

**MARYLAND DEPARTMENT OF THE ENVIRONMENT**

**AIR AND RADIATION ADMINISTRATION  
APPLICATION FOR A PERMIT TO CONSTRUCT**

**DOCKET #11-21**

COMPANY: Laurel Sand & Gravel, Inc. T/A S.W. Barrick & Sons – Legore Quarry  
LOCATION: 11640 Woodsboro Pike, Keymar, MD 21757  
APPLICATION: Installation of one (1) Metso Lokotrack ST2.8 Mobile Scalping Screen.

<u>ITEM</u>	<u>DESCRIPTION</u>
1	Notice of Application and Opportunity to Request an Informational Meeting
2	Permit to Construct Application Forms including: Form 5, Form 5T, Form 5EP, vendor/manufacture specifications, emissions calculations, process flow diagrams, and safety data sheets.
3	Documentation of Zoning Approval

**DEPARTMENT OF THE ENVIRONMENT  
AIR AND RADIATION ADMINISTRATION**

**NOTICE OF APPLICATION AND  
OPPORTUNITY TO REQUEST AN INFORMATIONAL MEETING**

The Maryland Department of the Environment, Air and Radiation Administration (ARA) received a permit-to-construct application from Laurel Sand & Gravel, Inc. T/A S.W. Barrick & Sons - Legore Quarry on May 12, 2021 for the installation of one (1) Metso Lokotrack ST2.8 Mobile Scalping Screen. The proposed installation will be located at 11640 Woodsboro Pike, Keymar, MD 21757.

The application and other supporting documents are available for public inspection on the Department's website. Look for Docket #11-21 at the following link:

<https://mde.maryland.gov/programs/Permits/AirManagementPermits/Pages/index.aspx>

Pursuant to the Environment Article, Section 1-603, Annotated Code of Maryland, the Department will hold an informational meeting to discuss the application and the permit review process if the Department receives a written request for a meeting within 10 working days from the date of the second publication of this notice. All requests for an informational meeting should be emailed to Ms. Shannon Heafey at [shannon.heafey@maryland.gov](mailto:shannon.heafey@maryland.gov).

Further information may be obtained by contacting Ms. Shannon Heafey by email at [shannon.heafey@maryland.gov](mailto:shannon.heafey@maryland.gov) or by phone at (410) 537-4433.

George S. Aburn, Jr., Director  
Air and Radiation Administration

LAUREL SAND & GRAVEL, INC. T/A  
**S.W. Barrick & Sons**



**Barrick Quarry**

Address: P.O. Box 86  
Woodsboro, MD 21798  
Sales Office: (301) 845-6341  
Fax Number: (301) 845-2396  
Orders & Dispatch: (301) 845-6343  
Toll Free: (800) 546-6343

**Finksburg Terminal**

Address: 2700 Emory Road  
Finksburg, MD 21048  
Sales /Dispatch: (410) 833-4400  
Fax Number: (410) 833-4909

May 11, 2021

Ms. Sarah Wells  
Air & Radiation Administration  
Maryland Department of the Environment  
1800 Washington Blvd.  
Baltimore, MD 21230

Re: Permit to Construct Application– Legore Quarry (021-0129)

Dear Ms. Wells:

Please find attached a permit to construct application for a Metso Lokotrack ST2.8 Mobile Scalping Screen for use at the Legore Quarry. Note that this screen is portable and may be moved between sites when material availability and market conditions dictate.

If you have any questions or require additional information, please contact me at 410-792-7234 ex 1120 or by email at [Collin@aggmgt.com](mailto:Collin@aggmgt.com). Thank you for your assistance.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Collin Sumpter', written over a light blue horizontal line.

Collin Sumpter  
Resource Manager



## AIR QUALITY PERMIT TO CONSTRUCT APPLICATION CHECKLIST

OWNER OF EQUIPMENT/PROCESS	
COMPANY NAME:	Laurel Sand & Gravel, Inc. T/A S.W. Barrick & Sons
COMPANY ADDRESS:	P.O. Box 850 Laurel, MD 20725
LOCATION OF EQUIPMENT/PROCESS	
PREMISES NAME:	Legore Quarry (021-0129)
PREMISES ADDRESS:	11640 Woodsboro Pike, Keymar, MD 21757
CONTACT INFORMATION FOR THIS PERMIT APPLICATION	
CONTACT NAME:	Collin Sumpter
JOB TITLE:	Resource Manager
PHONE NUMBER:	410-792-7234 ext. 1120
EMAIL ADDRESS:	collin@aggmgt.com
DESCRIPTION OF EQUIPMENT OR PROCESS	
Metso Lokotrack ST2.8 Mobile Scalping Screen	

Application is hereby made to the Department of the Environment for a Permit to Construct for the following equipment or process as required by the State of Maryland Air Quality Regulation, COMAR 26.11.02.09.

Check each item that you have submitted as part of your application package.

- Application package cover letter describing the proposed project
- Complete application forms (Note the number of forms included or NA if not applicable.)
 

No. <u>  X  </u> Form 5	No. <u>  N/A  </u> Form 11
No. <u>  X  </u> Form 5T	No. <u>  N/A  </u> Form 41
No. <u>  X  </u> Form 5EP	No. <u>  N/A  </u> Form 42
No. <u>  N/A  </u> Form 6	No. <u>  N/A  </u> Form 44
No. <u>  N/A  </u> Form 10	
- Vendor/manufacturer specifications/guarantees
- Evidence of Workman's Compensation Insurance
- Process flow diagrams with emission points
- PORTABLE  Site plan including the location of the proposed source and property boundary
- Material balance data and all emissions calculations
- Material Safety Data Sheets (MSDS) or equivalent information for materials processed and manufactured.
- Certificate of Public Convenience and Necessity (CPCN) waiver documentation from the Public Service Commission <sup>(1)</sup>
- Documentation that the proposed installation complies with local zoning and land use requirements <sup>(2)</sup>
  - (1) Required for emergency and non-emergency generators installed on or after October 1, 2001 and rated at 2001 kW or more.
  - (2) Required for applications subject to Expanded Public Participation Requirements.

**MARYLAND DEPARTMENT OF THE ENVIRONMENT**

1800 Washington Blvd ▪ Baltimore, Maryland 21230  
(410) 537-3230 ▪ 1-800-633-6101 ▪ www.mde.state.md.us

**Air and Radiation Management Administration ▪ Air Quality Permits Program**

**APPLICATION FOR PROCESSING/MANUFACTURING EQUIPMENT**

Permit to Construct       Registration Update       Initial Registration

**1A. Owner of Equipment/Company Name**

Laurel Sand & Gravel, Inc. T/A S.W. Barrick & Sons

**Mailing Address**

P.O. Box 850

**Street Address**

Laurel MD 20725

City State Zip

**Telephone Number**

(410 ) 792-7234 ext. 1120

**Signature**



Collin Sumpter, Resource Manager

Print Name and Title

05/11/2021

Date

**1B. Equipment Location and Telephone Number (if different from above)**

11640 Woodsboro Pike

Street Number and Street Name

Keymar MD 21757 (301 ) 845-6343

City/Town State Zip Telephone Number

Legore Quarry

Premises Name (if different from above)

**3. Status (A= New, B= Modification to Existing Equipment, C= Existing Equipment)**

Status	New Construction Begun (MM/YY)	New Construction Completed (MM/YY)	Existing Initial Operation (MM/YY)
A 15	0 5 2 1 16-19	0 5 2 1 20-23	0 6 9 7 20-23

**4. Describe this Equipment: Make, Model, Features, Manufacturer (include Maximum Hourly Input Rate, etc.)**

Metso Lokotrack ST2.8 Mobile Scalping Screen - 400 TPH

**5. Workmen's Compensation Coverage** WC 695307

12/31/2021

Binder/Policy Number

Expiration Date

Company Rockwood Casualty Insurance Co.

NOTE: Before a Permit to Construct may be issued by the Department, the applicant must provide the Department with proof of worker's compensation coverage as required under Section 1-202 of the Worker's Compensation Act.

**6A. Number of Pieces of Identical Equipment Units to be Registered/Permitted at this Time** -0-

**6B. Number of Stack/Emission Points Associated with this Equipment** Seven (7) emissions points

**DO NOT WRITE IN THIS BLOCK**

**2. REGISTRATION NUMBER**

<b>County No.</b>		<b>Premises No.</b>			
1-2	3-6				
<b>Registration Class</b>		<b>Equipment No.</b>			
7	8-11				
<b>Data Year</b>		<b>Application Date</b>			
12-13					

**7. Person Installing this Equipment (if different from Number 1 on Page 1)**

Name Same as #1 Title \_\_\_\_\_

Company \_\_\_\_\_

Mailing Address/Street \_\_\_\_\_

City/Town \_\_\_\_\_ State \_\_\_\_\_ Telephone (\_\_\_\_) \_\_\_\_\_

**8. Major Activity, Product or Service of Company at this Location**

Aggregate Quarry

**9. Control Devices Associated with this Equipment**

None

24-0

Simple/Multiple Cyclone

24-1

Spray/Adsorb Tower

24-2

Venturi Scrubber

24-3

Carbon Adsorber

24-4

Electrostatic Precipitator

24-5

Baghouse

24-6

Thermal/Catalytic Afterburner

24-7

Dry Scrubber

24-8

Other

Describe The moisture content of the material is sufficient to control the release of particulate matter.  
24-9

**10. Annual Fuel Consumption for this Equipment**

OIL-1000 GALLONS				SULFUR %		GRADE	NATURAL GAS-1000 FT <sup>3</sup>				LP GAS-100 GALLONS			GRADE
<input type="text" value="4"/>	<input type="text" value="3"/>	<input type="text" value="."/>	<input type="text" value="8"/>	<input type="text" value="8"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
26-31				32-33		34	35-41				42-45			
COAL - TONS						SULFUR %		ASH%		WOOD-TONS			MOISTURE %	
<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
46-52						53-55		56-58		59-63			64-65	
OTHER FUELS				<input type="text" value=""/>	ANNUAL AMOUNT CONSUMED				OTHER FUEL			<input type="text" value=""/>	ANNUAL AMOUNT CONSUMED	
(Specify Type)				66-1	(Specify Units of Measure)				(Specify Type)			66-2	(Specify Units of Measure)	
1=Coke 2= COG 3=BFG 4=Other														

**11. Operating Schedule (for this Equipment)**

Continuous Operation	Batch Process	Hours per Batch	Batch per Week	Hours per Day	Days Per Week	Days per Year
<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value="1"/>	<input type="text" value="6"/>	<input type="text" value="5"/>
67-1	67-2	68-69		70-71		72
Seasonal Variation in Operation:						
No Variation	Winter Percent	Spring Percent	Summer Percent	Fall Percent	(Total Seasons= 100%)	
<input type="checkbox"/>	<input type="text" value="1"/>	<input type="text" value="3"/>	<input type="text" value="3"/>	<input type="text" value="3"/>		
76	77-78	79-80	81-82	83-84		



**12. Equivalent Stack Information- is Exhaust through Doors, Windows, etc. Only? (Y/N)**

N

  
85

N/A

If not, then

Height Above Ground (FT)

Inside Diameter at Top

Exit Temperature (°F)

Exit Velocity (FT/SEC)

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86-88

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89-91

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92-95

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96-98

**NOTE:** See Attachment #1 - Flow Diagram

**Attach a block diagram of process/process line, indicating new equipment as reported on this form and all existing equipment, including control devices and emission points.**

**13. Input Materials (for this equipment only)**

Is any of this data to be considered confidential? N (Y or N)

	NAME	CAS NO. (IF APPLICABLE)	PER HOUR	INPUT RATE		UNITS
				UNITS	PER YEAR	
1.	Dirty Shot Rock		400	Tons	1,664,000	Tons
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						

**TOTAL**

**14. Output Materials (for this equipment)**

**Process/Product Stream** Product & Output Rate varies based on screen configuration.

	NAME	CAS NO. (IF APPLICABLE)	PER HOUR	OUTPUT RATE		UNITS
				UNITS	PER YEAR	
1.	Limestone/Dirt Product		133.33	Tons	554,666	Tons
2.	Limestone/Dirt Product		133.33	Tons	554,666	Tons
3.	Limestone/Dirt Product		133.33	Tons	554,666	Tons
4.						
5.						
6.						
7.						
8.						
9.						

**TOTAL**

**15. Waste Streams - Solid and Liquid**

	NAME	CAS NO. (IF APPLICABLE)	PER HOUR	OUTPUT RATE		UNITS
				UNITS	PER YEAR	
1.	N/A					
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						

**TOTAL**

**16. Total Stack Emissions (for this equipment only) in Pounds Per Operating Day**

Particulate Matter

99-104

Oxides of Sulfur  
0.01

105-110

Oxides of Nitrogen  
1.06

111-116

Carbon Monoxide  
13.04

177-122

Volatile Organic Compounds

123-128

PM-10  
3.52

129-134

**17. Total Fugitive Emissions (for this equipment only) in Pounds Per Operating Day**

See Attachment #2

Particulate Matter  
14.98

135-139

Oxides of Sulfur

140-144

Oxides of Nitrogen

145-149

Carbon Monoxide

150-154

Volatile Organic Compounds

155-159

PM-10  
5.24

160-164

**Method Used to Determine Emissions (1= Estimate 2= Emission Factor 3= Stack Test 4= Other)**

TSP  
2

165

SOX  
2

166

NOX  
2

167

CO  
2

168

VOC

169

PM10  
2

170

**AIR AND RADIATION MANAGEMENT ADMINISTRATION USE ONLY**

**18. Date Rec'd. Local**

**Date Rec'd. State**

**Return to Local Jurisdiction**

Date \_\_\_\_\_ By \_\_\_\_\_

**Reviewed by Local Jurisdiction**

Date \_\_\_\_\_ By \_\_\_\_\_

**Reviewed by State**

Date \_\_\_\_\_ By \_\_\_\_\_

**19. Inventory Date**

**Month/Year**

171-174

**Equipment Code**

175-177

**SCC Code**

178-185

**20. Annual**

**Operating Rate**

186-192

**Maximum Design**

**Hourly Rate**

193-199

**Permit to Operate**

**Month**

200-201

**Transaction Date**

**(MM/DD/YR)**

202-207

**Staff Code**

208-210

**VOC Code**

211 212

**SIP Code**

213 214

**Regulation Code**

215-218

**Confidentiality**

219

**Point Description**

220-238

**Action**

A: Add  
C: Change

239





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**FORM 5EP: Emission Point Data**

**Complete one (1) Form 5EP for EACH emission point** (stack or fugitive emissions) related to the proposed installation.

Applicant Name: Laurel Sand & Gravel, Inc. T/A S.W. Barrick & Sons - Legore Quarry

**1. Emission Point Identification Name/Number**

List the applicant assigned name/number for this emission point and use this value on the attached required plot plan:  
E-1

**2. Emission Point Description**

Describe the emission point including all associated equipment and control devices:

Dump Hopper

**3. Emissions Schedule for the Emission Point**

Continuous or Intermittent (C/I)?	C	<b>Seasonal Variation</b> Check box if none: <input type="checkbox"/> Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	10
Hours per day:	16	Spring Percent	30
Days per week:	5	Summer Percent	30
Weeks per year:	37	Fall Percent	30

**4. Emission Point Information**

Height above ground (ft):	N/A	Length and width dimensions at top of rectangular stack (ft):	Length:	Width:	
Height above structures (ft):	N/A		N/A	N/A	
Exit temperature (°F):	N/A	Inside diameter at top of round stack (ft):	N/A		
Exit velocity (ft/min):	N/A	Distance from emission point to nearest property line (ft):	N/A		
Exhaust gas volumetric flow rate (acfm):	N/A	Building dimensions if emission point is located on building (ft)	Height N/A	Length N/A	Width N/A

**5. Control Devices Associated with the Emission Point**

Identify each control device associated with the emission point and indicate the number of devices. **A Form 6 is also required for each control device.** If none check none:

<input type="checkbox"/> None		<input type="checkbox"/> Thermal Oxidizer	No. _____
<input type="checkbox"/> Baghouse	No. _____	<input type="checkbox"/> Regenerative	
<input type="checkbox"/> Cyclone	No. _____	<input type="checkbox"/> Catalytic Oxidizer	No. _____
<input type="checkbox"/> Elec. Precipitator (ESP)	No. _____	<input type="checkbox"/> Nitrogen Oxides Reduction	No. _____
<input type="checkbox"/> Dust Suppression System	No. _____	<input type="checkbox"/> Selective	<input type="checkbox"/> Non-Selective
<input type="checkbox"/> Venturi Scrubber	No. _____	<input type="checkbox"/> Catalytic	<input type="checkbox"/> Non-Catalytic
<input type="checkbox"/> Spray Tower/Packed Bed	No. _____	<input checked="" type="checkbox"/> Other	No. _____
<input type="checkbox"/> Carbon Adsorber	No. _____	Specify:	
<input type="checkbox"/> Cartridge/Canister		The moisture content of the material is sufficient to control the release of particulate matter.	
<input type="checkbox"/> Regenerative			

## FORM 5EP: Emission Point Data

### 6. Estimated Emissions from the Emission Point

Criteria Pollutants	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Particulate Matter (filterable as PM10)	0.0064	0.0064	0.1024	0.013312
Particulate Matter (filterable as PM2.5)	0	0	0	0
Particulate Matter (condensables)	N/A			
Volatile Organic Compounds (VOC)	N/A			
Oxides of Sulfur (SOx)	N/A			
Oxides of Nitrogen (NOx)	N/A			
Carbon Monoxide (CO)	N/A			
Lead (Pb)	N/A			
Greenhouse Gases (GHG)	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Carbon Dioxide (CO <sub>2</sub> )	N/A			
Methane (CH <sub>4</sub> )	N/A			
Nitrous Oxide (N <sub>2</sub> O)	N/A			
Hydrofluorocarbons (HFCs)	N/A			
Perfluorocarbons (PFCs)	N/A			
Sulfur Hexafluoride (SF <sub>6</sub> )	N/A			
Total GHG (as CO <sub>2</sub> e)	N/A			
List individual federal Hazardous Air Pollutants (HAP) below:	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
N/A				

(Attach additional sheets as necessary.)

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**FORM 5EP: Emission Point Data**

**Complete one (1) Form 5EP for EACH emission point** (stack or fugitive emissions) related to the proposed installation.

Applicant Name: Laurel Sand & Gravel, Inc. T/A S.W. Barrick & Sons - Legore Quarry

**1. Emission Point Identification Name/Number**

List the applicant assigned name/number for this emission point and use this value on the attached required plot plan:  
E-2

**2. Emission Point Description**

Describe the emission point including all associated equipment and control devices:  
Feeder Discharge to D.D. Screen

**3. Emissions Schedule for the Emission Point**

Continuous or Intermittent (C/I)?	C	<b>Seasonal Variation</b> Check box if none: <input type="checkbox"/> Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	10
Hours per day:	16	Spring Percent	30
Days per week:	5	Summer Percent	30
Weeks per year:	37	Fall Percent	30

**4. Emission Point Information**

Height above ground (ft):	N/A	Length and width dimensions at top of rectangular stack (ft):	Length:	Width:	
Height above structures (ft):	N/A		N/A	N/A	
Exit temperature (°F):	N/A	Inside diameter at top of round stack (ft):	N/A		
Exit velocity (ft/min):	N/A	Distance from emission point to nearest property line (ft):	N/A		
Exhaust gas volumetric flow rate (acfm):	N/A	Building dimensions if emission point is located on building (ft)	Height N/A	Length N/A	Width N/A

**5. Control Devices Associated with the Emission Point**

Identify each control device associated with the emission point and indicate the number of devices. **A Form 6 is also required for each control device.** If none check none:

<input type="checkbox"/> None		<input type="checkbox"/> Thermal Oxidizer	No. _____
<input type="checkbox"/> Baghouse	No. _____	<input type="checkbox"/> Regenerative	
<input type="checkbox"/> Cyclone	No. _____	<input type="checkbox"/> Catalytic Oxidizer	No. _____
<input type="checkbox"/> Elec. Precipitator (ESP)	No. _____	<input type="checkbox"/> Nitrogen Oxides Reduction	No. _____
<input type="checkbox"/> Dust Suppression System	No. _____	<input type="checkbox"/> Selective	<input type="checkbox"/> Non-Selective
<input type="checkbox"/> Venturi Scrubber	No. _____	<input type="checkbox"/> Catalytic	<input type="checkbox"/> Non-Catalytic
<input type="checkbox"/> Spray Tower/Packed Bed	No. _____	<input checked="" type="checkbox"/> Other	No. _____
<input type="checkbox"/> Carbon Adsorber	No. _____	Specify:	
<input type="checkbox"/> Cartridge/Canister		The moisture content of the material is sufficient to control the release of particulate matter.	
<input type="checkbox"/> Regenerative			

## FORM 5EP: Emission Point Data

### 6. Estimated Emissions from the Emission Point

Criteria Pollutants	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Particulate Matter (filterable as PM10)	0.0064	0.0064	0.1024	0.0133
Particulate Matter (filterable as PM2.5)	0	0	0	0
Particulate Matter (condensables)	N/A			
Volatile Organic Compounds (VOC)	N/A			
Oxides of Sulfur (SOx)	N/A			
Oxides of Nitrogen (NOx)	N/A			
Carbon Monoxide (CO)	N/A			
Lead (Pb)	N/A			
Greenhouse Gases (GHG)	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Carbon Dioxide (CO <sub>2</sub> )	N/A			
Methane (CH <sub>4</sub> )	N/A			
Nitrous Oxide (N <sub>2</sub> O)	N/A			
Hydrofluorocarbons (HFCs)	N/A			
Perfluorocarbons (PFCs)	N/A			
Sulfur Hexafluoride (SF <sub>6</sub> )	N/A			
Total GHG (as CO <sub>2</sub> e)	N/A			
List individual federal Hazardous Air Pollutants (HAP) below:	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
N/A				

(Attach additional sheets as necessary.)

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**FORM 5EP: Emission Point Data**

**Complete one (1) Form 5EP for EACH emission point** (stack or fugitive emissions) related to the proposed installation.

Applicant Name: Laurel Sand & Gravel, Inc. T/A S.W. Barrick & Sons - Legore Quarry

**1. Emission Point Identification Name/Number**

List the applicant assigned name/number for this emission point and use this value on the attached required plot plan:  
E-3

**2. Emission Point Description**

Describe the emission point including all associated equipment and control devices:  
D.D. Screen Discharge

**3. Emissions Schedule for the Emission Point**

Continuous or Intermittent (C/I)?	C	<b>Seasonal Variation</b> Check box if none: <input type="checkbox"/> Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	10
Hours per day:	16	Spring Percent	30
Days per week:	5	Summer Percent	30
Weeks per year:	37	Fall Percent	30

**4. Emission Point Information**

Height above ground (ft):	N/A	Length and width dimensions at top of rectangular stack (ft):	Length:	Width:	
Height above structures (ft):	N/A		N/A	N/A	
Exit temperature (°F):	N/A	Inside diameter at top of round stack (ft):	N/A		
Exit velocity (ft/min):	N/A	Distance from emission point to nearest property line (ft):	N/A		
Exhaust gas volumetric flow rate (acfm):	N/A	Building dimensions if emission point is located on building (ft)	Height N/A	Length N/A	Width N/A

**5. Control Devices Associated with the Emission Point**

Identify each control device associated with the emission point and indicate the number of devices. **A Form 6 is also required for each control device.** If none check none:

<input type="checkbox"/> None		<input type="checkbox"/> Thermal Oxidizer	No. _____
<input type="checkbox"/> Baghouse	No. _____	<input type="checkbox"/> Regenerative	
<input type="checkbox"/> Cyclone	No. _____	<input type="checkbox"/> Catalytic Oxidizer	No. _____
<input type="checkbox"/> Elec. Precipitator (ESP)	No. _____	<input type="checkbox"/> Nitrogen Oxides Reduction	No. _____
<input type="checkbox"/> Dust Suppression System	No. _____	<input type="checkbox"/> Selective	<input type="checkbox"/> Non-Selective
<input type="checkbox"/> Venturi Scrubber	No. _____	<input type="checkbox"/> Catalytic	<input type="checkbox"/> Non-Catalytic
<input type="checkbox"/> Spray Tower/Packed Bed	No. _____	<input checked="" type="checkbox"/> Other	No. _____
<input type="checkbox"/> Carbon Adsorber	No. _____	Specify:	
<input type="checkbox"/> Cartridge/Canister		The moisture content of the material is sufficient to control the release of particulate matter.	
<input type="checkbox"/> Regenerative			

## FORM 5EP: Emission Point Data

### 6. Estimated Emissions from the Emission Point

Criteria Pollutants	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Particulate Matter (filterable as PM10)	0.2960	0.2960	4.7360	0.6157
Particulate Matter (filterable as PM2.5)	0.0200	0.0200	0.3200	0.0416
Particulate Matter (condensables)	N/A			
Volatile Organic Compounds (VOC)	N/A			
Oxides of Sulfur (SOx)	N/A			
Oxides of Nitrogen (NOx)	N/A			
Carbon Monoxide (CO)	N/A			
Lead (Pb)	N/A			
Greenhouse Gases (GHG)	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Carbon Dioxide (CO <sub>2</sub> )	N/A			
Methane (CH <sub>4</sub> )	N/A			
Nitrous Oxide (N <sub>2</sub> O)	N/A			
Hydrofluorocarbons (HFCs)	N/A			
Perfluorocarbons (PFCs)	N/A			
Sulfur Hexafluoride (SF <sub>6</sub> )	N/A			
Total GHG (as CO <sub>2</sub> e)	N/A			
List individual federal Hazardous Air Pollutants (HAP) below:	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
N/A				

(Attach additional sheets as necessary.)

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**FORM 5EP: Emission Point Data**

**Complete one (1) Form 5EP for EACH emission point** (stack or fugitive emissions) related to the proposed installation.

Applicant Name: Laurel Sand & Gravel, Inc. T/A S.W. Barrick & Sons - Legore Quarry

**1. Emission Point Identification Name/Number**

List the applicant assigned name/number for this emission point and use this value on the attached required plot plan:  
E-4

**2. Emission Point Description**

Describe the emission point including all associated equipment and control devices:  
Conveyor #1 Discharge

**3. Emissions Schedule for the Emission Point**

Continuous or Intermittent (C/I)?	C	<b>Seasonal Variation</b> Check box if none: <input type="checkbox"/> Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	10
Hours per day:	16	Spring Percent	30
Days per week:	5	Summer Percent	30
Weeks per year:	37	Fall Percent	30

**4. Emission Point Information**

Height above ground (ft):	N/A	Length and width dimensions at top of rectangular stack (ft):	Length:	Width:	
Height above structures (ft):	N/A		N/A	N/A	
Exit temperature (°F):	N/A	Inside diameter at top of round stack (ft):	N/A		
Exit velocity (ft/min):	N/A	Distance from emission point to nearest property line (ft):	N/A		
Exhaust gas volumetric flow rate (acfm):	N/A	Building dimensions if emission point is located on building (ft)	Height N/A	Length N/A	Width N/A

**5. Control Devices Associated with the Emission Point**

Identify each control device associated with the emission point and indicate the number of devices. **A Form 6 is also required for each control device.** If none check none:

<input type="checkbox"/> None		<input type="checkbox"/> Thermal Oxidizer	No. _____
<input type="checkbox"/> Baghouse	No. _____	<input type="checkbox"/> Regenerative	
<input type="checkbox"/> Cyclone	No. _____	<input type="checkbox"/> Catalytic Oxidizer	No. _____
<input type="checkbox"/> Elec. Precipitator (ESP)	No. _____	<input type="checkbox"/> Nitrogen Oxides Reduction	No. _____
<input type="checkbox"/> Dust Suppression System	No. _____	<input type="checkbox"/> Selective	<input type="checkbox"/> Non-Selective
<input type="checkbox"/> Venturi Scrubber	No. _____	<input type="checkbox"/> Catalytic	<input type="checkbox"/> Non-Catalytic
<input type="checkbox"/> Spray Tower/Packed Bed	No. _____	<input checked="" type="checkbox"/> Other	No. _____
<input type="checkbox"/> Carbon Adsorber	No. _____	Specify:	
<input type="checkbox"/> Cartridge/Canister		The moisture content of the material is sufficient to control the release of particulate matter.	
<input type="checkbox"/> Regenerative			



## FORM 5EP: Emission Point Data

### 6. Estimated Emissions from the Emission Point

Criteria Pollutants	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Particulate Matter (filterable as PM10)	0.0061	0.0061	0.0981	0.0128
Particulate Matter (filterable as PM2.5)	0.0017	0.0017	0.0277	0.0036
Particulate Matter (condensables)	N/A			
Volatile Organic Compounds (VOC)	N/A			
Oxides of Sulfur (SOx)	N/A			
Oxides of Nitrogen (NOx)	N/A			
Carbon Monoxide (CO)	N/A			
Lead (Pb)	N/A			
Greenhouse Gases (GHG)	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Carbon Dioxide (CO <sub>2</sub> )	N/A			
Methane (CH <sub>4</sub> )	N/A			
Nitrous Oxide (N <sub>2</sub> O)	N/A			
Hydrofluorocarbons (HFCs)	N/A			
Perfluorocarbons (PFCs)	N/A			
Sulfur Hexafluoride (SF <sub>6</sub> )	N/A			
Total GHG (as CO <sub>2</sub> e)	N/A			
List individual federal Hazardous Air Pollutants (HAP) below:	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
N/A				

(Attach additional sheets as necessary.)

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**FORM 5EP: Emission Point Data**

**Complete one (1) Form 5EP for EACH emission point** (stack or fugitive emissions) related to the proposed installation.

Applicant Name: Laurel Sand & Gravel, Inc. T/A S.W. Barrick & Sons - Legore Quarry

**1. Emission Point Identification Name/Number**

List the applicant assigned name/number for this emission point and use this value on the attached required plot plan:  
E-5

**2. Emission Point Description**

Describe the emission point including all associated equipment and control devices:  
Conveyor #2 Discharge

**3. Emissions Schedule for the Emission Point**

Continuous or Intermittent (C/I)?	C	<b>Seasonal Variation</b> Check box if none: <input type="checkbox"/> Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	10
Hours per day:	16	Spring Percent	30
Days per week:	5	Summer Percent	30
Weeks per year:	37	Fall Percent	30

**4. Emission Point Information**

Height above ground (ft):	N/A	Length and width dimensions at top of rectangular stack (ft):	Length:	Width:	
Height above structures (ft):	N/A		N/A	N/A	
Exit temperature (°F):	N/A	Inside diameter at top of round stack (ft):	N/A		
Exit velocity (ft/min):	N/A	Distance from emission point to nearest property line (ft):	N/A		
Exhaust gas volumetric flow rate (acfm):	N/A	Building dimensions if emission point is located on building (ft)	Height N/A	Length N/A	Width N/A

**5. Control Devices Associated with the Emission Point**

Identify each control device associated with the emission point and indicate the number of devices. **A Form 6 is also required for each control device.** If none check none:

<input type="checkbox"/> None		<input type="checkbox"/> Thermal Oxidizer	No. _____
<input type="checkbox"/> Baghouse	No. _____	<input type="checkbox"/> Regenerative	
<input type="checkbox"/> Cyclone	No. _____	<input type="checkbox"/> Catalytic Oxidizer	No. _____
<input type="checkbox"/> Elec. Precipitator (ESP)	No. _____	<input type="checkbox"/> Nitrogen Oxides Reduction	No. _____
<input type="checkbox"/> Dust Suppression System	No. _____	<input type="checkbox"/> Selective	<input type="checkbox"/> Non-Selective
<input type="checkbox"/> Venturi Scrubber	No. _____	<input type="checkbox"/> Catalytic	<input type="checkbox"/> Non-Catalytic
<input type="checkbox"/> Spray Tower/Packed Bed	No. _____	<input checked="" type="checkbox"/> Other	No. _____
<input type="checkbox"/> Carbon Adsorber	No. _____	Specify:	
<input type="checkbox"/> Cartridge/Canister		The moisture content of the material is sufficient to control the release of particulate matter.	
<input type="checkbox"/> Regenerative			

**FORM 5EP: Emission Point Data**

**6. Estimated Emissions from the Emission Point**

Criteria Pollutants	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Particulate Matter (filterable as PM10)	0.0061	0.0061	0.0981	0.0128
Particulate Matter (filterable as PM2.5)	0.0017	0.0017	0.0277	0.0036
Particulate Matter (condensables)	N/A			
Volatile Organic Compounds (VOC)	N/A			
Oxides of Sulfur (SOx)	N/A			
Oxides of Nitrogen (NOx)	N/A			
Carbon Monoxide (CO)	N/A			
Lead (Pb)	N/A			
Greenhouse Gases (GHG)	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Carbon Dioxide (CO <sub>2</sub> )	N/A			
Methane (CH <sub>4</sub> )	N/A			
Nitrous Oxide (N <sub>2</sub> O)	N/A			
Hydrofluorocarbons (HFCs)	N/A			
Perfluorocarbons (PFCs)	N/A			
Sulfur Hexafluoride (SF <sub>6</sub> )	N/A			
Total GHG (as CO <sub>2</sub> e)	N/A			
List individual federal Hazardous Air Pollutants (HAP) below:	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
N/A				

(Attach additional sheets as necessary.)

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**FORM 5EP: Emission Point Data**

**Complete one (1) Form 5EP for EACH emission point** (stack or fugitive emissions) related to the proposed installation.

Applicant Name: Laurel Sand & Gravel, Inc. T/A S.W. Barrick & Sons - Legore Quarry

**1. Emission Point Identification Name/Number**

List the applicant assigned name/number for this emission point and use this value on the attached required plot plan:  
E-6

**2. Emission Point Description**

Describe the emission point including all associated equipment and control devices:  
Conveyor #3 Discharge

**3. Emissions Schedule for the Emission Point**

Continuous or Intermittent (C/I)?	C	<b>Seasonal Variation</b> Check box if none: <input type="checkbox"/> Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	10
Hours per day:	16	Spring Percent	30
Days per week:	5	Summer Percent	30
Weeks per year:	37	Fall Percent	30

**4. Emission Point Information**

Height above ground (ft):	N/A	Length and width dimensions at top of rectangular stack (ft):	Length:	Width:	
Height above structures (ft):	N/A		N/A	N/A	
Exit temperature (°F):	N/A	Inside diameter at top of round stack (ft):	N/A		
Exit velocity (ft/min):	N/A	Distance from emission point to nearest property line (ft):	N/A		
Exhaust gas volumetric flow rate (acfm):	N/A	Building dimensions if emission point is located on building (ft)	Height N/A	Length N/A	Width N/A

**5. Control Devices Associated with the Emission Point**

Identify each control device associated with the emission point and indicate the number of devices. **A Form 6 is also required for each control device.** If none check none:

<input type="checkbox"/> None		<input type="checkbox"/> Thermal Oxidizer	No. _____
<input type="checkbox"/> Baghouse	No. _____	<input type="checkbox"/> Regenerative	
<input type="checkbox"/> Cyclone	No. _____	<input type="checkbox"/> Catalytic Oxidizer	No. _____
<input type="checkbox"/> Elec. Precipitator (ESP)	No. _____	<input type="checkbox"/> Nitrogen Oxides Reduction	No. _____
<input type="checkbox"/> Dust Suppression System	No. _____	<input type="checkbox"/> Selective	<input type="checkbox"/> Non-Selective
<input type="checkbox"/> Venturi Scrubber	No. _____	<input type="checkbox"/> Catalytic	<input type="checkbox"/> Non-Catalytic
<input type="checkbox"/> Spray Tower/Packed Bed	No. _____	<input checked="" type="checkbox"/> Other	No. _____
<input type="checkbox"/> Carbon Adsorber	No. _____	Specify:	
<input type="checkbox"/> Cartridge/Canister		The moisture content of the material is sufficient to control the release of particulate matter.	
<input type="checkbox"/> Regenerative			

## FORM 5EP: Emission Point Data

### 6. Estimated Emissions from the Emission Point

Criteria Pollutants	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Particulate Matter (filterable as PM10)	0.0061	0.0061	0.0981	0.0128
Particulate Matter (filterable as PM2.5)	0.0017	0.0017	0.0277	0.0036
Particulate Matter (condensables)	N/A			
Volatile Organic Compounds (VOC)	N/A			
Oxides of Sulfur (SOx)	N/A			
Oxides of Nitrogen (NOx)	N/A			
Carbon Monoxide (CO)	N/A			
Lead (Pb)	N/A			
Greenhouse Gases (GHG)	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Carbon Dioxide (CO <sub>2</sub> )	N/A			
Methane (CH <sub>4</sub> )	N/A			
Nitrous Oxide (N <sub>2</sub> O)	N/A			
Hydrofluorocarbons (HFCs)	N/A			
Perfluorocarbons (PFCs)	N/A			
Sulfur Hexafluoride (SF <sub>6</sub> )	N/A			
Total GHG (as CO <sub>2</sub> e)	N/A			
List individual federal Hazardous Air Pollutants (HAP) below:	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
N/A				

(Attach additional sheets as necessary.)

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**FORM 5EP: Emission Point Data**

**Complete one (1) Form 5EP for EACH emission point** (stack or fugitive emissions) related to the proposed installation.

Applicant Name: Laurel Sand & Gravel, Inc. T/A S.W. Barrick & Sons - Legore Quarry

**1. Emission Point Identification Name/Number**

List the applicant assigned name/number for this emission point and use this value on the attached required plot plan:  
E-7

**2. Emission Point Description**

Describe the emission point including all associated equipment and control devices:  
CAT C4.4 Tier 4 Diesel Engine (100 hp)

**3. Emissions Schedule for the Emission Point**

Continuous or Intermittent (C/I)?	C	<b>Seasonal Variation</b> Check box if none: <input type="checkbox"/> Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	10
Hours per day:	16	Spring Percent	30
Days per week:	5	Summer Percent	30
Weeks per year:	37	Fall Percent	30

**4. Emission Point Information**

Height above ground (ft):	N/A	Length and width dimensions at top of rectangular stack (ft):	Length:	Width:	
Height above structures (ft):	N/A		N/A	N/A	
Exit temperature (°F):	N/A	Inside diameter at top of round stack (ft):	N/A		
Exit velocity (ft/min):	N/A	Distance from emission point to nearest property line (ft):	N/A		
Exhaust gas volumetric flow rate (acfm):	N/A	Building dimensions if emission point is located on building (ft)	Height N/A	Length N/A	Width N/A

**5. Control Devices Associated with the Emission Point**

Identify each control device associated with the emission point and indicate the number of devices. **A Form 6 is also required for each control device.** If none check none:

- |   |           |  |  |
|---|-----------|--|--|
| <input checked="" type="checkbox"/> None          |           | <input type="checkbox"/> Thermal Oxidizer          | No. _____                              |
| <input type="checkbox"/> Baghouse                 | No. _____ | <input type="checkbox"/> Regenerative              |  |
| <input type="checkbox"/> Cyclone                  | No. _____ | <input type="checkbox"/> Catalytic Oxidizer        | No. _____                              |
| <input type="checkbox"/> Elec. Precipitator (ESP) | No. _____ | <input type="checkbox"/> Nitrogen Oxides Reduction | No. _____                              |
| <input type="checkbox"/> Dust Suppression System  | No. _____ | <input type="checkbox"/> Selective                 | <input type="checkbox"/> Non-Selective |
| <input type="checkbox"/> Venturi Scrubber         | No. _____ | <input type="checkbox"/> Catalytic                 | <input type="checkbox"/> Non-Catalytic |
| <input type="checkbox"/> Spray Tower/Packed Bed   | No. _____ | <input type="checkbox"/> Other                     | No. _____                              |
| <input type="checkbox"/> Carbon Adsorber          | No. _____ | Specify:   |  |
| <input type="checkbox"/> Cartridge/Canister       |           |  |  |
| <input type="checkbox"/> Regenerative             |           |  |  |

## FORM 5EP: Emission Point Data

### 6. Estimated Emissions from the Emission Point

Criteria Pollutants	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Particulate Matter (filterable as PM10)	0.2200	0.2200	3.5200	0.4576
Particulate Matter (filterable as PM2.5)	N/A			
Particulate Matter (condensables)	N/A			
Volatile Organic Compounds (VOC)	N/A			
Oxides of Sulfur (SOx)	0.0005	0.0005	0.0072	0.4264
Oxides of Nitrogen (NOx)	0.0661	0.0661	1.0573	0.1376
Carbon Monoxide (CO)	0.8150	0.8150	13.0396	1.6967
Lead (Pb)	N/A			
Greenhouse Gases (GHG)	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Carbon Dioxide (CO <sub>2</sub> )	0.2533	0.2533	4.0529	239.2000
Methane (CH <sub>4</sub> )	N/A			
Nitrous Oxide (N <sub>2</sub> O)	N/A			
Hydrofluorocarbons (HFCs)	N/A			
Perfluorocarbons (PFCs)	N/A			
Sulfur Hexafluoride (SF <sub>6</sub> )	N/A			
Total GHG (as CO <sub>2</sub> e)	0.2533	0.2533	4.0529	239.2000
List individual federal Hazardous Air Pollutants (HAP) below:	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
N/A				

(Attach additional sheets as necessary.)



**FORM 5T: Toxic Air Pollutant (TAP) Emissions Summary and Compliance Demonstration**

Applicant Name: Laurel Sand & Gravel, Inc. T/A S.W. Barrick & Sons - Legore Quarry

**Step 1: Quantify premises-wide emissions of Toxic Air Pollutants (TAP) from new and existing installations in accordance with COMAR 26.11.15.04. Attach supporting documentation as necessary.**

Toxic Air Pollutant (TAP)	CAS Number	Class I or Class II?	Screening Levels (µg/m <sup>3</sup> )			Estimated Premises Wide Emissions of TAP				
			1-hour	8-hour	Annual	Actual Total Existing TAP Emissions (lb/hr)	Projected TAP Emissions from Proposed Installation (lb/hr)	Premises Wide Total TAP Emissions (lb/yr)		
			ex. ethanol	64175	II	18843	3769	N/A	0.60	0.15
ex. benzene	71432	I	80	16	0.13	0.5	0.75	1.00	400	
N/A										

(attach additional sheets as necessary.)

**Note: Screening levels can be obtained from the Department's website (<http://www.mde.maryland.gov>) or by calling the Department.**

**Step 2: Determine which TAPs are exempt from further review. A TAP that meets either of the following Class I or Class II small quantity emitter exemptions is exempt from further TAP compliance demonstration requirements under Step 3 and Step 4.**

**Class II TAP Small Quantity Emitter Exemption Requirements (COMAR 26.11.15.03B(3)(a))**  
 A Class II TAP is exempt from Step 3 and Step 4 if the Class II TAP meets the following requirements: Premises wide emissions of the TAP shall not exceed 0.5 pounds per hour, and any applicable 1-hour or 8-hour screening level for the TAP must be greater than 200 µg/m<sup>3</sup>.

**Class I TAP Small Quantity Emitter Exemption Requirements (COMAR 26.11.15.03B(3)(b))**  
 A Class I TAP is exempt from Step 3 and Step 4 if the Class I TAP meets the following requirements: Premises wide emissions of the TAP shall not exceed 0.5 pounds per hour and 350 pounds per year, any applicable 1-hour or 8-hour screening level for the TAP must be greater than 200 µg/m<sup>3</sup>, and any applicable annual screening level for the TAP must be greater than 1 µg/m<sup>3</sup>.

**If a TAP meets either the Class I or Class II TAP Small Quantity Emitter Exemption Requirements, no further review under Step 3 and Step 4 are required for that specific TAP.**

**FORM 5T: Toxic Air Pollutant (TAP) Emissions Summary and Compliance Demonstration**

**Step 3: Best Available Control Technology for Toxics Requirement (T-BACT, COMAR 26.11.15.05)**

In the following table, list all TAP emission reduction options considered when determining T-BACT for the proposed installation. The options should be listed in order beginning with the most effective control strategy to the least effective strategy. Attach supporting documentation as necessary.

Target Pollutants	Emission Control Option	% Emission Reduction	Costs		T-BACT Option Selected? (yes/no)
			Capital	Annual Operating	
ex. ethanol and benzene	Thermal Oxidizer	99	\$50,000	\$100,000	no
ex. ethanol and benzene	Low VOC materials	80	0	\$100,000	yes

(attach additional sheets as necessary)

**Step 4: Demonstrating Compliance with the Ambient Impact Requirement (COMAR 26.11.15.06)**

Each TAP not exempt in Step 2 must be individually evaluated to determine that the emissions of the TAP will not adversely impact public health. The evaluation consists of a series of increasingly non-conservative (and increasingly rigorous) tests. Once a TAP passes a test in the evaluation, no further analysis is required for that TAP. "Demonstrating Compliance with the Ambient Impact Requirement under the Toxic Air Pollutant (TAP) Regulations (COMAR 26.11.15.06)" provides guidance on conducting the evaluation. Summarize your results in the following table. Attach supporting documentation as necessary.

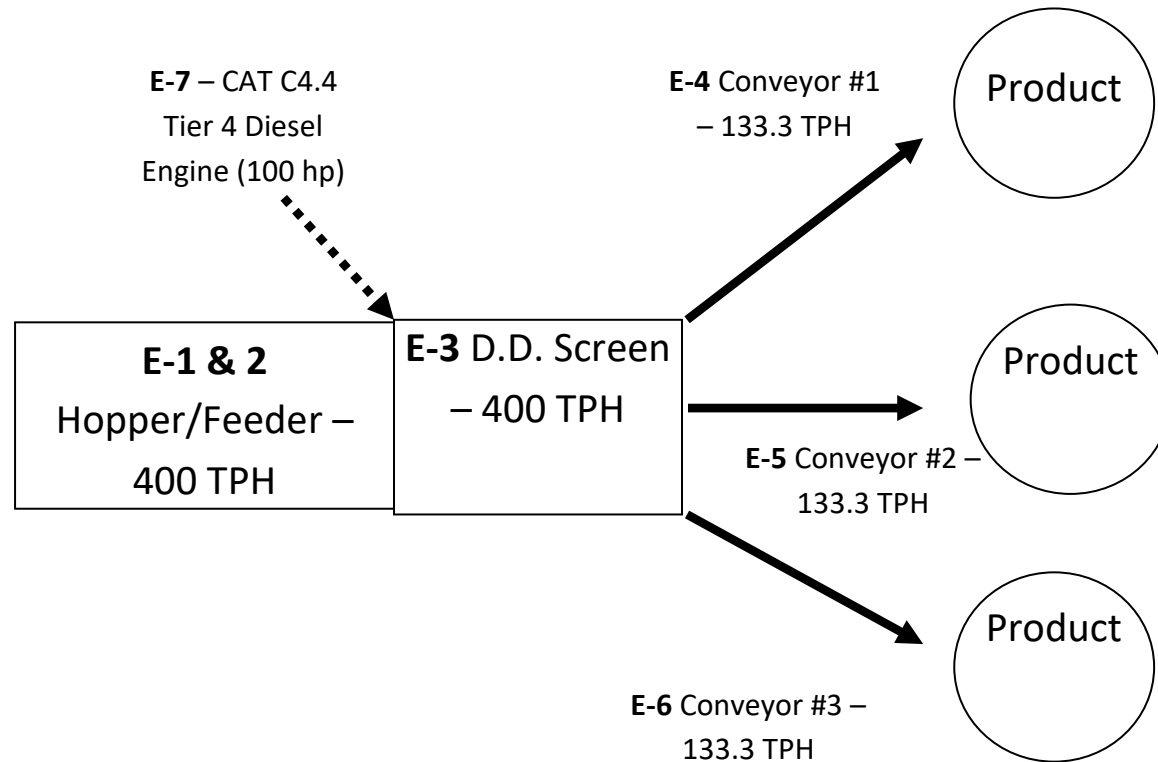
Toxic Air Pollutant (TAP)	CAS Number	Screening Levels (µg/m <sup>3</sup> )			Premises Wide Total TAP Emissions	Allowable Emissions Rate (AER) per COMAR 26.11.16.02A		Off-site Concentrations per Screening Analysis (µg/m <sup>3</sup> )			Compliance Method Used? AER or Screen	
		Annual		1-hour		1-hour	8-hour	Annual	1-hour	8-hour		Annual
		1-hour	8-hour									
ex. ethanol	64175	18843	3769	N/A	1500	0.89	N/A	N/A	N/A	N/A	AER	
ex. benzene	71432	80	16	0.13	400	0.04	36.52	1.5	1.05	0.12	Screen	

(attach additional sheets as necessary)

**If compliance with the ambient impact requirement cannot be met using the allowable emissions rate method or the screening analysis method, refined dispersion modeling techniques may be required. Please consult with the Department's Air Quality Permit Program prior to conducting dispersion modeling methods to demonstrate compliance.**

## Attachment #1

### Metso Lokotrack ST2.8 Mobile Scalping Screen – Flow Diagram\*



\*Screen is portable and will be used at more than one site. Is independent from any other plant on site.

**Attachment #2 - Emissions Calculations**  
*Metso Lokotrack ST22.8 Mobile Scalping Screen*

	PM-10	AP-42 Emissions Factors PM- Filterable	PM - 2.5	Metso Screen Production
Crushers (controlled)	0.00054	0.0012	0.0001	Production Days: 260
Screens (controlled)	0.00074	0.0022	0.00005	Tons Produced: 1,664,000
Conveyors (controlled)	0.000046	0.00014	0.000013	Production Hours: 4,160
Truck Unloading	0.000016	0	0	

	Production	Emission Factor	Operating Days	PM-10 Emissions Produced	PM-Filterable Emissions Produced	PM-2.5 Emissions Produced
<b>Dump Hopper (E-1)</b>	1,664,000 tons/year	X Truck Unloading ÷	260 days/year	= <b>0.1024</b> lbs/day <b>0.0133</b> tons/year	= <b>0.0000</b> lbs/day <b>0.0000</b> tons/year	= <b>0.0000</b> lbs/day <b>0.0000</b> tons/year
<b>Feeder (E-2)</b>	1,664,000 tons/year	X Truck Unloading ÷	260 days/year	= <b>0.1024</b> lbs/day <b>0.0133</b> tons/year	= <b>0.0000</b> lbs/day <b>0.0000</b> tons/year	= <b>0.0000</b> lbs/day <b>0.0000</b> tons/year
<b>Screen (E-3)</b>	1,664,000 tons/year	X Screens (controlled) ÷	260 days/year	= <b>4.7360</b> lbs/day <b>0.6157</b> tons/year	= <b>14.0800</b> lbs/day <b>1.8304</b> tons/year	= <b>0.3200</b> lbs/day <b>0.0416</b> tons/year
<b>Conveyor #1 (E-4)</b>	554,667 tons/year	X Conveyors (controlled) ÷	260 days/year	= <b>0.0981</b> lbs/day <b>0.0128</b> tons/year	= <b>0.2987</b> lbs/day <b>0.0388</b> tons/year	= <b>0.0277</b> lbs/day <b>0.0036</b> tons/year
<b>Conveyor #2 (E-5)</b>	554,667 tons/year	X Conveyors (controlled) ÷	260 days/year	= <b>0.0981</b> lbs/day <b>0.0128</b> tons/year	= <b>0.2987</b> lbs/day <b>0.0388</b> tons/year	= <b>0.0277</b> lbs/day <b>0.0036</b> tons/year
<b>Conveyor #3 (E-6)</b>	554,667 tons/year	X Conveyors (controlled) ÷	260 days/year	= <b>0.0981</b> lbs/day <b>0.0128</b> tons/year	= <b>0.2987</b> lbs/day <b>0.0388</b> tons/year	= <b>0.0277</b> lbs/day <b>0.0036</b> tons/year

<b>PM-10 Metso 2.8 Screen</b>	
<b>5.24</b> lbs/day	<b>0.68</b> tons/year

<b>PM-Filterable Metso 2.8 Screen</b>	
<b>14.98</b> lbs/day	<b>1.95</b> tons/year

<b>PM-2.5 Metso Screen</b>	
<b>0.40</b> lbs/day	<b>0.05</b> tons/year

Diesel Engine (E-7)	Emission Factor	Operating Hours	Power	Emissions Produced
PM-10	0.0022	x 4,160 hours	x 100 hp	= <b>3.5200</b> lbs/day <b>0.4576</b> tons/year
NOx	0.3 *	x 4,160 hours	x 100 hp	= <b>1.0573</b> lbs/day <b>0.1376</b> tons/year
CO	3.7 *	x 4,160 hours	x 100 hp	= <b>13.0396</b> lbs/day <b>1.6967</b> tons/year
SOx	0.00205	x 4,160 hours	x 100 hp	= <b>0.0072</b> lbs/day <b>0.4264</b> tons/year
CO2	1.15	x 4,160 hours	x 100 hp	= <b>4.0529</b> lbs/day <b>239.2000</b> tons/year

\* Tier 4 Emissions Standards (g/bhp\*hr)



# Lokotrack® ST2.8™

Mobile scalping screen





# Lokotrack ST2.8

## Mobile scalping screen

Lokotrack ST2.8 makes the scalping of sticky recycling material look easy. The design principle has been simple: to optimize capacity in demanding scalping and to minimize unprofitable time on site.

**The stickler the feed material the more throw needed in the scalping screen.** Lokotrack ST2.8 has the biggest eccentric throw on the market to make it the best unit for the screening of top soil, demolition waste and river gravel. Additionally, ST2.8 can be fine tuned even for sand applications. The clearance under the screen has been increased by 20% and the bottom deck area is larger compared with ST272™.

**In multi-stage crushing processes, the removal of fines is easy with a two-way split option.** This feature combines material flow from the first and second deck to the main conveyor and maximizes the capacity and efficiency of the crushing process. Belt feeder and chevron

belts are standard features of Lokotrack ST2.8. In addition, apron feeder, hopper extension and magnetic separator can be selected to meet specific requirements.

**Lokotrack ST2.8 is ready for screening in minutes** thanks to hydraulically operated conveyors and screen including a patent pending feeder mechanism. Lokotrack ST2.8 is 25% lighter than similar machines. Because the weight is lower, transportation is easier.

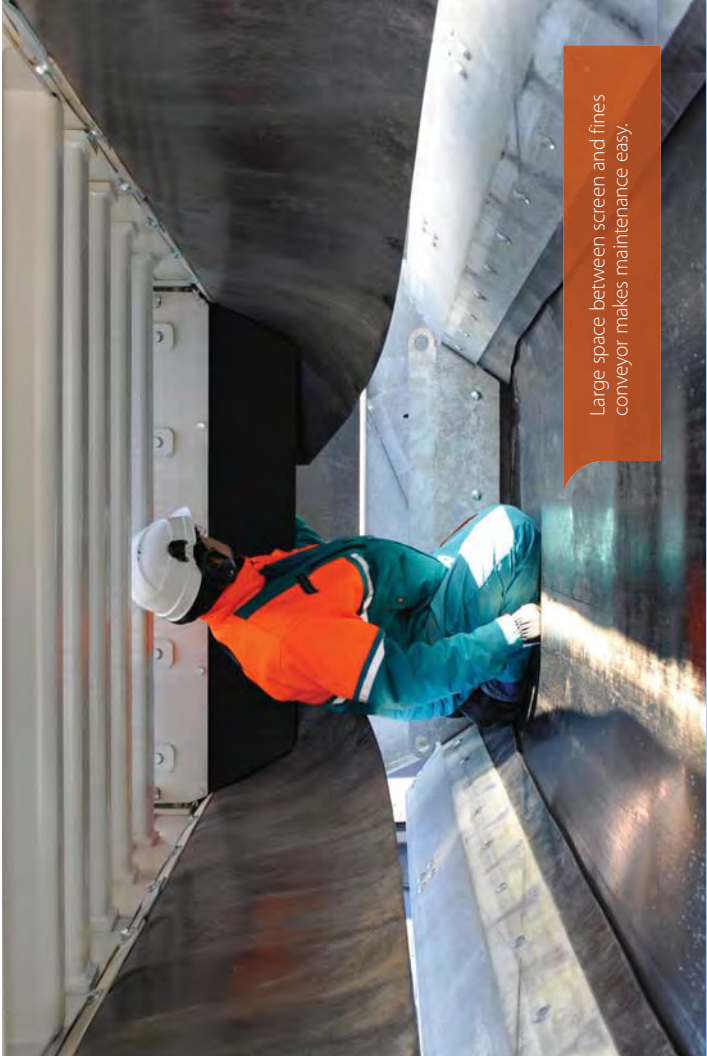
**The fuel-efficient scalping process** can be started with safe push buttons or by the optional Metso IC300™ process control system. IC300 includes features such as automatic feeder speed control and interlocking capability with Lokotrack crushing plants.







Push button control or optional Metso IC300™ process control ensures easy and safe operation.



Large space between screen and fines conveyor makes maintenance easy.



Two-way split feature combines material flow from the top and bottom deck to the main conveyor.



Lokotrack ST2.8 is 25% lighter to transport.





### Technical specifications

#### Screen

Size 1,524 x 4,866 mm 5' x 16'  
Area 74 m<sup>2</sup> 89 yd<sup>2</sup>  
Screen angle 10 – 17°

#### Hopper

Volume 4.5 m<sup>3</sup> (11 m<sup>3</sup>) 5.9 yd<sup>3</sup> (14 yd<sup>3</sup>)

#### Engine

Model CAT<sup>®</sup> C4.4  
Power 75 kW 100 hp  
Fuel tank 273 l 71 gal

#### Transportation dimensions

Length 15,400 mm 50'7"  
Width 3,000 mm 9'10"  
Height 3,560 mm 11'6"  
Weight 26,000 kg 57,300 lbs

#### Options

Various grizzly options, various screening media, belt/apron feeder, light mast, radio remote control, hopper extensions, hot/cold/polar climate kits, heavy duty air filter, overband magnetic separator, magnetic drums on side conveyor, feeder stop, interlocking cable, two way split, (C300) process control, bi-power



**Metso Corporation**, Lokomonkatu 3, P.O.Box 306, FI-33101 Tampere, Finland, tel. +358 20 484 142, fax +358 20 484 143  
[www.metso.com](http://www.metso.com)

Metso, Lokotrack, Nordberg, Barmac and, Trellex are trademarks or registered trademarks of Metso Corporation or its subsidiaries or affiliates.  
\*Other names and brands may be claimed as the property of others.  
\*Caterpillar and CAT are registered trademarks of Caterpillar Inc.

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).

PRODUCER <b>CBIZ Insurance Svcs., Inc.</b> 44 Baltimore Street Cumberland, MD 21502 301 777-1500	CONTACT NAME: <b>Marla Mayles</b> PHONE (A/C, No, Ext): <b>301 777-1500</b>	FAX (A/C, No): <b>855-288-6106</b>	
	E-MAIL ADDRESS: <b>mmayles@cbiz.com</b>		
INSURED  <b>Laurel Sand &amp; Gravel, Inc.</b> PO Box 850 Laurel, MD 20725	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A : <b>Travelers Property Casualty Co of Am.</b>		<b>25674</b>
	INSURER B : <b>Travelers Prop. Cas. Co. of America</b>		<b>25674</b>
	INSURER C : <b>Rockwood Casualty Insurance Company</b>		<b>35505</b>
	INSURER D : <b>RSUI Indemnity Co.</b>		<b>22314</b>
	INSURER E :		
INSURER F :			

COVERAGES                                      CERTIFICATE NUMBER:                                      REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> BI/PD Ded:10000 GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			Y6300152L504TIL20	12/31/2020	12/31/2021	EACH OCCURRENCE \$ <b>1,000,000</b> DAMAGE TO RENTED PREMISES (Ea occurrence) \$ <b>100,000</b> MED EXP (Any one person) \$ <b>5,000</b> PERSONAL & ADV INJURY \$ <b>1,000,000</b> GENERAL AGGREGATE \$ <b>2,000,000</b> PRODUCTS - COMP/OP AGG \$ <b>2,000,000</b> \$
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			8101L5541222014G	12/31/2020	12/31/2021	COMBINED SINGLE LIMIT (Ea accident) \$ <b>1,000,000</b> BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED                      RETENTION \$			CUP400832014	12/31/2020	12/31/2021	EACH OCCURRENCE \$ <b>15,000,000</b> AGGREGATE \$ <b>15,000,000</b> \$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	WC695307	12/31/2020	12/31/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ <b>1,000,000</b> E.L. DISEASE - EA EMPLOYEE \$ <b>1,000,000</b> E.L. DISEASE - POLICY LIMIT \$ <b>1,000,000</b>
A	Contr Equipment			Y6300152L504TIL20	12/31/2020	12/31/2021	\$ <b>100,000</b> leased/rented
D	Excess Liability			NHA092475	12/31/2020	12/31/2021	\$ <b>5,000,000</b>

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

<p><b>CERTIFICATE HOLDER</b></p> <p><b>Maryland Department of the Environment</b>                  1800 Washington Blvd.                  Baltimore, MD 21230</p>	<p><b>CANCELLATION</b></p> <p>SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.</p> <hr/> <p>AUTHORIZED REPRESENTATIVE</p> <p><i>Edward R. Seward</i></p>
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# SAFETY DATA SHEET (SDS) FOR LIMESTONE

## SECTION I – PRODUCT & COMPANY IDENTIFICATION

Manufacturer:	S. W. Barrick & Sons 14504 Greenview Drive, Suite 210 Laurel, Maryland 20708 Information Telephone Number: 301-953-7650 Emergency Telephone Number: 301-953-7650
Product Chemical Name:	Crushed Stone (Limestone)
Product Identification/Synonyms:	Crushed Stone, Aggregate, Manufactured Sand

## SECTION II – HAZARD IDENTIFICATION

Primary Routes of Entry:	Skin contact, eyes, Acute and Chronic inhalation, and ingestion.
Hazard Pictogram:	
Signal word:	Danger
Acute Exposure effects to Product Skin	Exposure to dust may cause dry and irritate the skin.
Eyes	Exposure may cause eye irritation.
Inhalation	Inhalation can irritate nose, throat, and lungs, causing coughing, sneezing, and shortness of breath.
Ingestion	Do not ingest aggregates. Ingestion of small quantities is not expected to be harmful. If ingested in large quantities, it may cause intestinal distress.

## SECTION III – PRODUCT AND COMPONENT DATA

Ingredient Name	CAS Registry Number	Approximate Percentage	Exposure Limits ACGIH TLV (mg/m <sup>3</sup> )	Exposure Limits OSHA PEL(mg/m <sup>3</sup> )
Limestone	1317-65-3	100	10 (nuisance dust)	15 total (dust)
Quartz (Crystalline Silica)	14808-60-7	>1	.01 (respirable dust)	.01 (respirable dust)

## SECTION IV – FIRST AID MEASURES

Skin Contact	Rinse the exposed area with cool water. Wash exposed area with mild liquid soap. Seek medical attention for a rash or continued irritation.
Eye Contact	Irrigate exposed eye(s) with clean water or saline solution for at least 15 minutes while holding the eye lid(s) open. Seek medical attention for abrasions, embedded particles, or persistent irritation.
Ingestion	If the victim is conscious, provide clean water to rinse the mouth. Provide large quantities water for the victim to drink. Seek medical attention immediately.
Inhalation	Immediately move the person to fresh air. Dust should be cleared from the throat and nasal passages. Seek medical attention if irritation persists. Monitor vital signs and administer CPR if necessary.

SECTION V – FIRE AND EXPLOSION HAZARD DATA			
Flash Point and Method	Non-combustible	Extinguishing Media	Use extinguishing media for surrounding fire conditions
Combustion Products	Decomposes at 825° C	General Hazard	Avoid breathing dust
Fire Fighting Procedures: Limestone poses no fire related hazard. Use appropriate personal protective clothing and equipment for surrounding fire conditions.			

SECTION VI – ACCIDENTAL RELEASE MEASURES
Place in stable containers for disposal. Avoid procedures that generate dust. If dust is generated wear appropriate protective equipment as described in section VIII

SECTION VII – STORAGE AND HANDLING PRECAUTIONS
Reparable crystalline silica-containing dust may be generated during the processing, handling and storage. The personal protective measures in Section VIII of this SDS should be followed. Use methods that will minimize dust generation.
Do not stand on stockpiles of this material, as it may be unstable.
This product is not intended for abrasive blasting use.
Do not store near food or beverage.

SECTION VIII – PERSONAL PROTECTIVE EQUIPMENT AND CONTROL MEASURES
Engineering Controls: Use exhaust, ventilation, or other effective suppression measures to maintain dust exposure levels below the established exposure limits.
Respiratory Protection: Respiratory protection is typically not required under normal conditions. If dust concentrations exceed OSHA/MSHA Personal Exposure Limits, wear appropriate NIOSH/MSHA-approved respiratory protection. Respirators should be properly fitted for maximum effectiveness.
Skin Protection: Long cuffless pants, long sleeve shirts, gauntlet-type gloves and appropriate boots should be used to prevent exposure. Dust exposed personal protective equipment should be cleaned after each use and exposed clothing should be laundered after each use.
Eye Protection: Safety glasses with side shields that comply with ANSI Standard Z87.1 should be worn as minimal protection when eye exposure to airborne particles exists. Dust goggles should be worn when excessive dust conditions exist or are anticipated.

SECTION IX – PHYSICAL and CHEMICAL PROPERTIES			
Boiling Point	N/A	Vapor Pressure (mm Hg)	N/A
Specific Gravity (H <sub>2</sub> O=1)	2.6 – 2.8	Appearance and Odor	Angular to round, gray
Vapor Density (Air=1)	N/A	Freezing Point	None, Solid
Solubility in Water	Insoluble	Evaporation Rate	N/A
Physical State	Solid	Odor	None
PH in Water	Neutral	Viscosity	None, Solid

SECTION X – STABILITY and REACTIVITY	
Stability	Product is Stable
Incompatibility	Aggregate dissolves in hydrofluoric acid, and may produce corrosive silicon tetrafluoride gas. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.
Hazardous Decomposition	Carbon Dioxide
Hazardous Polymerization	None

#### SECTION XI – TOXICOLOGICAL INFORMATION

##### Effects of Chronic Exposure

Proper use of Limestone Aggregates for construction purposes is not believed to cause acute toxic effects. This product contains crystalline silica, which has been classified as a human carcinogen by IRAC and NPT.

Repeated overexposures to high levels of respirable crystalline silica (cristobalite, quartz, and tridymite) can cause silicosis, serious and fatal lung disease, scleroderma (thickening of skin, systemic lupus erythematosus, rheumatoid arthritis) and disease affecting the kidneys.

#### SECTION XII – ECOLOGICAL INFORMATION

Ecotoxicity: Because of the elevated pH of this product, it might be expected to produce some ecotoxicity upon exposure to certain aquatic organisms and aquatic systems in high concentrations.

Environmental Fate: This material shows no bioaccumulation effect or food chain concentration toxicity.

#### SECTION XIII – SPILL AND DISPOSAL PRACTICES

The cleanup of spilled material may cause dusty conditions.

The personal protective measures in Section VIII of this SDS should be followed.

Wetting material will minimize dust generation. Materials should be disposed of according to all applicable federal, state, and local laws and regulations.

#### SECTION XIV – TRANSPORTATION

DOT Classification – None Placard Requirement: None

#### SECTION XV – REGULATORY INFORMATION

Limestone is not classified as a hazardous material by US DOT and is not regulated by the Transportation of Dangerous Goods (TDG) when shipped by any mode of transport.

#### SECTION XVI – DATE OF PREPARATION and DISCLAIMER

Revision Summary: Revised October 12, 2015

The information in this SDS is believed to be current and accurate. No warranty, expressed or implied, of merchantability, fitness or otherwise is made. Any party using this product should review all federal, state, or local laws and regulations prior to use. S. W. Barrick & Sons is not responsible for the condition, performance, handling, storage, or disposal of the aggregate after the buyer takes title by pickup at the plant or delivery to the buyer's jobsite by S. W. Barrick & Sons.



## FREDERICK COUNTY GOVERNMENT

### DIVISION OF PLANNING & PERMITTING Department of Development Review

Jan H. Gardner

County Executive

Steven C. Horn, Division Director

Michael L. Wilkins, Director

July 2, 2021

Laurel Sand & Gravel, Inc.  
6110 Frost Place  
Suite 150  
Laurel, MD 20707

Re: 10325 Oak Hill Rd,  
Keymar, MD 21757  
Tax Map 34, Parcel 0294,  
Tax ID # 11289002,  
Zoning Mineral Mining (MM)  
**V265273**

To Whom It May Concern,

This letter is in response to your zoning verification application submitted on June 14, 2021. In your letter you requested the application process for the FTC requires that we include "confirmation from the local zoning authority that the proposed screening operation is a permitted use for the property on which it will be installed".

The above referenced property (Property) is currently zoned Mineral Mining (MM) under the Frederick County Zoning Ordinance (Ordinance).

**Ordinance Section 1-19-5.250(D)** Industrial Zoning Districts. The Mineral Mining District (MM) is a floating zone established for the purpose of providing for the development of needed mineral resources in areas where such resources exist subject to adequate safeguard for the conservation of the environment

**Ordinance Section 1-19-10.400.6.Land Use.** Mineral Mining as used herein, applies to the extraction and processing of crushed stone, building stone, sand, clay, limestone, gravel deposits, and other minerals mined in a quarry type operation. The standards set forth in this section do not regulate or permit the extraction of metallic minerals, fossil fuels or other minerals not specifically enumerated above.

- (A) The uses permitted in the mineral mining district shall be agricultural activities and forestry activities permitted in the agricultural zone over which the mineral mining designation was attached and the following:
- (1) Mineral extraction and processing, including grinding, polishing, washing, mixing and sorting, stockpiling, and manufacture of finished products which contain at least 40% of material derived on site;
  - (2) Borrow pits and rubble fills; and
  - (3) Those accessory uses listed under § [1-19-8.251](#).



The description of the proposed use that is provided in your zoning verification request letter is consistent with Ordinance Section 1-19-10.400.6. Land Use.

A review of the records available to this office does not indicate any existing zoning violations at this Property at this time.

If you have any further questions, please contact me at 301-600-1491.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Tolson DeSa', is written over a horizontal line.

Tolson DeSa  
Zoning Administrator

cc: M. Wilkins  
K. Mitchell  
T. Sinton

**MARYLAND DEPARTMENT OF THE ENVIRONMENT**

**AIR AND RADIATION ADMINISTRATION  
APPLICATION FOR A PERMIT TO CONSTRUCT**

**SUPPLEMENT TO  
DOCKET #11-21**

COMPANY: Laurel Sand & Gravel, Inc. T/A S.W. Barrick & Sons - Legore Quarry

LOCATION: 11640 Woodsboro Pike, Keymar, MD 21757

APPLICATION: Installation of one (1) Metso Lokotrack ST2.8 Mobile Scalping Screen.

<u>ITEM</u>	<u>DESCRIPTION</u>
1	Notice of Tentative Determination, Opportunity to Request a Public Hearing, and Opportunity to Submit Written Comments
2	Fact Sheet and Tentative Determination
3	Draft Permit to Construct and Conditions
4	Supplemental Information
5	Privilege Log – Not Applicable

**MARYLAND DEPARTMENT OF THE ENVIRONMENT  
AIR AND RADIATION ADMINISTRATION**

**NOTICE OF TENTATIVE DETERMINATION, OPPORTUNITY TO REQUEST  
A PUBLIC HEARING, AND OPPORTUNITY TO SUBMIT WRITTEN COMMENTS**

**FIRST NOTICE**

The Department of the Environment, Air and Radiation Administration (ARA) has completed its review of an application for a Permit to Construct submitted by Laurel Sand & Gravel, Inc. T/A S.W. Barrick & Sons - Legore Quarry on May 12, 2021 for the installation of one (1) Metso Lokotrack ST2.8 Mobile Scalping Screen. The proposed installation will be located at 11640 Woodsboro Pike, Keymar, MD 21757.

Pursuant to Section 1-604, of the Environment Article, Annotated Code of Maryland, the Department has made a tentative determination that the Permit to Construct can be issued and is now ready to receive public comment on the application.

Copies of the Department's tentative determination, the application, the draft permit to construct with conditions, and other supporting documents are available for public inspection on the Department's website. Look for Docket #11-21 at the following link:

<https://mde.maryland.gov/programs/Permits/AirManagementPermits/Pages/index.aspx>

Interested persons may request a public hearing and/or submit written comments on the tentative determination. Requests for a public hearing must be submitted in writing and must be received by the Department no later than 20 days from the date of this notice. Written comments must be received by the Department no later than 30 days from the date of this notice.

Interested persons may request an extension to the public comment period. The extension request must be submitted in writing and must be received by the Department no later than 30 days from the date of this notice or within 5 days after the hearing (if a hearing is requested), whichever is later. The public comment period may only be extended one time for a 60-day period.

All requests for a public hearing, requests for an extension to the public comment period, and all written comments should be emailed to Ms. Shannon Heafey at [shannon.heafey@maryland.gov](mailto:shannon.heafey@maryland.gov).

Further information may be obtained by contacting Ms. Shannon Heafey by email at [shannon.heafey@maryland.gov](mailto:shannon.heafey@maryland.gov) or by phone at (410) 537-4433.

George S. Aburn, Jr., Director  
Air and Radiation Administration

**MARYLAND DEPARTMENT OF ENVIRONMENT  
AIR AND RADIATION ADMINISTRATION**

**FACT SHEET AND TENTATIVE DETERMINATION  
LAUREL SAND & GRAVEL, INC. T/A S.W. BARRICK & SONS  
LEGORE QUARRY**

**PROPOSED INSTALLATION OF ONE (1) MOBILE SCALPING SCREEN POWERED BY  
ONE (1) DIESEL ENGINE**

**I. INTRODUCTION**

The Maryland Department of the Environment (the "Department") received an application from Laurel Sand & Gravel, Inc. T/A S.W. Barrick & Sons on May 12, 2021 for a Permit to Construct for one (1) Metso Lokotrack ST2.8 mobile scalping screen powered by one (1) 100 hp diesel engine. The proposed installation will be located at Legore Quarry at 11640 Woodsboro Pike, Keymar, Maryland 21757.

A notice was placed in The Frederick News-Post and on July 12, 2021 and July 19, 2021 announcing an opportunity to request an informational meeting to discuss the application for a Permit to Construct. An informational meeting was not requested.

As required by law, all public notices were also provided to elected officials in all State, county, and municipality legislative districts located within a one mile radius of the facility's property boundary.

The Department has reviewed the application and has made a tentative determination that the proposed installation is expected to comply with all applicable air quality regulations. A notice will be published to provide the public with opportunities to request a public hearing and to comment on the application, the Department's tentative determination, the draft permit conditions, and other supporting documents. The Department will not schedule a public hearing unless a legitimate request is received.

If the Department does not receive any comments that are adverse to the tentative determination, the tentative determination will automatically become a final determination. If adverse comments are received, the Department will review the comments, and will then make a final determination with regard to issuance or denial of the permit. A notice of final determination will be published in a newspaper of general circulation in the affected area. The final determination may be subject to judicial review pursuant to Section 1-601 of the Environment Article, Annotated Code of Maryland.

## **II. CURRENT STATUS AND PROPOSED INSTALLATION**

### **A. Current Status**

S.W. Barrick & Sons Legore Quarry currently operates a 600 ton per hour, electric powered, crushing and screening plant originally installed in 1995. The existing facility is controlled by wet suppression systems, and consists of three (3) crushers, twenty-five (25) conveyors, one (1) stacker, and five (5) triple deck screens. There are two (2) baghouses associated with two (2) of the crushers.

### **B. Proposed Installation**

S.W. Barrick & Sons Legore Quarry is proposing to install one (1) Metso Lokotrack ST2.8 mobile scalping screen powered by one (1) 100 horsepower diesel engine and operating up to 400 tons per hour to separate dirty shot rock at the facility.

## **III. APPLICABLE REGULATIONS**

The proposed installation is subject to all applicable Federal and State air quality control regulations, including, but not limited to the following:

- (a) All applicable terms, provisions, emissions standards, testing, monitoring, record keeping, and reporting requirements included in federal New Source Performance Standards (NSPS) promulgated under 40 CFR 60, Subpart A (General Provisions) and Subpart OOO for Nonmetallic Mineral Processing Plants.
- (b) COMAR 26.11.02.19C & D, which require that the Permittee submit to the Department annual certifications of emissions, and that the Permittee maintain sufficient records to support the emissions information presented in the submittals.
- (c) COMAR 26.11.06.02C(1), which limits visible emissions other than uncombined water to not more than 20 percent opacity.
- (d) COMAR 26.11.06.03B(1), which limits the concentration of particulate matter in any exhaust gases to not more than 0.05 grains per standard cubic foot of dry exhaust gas.
- (e) COMAR 26.11.06.03C and D, which requires that the Permittee take reasonable precautions to prevent particulate matter from unconfined sources and materials handling and construction operations from becoming airborne.
- (f) COMAR 26.11.06.08 and .09, which generally prohibit the discharge of emissions beyond the property line in such a manner that a nuisance or air pollution is created.

- (g) COMAR 26.11.06.12, which prohibits the construction, modification, or operation of an NSPS source in a manner which results or will result in a violation of the provisions of 40 CFR, Part 60.
- (h) COMAR 26.11.09.05E, which limits visible emissions from the diesel engine associated with the mobile scalping screen to 10 percent opacity and 40 percent opacity during idle and operating mode, respectively. Exceptions to these opacity limits are as follows:
  - (i) engines that are idling continuously when not in service: 30 minutes; and
  - (ii) all other engines: 15 minutes.
- (i) COMAR 26.11.09.07A(2), which limits the sulfur content of distillate fuel oils to not more than 0.3 percent by weight.
- (j) COMAR 26.11.15.05, which requires that the Permittee implement “Best Available Control Technology for Toxics” (T – BACT) to control emissions of toxic air pollutants.
- (k) COMAR 26.11.15.06, which prohibits the discharge of toxic air pollutants to the extent that such emissions will unreasonably endanger human health.

#### **IV. GENERAL AIR QUALITY**

The U.S. Environmental Protection Agency (EPA) has established primary and secondary National Ambient Air Quality Standards (NAAQS) for six (6) criteria pollutants, i.e., sulfur dioxide, particulate matter, carbon monoxide, nitrogen dioxide, ozone, and lead. The primary standards were established to protect public health, and the secondary standards were developed to protect against non-health effects such as damage to property and vegetation.

The Department utilizes a statewide air monitoring network, operated in accordance with EPA guidelines, to measure the concentrations of criteria pollutants in Maryland’s ambient air. The measurements are used to project statewide ambient air quality, and currently indicate that Frederick County complies with the NAAQS for sulfur dioxide, particulate matter, carbon monoxide, nitrogen dioxide, and lead.

Ground level ozone continues to present a problem for the entire Baltimore metropolitan area, which is classified as a non-attainment area for ozone. The primary contributors to the formation of ozone are emissions of oxides of nitrogen, primarily from combustion equipment, and emissions of Volatile Organic Compounds (VOC) such as paint solvents and gasoline vapors. Frederick County is included in the non-attainment area for ozone.

With regard to toxic air pollutants (TAPs), screening levels (i.e., acceptable ambient concentrations for toxic air pollutants) are generally established at 1/100 of allowed worker exposure levels (TLVs)<sup>1</sup>. The Department has also developed additional screening levels for carcinogenic compounds. The additional screening levels are established such that continuous exposure to the subject TAP at the screening level for a period of 70 years is expected to cause an increase in lifetime cancer risk of no more than 1 in 100,000.

## V. COMPLIANCE DEMONSTRATION AND ANALYSIS

The proposed installation must comply with all State imposed emissions limitations and screening levels, as well as the NAAQS. The Department has conducted an engineering and air quality review of the application. The emissions were projected based on U.S. EPA emission factors for crushing and screening plants and U.S. EPA engine tier emissions limits for diesel engines. The conservative U.S. EPA's SCREEN3 model was also used to project the maximum ground level concentrations from the proposed facility, which were then compared to the screening levels and the NAAQS.

- A. **Estimated Emissions** - The maximum emissions of air pollutants of concern from the proposed installation are listed in Table I.
- B. **Compliance with National Ambient Air Quality Standards** - The maximum ground level concentrations for nitrogen dioxide, sulfur dioxide, carbon monoxide, and particulate matter based on the emissions from the proposed installation are listed in column 2 of Table II. The combined impact of the projected contribution from the proposed installation and the ambient background concentration for each pollutant shown in column 3 of Table II is less than the NAAQS for each pollutant shown in column 4.
- C. **Compliance with Air Toxics Regulations** – The toxic air pollutants of concern that would be emitted from this installation are listed in column 1 of Table III. The predicted maximum off-site ambient concentrations of these toxic air pollutants are shown in column 4 of Table III, and in each case the maximum concentration is less than the corresponding screening level for the toxic air pollutant shown in column 2.

## VI. TENTATIVE DETERMINATION

Based on the above information, the Department has concluded that the proposed installation will comply with all applicable Federal and State air quality control requirements. In accordance with the Administrative Procedure Act, Department has made a tentative determination to issue the Permit to Construct. Enclosed with the tentative determination is a copy of the draft Permit to Construct.

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<sup>1</sup> TLVs are threshold limit values (exposure limits) established for toxic materials by the American Conference of Governmental Industrial Hygienists (ACGIH). Some TLVs are established for short-term exposure (TLV – STEL), and some are established for longer-term exposure (TLV – TWA), where TWA is an acronym for time-weight average.

**TABLE I  
PROJECTED MAXIMUM EMISSIONS FROM THE PROPOSED INSTALLATION**

POLLUTANT	PROJECTED MAXIMUM EMISSIONS FROM PROPOSED INSTALLATION	
	(lbs/day)	(tons/year)
Nitrogen Dioxide (NO <sub>2</sub> )	50	6.4
Sulfur Dioxide (SO <sub>2</sub> )	3	0.4
Carbon Monoxide (CO)	11	1.4
Volatile Organic Compounds (VOC)	1	0.1
Particulate Matter (PM <sub>10</sub> )*	18.5	2.4

\*Includes some downstream equipment already permitted at the site.

**TABLE II  
PROJECTED IMPACT OF EMISSIONS OF CRITERIA POLLUTANTS FROM THE PROPOSED INSTALLATION ON AMBIENT AIR QUALITY**

POLLUTANTS	MAXIMUM OFF-SITE GROUND LEVEL CONCENTRATIONS CAUSED BY EMISSIONS FROM PROPOSED PROCESS (µg/m <sup>3</sup> )	BACKGROUND AMBIENT AIR CONCENTRATIONS (µg/m <sup>3</sup> )*	NATIONAL AMBIENT AIR QUALITY STANDARDS (NAAQS) (µg/m <sup>3</sup> )
Nitrogen Dioxide (NO <sub>2</sub> )	annual avg. → 6.0	annual avg. → 27.0	annual avg. → 100
Carbon Monoxide (CO)	8-hour max → 11.3 1-hour max → 16.1	8-hr max. → 802 1-hr max. → 916	8-hr max. → 10,000 1-hr max. → 40,000
Sulfur Dioxide (SO <sub>2</sub> )	24-hour max. → 2.0 annual avg. → 0.4	24-hour max. → 5.8 annual avg. → 1.1	24-hour max. → 366 annual avg. → 78.5
Particulate Matter (PM <sub>10</sub> )	24-hr max → 46.6	24-hr max. → 36	24-hr max. → 150

\*Background concentrations were obtained from Maryland air monitoring stations as follows:

NO<sub>2</sub>, CO and SO<sub>2</sub> → HU-Beltsville Monitoring Station in Prince George's County  
PM<sub>10</sub> → Glen Burnie Monitoring Station in Anne Arundel County



**TABLE III  
 PREDICTED MAXIMUM OFF-SITE AMBIENT CONCENTRATIONS FOR  
 TOXIC AIR POLLUTANTS EMITTED FROM THE PROPOSED INSTALLATION**

<b>TOXIC AIR POLLUTANTS</b>	<b>SCREENING LEVELS (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>PROJECTED WORST-CASE FACILITY-WIDE EMISSIONS (lbs/hr)</b>	<b>PREDICTED MAXIMUM OFF-SITE GROUND LEVEL CONCENTRATIONS (<math>\mu\text{g}/\text{m}^3</math>)</b>
Crystalline Silica	1-hour→ None 8-hour→ 0.25 Annual→ None	0.00014	1-hour→ None 8-hour→ 0.021 Annual→ None

The values represent maximum facility-wide emissions of toxic air pollutants during any 1-hour period of facility operation.

The values are based on worst-case emissions from the proposed facility and were predicted by EPA's SCREEN3 model, which provides conservative estimations concerning the impact of pollutants on ambient air quality.

**DRAFT PERMIT**

Larry Hogan  
Governor

Ben Grumbles  
Secretary

**Air and Radiation Administration**

1800 Washington Boulevard, Suite 720  
Baltimore, MD 21230

Construction Permit

Operating Permit

PERMIT NO.:

As listed on Page 2

DATE ISSUED:

[Date Issued]

PERMIT FEE:

\$2,000 (Paid)

EXPIRATION DATE:

In accordance with COMAR 26.11.02.04B

**LEGAL OWNER & ADDRESS**

Laurel Sand & Gravel, Inc. T/A S.W. Barrick  
& Sons  
PO Box 850  
Laurel, MD 20725

Attention: Mr. Collin Sumpter, Resource  
Manager

**SITE**

S.W. Barrick & Sons Legore Quarry  
11640 Woodsboro Pike  
Keymar, MD 21757  
Premises # 021-0129  
AI # 3085

**SOURCE DESCRIPTION**

This permit authorizes the installation of one (1) Metso Lokotrack ST2.8 mobile scalping screen powered by one (1) 100 hp diesel engine.

This permit supersedes all previous permits to construct issued to ARA Premises No. 021-0129.

This source is subject to the conditions described on the attached pages.

Program Manager

Director, Air and Radiation Administration

**LAUREL SAND & GRAVEL, INC. T/A S.W. BARRICK & SONS  
LEGORE QUARRY  
PERMIT-TO-CONSTRUCT CONDITIONS  
PREMISES No. 021-0129**

**INDEX**

- Part A – General Provisions
  - Part B – Applicable Regulations
  - Part C – Construction and Operating Conditions
  - Part D – Notifications and Testing
  - Part E – Record Keeping and Reporting
  - Part F – Temporary Permit-To-Operate Conditions
- 

This permit-to-construct incorporates requirements for the following registered installations:

<b>ARA Registration Number</b>	<b>Description</b>	<b>Date of Installation</b>
021-0129-6-0526	<p>One (1) 600 ton per hour, electric powered, crushing and screening plant, comprised of the following:</p> <ul style="list-style-type: none"> <li>• Equipment ID No. 2: One (1) 600 tph, 5348 Cedar Rapids crusher.</li> <li>• Equipment ID No. 4: One (1) 48" conveyor #25.</li> <li>• Equipment ID No. 5: One (1) 5'x16' triple deck screen.</li> <li>• Equipment ID No. 7: One (1) 36" conveyor #29.</li> <li>• Equipment ID No. 8: One (1) 36" conveyor #26.</li> <li>• Equipment ID No. 10: One (1) 36" conveyor #28.</li> <li>• Equipment ID No. 12: One (1) 36" conveyor #1.</li> <li>• Equipment ID No. 13: One (1) 36" conveyor #2.</li> <li>• Equipment ID No. 14: One (1) 6'x20' triple deck screen.</li> <li>• Equipment ID No. 15: One (1) 350 tph, Eljay 66" STD cone crusher controlled by one (1) baghouse associated with the plant.</li> <li>• Equipment ID No. 16: One (1) 36" conveyor #10.</li> <li>• Equipment ID No. 17: One (1) 36" conveyor #11.</li> <li>• Equipment ID No. 18: One (1) 36" conveyor #8.</li> <li>• Equipment ID No. 19: One (1) 36" conveyor #9.</li> <li>• Equipment ID No. 20: One (1) 42" conveyor #4.</li> <li>• Equipment ID No. 21: One (1) 8'x20' triple deck screen.</li> <li>• Equipment ID No. 22: One (1) 8'x20' triple deck screen.</li> <li>• Equipment ID No. 23: One (1) 36" conveyor #5.</li> <li>• Equipment ID No. 24: One (1) 36" conveyor #6.</li> <li>• Equipment ID No. 25: One (1) 200 tph, Spokane VSI crusher controlled by one (1) baghouse associated with the plant.</li> <li>• Equipment ID No. 26: One (1) 48" conveyor #7.</li> </ul>	1995

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	<ul style="list-style-type: none"> <li>• Equipment ID No. 27: One (1) 36" conveyor #12.</li> <li>• Equipment ID No. 28: One (1) 36" conveyor #13.</li> <li>• Equipment ID No. 29: One (1) 36" conveyor #14.</li> <li>• Equipment ID No. 30: One (1) 36" conveyor #15.</li> <li>• Equipment ID No. 31: One (1) 6'x20' triple deck screen</li> <li>• Equipment ID No. 32: One (1) 36" stacker #16.</li> <li>• Equipment ID No. 33: One (1) 36" conveyor #17.</li> <li>• Equipment ID No. 34 One (1) 36" conveyor #18.</li> <li>• Equipment ID No. 35 One (1) 36" conveyor #20.</li> <li>• Equipment ID No. 36 One (1) 36" conveyor #21.</li> <li>• Equipment ID No. 37 One (1) 36" conveyor #22.</li> <li>• Equipment ID No. 38 One (1) 36" conveyor #23.</li> <li>• Equipment ID No. 40 One (1) 36" conveyor #19.</li> </ul>	
021-0129-6-0699	One (1) Metso Lokotrack ST2.8 mobile scalping screen powered by one (1) Tier 4 100 hp diesel engine and operating up to 400 tons per hour to separate dirty shot rock.	2021

**Part A – General Provisions**

- (1) The following Air and Radiation Administration (ARA) permit-to-construct applications and supplemental information are incorporated into this permit by reference:
- (a) All valid applications for Processing or Manufacturing Equipment (Form 5) received at the Department prior to issuance of this permit. This includes the Form 5 application received May 12, 2021 for the installation of one (1) mobile scalping screen powered by one (1) Tier 4 100 hp diesel engine.
  - (b) All valid Toxic Air Pollutant (TAP) Emissions Summary and Compliance Demonstrations (Form 5T) received at the Department prior to issuance of this permit. This includes the Form 5T application received May 12, 2021.
  - (c) All valid Emission Point Data (Form 5EP) received at the Department prior to issuance of this permit. This includes the Form 5EP application received May 12, 2021.
  - (d) Supplemental Information including site maps, zoning approval, and emissions calculations received at the Department on May 12, 2021 and July 6, 2021.

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If there are any conflicts between representations in this permit and representations in the applications, the representations in the permit shall govern. Estimates of dimensions, volumes, emissions rates, operating rates, feed rates and hours of operation included in the applications do not constitute enforceable numeric limits beyond the extent necessary for compliance with applicable requirements.

- (2) Upon presentation of credentials, representatives of the Maryland Department of the Environment (“MDE” or the “Department”) and the Frederick County Health Department shall at any reasonable time be granted, without delay and without prior notification, access to the Permittee’s property and permitted to:
  - (a) inspect any construction authorized by this permit;
  - (b) sample, as necessary to determine compliance with requirements of this permit, any materials stored or processed on-site, any waste materials, and any discharge into the environment;
  - (c) inspect any monitoring equipment required by this permit;
  - (d) review and copy any records, including all documents required to be maintained by this permit, relevant to a determination of compliance with requirements of this permit; and
  - (e) obtain any photographic documentation or evidence necessary to determine compliance with the requirements of this permit.
- (3) The Permittee shall notify the Department prior to increasing quantities and/or changing the types of any materials referenced in the application or limited by this permit. If the Department determines that such increases or changes constitute a modification, the Permittee shall obtain a permit-to-construct prior to implementing the modification.
- (4) Nothing in this permit authorizes the violation of any rule or regulation or the creation of a nuisance or air pollution.
- (5) If any provision of this permit is declared by proper authority to be invalid, the remaining provisions of the permit shall remain in effect.
- (6) This permit supersedes all previous permits-to-construct issued to ARA Premises No. 021-0129.

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- (7) Subsequent to issuance of this permit, the Department may impose additional and modified requirements that are incorporated into a State permit-to-operate issued pursuant to COMAR 26.11.02.13.

**Part B – Applicable Regulations**

- (1) This source is subject to all applicable federal air pollution control requirements including, but not limited to, the following:

- (a) All applicable terms, provisions, emissions standards, testing, monitoring, record keeping, and reporting requirements included in federal New Source Performance Standards (NSPS) promulgated under 40 CFR 60, Subparts A and OOO for Nonmetallic Mineral Processing Plants.
- (b) All notifications required under 40 CFR 60, Subparts A and OOO shall be submitted to both of the following:

The Administrator  
Compliance Program  
Maryland Department of the Environment  
Air and Radiation Administration  
1800 Washington Boulevard, STE 715  
Baltimore MD 21230

and

Director, Air Protection Division  
U.S. EPA – Region 3  
Mail Code 3AP00  
1650 Arch Street  
Philadelphia, PA 19103-2029

- (2) This source is subject to all applicable federally enforceable State air pollution control requirements including, but not limited to, the following regulations:
- (a) COMAR 26.11.01.07C, which requires that the Permittee report to the Department occurrences of excess emissions.
- (b) COMAR 26.11.02.04B, which states that a permit to construct or an approval expires if, as determined by the Department:

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- (i) Substantial construction or modification is not commenced within 18 months after the date of issuance of the permit or approval, unless the Department specifies a longer period in the permit or approval;
  - (ii) Construction or modification is substantially discontinued for a period of 18 months after the construction or modification has commenced; or
  - (iii) The source for which the permit or approval was issued is not completed within a reasonable period after the date of issuance of the permit or approval.
- (c) COMAR 26.11.02.09A, which requires that the Permittee obtain a permit-to-construct if an installation is to be modified in a manner that would cause changes in the quantity, nature, or characteristics of emissions from the installation as referenced in this permit.
- (d) COMAR 26.11.06.02C(1), which limits visible emissions other than uncombined water to not more than 20 percent opacity.
- (e) COMAR 26.11.06.03B(1), which limits the concentration of particulate matter in any exhaust gases to not more than 0.05 grains per standard cubic foot of dry exhaust gas.
- (f) COMAR 26.11.06.03C and D, which requires that the Permittee take reasonable precautions to prevent particulate matter from unconfined sources and materials handling and construction operations from becoming airborne.
- (g) COMAR 26.11.06.12, which prohibits the construction, modification, or operation of an NSPS source in a manner which results or will result in a violation of the provisions of 40 CFR, Part 60.
- (h) COMAR 26.11.09.05E, which limits visible emissions from the diesel engine associated with the mobile scalping screen to 10% and 40% opacity during idle and operating modes, respectively. Exceptions to these opacity limits are as follows:
- (i) engines that are idling continuously when not in service: 30 minutes; and
  - (ii) all other engines: 15 minutes.

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- (i) COMAR 26.11.09.07A(2), which limits the sulfur content of distillate fuel oils to not more than 0.3 percent by weight.
- (3) This source is subject to all applicable State-only enforceable air pollution control requirements including, but not limited to, the following regulations:
- (a) COMAR 26.11.02.13A(16), which requires that the Permittee obtain from the Department, and maintain and renew as required, a valid State permit-to-operate.
  - (b) COMAR 26.11.02.14D, which requires that the Permittee submit to the Department not later than 60 days prior to initiating operation of the installation for which this permit is issued a completed application for a State permit-to-operate.
  - (c) COMAR 26.11.02.19C & D, which require that the Permittee submit to the Department annual certifications of emissions, and that the Permittee maintain sufficient records to support the emissions information presented in such submittals.
  - (d) COMAR 26.11.06.08 and 26.11.06.09, which generally prohibit the discharge of emissions beyond the property line in such a manner that a nuisance or air pollution is created.
  - (e) COMAR 26.11.15.05, which requires that the Permittee implement “Best Available Control Technology for Toxics” (T – BACT) to control emissions of toxic air pollutants.
  - (f) COMAR 26.11.15.06, which prohibits the discharge of toxic air pollutants to the extent that such emissions would unreasonably endanger human health.

**Part C – Construction and Operating Conditions**

- (1) Except as otherwise provided in this part, all registered equipment shall be constructed and operated in accordance with specifications included in the application and any operating procedures recommended by equipment vendors unless the Permittee obtains from the Department written authorization for alternative operating procedures.



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- (2) The Permittee shall maintain and operate all air pollution control equipment so as to assure full and continuous compliance with all applicable air pollution control regulations and permit conditions.
- (3) The exhaust gases from the one (1) 350 ton per hour, Eljay 66" STD cone crusher and the one (1) 200 ton per hour, Spokane VSI crusher shall vent through a baghouse prior to discharging to the atmosphere to comply with the visible emissions and particulate matter requirements of COMAR 26.11.06.02C(1) and .03B(1) and the following particulate matter and opacity limits specified in 40 CFR 60, Subpart OOO for nonmetallic mineral processing plants equipped with capture systems constructed before April 22, 2008:
  - (a) No more than 0.022 gr/dscf from the baghouse stack; and
  - (b) No more than 7 percent opacity from the baghouse stack.  
**[Reference: 40 CFR §60.672(a) and Table 2 to 40 CFR 60, Subpart OOO]**
- (4) Wet suppression systems shall be used whenever needed to comply with the particulate matter handling requirements of COMAR 26.11.06.03C and D and the following opacity limits specified in 40 CFR 60, Subpart OOO for nonmetallic mineral processing plants constructed before April 22, 2008:
  - (a) No more than 15 percent opacity from the one (1) 600 ton per hour, 5348 Cedar Rapids crusher; and
  - (b) No more than 10 percent opacity from all other fugitive sources.  
**[Reference: 40 CFR §60.672(b) and Table 3 to 40 CFR 60, Subpart OOO]**
- (5) Wet suppression systems shall be used whenever needed to comply with the particulate matter handling requirements of COMAR 26.11.06.03C and D and the following opacity limits for affected facilities at nonmetallic mineral processing plants constructed, modified, or reconstructed on or after April 22, 2008 as specified in 40 CFR 60, Subpart OOO:
  - (a) No more than 12 percent opacity from crushers; and
  - (b) No more than 7 percent opacity from all other fugitive sources.  
**[Reference: 40 CFR §60.672(b) and Table 3 to 40 CFR 60, Subpart OOO]**
- (6) The Permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression systems for affected facilities at nonmetallic mineral processing plants constructed, modified, or reconstructed on or after April 22, 2008. The Permittee must initiate corrective

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action within 24 hours and complete corrective action as expeditiously as practical if the Permittee finds that water is not flowing properly during an inspection of the water spray nozzles.

Note: This requirement is applicable to the mobile scalping screen (ARA Registration No. 021-0129-6-0699).

- (7) Fugitive dust from plant roads and stockpiles shall be controlled, as necessary, by using water or approved chemical dust suppressants or a combination, thereof.
- (8) The engine associated with the mobile scalping screen (ARA Registration No. 021-0129-0699) shall be a nonroad engine, as defined in 40 CFR §1068.3, unless the Permittee complies with the stationary engine requirements of 40 CFR 60, Subpart IIII and 40 CFR 63, Subpart ZZZZ, as applicable.

**Part D – Notifications and Testing**

- (1) The Permittee shall submit written or electronic notification to the Department of the initial startup date of the mobile scalping screen.
- (2) Not later than 180 days after initial startup of the mobile scalping screen, the Permittee shall demonstrate compliance with all applicable opacity standards.  
**[Reference: 40 CFR §60.11(b) and §60.672(b)]**
- (3) The Permittee shall use Method 9 of Appendix A-4 to 40 CFR, Part 60 and the procedures in 40 CFR §60.11, with the following additions:
  - (a) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
  - (b) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9 of Appendix A-4 of this part, Section 2.1) must be followed.
  - (c) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must 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

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to be made at a point in the plume where the mist is no longer visible.

**[Reference: 40 CFR §60.675(c)(1)]**

- (4) The duration of the Method 9 (40 CFR, Part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable opacity standards must be based on the average of the five 6-minute averages.  
**[Reference: 40 CFR §60.675(c)(3)]**
- (5) The Permittee shall submit notification of the intended date of the required Method 9 observations to the Department at least 30 days prior to that date.
- (6) Within 45 days following the required Method 9 observations, the Permittee shall submit the results to the Department.

**Part E – Record Keeping and Reporting**

- (1) The Permittee shall maintain for at least five (5) years, and shall make available to the Department upon request, records of the following information:
  - (a) The types and amount of material processed each month in the crushing and screening plant;
  - (b) Records of all equipment located at the site, including a description of the equipment, the rated capacity, and the installation date;
  - (c) The hours of operation for the engine for each operating day;
  - (d) The amount of diesel fuel burned in the diesel engine each month;
  - (e) All opacity observation test results for the mobile scalping screen;
  - (f) A copy of the notification of initial start-up for the mobile scalping screen; and
  - (g) A log of each periodic inspection of the wet suppression systems including dates and corrective actions taken.
- (2) The Permittee shall maintain at the facility for at least five (5) years, and shall make available to the Department upon request, records necessary to support annual certifications of emissions and demonstrations of compliance for toxic air pollutants. Such records shall include, if applicable, the following:

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- (a) mass emissions rates for each regulated pollutant, and the total mass emissions rate for all regulated pollutants for each registered source of emissions;
- (b) accounts of the methods and assumptions used to quantify emissions;
- (c) all operating data, including operating schedules and production data, that were used in determinations of emissions;
- (d) amounts, types, and analyses of all fuels used;
- (e) any records, the maintenance of which is required by this permit or by State or federal regulations, that pertain to the operation and maintenance of continuous emissions monitors, including:
  - (i) all emissions data generated by such monitors;
  - (ii) all monitor calibration data;
  - (iii) information regarding the percentage of time each monitor was available for service; and
  - (iv) information concerning any equipment malfunctions.
- (f) information concerning operation, maintenance, and performance of air pollution control equipment and compliance monitoring equipment, including:
  - (i) identifications and descriptions of all such equipment;
  - (ii) operating schedules for each item of such equipment;
  - (iii) accounts of any significant maintenance performed;
  - (iv) accounts of all malfunctions and outages; and
  - (v) accounts of any episodes of reduced efficiency.
- (g) limitations on source operation or any work practice standards that significantly affect emissions; and

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- (h) other relevant information as required by the Department.
- (3) The Permittee shall submit to the Department by April 1 of each year a certification of emissions for the previous calendar year. The certifications shall be prepared in accordance with requirements, as applicable, adopted under COMAR 26.11.01.05 – 1 and COMAR 26.11.02.19D.
- (a) Certifications of emissions shall be submitted on forms obtained from the Department.
  - (b) A certification of emissions shall include mass emissions rates for each regulated pollutant, and the total mass emissions rate for all regulated pollutants for each of the facility's registered sources of emissions.
  - (c) The person responsible for a certification of emissions shall certify the submittal to the Department in the following manner:  
  
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with 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, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."
- (4) The Permittee shall submit to the Department by April 1 of each year a written certification of the results of an analysis of emissions of toxic air pollutants from the Permittee's facility during the previous calendar year. Such analysis shall include either:
- (a) a statement that previously submitted compliance demonstrations for emissions of toxic air pollutants remain valid; or
  - (b) a revised compliance demonstration, developed in accordance with requirements included under COMAR 26.11.15 & 16, that accounts for changes in operations, analytical methods, emissions determinations, or other factors that have invalidated previous demonstrations.

**LAUREL SAND & GRAVEL, INC. T/A S.W. BARRICK & SONS  
LEGORE QUARRY  
PERMIT-TO-CONSTRUCT CONDITIONS  
PREMISES No. 021-0129**

- (5) The Permittee shall report, in accordance with requirements under COMAR 26.11.01.07, occurrences of excess emissions to the Compliance Program of the Air and Radiation Administration.

**Part F – Temporary Permit-to-Operate Conditions**

- (1) This permit-to-construct shall also serve as a temporary permit-to-operate that confers upon the Permittee authorization to operate the mobile scalping screen for a period of up to 180 days after initiating operation.
- (2) The Permittee shall provide the Department with written or electronic notification of the date on which operation of the [new installation] is initiated. Such notification shall be provided within 10 business days of the date to be reported.
- (3) During the effective period of the temporary permit-to-operate the Permittee shall operate the new installation as required by the applicable terms and conditions of this permit-to-construct, and in accordance with operating procedures and recommendations provided by equipment vendors.
- (4) The Permittee shall submit to the Department an application for a State permit-to-operate no later than 60 days prior to expiration of the effective period of the temporary permit-to-operate.

# MARYLAND DEPARTMENT OF THE ENVIRONMENT

## AIR AND RADIATION ADMINISTRATION

### SUPPLEMENTAL INFORMATION REFERENCES

The Code of Maryland Regulations (COMAR) is searchable by COMAR citation at the following Division of State Documents website:

<http://www.dsd.state.md.us/COMAR/ComarHome.html>

The Code of Federal Regulations (CFR), including New Source Performance Standards (NSPS) at 40 CFR, Part 60 and National Emission Standards for Hazardous Air Pollutants (NESHAP) at 40 CFR, Parts 61 and 63, is searchable by CFR citation at the following U.S. Government Publishing Office website:

<http://www.ecfr.gov>

Information on National Ambient Air Quality Standards (NAAQS) is located at the following U.S. Environmental Protection Agency (EPA) website:

<https://www.epa.gov/criteria-air-pollutants/naaqs-table>

Information on Maryland's Ambient Air Monitoring Program is located at the following Maryland Department of the Environment website:

<http://mde.maryland.gov/programs/Air/AirQualityMonitoring/Pages/index.aspx>

Information on the U.S. EPA's Screen3 computer model and other EPA-approved air dispersion models is located at the following U.S. EPA website:

[http://www.epa.gov/scram001/dispersion\\_screening.htm](http://www.epa.gov/scram001/dispersion_screening.htm)

Information on the U.S. EPA TANKS Emission Estimation Software is located at the following U.S. EPA website:

<http://www.epa.gov/ttn/chief/software/tanks/index.html>

Information on the U.S. EPA Emission Factors and AP-42 is located at the following U.S. EPA website:

<https://www.epa.gov/air-emissions-factors-and-quantification/ap-42-compilation-air-emission-factors>