

PRECONSTRUCTION ANALYSIS
FOR
ROCKY GLADE FUND, LLC
302-0022
UNIT X001

Rocky Glade Fund, LLC, (RGF) of Opelika, AL, has applied to the ADEM - Air Division for an Air Permit which would authorize the construction and operation of a granite crushing, screening, and conveying circuit at the Rocky Glades Pit located in Chambers County. RGF is applying for an Air Permit for the following circuit:

X001 – 242 TPH Crushing, Screening, and Conveying Circuit with Wet Suppression (NSPS-OOO)

X001 Process Description:

Aggregate material would be fed, by dump truck, into the crushing, screening, and conveying circuit for processing. Processed material would then be conveyed to stockpiles. (See flow diagram in the application)

All equipment associated with this circuit was manufactured on or after April 22, 2008. 40 CFR Part 60, Subpart OOO NSPS limits visible emissions from uncontrolled crushers to 12% opacity and limits visible emissions from grinding mills, screening operations, bucket elevators, belt conveyors, bagging operations, storage bins, and enclosed truck or railcar loading stations, or from any other affected facility to 7% opacity. Wet processes are exempt from regulation by this subpart. In addition to the opacity requirements, there are periodic monitoring and testing requirements, as well as recordkeeping requirements to remain in compliance with NSPS Subpart OOO, as promulgated on April 28, 2009. Monthly inspections are required for all spray nozzles in wet suppression areas and for areas controlled by carry over moisture from upstream wet suppression. If inspections of the upstream spray nozzles are not conducted, the carry over areas will be subject to the five year interval retest requirement. All areas not controlled by wet suppression or carry over shall be required to retest every five years. Records of all periodic monitoring inspections, dates, results, and any corrective action taken shall be kept at the facility site, available for inspection.

RGF, will be required to conduct an EPA Method 9 visible emissions observation on the NSPS equipment associated with this circuit.

Process X001

<i>Manufacturer</i>	<i>Type</i>	<i>Maximum Operating Capacity</i>	<i>Manufacturer's Date</i>	<i>NSPS/SIP</i>	<i>Testing?</i>
Shop Built	Hopper H-1	434 TPH	2024	SIP	No
Simplicity	Vibrating Grizzly Feeder F-1	300 TPH	2024	SIP	No
Lippmann	Primary Crusher JC-1	242 TPH	2024	NSPS	Yes
Lippmann	Conveyor C-1	434 TPH	2024	NSPS	Yes
Shop Built	Apron Feeder F-2	434 TPH	2024	NSPS	Yes

Superior	Conveyor C-2	434 TPH	2024	NSPS	Yes
Metso	Triple Deck Screen SCR -1	434 TPH	2024	NSPS	Yes
Metso	Conveyor C-3	434TPH	2024	NSPS	Yes
Metso	Conveyor C-4	434 TPH	2024	NSPS	Yes
Superior	Conveyor C-5	434 TPH	2024	NSPS	Yes
Sandvik	Cone Crusher CC-1	242 TPH	2024	NSPS	Yes
Superior	Conveyor C-6	434 TPH	2024	NSPS	Yes
Superior	Conveyor C-7	434 TPH	2024	NSPS	Yes
Superior	Conveyor C-8	434 TPH	2024	NSPS	Yes
Superior	Conveyor C-9	434 TPH	2024	NSPS	Yes
Metso	Triple Deck Screen SCR -2	434 TPH	2024	NSPS	Yes
Metso	Conveyor C-10	434 TPH	2024	NSPS	Yes
Metso	Conveyor C-11	434 TPH	2024	NSPS	Yes
Superior	Conveyor C-12	434 TPH	2024	NSPS	Yes
Metso	Conveyor C-13	434 TPH	2024	NSPS	Yes
Superior	Conveyor C-14	434 TPH	2024	NSPS	Yes
Metso	Double Deck Screen SCR-3	434 TPH	2024	NSPS	Yes
Metso	Conveyor C-15	434 TPH	2024	NSPS	Yes
Metso	Conveyor C-16	434 TPH	2024	NSPS	Yes
Superior	Conveyor C-17	434 TPH	2024	NSPS	Yes
Superior	Conveyor C-18	41 TPH	2024	NSPS	Yes
Superior	Conveyor C-19	40 TPH	2024	NSPS	Yes
Superior	Conveyor C-20	24 TPH	2024	NSPS	Yes
Superior	Conveyor C-21	50 TPH	2024	NSPS	Yes
Superior	Conveyor C-22	59 TPH	2024	NSPS	Yes
Superior	Conveyor C-23	158 TPH	2024	NSPS	Yes
Superior	Conveyor C-24	61 TPH	2024	NSPS	Yes

The expected fugitive emissions rate for this circuit would be **6.74 TPY**. There is no allowable emissions rate for fugitive or dust emissions. Therefore, the uncontrolled, controlled, and expected emission rate calculations for this circuit can be found in Appendix A. Note: these calculations are furnished as public information and used to demonstrate the effectiveness of the wet suppression systems based on emissions factors taken from an EPA approved source of emission factors. By definition, fugitive emissions from this process would not be considered in determining Prevention of Significant Deterioration (PSD) or Title V applicability.

This facility is not located within 100 km of the Sipsey Class I Wilderness. The construction and operation of this plant is not anticipated to significantly impact this area.

This facility would not be considered “major” for any criteria pollutant and, therefore, is not required to undergo the PSD process. This site would be considered a Greenfield and RGF

would be required to complete a 30-day public comment period, a joint public notice with the Water Division. The Rocky Glades Pit will be located near Cussetta, Chambers County.

Based on this information, this analysis indicates that this source would meet the requirements of all ADEM - Air Division rules and regulations. I recommend that an Air Permit be issued to RGF incorporating the provisions of Appendix B and Appendix C, the cover letter.

A handwritten signature in black ink, appearing to read 'Shane Jordan', written over a horizontal line.

Shane Jordan
Energy Branch
Air Division

February 28, 2025

Appendix A
CALCULATIONS
FOR
ROCKY GLADE FUND, LLC, LLC 302-0022
UNIT X001

X001- 242 TPH Crushing, Screening, and Conveying Circuit with Wet Suppression (NSPS-OOO).

Equipment: 2 Crushers, 3 Screens, and 27 Associated Belt Conveyors (including 2 Feeders and 1 Dump Hopper)

Hours of Operation: 10 hrs/day x 5 days/wk x 52 wks/yr = 2600 hours /year

Pollution Control: Wet Suppression

Allowable Emission: There is no allowable particulate emission rate limiting fugitive emissions for any of these processes.

Uncontrolled Emissions: Emission factors taken from EPA AP-42, Table 11.19.2-2

Source			Uncontrolled		Controlled	
		Units	Total PM	PM-10	Total PM	PM-10
Crushing Emission Factor		lb/Ton	0.0054	0.0024	0.0012	0.00054
Crushing	242	TPH				
Total (# TPH * EF# lb/Ton)		lb/hr	1.3068	0.5808	0.2904	0.13068
	8760	hrs/yr				
Total (#lb/hr*#hrs/yr*(1/2000)Ton/lbs)		TPY	5.723784	2.543904	1.271952	0.572378
	2600	hrs/yr				
Expected (#lb/hr*exp#hrs/yr*(1/2000)Ton/lbs)		TPY	1.69884	0.75504	0.37752	0.169884

Screening Emission Factor		lb/Ton	0.025	0.0087	0.0022	0.00074
Screen	242	TPH				
Total (# TPH * EF# lb/Ton)		lb/hr	6.05	2.1054	0.5324	0.17908
	8760	hrs/yr				
Total (#lb/hr*#hrs/yr*1/2000Ton/lbs)		TPY	26.499	9.221652	2.331912	0.78437
	2600	hrs/yr				
Expected (#lb/hr*exp#hrs/yr*1/2000Ton/lbs)		TPY	7.865	2.73702	0.69212	0.232804
Conveying/ Transfer Point Emission Factor		lb/Ton	0.003	0.0011	0.00014	0.000046
Conveyors	242	TPH				
Total (# TPH * EF# lb/Ton)		lb/hr	0.726	0.2662	0.03388	0.011132
	8760	hrs/yr				
Total (#lb/hr*#hrs/yr*1/2000Ton/lbs)		TPY	3.17988	1.165956	0.1483944	0.048758
	2600	hrs/yr				
Expected (#lb/hr*exp#hrs/yr*1/2000Ton/lbs)		TPY	0.9438	0.34606	0.044044	0.014472

Total Uncontrolled Emissions:

Crushing	5.72 TPH x 2 crushers = 11.4 TPH
Screening	26.5 TPH x 3 Screens = 79.5 TPH
Conveying	3.18 TPH x 27 Conveyors = 85.9 TPH
Total	176.8 TPY at 8760 hrs/yr

Total Controlled Emissions:

Crushing	1.27 TPH x 2 crushers = 2.54 TPH
Screening	2.33 TPH x 3 Screens = 6.99 TPH
Conveying	0.15 TPH x 27 Conveyors = 4.1 TPH
Total	13.6 TPY at 8760 hrs/yr

Expected Emissions: Based on 2600 Actual Hours of Operation and the AP-42 total particulate controlled emission factor.

Crushing	$0.38 \text{ TPH} \times 2 \text{ crushers} = 0.76 \text{ TPH}$
Screening	$0.69 \text{ TPH} \times 3 \text{ Screens} = 2.07 \text{ TPH}$
<u>Conveying</u>	<u>$0.04 \text{ TPH} \times 27 \text{ Conveyors} = 3.91 \text{ TPH}$</u>
Total	6.74 TPY at 2600 hrs/yr

Appendix B

**Rocky Glade Fund, LLC
Chambers County, Alabama
Permit No. 302-0022-X001**

Provisos

1. This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.
2. This permit is not transferable. Upon sale or legal transfer, the new owner or operator must apply for a permit within 30 days.
3. A new permit application must be made for new sources, replacements, alterations or design changes which may result in the issuance of, or an increase in the issuance of, air contaminants, or the use of which may eliminate or reduce or control the issuance of air contaminants.
4. All air pollution control equipment shall be operated at all times while this process is operational. In the event of scheduled maintenance, unscheduled maintenance, or a breakdown of the pollution control equipment, the process shall be shutdown as expeditiously as possible (unless this act and subsequent re-start would clearly cause greater emissions than continuing operations of the process for a short period). The Department shall be notified of all such events **that exceed 1 hour** within 24 hours. The notification shall include all pertinent facts, including the duration of the process operating without the control device and the level of excess emissions which have occurred. Records of all such events, regardless of reporting requirements, shall be made and maintained for a period of five years. These records shall be available for inspection.
5. This process, including all air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.
6. This permit expires and the application is cancelled if construction has not begun within 24 months of the date of issuance of the permit.
7. On completion of construction of the device(s) for which this permit is issued, written notification of the fact is to be submitted to the Chief of the Air Division. The notification shall indicate whether the device(s) was constructed as proposed in the application. The device(s) shall not be operated until authorization to operate is granted by the Chief of the Air Division. Failure to notify the Chief of the Air Division of completion of construction and/or operation without authorization could result in revocation of this permit.

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8. Prior to a date to be specified by the Chief of the Air Division in the authorization to operate, emission tests are to be conducted by persons familiar with and using the EPA Sampling Train and Test Procedure as described in the Code of Federal Regulations, Title 40, Part 60, for the following pollutants. Written tests results are to be reported to the Air Division within 15 working days of completion of testing.

Particulates	()	Carbon Monoxide	()
Sulfur Dioxide	()	Nitrogen Oxides	()
Volatile Organic Compounds	()	Visible Emissions	(X)

9. Submittal of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require stack emission testing at any time.
10. Additions and revisions to the conditions of this Permit will be made, if necessary, to ensure that the Department's air pollution control rules and regulations are not violated.
11. Nothing in this permit or conditions thereto shall negate any authority granted to the Department pursuant to the Alabama Environmental Management Act or regulations issued thereunder.
12. This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.
13. The Air Division must be notified in writing at least 10 working days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.

To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:

- (a) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.
- (b) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedure requires probe cleaning).

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- (c) A description of the process(es) to be tested, including the feed rate, any operating parameter used to control or influence the operations, and the rated capacity.
- (d) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.

A pretest meeting may be held at the request of the source owner or the Department. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis. All test reports must be submitted to the Air Division within 15 days of the actual completion of the test, unless an extension of time is specifically approved by the Air Division.

- 14. Precautions to prevent fugitive dust shall be taken so that provisions of the Department's rules and regulations shall not be violated.
- 15. Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.

Plant or haul roads and grounds shall be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:

- (a) by the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;
- (b) by reducing the speed of vehicular traffic to a point below that at which dust emissions are created;
- (c) by paving;
- (d) by the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;

Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.

- 16. If this plant relocates to another site, this plant's Air Permit remains valid for this site unless or until it is revoked for failure to comply with ADEM Air Division Rules and Regulations. The owner or operator of this plant must provide written notification of the intent to relocate the plant to this site at least two weeks in advance. The written notification should include

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the planned construction beginning date and the projected startup date. Failure to provide this written notification is a violation of this permit condition and is grounds for revocation of this permit.

17. Any performance tests required shall be conducted and data reduced in accordance with the test methods and procedures contained in each specific permit condition unless the Director (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, or (3) approves the use of an alternative method, the results of which he has determined to be adequate for indicating whether a specific source is in compliance.
18. All equipment associated with this process is subject to the New Source Performance Standards (40 CFR 60, Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants, applicability date, April 22, 2008). This NSPS limits visible emissions from crushers to 12% opacity and visible emissions from grinding mills, screening operations, bucket elevators, belt conveyors, bagging operations, storage bins and enclosed truck and railcar loading stations, or from any other affected facility to 7% opacity. This NSPS exempts wet operations from regulation.
19. Compliance with the opacity standards for sources subject to NSPS-Subpart OOO will be determined by conducting visible emission observations in accordance with the most recent version of EPA Reference Method 9 of Appendix A-4 of the CFR, Title 40, Part 60. When determining compliance with the fugitive emissions standard for grinding mills, screening operations, bucket elevators, belt conveyors, bagging operations, storage bins and enclosed truck and railcar loading stations or from any other affected facility of this circuit, the duration of the Method 9 observations are required to be 30 minutes or five six minute averages. No more than 3 points may be tested concurrently by the same observer. The specified criteria of NSPS - Subpart OOO must be met.

The observations will be made by an observer currently certified to make EPA Method 9 visible emission observations. The opacity observations will be conducted within 60 days of the source achieving maximum production rate but no later than 180 days of initial start-up of the facility. The visible observation report will be submitted to the Department within 15 days of taking the observations

20. The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.
21. The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.
22. Precautions shall be taken by the permittee and its personnel to ensure that no person shall ignite, cause to be ignited, permit to be ignited, or maintain any open fire in such a

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manner as to cause the Department's rules and regulations applicable to open burning to be violated.

23. Periodic monitoring is required for all affected facilities controlled by direct wet suppression and/or water carryover. Each spray nozzle shall be examined monthly to assure water is appropriately supplied to the nozzle and that the water is sprayed from the nozzle correctly. Any corrective action indicated shall be taken within 24 hours of the inspection and completed as expediently as possible.
24. The permittee shall keep this permit under file or on display at all times at the site where the facility for which the permit is issued is located and shall make the permit readily available for inspection by any or all persons who may request to see it.
25. Should this facility, at any time, exceed the limits set forth in this permit, this Department must be notified within ten (10) days of the exceedance.
26. Recordkeeping is required for all monthly periodic monitoring inspections. Records shall be kept on the facility site, either in a handwritten log book or in electronic version suitable for inspection upon request by Air Division inspectors and will be retained for at least five (5) years following the date of the inspection. Records of the inspection date, results, and any corrective action taken shall be recorded. In addition, if wet suppression is not utilized during the inspection, any other control method used should be recorded or circumstances shall be noted.

Date

Date

Appendix C

date

Mr. C. Kyle Ingalls
Rocky Glade Fund, LLC
2108 D Gateway Drive – Room 2
Opelika, AL 36801

Dear Mr. Ingalls:

**RE: Facility No. 302-0022
Unit X001**

The enclosed Air Permit is issued pursuant to the Department's air pollution control rules and regulations. Please note the conditions (provisions) which must be met in order to retain this Air Permit.

New sources of air pollution receiving approval by an Air Permit must notify the Chief of the Air Division upon completion of construction and prior to operation. Authorization to Operate must then be received from the Chief of the Air Division. Failure to notify the Chief of the Air Division upon completion of construction and/or operation without authorization can result in the revocation of the Air Permit.

Upon receiving the enclosed Air Permit, please review **all** of the provisions.

Should you have any questions or if clarification of permit conditions is required, please do not hesitate to contact Shane Jordan at (334) 274-4228 in Montgomery.

Sincerely,

Aubrey H. White III, Chief
Air Division

AHW/SDJ

Enclosures

AIR PERMIT

PERMITTEE: ROCKY GLADE FUND, LLC
FACILITY NAME: ROCKY GLADES PIT
LOCATION: CHAMBERS COUNTY, ALABAMA

PERMIT NUMBER	DESCRIPTION OF EQUIPMENT, ARTICLE OR DEVICE
302-0022-X001	242 TPH Crushing, Screening, and Conveying Circuit with Wet Suppression (NSPS-000)

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§ 22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§ 22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

ISSUANCE DATE: Date