

PRECONSTRUCTION ANALYSIS
SOUTHEASTERN LAND DEVELOPMENT, LLC
SOUTHEASTERN QUARRY
413-0127
UNIT NOS. X001, X002, & X003

Southeastern Land Development, LLC, of Murfreesboro, TN, has applied to the ADEM - Air Division for an Air Permit which would authorize the construction and operation of limestone crushing, screening, and conveying circuits at a new McCalla facility located at 21368 Reno Camp Road, McCalla, Tuscaloosa County. Southeastern Land Development, LLC, is applying for Air Permits for the following circuits:

- X001** – 215 TPH Primary and Secondary Crushing, Screening, and Conveying Circuit with Wet Suppression (NSPS-OOO)
- X002** – 215 TPH Secondary Screening and Conveying Circuit with Wet Suppression (NSPS-OOO)
- X003** – 215 TPH Wash Plant (with Wet Screening) and Conveying Circuit (NSPS-OOO)

Process Description:

Aggregate material would be fed, by excavator or front end loader, into the feeder of the primary crushing, screening, and conveying circuit. Material would flow through the primary jaw crusher and secondary impact crusher for processing. Processed material from the secondary crusher would then be distributed to different sized stockpiles or moved into the secondary screening plant. The material would be conveyed to stockpiles or to the wash plant. (See flow diagram in the application)

All equipment associated with this process is subject to either the State Implementation Plan (SIP) or the New Source Performance Standards (40 CFR Part 60, Subpart OOO-Standards of Performance for Nonmetallic Mineral Processing Plants). As applicable, equipment associated with circuits X001, X002, and X003 manufactured on or after April 22, 2008, would be subject to NSPS – OOO. This 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 and shall be retained for a minimum of five years.

Southeastern Land Development, LLC, will be required to conduct EPA Method 9 Visible Emissions Observations on the NSPS equipment associated with this circuit. Any equipment exempt from NSPS is subject to the State Implementation Plan (SIP).

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>
Lippmann	Vibrating Grizzly Feeder 51" x 20" (F1)	900 TPH	2003	SIP	No
Lippmann	Portable Electric Jaw Plant 24" x 50" (CR1)	214.7 TPH	2003	NSPS- 12%	Yes
Lippmann	Vibrating Pan Feeder 4' x 6'-6" (F2)	210.9 TPH	2003	NSPS- 7%	Yes
Lippmann	Mobile Conveyor 48" x 60" (C1)	210.9 TPH	2003	NSPS- 7%	Yes
Lippmann	Vibrating Grizzly Feeder 47" x 16' (F3)	700 TPH	2010	NSPS- 7%	Yes
Lippmann	IMP4248LP Impactor 42"x 48" (CR2)	260 TPH	2010	NSPS- 12%	Yes
Lippmann	Upper Cross Conveyor 18" x 9' (C2)	210.9 TPH	2010	NSPS- 7%	Yes
Lippmann	Return Conveyor 24" x 35' (C3)	210.9 TPH	2010	NSPS- 7%	Yes
Lippmann	Lower Cross Conveyor 18" x 9' (C4)	210.9 TPH	2010	NSPS- 7%	Yes
Lippmann	Vibrating Pan Feeder 48" x 72" (F4)	210.9 TPH	2010	NSPS- 7%	Yes
Simplicity	Portable Screen Plant 60" x 10' (S1)	210.9 TPH	2010	NSPS- 7%	Yes
Lippmann	Rear Discharge Conveyor 48" x 44' (C5)	210.9 TPH	2010	NSPS- 7%	Yes
Shop Built	Mobile Conveyor 36" X 20 (C6)	210.9 TPH	2023	NSPS- 7%	Yes
Shop Built	Mobile Conveyor 36" X 60' (C7)	210.9 TPH	2023	NSPS- 7%	Yes
Shop Built	Mobile Conveyor 36" X 60' (C8)	210.9 TPH	2023	NSPS- 7%	Yes
Cedar Rapids	TD Screen Plant 6' x 20' (S2)	210.9 TPH	2010	NSPS- 7%	Yes
Cedar Rapids	Under Screen Conveyor 48" (C9)	210.9 TPH	2010	NSPS- 7%	Yes
Cedar Rapids	Cross Conveyor 30" (C10)	210.9 TPH	2010	NSPS- 7%	Yes
Cedar Rapids	Cross Conveyor 30" (C11)	210.9 TPH	2010	NSPS- 7%	Yes

Shop Built	Mobile Conveyor 36" X 20' (C12)	210.9 TPH	2023	NSPS- 7%	Yes
Shop Built	Mobile Conveyor 36"x60' (C13)	210.9 TPH	2023	NSPS- 7%	Yes
Shop Built	Mobile Conveyor 36"x60' (C14)	210.9 TPH	2023	NSPS- 7%	Yes
Diester	Triple Deck Wet Inclined Screen 6' x 20' (S3)	210.9 TPH	2011	SIP	No
Shop Built	Mobile Conveyor 36"x60' (C15)	210.9 TPH	2023	SIP	No
Shop Built	Mobile Conveyor 36"x60' (C16)	210.9 TPH	2023	SIP	No
Shop Built	Mobile Conveyor 36"x60' (C17)	210.9 TPH	2023	SIP	No
Shop Built	Mobile Conveyor 36"x60' (C18)	210.9 TPH	2023	SIP	No
TCI	Sand Screw 48"x 53' (SC1)	210.9 TPH	2014	SIP	No
Shop Built	Mobile Conveyor 36"x60' (C19)	210.9 TPH	2023	SIP	No

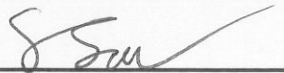
The total expected fugitive emissions rate for the proposed plant would be **2.65 TPY**. There is no allowable emissions rate for fugitive or dust emissions. Therefore, the uncontrolled, controlled, and expected emission rate calculations for this circuit can be found in Appendix A. Note: these calculations are furnished as public information and used to demonstrate the effectiveness of the wet suppression systems based on emission 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, would not be required to undergo the PSD process. This site is considered a Greenfield, therefore Southeastern Land Development, LLC, would be required to complete a 30-day public comment period and a joint public notice with the Water Division.

ADEM utilized the EJSCREEN screening tool to perform an analysis of the area. Please refer to Appendix D.

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 Southeastern Land Development, LLC, incorporating the provisions of Appendix B and Appendix C, the cover letter.


 Savannah Solar
 Energy Branch
 Air Division
 12/19/22
 Date

Appendix A

Calculations

Source			Uncontrolled		Controlled	
		Units	Total PM	PM-10	Total PM	PM-10
Tertiary Crushing Emission Factor		lb/Ton	0.0054	0.0024	0.0012	0.00054
Capacity	215	TPH				
Total (# TPH * EF# lb/Ton)		lb/hr	1.161	0.516	0.258	0.1161
	8760	hrs/yr				
Total (#lb/hr*#hrs/yr*(1/2000)Ton/lbs)		TPY	5.08518	2.26008	1.13004	0.508518
	2000	hrs/yr				
Expected (#lb/hr*exp#hrs/yr*(1/2000)Ton/lbs)		TPY	1.161	0.516	0.258	0.1161
Screening Emission Factor		lb/Ton	0.025	0.0087	0.0022	0.00074
Capacity	215	TPH				
Total (# TPH * EF# lb/Ton)		lb/hr	5.375	1.8705	0.473	0.1591
	8760	hrs/yr				
Total (#lb/hr*#hrs/yr*1/2000Ton/lbs)		TPY	23.5425	8.19279	2.07174	0.696858
	2000	hrs/yr				
Expected (#lb/hr*exp#hrs/yr*1/2000Ton/lbs)		TPY	5.375	1.8705	0.473	0.1591
Conveying/ Transfer Point Emission Factor		lb/Ton	0.003	0.0011	0.00014	0.000046
Capacity	215	TPH				
Total (# TPH * EF# lb/Ton)		lb/hr	0.645	0.2365	0.0301	0.00989
	8760	hrs/yr				
Total (#lb/hr*#hrs/yr*1/2000Ton/lbs)		TPY	2.8251	1.03587	0.131838	0.043318
	2000	hrs/yr				
Expected (#lb/hr*exp#hrs/yr*1/2000Ton/lbs)		TPY	0.645	0.2365	0.0301	0.00989

CALCULATIONS
SOUTHEASTERN LAND DEVELOPMENT, LLC
413-0127
UNIT X001

X001 - 215 TPH Primary and Secondary Crushing, Screening, and Conveying Circuit with Wet Suppression (NSPS-OOO).

Equipment: 2 Crushers, 1 Screen, and 11 Associated Belt Conveyors (including 4 Feeders)

Hours of Operation: 8 hrs/day x 5 days/wk x 50 wks/yr = 2,000 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

Unit X001

Total Uncontrolled Emissions:

Crushing	$5.09 \text{ TPY} \times 2 \text{ Crushers} = 10.18 \text{ TPY}$
Screening	$23.54 \text{ TPY} \times 1 \text{ Screen} = 23.54 \text{ TPY}$
<u>Conveying</u>	<u>$2.83 \text{ TPY} \times 11 \text{ Conveyors} = 31.13 \text{ TPY}$</u>
Total	64.85 TPY at 8760 hrs/yr

Total Controlled Emissions:

Crushing	$1.13 \text{ TPY} \times 2 \text{ Crushers} = 2.26 \text{ TPY}$
Screening	$2.07 \text{ TPY} \times 1 \text{ Screen} = 2.07 \text{ TPY}$
<u>Conveying</u>	<u>$0.13 \text{ TPY} \times 11 \text{ Conveyors} = 1.43 \text{ TPY}$</u>
Total	5.76 TPY at 8760 hrs/yr

Expected Emissions: Based on 2,000 Actual Hours of Operation and the AP-42 total particulate controlled emission factor.

Crushing	$0.26 \text{ TPY} \times 2 \text{ Crushers} = 0.52 \text{ TPY}$
Screening	$0.47 \text{ TPY} \times 1 \text{ Screen} = 0.47 \text{ TPY}$
<u>Conveying</u>	<u>$0.03 \text{ TPY} \times 11 \text{ Conveyors} = 0.33 \text{ TPY}$</u>
Total	1.32 TPY at 2000 hrs/yr

CALCULATIONS
SOUTHEASTERN LAND DEVELOPMENT, LLC
413-0127
UNIT X002

X002 - 215 TPH Secondary Screening and Conveying Circuit with Wet Suppression (NSPS-000).

Equipment: 1 Screen and 7 Associated Belt Conveyors

Hours of Operation: 8 hrs/day x 5 days/wk x 50 wks/yr = 2,000 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

Unit X002

Total Uncontrolled Emissions:

Screening	23.54 TPY x 1 Screen = 23.54 TPY
<u>Conveying</u>	<u>2.83 TPY x 7 Conveyors = 19.81 TPY</u>
Total	43.35 TPY at 8760 hrs/yr

Total Controlled Emissions:

Screening	2.07 TPY x 1 Screen = 2.07 TPY
<u>Conveying</u>	<u>0.13 TPY x 7 Conveyors = 0.91 TPY</u>
Total	2.98 TPY at 8760 hrs/yr

Expected Emissions: Based on 2,000 Actual Hours of Operation and the AP-42 total particulate controlled emission factor.

Screening	0.47 TPY x 1 Screen = 0.47 TPY
<u>Conveying</u>	<u>0.03 TPY x 7 Conveyors = 0.21 TPY</u>
Total	0.68 TPY at 2000 hrs/yr

CALCULATIONS
SOUTHEASTERN LAND DEVELOPMENT, LLC
413-0127
UNIT X003

X003 - 215 TPH Wash Plant (with Wet Screening) and Conveying Circuit (NSPS-000).

Equipment: 1 Screen and 6 Associated Belt Conveyors (including 1 Sand Screw)
*Note: Wet Screen and Sand Screw

Hours of Operation: 8 hrs/day x 5 days/wk x 50 wks/yr = 2,000 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

Unit X003

No emissions are expected from this wet process. However, for informational purposes, calculations are provided.

Total Uncontrolled Emissions:

Screening	23.54 TPY x 1 Screen = 23.54 TPY
<u>Conveying</u>	<u>2.83 TPY x 6 Conveyors = 16.98 TPY</u>
Total	40.52 TPY at 8760 hrs/yr

Total Controlled Emissions:

Screening	2.07 TPY x 1 Screen = 2.07 TPY
<u>Conveying</u>	<u>0.13 TPY x 6 Conveyors = 0.78 TPY</u>
Total	2.85 TPY at 8760 hrs/yr

Expected Emissions: Based on 2,000 Actual Hours of Operation and the AP-42 total particulate controlled emission factor.

Screening	0.47 TPY x 1 Screen = 0.47 TPY
<u>Conveying</u>	<u>0.03 TPY x 6 Conveyors = 0.18 TPY</u>
Total	0.65 TPY at 2000 hrs/yr

Total Facility Wide Emissions:	X001	X002	X003	Totals
Uncontrolled:	64.85	43.35	40.52	148.72 TPY
Controlled:	5.76	2.98	2.85	11.59 TPY
Expected:	1.32	0.68	0.65	2.65 TPY

Appendix B

AIR PERMIT

PERMITTEE: SOUTHEASTERN LAND DEVELOPMENT, LLC
FACILITY NAME: SOUTHEASTERN QUARRY
LOCATION: MCCALLA, ALABAMA

PERMIT NUMBER	DESCRIPTION OF EQUIPMENT, ARTICLE OR DEVICE
413-0127-X001	215 TPH Primary and Secondary 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:

Southeastern Land Development, LLC.
Tuscaloosa County, Alabama
Permit No. 413-0127-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. 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.
5. 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 shut down 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.
6. 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.
7. This permit expires and the application is cancelled if construction has not begun within 24 months of the date of issuance of the permit.
8. 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

Permit No.: 413-0127-X001

and/or operation without authorization could result in revocation of this permit.

9. 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)

10. 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.
11. 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.
12. 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.
13. 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.
14. 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.

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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- (b) 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.
- (c) 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.

- 15. Precautions to prevent fugitive dust shall be taken so that provisions of the Department's rules and regulations shall not be violated.
- 16. 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.

- 17. 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 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.

Permit No.: 413-0127-X001

18. 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.
19. All equipment associated with this process is subject to either the State Implementation Plan (SIP) or the New Source Performance Standards (40 CFR Part 60, Subpart OOO- Standards of Performance for Nonmetallic Mineral Processing Plants). All NSPS – Subpart OOO equipment will be subject to the limitations and opacity limits for fugitive emissions according to the applicability date of 40 CFR Part 60, Subpart OOO that is specific to the equipment. This NSPS limits fugitive emissions from uncontrolled crushers to 12% opacity, and fugitive emissions from grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations, or from any other affected facility to 7 % opacity. This NSPS allows no emissions from wet screening operations.
20. Compliance with the opacity standards for sources subject to NSPS-Subpart OOO will be determined by conducting visible emission observations in accordance with 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 required performance testing 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 test reports will be submitted to the Department within 15 days of the test date.

21. 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.
22. 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 expeditiously as possible.

Permit No.: 413-0127-X001

23. 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.
24. The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.
25. 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 manner as to cause the Department's rules and regulations applicable to open burning to be violated.
26. 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.

Date



AIR PERMIT

PERMITTEE: SOUTHEASTERN LAND DEVELOPMENT, LLC
FACILITY NAME: SOUTHEASTERN QUARRY
LOCATION: MCCALLA, ALABAMA

<u>PERMIT NUMBER</u>	<u>DESCRIPTION OF EQUIPMENT, ARTICLE OR DEVICE</u>
413-0127-X002	215 TPH Secondary 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:

Southeastern Land Development, LLC.
Tuscaloosa County, Alabama
Permit No. 413-0127-X002
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. 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.
5. 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 shut down 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.
6. 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.
7. This permit expires and the application is cancelled if construction has not begun within 24 months of the date of issuance of the permit.
8. 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

Permit No.: 413-0127-X002

and/or operation without authorization could result in revocation of this permit.

9. 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)

10. 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.
11. 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.
12. 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.
13. 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.
14. 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.

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).

Permit No.: 413-0127-X002

- (b) 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.
- (c) 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.

- 15. Precautions to prevent fugitive dust shall be taken so that provisions of the Department's rules and regulations shall not be violated.
- 16. 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.

- 17. 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 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.

Permit No.: 413-0127-X002

18. 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.
19. All equipment associated with this process is subject to either the State Implementation Plan (SIP) or the New Source Performance Standards (40 CFR Part 60, Subpart OOO- Standards of Performance for Nonmetallic Mineral Processing Plants). All NSPS – Subpart OOO equipment will be subject to the limitations and opacity limits for fugitive emissions according to the applicability date of 40 CFR Part 60, Subpart OOO that is specific to the equipment. This NSPS limits fugitive emissions from uncontrolled crushers to 12% opacity, and fugitive emissions from grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations, or from any other affected facility to 7 % opacity. This NSPS allows no emissions from wet screening operations.
20. Compliance with the opacity standards for sources subject to NSPS-Subpart OOO will be determined by conducting visible emission observations in accordance with 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 required performance testing 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 test reports will be submitted to the Department within 15 days of the test date.

21. 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.
22. 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 expeditiously as possible.

Permit No.: 413-0127-X002

23. 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.
24. The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.
25. 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 manner as to cause the Department's rules and regulations applicable to open burning to be violated.
26. 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.

Date



AIR PERMIT

PERMITTEE: SOUTHEASTERN LAND DEVELOPMENT, LLC
FACILITY NAME: SOUTHEASTERN QUARRY
LOCATION: MCCALLA, ALABAMA

<u>PERMIT NUMBER</u>	<u>DESCRIPTION OF EQUIPMENT, ARTICLE OR DEVICE</u>
413-0127-X003	215 TPH Wash Plant (with Wet Screening) and Conveying Circuit (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:

Southeastern Land Development, LLC.
Tuscaloosa County, Alabama
Permit No. 413-0127-X003
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. 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.
5. 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 shut down 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.
6. 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.
7. This permit expires and the application is cancelled if construction has not begun within 24 months of the date of issuance of the permit.
8. 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

Permit No.: 413-0127-X003

and/or operation without authorization could result in revocation of this permit.

9. 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)

10. 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.
11. 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.
12. 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.
13. 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.
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- (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.

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).

Permit No.: 413-0127-X003

- (b) 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.
- (c) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.

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- (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;
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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.

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Permit No.: 413-0127-X003

18. 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.
19. All equipment associated with this process is subject to either the State Implementation Plan (SIP) or the New Source Performance Standards (40 CFR Part 60, Subpart OOO- Standards of Performance for Nonmetallic Mineral Processing Plants). All NSPS – Subpart OOO equipment will be subject to the limitations and opacity limits for fugitive emissions according to the applicability date of 40 CFR Part 60, Subpart OOO that is specific to the equipment. This NSPS limits fugitive emissions from uncontrolled crushers to 12% opacity, and fugitive emissions from grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations, or from any other affected facility to 7 % opacity. This NSPS allows no emissions from wet screening operations.
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22. 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 expeditiously as possible.

Permit No.: 413-0127-X003

23. 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.
24. The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.
25. 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 manner as to cause the Department's rules and regulations applicable to open burning to be violated.
26. 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.

Date

Appendix C

(Date)

Mr. Cyrus Wiser
Southeastern Land Development, LLC
1711 Waters Edge Court
Murfreesboro, TN 37130

Dear Mr. Wiser:

**RE: Facility No. 413-0127
Air Permit Nos. X001, X002, X003**

The enclosed Air Permits are 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 these Air Permits.

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 Permits, 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 Savannah Solar at (334) 270-5681 in Montgomery.

Sincerely,

Ronald W. Gore, Chief
Air Division

RWG/sfs

Enclosures

Appendix D

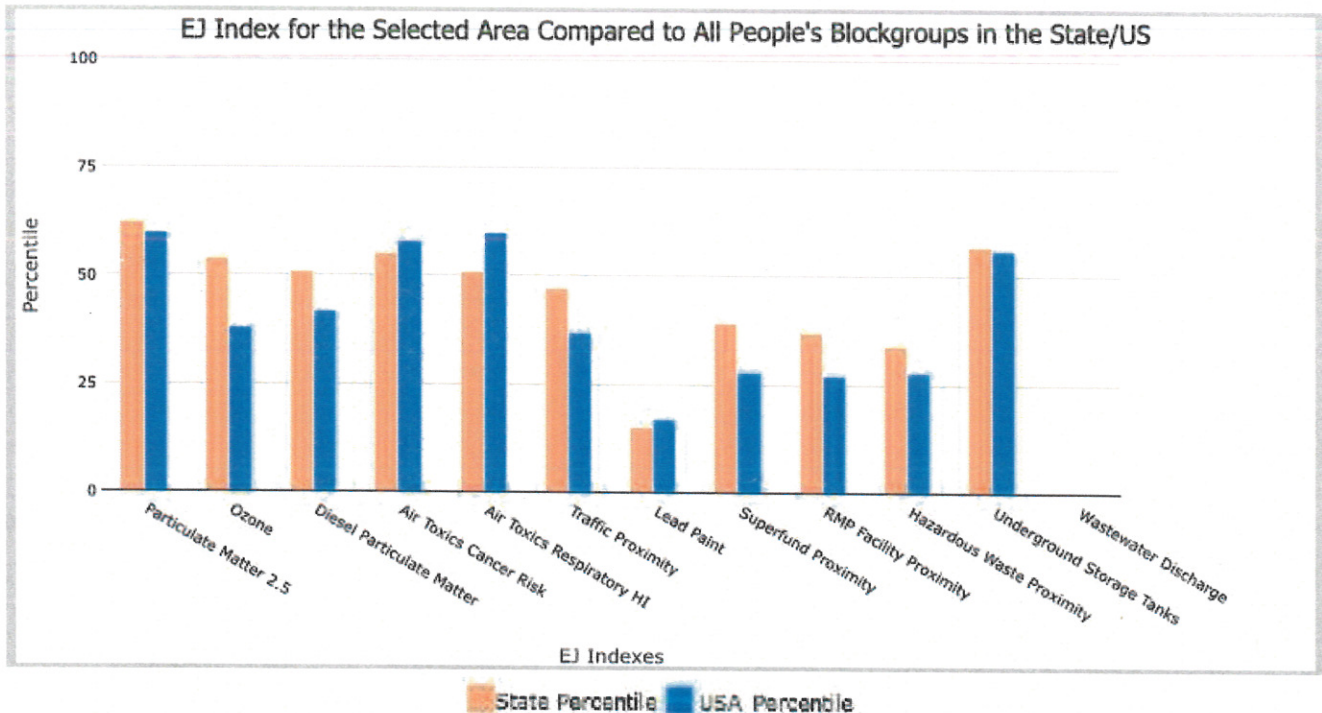
1 mile Ring Centered at 33.260778,-87.124135, ALABAMA, EPA Region 4

Approximate Population: 368

Input Area (sq. miles): 3.14

Southeastern Quarry McCalla

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
EJ Index for Particulate Matter 2.5	62	60
EJ Index for Ozone	54	38
EJ Index for Diesel Particulate Matter*	51	42
EJ Index for Air Toxics Cancer Risk*	55	58
EJ Index for Air Toxics Respiratory HI*	51	60
EJ Index for Traffic Proximity	47	37
EJ Index for Lead Paint	15	17
EJ Index for Superfund Proximity	39	28
EJ Index for RMP Facility Proximity	37	27
EJ Index for Hazardous Waste Proximity	34	28
EJ Index for Underground Storage Tanks	57	56
EJ Index for Wastewater Discharge	N/A	N/A



This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.



1 mile Ring Centered at 33.260778,-87.124135, ALABAMA, EPA Region 4

Approximate Population: 368

Input Area (sq. miles): 3.14

Southeastern Quarry McCalla



Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	0

EJScreen Report (Version 2.1)



1 mile Ring Centered at 33.260778,-87.124135, ALABAMA, EPA Region 4

Approximate Population: 368

Input Area (sq. miles): 3.14

Southeastern Quarry McCalla

Selected Variables	Value	State Avg.	%ile in State	USA Avg.	%ile in USA
Pollution and Sources					
Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)	9.21	8.92	77	8.67	68
Ozone (ppb)	39.8	39	56	42.5	31
Diesel Particulate Matter* ($\mu\text{g}/\text{m}^3$)	0.177	0.223	50	0.294	<50th
Air Toxics Cancer Risk* (lifetime risk per million)	40	35	99	28	95-100th
Air Toxics Respiratory HI*	0.5	0.47	89	0.36	95-100th
Traffic Proximity (daily traffic count/distance to road)	92	290	51	760	32
Lead Paint (% Pre-1960 Housing)	0.019	0.17	17	0.27	18
Superfund Proximity (site count/km distance)	0.023	0.051	36	0.13	21
RMP Facility Proximity (facility count/km distance)	0.11	0.46	32	0.77	18
Hazardous Waste Proximity (facility count/km distance)	0.11	0.9	27	2.2	19
Underground Storage Tanks (count/km ²)	1.8	1.9	69	3.9	57
Wastewater Discharge (toxicity-weighted concentration/m distance)	N/A	0.36	N/A	12	N/A
Socioeconomic Indicators					
Demographic Index	25%	38%	35	35%	42
People of Color	24%	35%	46	40%	44
Low Income	25%	36%	30	30%	46
Unemployment Rate	5%	6%	59	5%	61
Limited English Speaking Households	0%	1%	80	5%	0
Less Than High School Education	10%	13%	40	12%	55
Under Age 5	4%	6%	42	6%	41
Over Age 64	13%	17%	31	16%	38

*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

For additional information, see: www.epa.gov/environmentaljustice

EJScreen is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJScreen outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

EJScreen Report (Version 2.1)



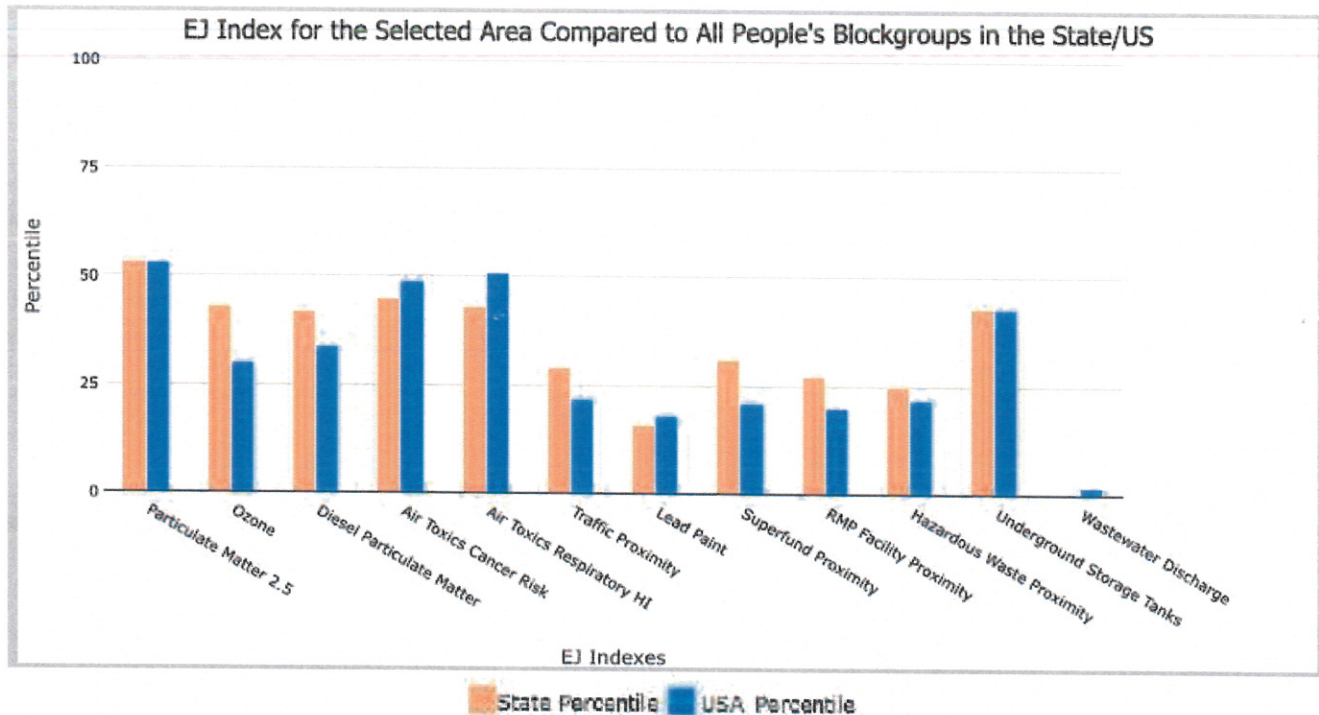
3 miles Ring Centered at 33.260778,-87.124135, ALABAMA, EPA Region 4

Approximate Population: 8,629

Input Area (sq. miles): 28.27

Southeastern Quarry McCalla

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
EJ Index for Particulate Matter 2.5	53	53
EJ Index for Ozone	43	30
EJ Index for Diesel Particulate Matter*	42	34
EJ Index for Air Toxics Cancer Risk*	45	49
EJ Index for Air Toxics Respiratory HI*	43	51
EJ Index for Traffic Proximity	29	22
EJ Index for Lead Paint	16	18
EJ Index for Superfund Proximity	31	21
EJ Index for RMP Facility Proximity	27	20
EJ Index for Hazardous Waste Proximity	25	22
EJ Index for Underground Storage Tanks	43	43
EJ Index for Wastewater Discharge	0	2



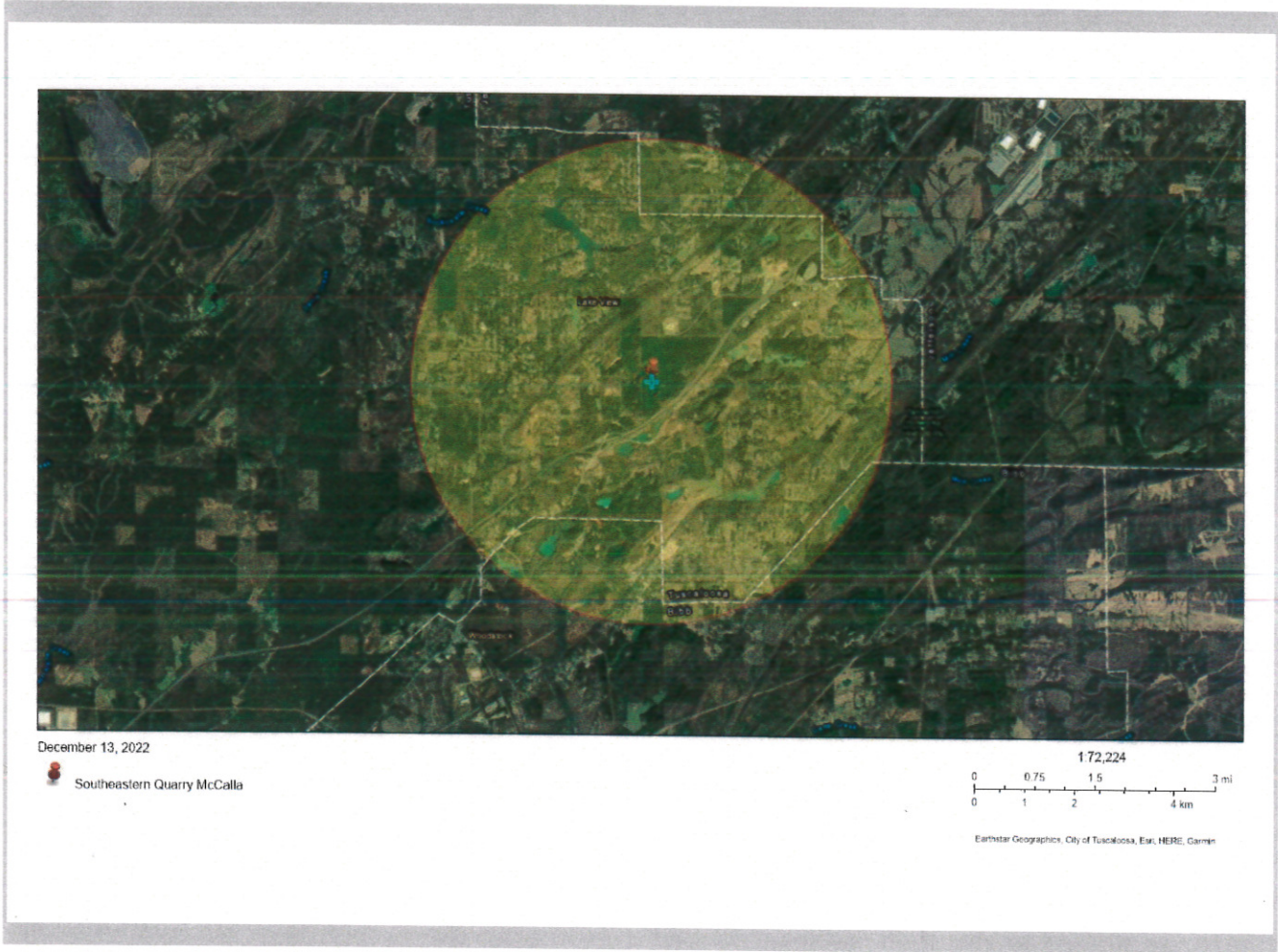
This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

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Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	0

EJScreen Report (Version 2.1)



3 miles Ring Centered at 33.260778,-87.124135, ALABAMA, EPA Region 4

Approximate Population: 8,629

Input Area (sq. miles): 28.27

Southeastern Quarry McCalla

Selected Variables	Value	State Avg.	%ile in State	USA Avg.	%ile in USA
Pollution and Sources					
Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)	9.22	8.92	77	8.67	68
Ozone (ppb)	39.7	39	56	42.5	30
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Air Toxics Cancer Risk* (lifetime risk per million)	40	35	99	28	95-100th
Air Toxics Respiratory HI*	0.5	0.47	89	0.36	95-100th
Traffic Proximity (daily traffic count/distance to road)	44	290	36	760	22
Lead Paint (% Pre-1960 Housing)	0.025	0.17	19	0.27	20
Superfund Proximity (site count/km distance)	0.022	0.051	36	0.13	21
RMP Facility Proximity (facility count/km distance)	0.098	0.46	29	0.77	16
Hazardous Waste Proximity (facility count/km distance)	0.1	0.9	26	2.2	19
Underground Storage Tanks (count/km ²)	1.2	1.9	61	3.9	50
Wastewater Discharge (toxicity-weighted concentration/m distance)	1.2	0.36	97	12	93
Socioeconomic Indicators					
Demographic Index	19%	38%	23	35%	30
People of Color	14%	35%	29	40%	30
Low Income	25%	36%	29	30%	45
Unemployment Rate	7%	6%	66	5%	70
Limited English Speaking Households	0%	1%	80	5%	0
Less Than High School Education	11%	13%	45	12%	60
Under Age 5	6%	6%	60	6%	61
Over Age 64	10%	17%	21	16%	28

*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

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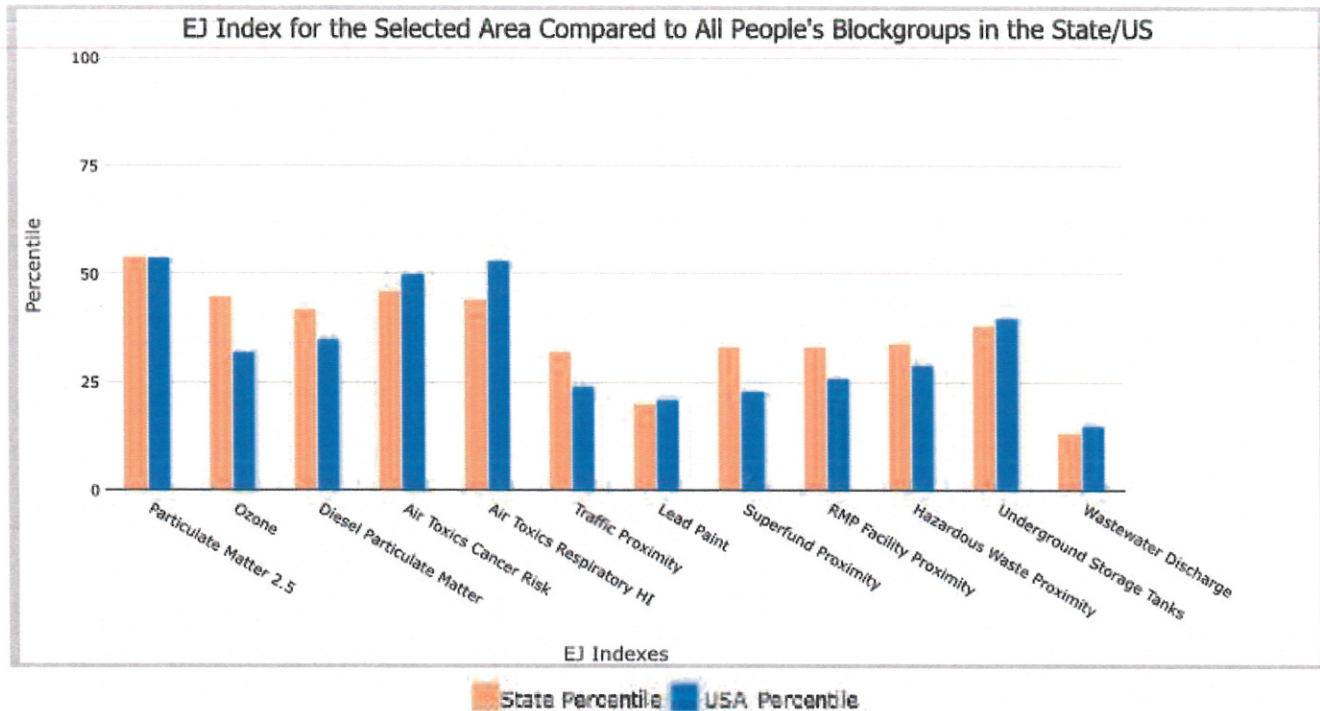
5 miles Ring Centered at 33.260778,-87.124135, ALABAMA, EPA Region 4

Approximate Population: 15,470

Input Area (sq. miles): 78.53

Southeastern Quarry McCalla

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
EJ Index for Particulate Matter 2.5	54	54
EJ Index for Ozone	45	32
EJ Index for Diesel Particulate Matter*	42	35
EJ Index for Air Toxics Cancer Risk*	46	50
EJ Index for Air Toxics Respiratory HI*	44	53
EJ Index for Traffic Proximity	32	24
EJ Index for Lead Paint	20	21
EJ Index for Superfund Proximity	33	23
EJ Index for RMP Facility Proximity	33	26
EJ Index for Hazardous Waste Proximity	34	29
EJ Index for Underground Storage Tanks	38	40
EJ Index for Wastewater Discharge	13	15



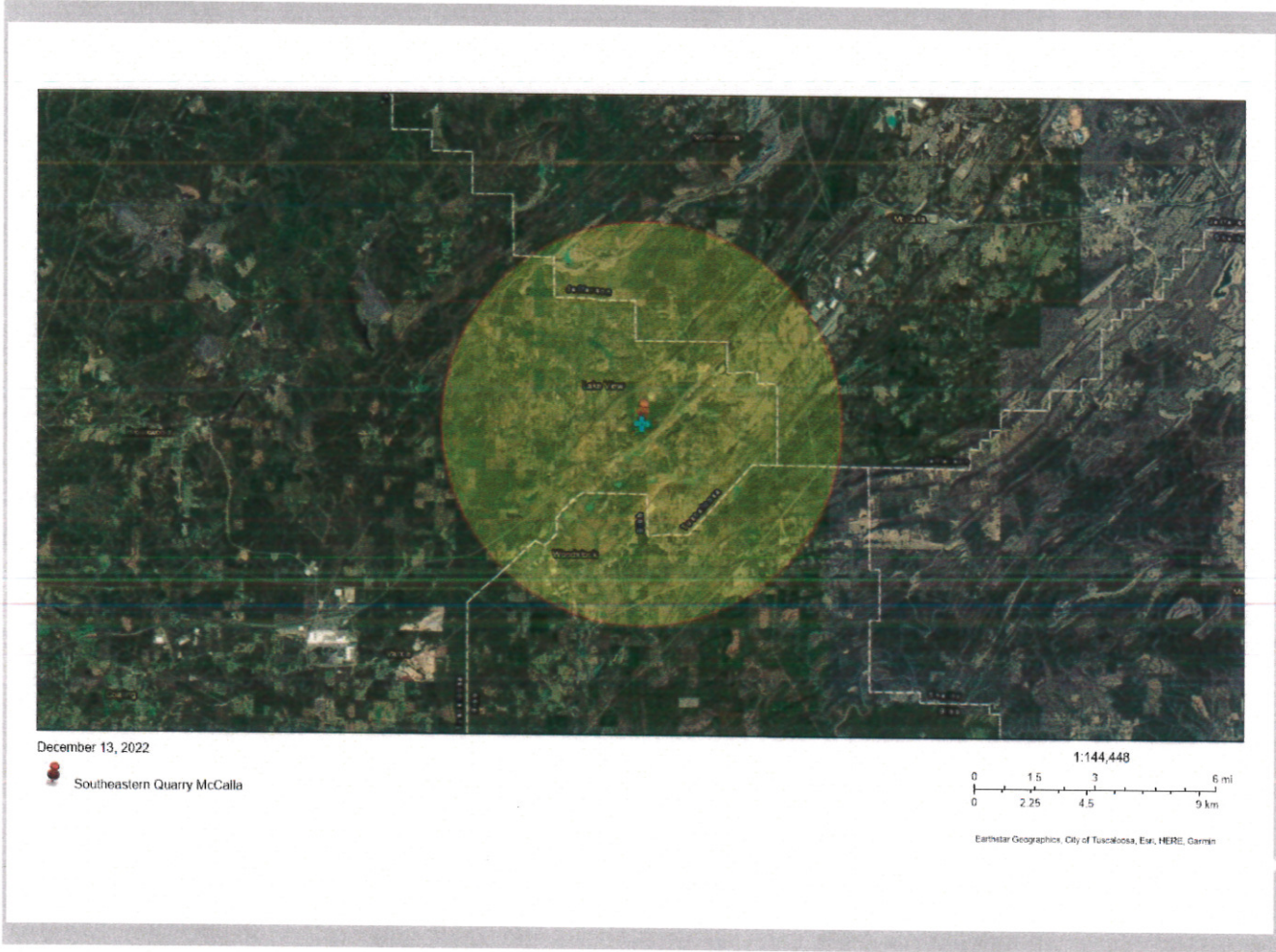
This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

5 miles Ring Centered at 33.260778,-87.124135, ALABAMA, EPA Region 4

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Southeastern Quarry McCalla



Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	0

EJScreen Report (Version 2.1)



5 miles Ring Centered at 33.260778,-87.124135, ALABAMA, EPA Region 4

Approximate Population: 15,470

Input Area (sq. miles): 78.53

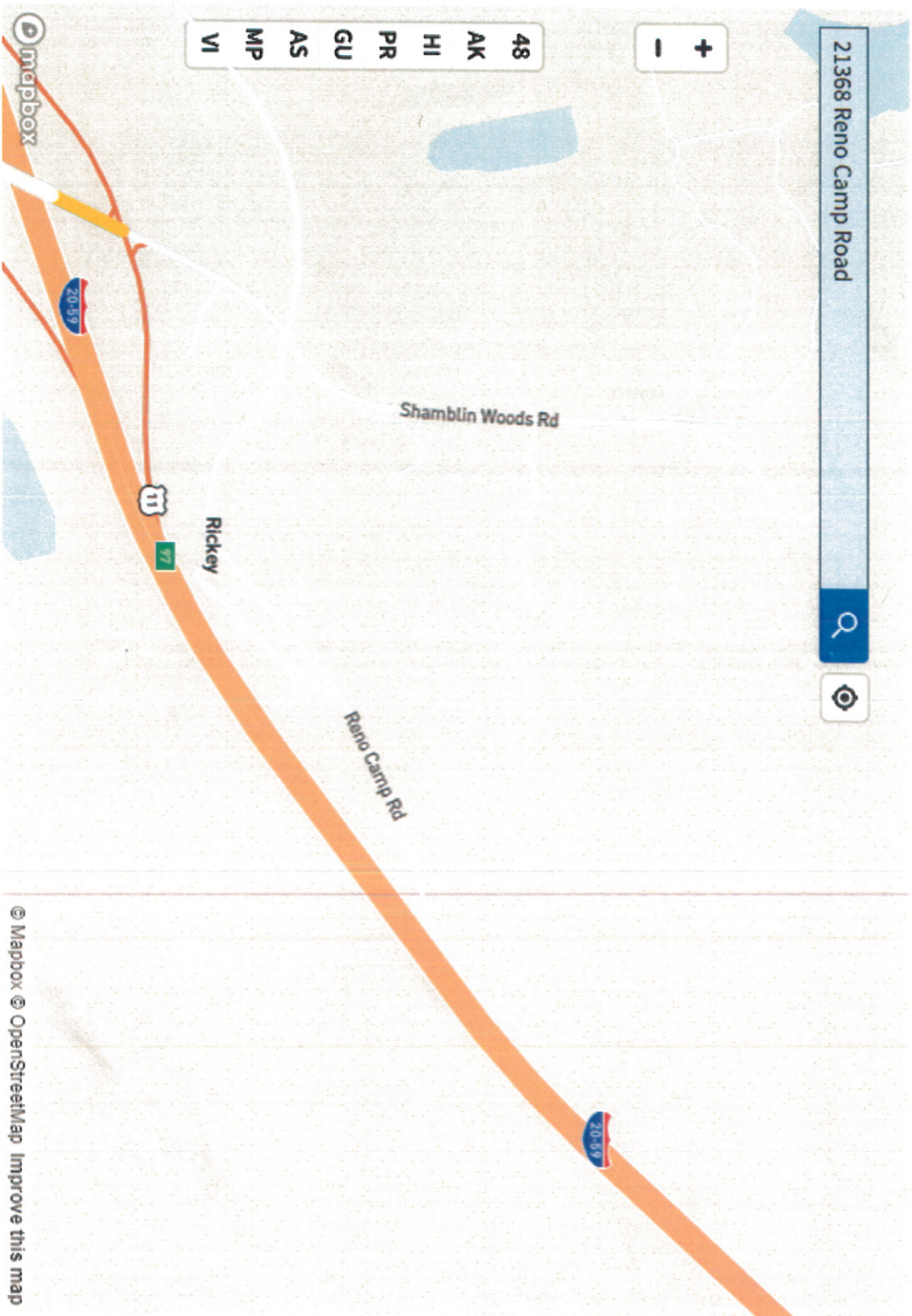
Southeastern Quarry McCalla

Selected Variables	Value	State Avg.	%ile in State	USA Avg.	%ile in USA
Pollution and Sources					
Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)	9.26	8.92	79	8.67	70
Ozone (ppb)	39.9	39	57	42.5	31
Diesel Particulate Matter* ($\mu\text{g}/\text{m}^3$)	0.169	0.223	47	0.294	<50th
Air Toxics Cancer Risk* (lifetime risk per million)	40	35	99	28	95-100th
Air Toxics Respiratory HI*	0.5	0.47	89	0.36	95-100th
Traffic Proximity (daily traffic count/distance to road)	48	290	38	760	23
Lead Paint (% Pre-1960 Housing)	0.032	0.17	21	0.27	22
Superfund Proximity (site count/km distance)	0.023	0.051	37	0.13	21
RMP Facility Proximity (facility count/km distance)	0.14	0.46	42	0.77	26
Hazardous Waste Proximity (facility count/km distance)	0.26	0.9	43	2.2	36
Underground Storage Tanks (count/km ²)	0.83	1.9	54	3.9	45
Wastewater Discharge (toxicity-weighted concentration/m distance)	1.2	0.36	97	12	93
Socioeconomic Indicators					
Demographic Index	20%	38%	24	35%	32
People of Color	15%	35%	32	40%	33
Low Income	24%	36%	28	30%	44
Unemployment Rate	7%	6%	66	5%	70
Limited English Speaking Households	1%	1%	82	5%	60
Less Than High School Education	11%	13%	43	12%	58
Under Age 5	5%	6%	51	6%	50
Over Age 64	12%	17%	29	16%	37

*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

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Tract information
 Number: 01125010602
 County: Tuscaloosa County
 State: Alabama
 Population: 10,032

Tract demographics

Race / Ethnicity (hide v)

White	90%
Black or African American	6%
American Indian and Alaska Native	0%
Asian	0%
Native Hawaiian or Pacific Islander	0%
Other	0%
Two or more races	0%
Hispanic or Latino	0%
Age (show v)	0%

Identified as disadvantaged?

NO

This tract is not considered disadvantaged. It does not meet any burden thresholds **OR** at least one associated socioeconomic threshold.





CHECKLIST FOR ISSUANCE OF PERMITS

Permit No. 413-0127-X001, X002, X003 Type: Air

Company Southeastern Land Development, LLC – Southeastern Quarry

Location McCalla (Tuscaloosa County)

Description of Permit Unit: X001 – 215 TPH Primary and Secondary Crushing, Screening, and Conveying Circuit with Wet Suppression (NSPS-OOO)

X002 – 215 TPH Secondary Screening and Conveying Circuit with Wet Suppression (NSPS-OOO).

X003 – 215 TPH Wash Plant (with Wet Screening) and Conveying Circuit (NSPS-OOO).

Pollutant Type:

Particulates	01	Nitrogen Oxides	05	Chlorine	09
Sulfur Oxides	02	Total Reduced Sulfur	06	Hydrogen Sulfide	10
Carbon Monoxide	03	Asbestos	07	Lead	11
Hydrocarbons	04	Beryllium	08	Mercury	12

Pollutant Type	Reported Emissions lb/hr	Method Of Estimate	Uncontrolled Emissions lb/hr	Controlled Emissions lb/hr	Allowable Emissions lb/hr
See Preconstruction Analysis					

Operating Hours Per Year: 2,000

Provisos: See Preconstruction Analysis

Mail To: _____
Mr. Cyrus Wisner
Southeastern Land Development, LLC
1711 Waters Edge Court
Murfreesboro, TN 37130

Engineer: S. Solar
 Date: _____

Type: PSD _____ SMS _____ NAME _____ MOD _____ TEMP _____ OTHER X
 Source: NSPS X NESHAP _____ SIP X OTHER _____