ^c	PM10	PM2.5 ^c
Primary Crushing ^a	3-05-020-01	1.4E-03	6.0E-04	
Primary Crushing (controlled) ^a	3-05-020-01	3.0E-04	1.4E-04	
Secondary Crushing ^a	3-05-020-02	2.7E-03	1.2E-03	
Secondary Crushing (controlled) ^a	3-05-020-02	6.0E-04	2.7E-04	
Tertiary Crushing	3-05-030-03	5.4E-03	2.4E-03	
Tertiary Crushing (controlled)	3-05-020-03	1.2E-03	5.4E-04	1.0E-04
Fines Crushing	3-05-020-05	3.9E-02	1.5E-02	
Fines Crushing (controlled)	3-05-020-05	3.0E-03	1.2E-03	7.0E-05
Screening of Primary Crusher Output ^b		6.3E-03	2.2E-03	
Screening of Primary Crusher (controlled) ^b		5.5E-04	1.9E-04	
Screening of Secondary Crusher Output ^b		1.3E-02	4.4E-03	
Screening of Secondary Crusher Output (controlled) ^b		1.1E-03	3.7E-04	
Screening (Tertiary Crushing)	3-05-020-02-03	2.5E-02	8.7E-03	
Screening (Tertiary Crushing) (controlled)	3-05-020-02-03	2.2E-03	7.4E-04	5.0E-05
Fines Screening	3-05-020-21	3.0E-01	7.2E-02	
Fines Screening (controlled)	3-05-020-21	3.6E-03	2.2E-03	
Conveyor Transfer Point	3-05-020-06	3.0E-03	1.1E-03	
Conveyor Transfer Point (controlled)	3-05-020-06	1.4E-04	4.6E-05	1.3E-05
Truck Unloading - Fragmented Stone	3-05-020-31	1.6E-05	1.6E-05	
Truck Loading - Conveyor, crushed stone	3-05-020-32	1.0E-04	1.0E-04	

Emission factors are from AP 42, Chapter 11.19.2, Tables 11.19.2-2 and 11.19.2-4 (1/95), except as noted.

^a AP 42 emission factors for primary crushing and secondary crushing are not available. Emission factors are estimated based on the assumption that emissions are proportional to the relative surface area of the product emerging from the crusher. Secondary crushing emissions are conservatively estimated at 50% of tertiary crushing emissions, and primary crushing emissions are conservatively estimated at 50% of secondary crushing emissions.

^b AP 42 emission factors for screening of rock output from primary crushing are not available. Emission factors are estimated based on the assumption that emissions are proportional to the relative surface area of the product emerging from the crusher. Secondary screening emissions are conservatively estimated at 50% of tertiary crushing emissions, and primary screening emissions are conservatively estimated at 50% of secondary screening emissions.

^c Where there is no data for an emission factor, a blank cell is shown in the emission factor table.

2. Potential to Emit from Rock Crushing and Screening Operations

Purple values are from the inputs page
Blue values are results

Type of Operation	Maximum Throughput (tons/yr)	Emissions (tons/yr) (uncontrolled)		
		PM	PM10	PM2.5
Truck Unloading - Fragmented Stone	8,760,000	0.0701	0.0701	0.0000
Primary Crushing	5,256,000	3.5478	1.5768	0.0000
Screening of Primary Crusher Output	5,256,000	16.4250	5.7159	0.0000
Conveyor Transfer Point	5,256,000	7.8840	2.8908	0.0000
Secondary Crushing	0	0.0000	0.0000	0.0000
Screening of Secondary Crusher Output	0	0.0000	0.0000	0.0000
Conveyor Transfer Point	0	0.0000	0.0000	0.0000
Tertiary Crushing	0	0.0000	0.0000	0.0000
Screening of Tertiary Crusher Output	0	0.0000	0.0000	0.0000
Conveyor Transfer Point	0	0.0000	0.0000	0.0000
Fines Crushing	0	0.0000	0.0000	0.0000
Fines Screening	0	0.0000	0.0000	0.0000
Conveyor Transfer Point	0	0.0000	0.0000	0.0000
Dry Sand and Gravel Screening	7,884,000	1182.6000	283.8240	0.0000
Dry Sand and Gravel Conveying	15,768,000	23.6520	8.6724	0.0000
Truck Loading - Conveyor, crushed stone	8,760,000	0.4380	0.4380	0.0000
Total		1234.617	303.188	0.000

Methodology

Maximum Throughput (tons/yr) = Number of Operations x Maximum Capacity (tons/hr) x 8,760 hr/yr

Emissions (tons/yr) = Maximum Throughput (tons/yr) x Emission factor (lb/ton) x 1 ton/2,000 lbs

Potential To Emit Calculator for Stone Quarrying, Crushing, and Screening Plants

8/23/2016

Emissions from Storage Piles

168,462 Average Annual Product in Piles (ton/yr)
 1.5 Agg. Moisture (%)
 15.00 Mean Wind Speed (MPH)

Purple values are pulled from the inputs worksheet
 Blue values are results

According to AP42, Chapter 13.2.4 - Aggregate Handling and Storage Piles (updated 11/06), the particulate emission factors for storage piles can be estimated from the following equation:

$$E_f = \frac{k \times 0.0032 \times (U/5)^{1.3}}{(M/2)^{1.4}}$$

where:

- Ef = Emission Factor (lbs/ton)
- k = Particle size multipliers = 0.74 for PM, 0.35 for PM₁₀, and 0.053 for PM_{2.5}
- U = Mean wind speed (MPH) = 15 MPH (provided by the facility)
- M = Moisture content (%) = 1.5 % (provided by the facility)

Pollutant	Emission Factor (lb/ton)	Potential to Emit (tons/yr)
PM	0.01478	1.245
PM ₁₀	0.00699	0.589
PM _{2.5}	0.00106	0.089

Methodology

Potential to Emit (ton/yr) = Max. Annual Production (ton/yr) x 1/52 x EF (lb/ton) x 1 ton/2000 lb

Assume that storage piles contain one week's production, on average.

Oscar Renda Contracting, Inc.
General Air Quality Permit for New or Modified Minor Source Stone Quarrying, Crushing, and
Screening Facilities in Indian Country
Navajo Nation Crushing/Screening Operation
Navajo Nation – McKinley and San Juan Counties, New Mexico

Threatened or Endangered Species Requirements

A list of federally-listed species potential occurring in the vicinity of the proposed area of operations for the Navajo Nation Crushing/Screening Operation was obtained through the United States Fish and Wildlife Service (USFWS) Information, Planning, and Conservation System (IPaC) online program on February 12, 2018. A total of 12 threatened, endangered, or candidate species were identified in the official species list generated through the IPaC system. Through both desktop review and a field assessment of suitable habitat, the proposed project is anticipated to have no effect on federally listed species. A copy of the IPaC report is attached.





United States Department of the Interior



FISH AND WILDLIFE SERVICE
New Mexico Ecological Services Field Office
2105 Osuna Road Ne
Albuquerque, NM 87113-1001
Phone: (505) 346-2525 Fax: (505) 346-2542
<http://www.fws.gov/southwest/es/NewMexico/>
http://www.fws.gov/southwest/es/ES_Lists_Main2.html

In Reply Refer To:

February 12, 2018

Consultation Code: 02ENNM00-2018-SLI-0418

Event Code: 02ENNM00-2018-E-00903

Project Name: BOR San Juan Lateral

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

Thank you for your recent request for information on federally listed species and important wildlife habitats that may occur in your project area. The U.S. Fish and Wildlife Service (Service) has responsibility for certain species of New Mexico wildlife under the Endangered Species Act (ESA) of 1973 as amended (16 USC 1531 et seq.), the Migratory Bird Treaty Act (MBTA) as amended (16 USC 701-715), and the Bald and Golden Eagle Protection Act (BGEPA) as amended (16 USC 668-668c). We are providing the following guidance to assist you in determining which federally imperiled species may or may not occur within your project area and to recommend some conservation measures that can be included in your project design.

FEDERALLY-LISTED SPECIES AND DESIGNATED CRITICAL HABITAT

Attached is a list of endangered, threatened, and proposed species that may occur in your project area. Your project area may not necessarily include all or any of these species. Under the ESA, it is the responsibility of the Federal action agency or its designated representative to determine if a proposed action "may affect" endangered, threatened, or proposed species, or designated critical habitat, and if so, to consult with the Service further. Similarly, it is the responsibility of the Federal action agency or project proponent, not the Service, to make "no effect" determinations. If you determine that your proposed action will have "no effect" on threatened or endangered species or their respective critical habitat, you do not need to seek concurrence with the Service. Nevertheless, it is a violation of Federal law to harm or harass any federally-listed threatened or endangered fish or wildlife species without the appropriate permit.

If you determine that your proposed action may affect federally-listed species, consultation with the Service will be necessary. Through the consultation process, we will analyze information contained in a biological assessment that you provide. If your proposed action is associated with Federal funding or permitting, consultation will occur with the Federal agency under section 7(a)(2) of the ESA. Otherwise, an incidental take permit pursuant to section 10(a)(1)(B) of the ESA (also known as a habitat conservation plan) is necessary to harm or harass federally listed threatened or endangered fish or wildlife species. In either case, there is no mechanism for authorizing incidental take "after-the-fact." For more information regarding formal consultation and HCPs, please see the Service's Consultation Handbook and Habitat Conservation Plans at www.fws.gov/endangered/esa-library/index.html#consultations.

The scope of federally listed species compliance not only includes direct effects, but also any interrelated or interdependent project activities (e.g., equipment staging areas, offsite borrow material areas, or utility relocations) and any indirect or cumulative effects that may occur in the action area. The action area includes all areas to be affected, not merely the immediate area involved in the action. Large projects may have effects outside the immediate area to species not listed here that should be addressed. If your action area has suitable habitat for any of the attached species, we recommend that species-specific surveys be conducted during the flowering season for plants and at the appropriate time for wildlife to evaluate any possible project-related impacts.

Candidate Species and Other Sensitive Species

A list of candidate and other sensitive species in your area is also attached. Candidate species and other sensitive species are species that have no legal protection under the ESA, although we recommend that candidate and other sensitive species be included in your surveys and considered for planning purposes. The Service monitors the status of these species. If significant declines occur, these species could potentially be listed. Therefore, actions that may contribute to their decline should be avoided.

Lists of sensitive species including State-listed endangered and threatened species are compiled by New Mexico state agencies. These lists, along with species information, can be found at the following websites:

Biota Information System of New Mexico (BISON-M): www.bison-m.org

New Mexico State Forestry. The New Mexico Endangered Plant Program:
www.emnrd.state.nm.us/SFD/ForestMgt/Endangered.html

New Mexico Rare Plant Technical Council, New Mexico Rare Plants: nmrareplants.unm.edu

Natural Heritage New Mexico, online species database: nhnm.unm.edu

WETLANDS AND FLOODPLAINS

Under Executive Orders 11988 and 11990, Federal agencies are required to minimize the destruction, loss, or degradation of wetlands and floodplains, and preserve and enhance their natural and beneficial values. These habitats should be conserved through avoidance, or mitigated to ensure that there would be no net loss of wetlands function and value.

We encourage you to use the National Wetland Inventory (NWI) maps in conjunction with ground-truthing to identify wetlands occurring in your project area. The Service's NWI program website, www.fws.gov/wetlands/Data/Mapper.html integrates digital map data with other resource information. We also recommend you contact the U.S. Army Corps of Engineers for permitting requirements under section 404 of the Clean Water Act if your proposed action could impact floodplains or wetlands.

MIGRATORY BIRDS

The MBTA prohibits the taking of migratory birds, nests, and eggs, except as permitted by the Service's Migratory Bird Office. To minimize the likelihood of adverse impacts to migratory birds, we recommend construction activities occur outside the general bird nesting season from March through August, or that areas proposed for construction during the nesting season be surveyed, and when occupied, avoided until the young have fledged.

We recommend review of Birds of Conservation Concern at website www.fws.gov/migratorybirds/CurrentBirdIssues/Management/BCC.html to fully evaluate the effects to the birds at your site. This list identifies birds that are potentially threatened by disturbance and construction.

BALD AND GOLDEN EAGLES

The bald eagle (*Haliaeetus leucocephalus*) was delisted under the ESA on August 9, 2007. Both the bald eagle and golden eagle (*Aquila chrysaetos*) are still protected under the MBTA and BGEPA. The BGEPA affords both eagles protection in addition to that provided by the MBTA, in particular, by making it unlawful to "disturb" eagles. Under the BGEPA, the Service may issue limited permits to incidentally "take" eagles (e.g., injury, interfering with normal breeding, feeding, or sheltering behavior nest abandonment). For information on bald and golden eagle management guidelines, we recommend you review information provided at www.fws.gov/midwest/eagle/guidelines/bgepa.html.

On our web site www.fws.gov/southwest/es/NewMexico/SBC_intro.cfm, we have included conservation measures that can minimize impacts to federally listed and other sensitive species. These include measures for communication towers, power line safety for raptors, road and highway improvements, spring developments and livestock watering facilities, wastewater facilities, and trenching operations.

We also suggest you contact the New Mexico Department of Game and Fish, and the New Mexico Energy, Minerals, and Natural Resources Department, Forestry Division for information regarding State fish, wildlife, and plants.

Thank you for your concern for endangered and threatened species and New Mexico's wildlife habitats. We appreciate your efforts to identify and avoid impacts to listed and sensitive species in your project area. For further consultation on your proposed activity, please call 505-346-2525 or email nmesfo@fws.gov and reference your Service Consultation Tracking Number.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New Mexico Ecological Services Field Office

2105 Osuna Road Ne

Albuquerque, NM 87113-1001

(505) 346-2525

Project Summary

Consultation Code: 02ENNM00-2018-SLI-0418

Event Code: 02ENNM00-2018-E-00903

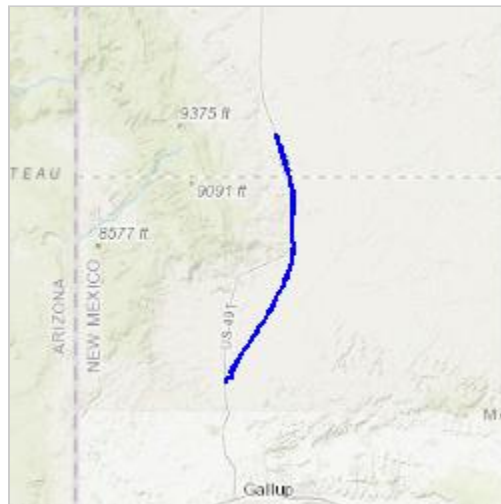
Project Name: BOR San Juan Lateral

Project Type: ** OTHER **

Project Description: Pipeline installation project

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/35.885038173859904N108.65235108015354W>



Counties: McKinley, NM | San Juan, NM

Endangered Species Act Species

There is a total of 12 threatened, endangered, or candidate species on this species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 1 of these species should be considered only under certain conditions. See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

Mammals

NAME	STATUS
Canada Lynx <i>Lynx canadensis</i> Population: Wherever Found in Contiguous U.S. There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3652	Threatened
New Mexico Meadow Jumping Mouse <i>Zapus hudsonius luteus</i> There is final critical habitat for this species. Your location is outside the critical habitat. This species only needs to be considered under the following conditions: <ul style="list-style-type: none"> ▪ If project affects dense herbaceous riparian vegetation along waterways (stream, seep, canal/ditch). Species profile: https://ecos.fws.gov/ecp/species/7965	Endangered

Birds

NAME	STATUS
Mexican Spotted Owl <i>Strix occidentalis lucida</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8196	Threatened
Southwestern Willow Flycatcher <i>Empidonax traillii extimus</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6749	Endangered
Yellow-billed Cuckoo <i>Coccyzus americanus</i> Population: Western U.S. DPS There is proposed critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3911	Threatened

Fishes

NAME	STATUS
Colorado Pikeminnow (=squawfish) <i>Ptychocheilus lucius</i> Population: Wherever found, except where listed as an experimental population There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3531	Endangered
Razorback Sucker <i>Xyrauchen texanus</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/530	Endangered
Zuni Bluehead Sucker <i>Catostomus discobolus yarrowi</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3536	Endangered

Flowering Plants

NAME	STATUS
Knowlton's Cactus <i>Pediocactus knowltonii</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1590	Endangered
Mancos Milk-vetch <i>Astragalus humillimus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/7483	Endangered
Mesa Verde Cactus <i>Sclerocactus mesae-verdae</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6005	Threatened
Zuni Fleabane <i>Erigeron rhizomatus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5700	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

Oscar Renda Contracting, Inc.
**General Air Quality Permit for New or Modified Minor Source Stone Quarrying, Crushing, and
Screening Facilities in Indian Country**
Navajo Nation Crushing/Screening Operation
Navajo Nation – McKinley and San Juan Counties, New Mexico

Historic Property Screening Process

The Bureau of Reclamation has performed the necessary desktop and field reviews to determine that the implementation of the pipeline project and its on-site support activities, including the construction and operation of the Navajo Nation Crushing/Screening Operation, will not impact any nearby historic properties. A copy of documentation supporting this finding is available upon request.





**United States Environmental Protection Agency
General Permit for New or Modified Minor Sources of Air
Pollution in Indian Country**

<http://www.epa.gov/air/tribal/tribalnsr.html>

**General Air Quality Permit for New or Modified Minor Source Stone Quarrying,
Crushing, and Screening Facilities in Indian Country**

Last Modified: April 6, 2015

Information about this General Permit:

Applicability

Pursuant to the provisions of the Clean Air Act (CAA), Subchapter I, part D and 40 CFR part 49, subpart C, this permit authorizes the construction or modification and the operation of each stationary and portable stone quarrying, rock crushing, and screening plant for which a reviewing authority issues an Approval of the Request for Coverage (permitted source).

Eligibility

To be eligible for coverage under this General Permit, the permitted source must qualify as a minor source as defined in 40 CFR 49.152.

Request for Coverage

Requirements for submitting a Request for Coverage are contained in Section 7 of this General Permit.

Incorporation of Documents

The information contained in each reviewing authority's Approval of the Request of Coverage is hereby incorporated into this General Permit.

Termination

Section 6 of this General Permit addresses a reviewing authority's ability to revise, revoke and reissue, or terminate this General Permit. It also addresses the reviewing authority's ability to terminate an individual permitted source's Approval of the Request for Coverage under this General Permit.

Definitions

The terms used herein shall have the meaning as defined in 40 CFR 49.152, unless otherwise defined in Attachment B of this permit. If a term is not defined, it shall be interpreted in accordance with normal business use.

Permit Terms and Conditions

The following applies to each permittee and permitted source with respect to only the affected emissions units and any associated air pollution control technologies in that permitted source's Approval of the Request for Coverage.

Section 1: General Provisions

1. *Construction and Operation*

The permittee shall construct or modify and shall operate the affected emissions units and any associated air pollution control technologies in compliance with this permit and all other applicable federal air quality regulations; and in a manner consistent with representations made by the permittee in the Request for Coverage, to the extent the reviewing authority relies upon these representations in issuing the Approval of the Request for Coverage.

2. *Locations*

This permit only authorizes the permittee to construct or modify and to operate the permitted source in the location(s) listed in the reviewing authority's Approval of the Request for Coverage for that permitted source.

3. *Liability*

This permit does not release the permittee from any liability for compliance with other applicable federal and tribal environmental laws and regulations, including the CAA.

4. *Severability*

The provisions of this permit are severable. If any portion of this permit is held invalid, the remaining terms and conditions of this permit shall remain valid and in force.

5. *Compliance*

The permittee must comply with all provisions of this permit, including those set forth in the attachments and emission limitations that apply to the affected emissions units at the permitted source. Noncompliance with any permit provision is a violation of the permit and may constitute a violation of the CAA; is grounds for an enforcement action; and is grounds for the reviewing authority to revoke the Approval of the Request for Coverage and terminate the permitted source's coverage under this General Permit.

6. *National Ambient Air Quality Standards (NAAQS)/Prevention of Significant Deterioration (PSD) Protection*

The permitted source must not cause or contribute to a NAAQS violation or, in an attainment area, must not cause or contribute to a PSD increment violation.

7. *Unavailable Defense*

It is not a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the provisions of this permit.

8. *Property Rights*

This permit does not convey any property rights of any sort or any exclusive privilege.

9. *Information Requests*

You, as the permittee, shall furnish to the reviewing authority, within 30 days unless another timeframe is specified by the EPA, any information that the reviewing authority may request in writing to determine whether cause exists for revising, revoking and reissuing, or terminating coverage under the permit or to determine compliance with the permit. For any such information claimed to be confidential, the permittee must submit a claim of confidentiality in accordance with 40 CFR part 2 subpart B.

10. *Inspection and Entry*

Upon presentation of proper credentials, the permittee must allow a representative of the reviewing authority to:

- a. Enter upon the premises where a permitted source is located or emissions-related activity is conducted or where records are required to be kept under the conditions of the permit;
- b. Have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
- c. Inspect, during normal business hours or while the permitted source is in operation, any facilities, equipment (including monitoring and air pollution control equipment), practices or operations regulated or required under the permit;
- d. Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or other applicable requirements and
- e. Record any inspection by use of written, electronic, magnetic and photographic media.

11. *Posting of Coverage*

The most current Approval of the Request for Coverage for the permitted source, must be posted prominently at the facility, and each affected emissions unit and any associated air pollution control technology must be labeled with the identification number listed in the Approval of the Request for Coverage for that permitted source.

12. *Duty to Obtain Source-specific Permit*

If the reviewing authority intends to terminate a permitted source's coverage under this General Permit for cause as provided in Section 6 of this General Permit, then the permittee shall apply for and obtain a source-specific permit as required by the reviewing authority.

13. *Credible Evidence*

For the purpose of establishing whether the permittee violated or is in violation of any requirement of this permit, nothing shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether a permitted source would have been in compliance with applicable requirements if the permittee had performed the appropriate performance or compliance test or procedure.

Section 2: Emission Limitations and Standards

14. The permittee shall install, maintain, and operate each affected emissions unit, including any associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions of New Source Review regulated pollutants and considering the manufacturer's recommended operating procedures at all times, including periods of startup, shutdown, maintenance and malfunction. The reviewing authority will determine whether the permittee is using acceptable operating and maintenance procedures based on information available to the reviewing authority which may include, but

is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the permitted source.

15. Except as specified in Condition 16, maximum raw material throughput shall not exceed 1,100,000 tons-per-month based on a 12-month rolling average.
16. The following throughput limit applies when sources are co-located with hot mix asphalt plants and have elected to comply with this limit: maximum raw material throughput shall not exceed 730,000 tons-per-month based on a 12-month rolling average. The requirement to comply with this limit shall be specified in the Approval of the Request for Coverage.
17. Fuel combustion in stationary internal combustion engines shall be limited to diesel and biodiesel.
18. Diesel and biodiesel shall contain no more than 0.0015 percent sulfur by weight.
19. The combined fuel consumption in all engines and generators, excluding nonroad mobile engines, in any calendar month shall not exceed:
 - a. 24,200 gallons if the permitted source is located in an ozone attainment, unclassifiable or attainment/unclassifiable area or a marginal or moderate ozone nonattainment area; or
 - b. 12,000 gallons if the permitted source is located in a serious ozone nonattainment area;
 - c. 5,500 gallons if the permitted source is located in a severe ozone nonattainment area;
 - d. 1,900 gallons if the permitted source is located in an extreme ozone nonattainment area; or
 - e. 18,275 gallons if the Approval of Request for Coverage requires the permitted source to comply with this condition, Condition 19.e. This fuel consumption limit includes any fuel use at a co-located Hot Mix Asphalt operation.
20. Emissions from all crushers, screens, drop points, and other possible release points shall be controlled by wet suppression.
21. Fugitive emissions from stone quarrying, rock crushing, and screening operations shall not exceed:
 - a. 12 percent opacity for crushers; and
 - b. 7 percent opacity, at other affected emissions units.
22. Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the emission limits in Condition 21.
23. The permittee shall comply with the fugitive dust control plan in Attachment C.
24. Each affected compression ignition engine, excluding nonroad mobile engines, shall comply with the following limitations and standards:
 - a. Each compression ignition engine that commenced construction on or after June 12, 2006 must be certified to the applicable Tier standards in 40 CFR 89.112 and 40 CFR 1039.101 through 1039.104, for all pollutants, for the same model year and maximum engine power.
 - b. Each compression ignition engine that commenced construction before June 12, 2006 shall meet the following standards based on the engine's maximum rated power.

Maximum Engine Power Rating	Emission Standard
≤ 300 HP	(a) Change oil and filter every 1,000 hours of operation or annually, whichever comes first; (b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; (c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
300 < HP ≤ 500	Limit carbon monoxide (CO) to 49 ppm _{vd} @ 15% O ₂ OR reduce CO emissions by 70 percent or more. Emissions shall be controlled through the use of an oxidation catalyst. Engines certified to Tier 3 standards in 40 CFR 89.112 are exempt from this limit.
HP > 500	Limit CO to 23 ppm _{vd} @ 15% O ₂ OR reduce CO emissions by 70 percent or more. Emissions shall be controlled through the use of an oxidation catalyst. Engines rated at less than or equal to 560kW that are certified to Tier 3 standards in 40 CFR 89.112 are exempt from this limit. Engines rated at greater than 560kW that are certified to Tier 2 standards in 40 CFR 89.122 are exempt from this limit.

25. No affected compression ignition engine, excluding nonroad mobile engines, shall discharge into the atmosphere any gases that exhibit 20 percent opacity or greater averaged over any six-consecutive-minute period.

Section 3: Monitoring and Testing Requirements

26. *Wet Suppression Monitoring*

At least once during each calendar month the permitted source operates, the permittee shall inspect to check that water is flowing to discharge spray nozzles in the wet suppression system. The owner or operator must initiate corrective action within 24 hours and complete corrective action as expediently as practical.

27. *Visible Emissions Survey*

At least once during each calendar week in which the permitted source operates, the permittee shall perform a visible emissions survey of all affected emissions units subject to the opacity limit in Condition 21. The survey shall be performed during daylight hours by an individual trained in EPA Method 22 while the permitted source is in operation. If visible emissions are detected during the survey, the permittee shall either:

- a. Take corrective action so that within 24 hours no visible emissions are detected from any affected emissions units while they are in operation; or
- b. Demonstrate compliance with the opacity limit at all affected emissions units that discharged visible emissions during the survey using EPA Method 9 by an individual trained and certified in Method 9.

28. *Fugitive Emissions Survey*

At least once during each calendar week in which the permitted source operates, the permittee shall survey the facility for visible fugitive emissions. If fugitive emissions are detected crossing the property line, the permittee shall take corrective actions according to the attached fugitive dust control plan (Attachment C).

29. *Initial Performance Test*

Within 60 days after achieving the maximum production rate at which the permitted source will operate the affected emissions unit(s), but not later than 180 days after the first day of operation after the reviewing authority issues the Approval of the Request for Coverage, the permittee shall perform an initial performance test to verify compliance with the applicable opacity limitations in Condition 21. Performance tests shall be performed:

- a. According to a test plan approved by the reviewing authority;
- b. While the permitted source is operating under typical operating conditions;
- c. Using test Method 9 from 40 CFR part 60, appendix A with the following modifications:
 - i. The observer shall stand at least 15 feet from the emissions source;
 - ii. The observer shall, when possible, select a position that minimizes interference from other fugitive emissions sources; and
 - iii. Water used for wet suppression shall not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible; and
- d. The duration of each Method 9 test shall be at least 30 minutes.

Compliance with each opacity limit shall be determined based on the average of at least five six-minute averages.

30. *Additional Performance Test(s)*

Ongoing performance tests meeting the criteria of the initial performance tests in Condition 29 shall be performed whenever required by the reviewing authority but at least every five years.

31. *Performance Test for Engines*

Within 60 days after achieving the maximum production rate at which the permitted source will operate, but not later than 180 days after the first day of operation after the Approval of Request for Coverage is issued by the reviewing authority the permittee shall perform a performance test to verify compliance with the CO and emission limits in Condition 24, as applicable, as follows:

- a. According to a test plan approved by the reviewing authority;
- b. While the stone quarrying, crushing, and screening facility is operating under typical operating conditions;
- c. Using test methods from 40 CFR part 60, appendix A, or portable analyzers allowed by 40 CFR part 63, subpart ZZZZ, unless alternative methods are approved by the reviewing authority in writing in advance of the test;
- d. While the catalyst inlet temperature and pressure drop are being monitored and recorded;
- e. Upon completion of the performance test, the permittee shall establish the operating range for the catalyst inlet temperature based on a 4-hour average and the pressure drop across the catalyst; and
- f. The permittee shall conduct subsequent performance tests according to this paragraph whenever required by the reviewing authority.

The permitted source may substitute the results of the most recent performance test performed on the engine(s) in lieu of conducting the performance test for engines required above, provided that the most recent performance test was conducted within two years of the first day of operation after the Approval of Request for Coverage is issued by the reviewing authority, and, was conducted according to the requirements in Conditions 31.a-f. above.

32. *Continuous Parameter Monitoring at Engines*

For each engine greater than 500 hp subject to a CO emission limitation, the permittee shall install, operate, and maintain a continuous parameter monitoring system according to the methods in 40 CFR 63.6625(b) to continuously monitor catalyst inlet temperature. Catalyst temperature data shall be reduced to 4-hour rolling averages. The permittee shall maintain the 4-hour rolling average catalyst inlet temperature within the operating parameter established during the most recent performance test.

33. *Pressure Drop Monitoring at Engines*

For each engine greater than 500 hp subject to a CO emission limitation, the permittee shall monitor the pressure drop across the catalyst on a monthly basis. The permittee shall ensure the pressure drop across the catalyst is within the operating parameter established during the most recent performance test.

Section 4: Recordkeeping Requirements

34. The permittee shall maintain all records required to be kept by this permit for at least five years from the date of origin, unless otherwise stated, either onsite or at a convenient location, such that they can be delivered to the reviewing authority within 24 hours of a request.

35. The permit application and all documentation supporting that application shall be maintained by the permittee for the duration of time the affected emissions unit(s) is covered under this permit.

36. Each month the permitted source shall record the amounts of crushed rock, stone, sand, and gravel processed (in tons) and the 12-month rolling average.

37. The types and quantities of fuel combusted in engines and generators shall be recorded each calendar month.

38. The dates and results of each wet suppression system monitoring performed pursuant to Condition 26, any corrective action taken as a result of each survey, and the result of any corrective action taken shall be recorded.

39. The dates and results of each visible emissions survey performed pursuant to Condition 27 shall be recorded. At a minimum, records shall include:

- a. The name of the person, company or entity conducting the survey;
- b. Whether visible emissions were detected from any affected emissions unit;
- c. Any corrective action taken;
- d. The result of any corrective action; and
- e. The results of any Method 9 tests performed.

40. The dates and results of each fugitive emissions survey performed pursuant to Condition 28, any corrective action taken as a result of each survey, and the result of any corrective action taken shall be recorded.
41. The results of each performance test conducted pursuant to Condition 29, 30, or 31 shall be recorded. At a minimum, the permittee shall maintain records of:
 - a. The date of each test;
 - b. Each test plan;
 - c. Any documentation required to approve an alternate test method;
 - d. Test conditions, including the amounts and types of products produced and the operating parameters of any control equipment;
 - e. The results of each test; and
 - f. The name of the company or entity conducting the analysis.
42. A log of all maintenance activities conducted on each engine, excluding nonroad mobile engines, shall be recorded.
43. The date, time, and duration of each deviation from the established catalyst operating parameters for each engine, corrective actions taken to return the equipment to normal operation and the results of any corrective action taken shall be recorded.

Section 5: Notification and Reporting Requirements

44. *Notification of Construction or Modification, and Operations*

The permittee shall submit a written or electronic notice to the reviewing authority within 30 days from when the permittee begins actual construction, and within 30 days from when the permittee begins initial operations or resumes operation after a modification.

45. *Notification of Relocation*

When a permittee intends to relocate the permitted source to an alternate location contained in the Approval of the Request for Coverage, then the permittee must notify the reviewing authority electronically within 30 days before or after such relocation. The notification must identify the owner, the preceding location, and the new location of the permitted source.

46. *Notification of Change in Ownership or Operator*

If the permitted source changes ownership or operator, then the new owner or operator must submit a written or electronic notice to the reviewing authority within 90 days after the change in ownership or operator is effective. In the report, the new permittee must provide the reviewing authority a written agreement containing a specific date for transfer of ownership or operator, and an effective date on which the new owner or operator assumes partial and/or full coverage and liability under this permit. The submittal must identify the previous owner or operator, and update the name, street address, mailing address, contact information, and any other information about the permitted source if it would change as a result of the change of ownership or operator. The current owner or operator shall ensure that the permitted source remains in compliance with the General Permit until any such transfer of ownership or operator is effective.

47. *Notification of Closure*

The permittee must submit a report of any permanent or indefinite closure to the reviewing authority in writing within 90 days after the cessation of all operations at the permitted source. The notification must identify the owner, the current location, and the last operating location of the permitted source. It is not necessary to submit a report of closure for regular, seasonal closures.

48. *Annual Reports*

The permittee shall submit an annual report on or before March 15 of each calendar year to the reviewing authority. The annual report shall cover the period from January 1 to December 31 of the previous calendar year and shall include:

- a. An evaluation of the permitted source's compliance status with the requirements in Section 2 for each location in which the permitted source located during the calendar year;
- b. Summaries of the required monitoring and recordkeeping in Sections 3 and 4; and
- c. Summaries of deviation reports submitted pursuant to Condition 49.

49. *Deviation Reports*

The permittee shall promptly report to the reviewing authority any deviations as defined at 40 CFR 71.6(a)(3)(iii)(C) from permit requirements including deviations attributable to upset conditions. Deviation reports shall include:

- a. The identity of affected emissions unit where the deviation occurred.
- b. The nature of the deviation;
- c. The length of time of the deviation;
- d. The probable cause of the deviation; and
- e. Any corrective actions or preventive measures taken as a result of the deviation to minimize emissions from the deviation and to prevent future deviations.
- f. For the purposes of this permit, *promptly* shall be defined to mean:
 - i. Within 72 hours of discovery for deviations from any emission limit in Condition 20 and any opacity limit in Condition 21; or
 - ii. Within 30 days after the end of the month in which the permittee discovered the deviation, for all other deviations.

50. *Performance Test Reports*

The permittee shall submit a test report to the reviewing authority within 45 days after the completion of any required performance test. At a minimum, the test report shall include:

- a. A description of the affected emissions unit and sampling location(s);
- b. The time and date of each test;
- c. A summary of test results, reported in units consistent with the applicable standard;
- d. A description of the test methods and quality assurance procedures used;
- e. A summary of any deviations from the proposed test plan and justification for why the deviation(s) was necessary;
- f. The amount of fuel burned, raw material consumed, and product produced during each test run;
- g. Operating parameters of the affected emissions unit and control equipment during each test run;
- h. Sample calculations of equations used to determine test results in the appropriate units; and
- i. The name of the company or entity performing the analysis.

51. *Reporting and Notification Address*

The permittee shall send all required reports to the reviewing authority at the mailing address(es) specified in the Approval of the Request for Coverage.

52. *Signature Verifying Truth, Accuracy, and Completeness*

All reports required by this permit shall be signed by a responsible official as to the truth, accuracy, and completeness of the information. The report must state that, based on information and belief formed after reasonable inquiry, the statements and information are true, accurate, and complete. If the permittee discovers that any reports or notification submitted to the reviewing authority contain false, inaccurate, or incomplete information, the permittee shall notify the reviewing authority immediately and correct or amend the report as soon as practicable.

Section 6: Changes to this General Permit

53. *Revising, Reopening, Revoking and Reissuing, or Terminating for Cause*

The permit may be revised, reopened, revoked and reissued, or terminated for cause. The filing of a request by you, the permittee, for a permit revision, revocation and re-issuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. This provision also applies to the documents incorporated by reference.

54. *Terminating Coverage Under this Permit*

The reviewing authority may terminate a previously issued Approval of the Request for Coverage, and thereby terminate that permittee's authorization to construct or modify, and that permitted source's authorization to operate under this General Permit for cause as defined in Attachment B. The reviewing authority may provide the permittee with notice of the intent to terminate, and delay the effective date of the termination to allow the permittee to obtain a source-specific permit as required by the reviewing authority.

55. *Change in Ownership or Operator*

If the permitted source changes ownership or operator, the reviewing authority may change the Approval of the Request of Coverage to reflect the new ownership or operator in accordance with the administrative amendment provisions in 40 CFR 49.159(f).

56. *Permit Becomes Invalid*

Authority to construct and operate under this permit becomes invalid if the permittee does not commence construction within 18 months after the effective date of the request for coverage under a general permit, if the permittee discontinues construction for a period of 18 months or more, or if the permittee does not complete construction within a reasonable time. The reviewing authority may extend the 18-month period upon a satisfactory showing that an extension is justified, according to 40 CFR 49.156(e)(8).

Section 7: Obtaining Coverage under this General Permit

57. To obtain coverage under this General Permit, an applicant must submit a Request for Coverage to the appropriate reviewing authority for the area in which the permitted source is or will be located (the Request for Coverage Form can be found at: <http://www.epa.gov/air/tribal/tribalnsr.html>). Attachment D contains a list of reviewing authorities and their area of coverage.

58. If the plant will locate in area covered by more than one reviewing authority, the applicant need only submit a Request for Coverage to one reviewing authority with regard to all intended locations of operation. The Request for Coverage must contain the information requested in the standard application form for this permit. You must also submit a copy of the Request for Coverage to the Indian governing body for every area in which the permitted source plans operate.

Attachment A: Abbreviations and Acronyms

ASTM	American Society for Testing and Materials
CAA or the Act	Federal Clean Air Act
CFR	Code of Federal Regulations
CO	carbon monoxide
EPA	United States Environmental Protection Agency
gr/dscf	gram per dry standard cubic foot
Hg	mercury
hp	horsepower
kW	kilowatt
NAAQS	National Ambient Air Quality Standards
NSR	New Source Review
ppm	parts per million
ppm _{vd}	parts per million by volume, dry basis
PSD	Prevention of Significant Deterioration

Attachment B: Definitions

For the purposes of this General Permit:

Approval of the Request for Coverage means a reviewing authority's letter granting an applicant's request for construction or modification, and operation of a minor source under the terms and conditions of this General Permit.

Biodiesel means a combustion fuel made from fatty acids or methyl esters that complies with the specifications of ASTM 6751

Cause means with respect to the reviewing authority's ability to terminate a permitted source's coverage under a permit that:

1. The permittee is not in compliance with the provisions of this General Permit;
2. The reviewing authority determines that the emissions resulting from the construction or modification of the permitted source significantly contribute to NAAQS violations, which are not adequately addressed by the requirements in this General Permit;
3. The reviewing authority has reasonable cause to believe that the permittee obtained Approval of the Request for Coverage by fraud or misrepresentation; or
4. The permittee failed to disclose a material fact required by the Request for Coverage or the regulations applicable to the permitted source of which the applicant had or should have had knowledge at the time the permittee submitted the Request for Coverage.

Construction means any physical change or change in the method of operation including fabrication, erection, installation, demolition, or modification of an affected emissions unit that would result in a change of emissions.

Permittee means the owner or operator of a permitted source.

Permitted source means each stationary and portable stone quarrying, rock crushing and screening facility for which a reviewing authority issues an Approval of the Request for Coverage.

Request for Coverage means a permit application that contains all the information required in the standard application form.

Responsible official means one of the following:

1. For a corporation: a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is directly responsible for the overall operation of the permitted source.
2. For a partnership or sole proprietorship: a general partner or the proprietor, respectively.
3. For a public agency: Either a principal executive officer or ranking elected official, such as a chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

Standard cubic foot means a measure of the quantity of a gas equal to a cubic foot of volume at a temperature of 68 °F and a pressure of 29.92 in. Hg.

Attachment C: Dust Control Plan

1. *Site Roadways and Plant Yard*
 - a. The dust on the site roadways/plant yard shall be controlled by applications of water, calcium chloride or other acceptable fugitive dust control compound approved by the reviewing authority. Applications of dust suppressants shall be done as often as necessary to meet all applicable emission limits.
 - b. All paved roadways/plant yards shall be swept as needed between applications.
 - c. Any material spillage on roads shall be cleaned up immediately.

2. *Plant*
 - a. The drop distance at each transfer point shall be reduced to the minimum the equipment can achieve.
 - b. The transfer point from the re-circulating belt to the feed belt shall be equipped with an enclosed chute.

3. *Storage Piles*
 - a. Stockpiling of all nonmetallic minerals shall be performed to minimize drop distance and control potential dust problems.
 - b. Stockpiles shall be watered on an as needed basis in order to meet the opacity limits. Also, equipment to apply water or dust suppressant shall be available at the site, or on call for use at the site, within a given operating day.

4. *Truck Traffic*
 - a. Vehicles shall be loaded to prevent their contents from dropping, leaking, blowing or otherwise escaping. This shall be accomplished by loading so that no part of the load shall come in contact within six (6) inches of the top of any side board, side panel or tail gate; otherwise, the truck shall be tarped.
 - b. A speed limit sign of 15 miles-per-hour or lower shall be posted on site so that it is visible to truck traffic.

5. *Corrective Actions*

If corrective action needs to be taken, the permittee shall consider and use one or more of the following options: adjust the watering and/or sweeping frequencies, reduce drop distances, increase cover, and/or take other actions to reduce fugitive dust emissions.

Attachment D – List of Reviewing Authorities and Areas of Coverage

EPA Region	Address for Notification of Coverage	Address for All Other Notifications and Reports	Area Covered	Phone Number
Region I	EPA New England 5 Post Office Square, Suite 100 Mail Code OEP05-2 Boston, MA 02109-3912	EPA New England 5 Post Office Square, Suite 100 Mail Code OES04-2 Boston, MA 02109-3912	Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont	888- 372-7341 617-918-1111
Region II	Chief, Air Programs Branch Clean Air and Sustainability Division EPA Region 2 290 Broadway, 25 th Floor New York, NY 10007-1866	Chief, Air Compliance Branch Division of Enforcement and Compliance Assistance EPA Region 2 290 Broadway, 21 st Floor New York, NY 10007-1866	New Jersey, New York, Puerto Rico, and Virgin Islands	877-251-4575
Region III	Office of Permits and Air Toxics 3AP10 EPA Region 3 1650 Arch Street Philadelphia, PA 19103	Office of Air Enforcement and Compliance Assurance 3AP20 EPA Region 3 1650 Arch Street Philadelphia, PA 19103	Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia	800-438-2474 215-814-5000
Region IV	Chief, Air Permits Section EPA Region 4 APTMD 61 Forsyth Street Atlanta, GA 30303	Chief, Air & EPCRA Enforcement Branch EPA Region 4 APTMD 61 Forsyth Street, SW Atlanta, GA 30303	Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee	800-241-1754 404-562-9000
Region V	Air Permits Section Air Programs Branch (AR-18J) EPA Region 5 77 West Jackson Blvd Chicago, Illinois 60604	Air Enforcement and Compliance Assurance Branch (AE-17J) Air and Radiation Division EPA Region 5 77 West Jackson Blvd Chicago, Illinois 60604	Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin	800-621-8431 312-353-2000

EPA Region	Address for Notification of Coverage	Address for All Other Notifications and Reports	Area Covered	Phone Number
Region VI	Multimedia Planning and Permitting Division EPA Region 6 1445 Ross Avenue (6PD-R) Dallas, TX 75202	Compliance and Enforcement Correspondence: Compliance Assurance and Enforcement Division EPA Region 6 1445 Ross Avenue (6EN) Dallas, TX 75202	Arkansas, Louisiana, New Mexico, Oklahoma, and Texas	800-887-6063 214-665-2760
Region VII	Chief, Air Permitting & Compliance Branch EPA Region 7 11201 Renner Blvd Lenexa, KS 66219	Chief, Air Permitting & Compliance Branch EPA Region 7 11201 Renner Blvd Lenexa, KS 66219	Iowa, Kansas, Missouri, and Nebraska	800-223-0425 913-551-7003
Region VIII	U.S. Environmental Protection Agency, Region 8 Office of Partnerships and Regulatory Assistance Tribal Air Permitting Program, 8P-AR 1595 Wynkoop Street Denver, Colorado 80202	U.S. Environmental Protection Agency, Region 8 Office of Enforcement, Compliance & Environmental Justice Air Toxics and Technical Enforcement Program, 8ENF-AT 1595 Wynkoop Street Denver, Colorado 80202	Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming	800-227-8917 303-312-6312
Region IX	Chief, Permits Office (Air-3) Air Division EPA Region 9 75 Hawthorne St San Francisco, CA 94105	Enforcement Division Director Attn: Air & TRI Section (ENF-2-1) EPA Region 9 75 Hawthorne St San Francisco, CA 94105	American Samoa, Arizona, California, Guam, Hawaii, Navajo Nation Nevada, and Northern Mariana Islands	866-EPA-9378 415-947-8000
Region X	Tribal Air Permits Coordinator U.S. EPA, Region 10, AWT-150 1200 Sixth Avenue, Suite 900 Seattle, WA 98101	Tribal Air Permits Coordinator U.S. EPA, Region 10, AWT-150 1200 Sixth Avenue, Suite 900 Seattle, WA 98101	Alaska, Idaho, Oregon, and Washington	800-424-4372 206-553-1200