

MARYLAND DEPARTMENT OF THE ENVIRONMENT

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

DOCKET #13-23

COMPANY: Laurel Sand & Gravel, Inc.

LOCATION: Laurel Sand & Gravel, Inc. – Beaver Creek Quarry, 10101 Mapleville Rd, Hagerstown, MD 21740

APPLICATION: One (1) 250 ton per hour crusher and three (3) conveyors, powered by electricity, at an existing crushing and screening plant.

<u>ITEM</u>	<u>DESCRIPTION</u>
1	Notice of Application and Opportunity to Request an Informational Meeting
2	Environmental Justice (EJ) Information - EJ Fact Sheet and MDE Score and Screening Report
3	Permit to Construct Application Forms – Form 5, Form 5EP, process flow diagrams, emissions calculations, and vendor information
4	Evidence 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. on July 26, 2023, for one (1) 250 ton per hour crusher and three (3) conveyors, powered by electricity, at an existing crushing and screening plant. The proposed installation will be located at Laurel Sand & Gravel, Inc. – Beaver Creek Quarry, 10101 Mapleville Road, Hagerstown, MD 21740.

In accordance with HB 1200/Ch. 588 of 2022, the applicant provided an environmental justice (EJ) Score for the census tract in which the project is located using the Maryland EJ mapping tool. The EJ Score, expressed as a statewide percentile, was shown to be 12.92 which the Department has verified. This score considers three demographic indicators, minority population above 50%, poverty rate above 25% and limited English proficiency above 15%, to identify underserved communities. Multiple environmental health indicators are used to identify overburdened communities.

Copies of the application, the MDE EJ Screening Report (which includes the score), and other supporting documents are available for public inspection on the Department's website at <https://mde.maryland.gov/programs/Permits/AirManagementPermits/Pages/index.aspx> (click on Docket Number 13-23). Any applicant-provided information regarding a description of the environmental and socioeconomic indicators contributing to that EJ score can also be found at the listed website. Such information has not yet been reviewed by the Department. A review of the submitted information will be conducted when the Department undertakes its technical review of all documents included in the application.

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. A requested informational meeting will be held virtually using teleconference or internet-based conferencing technology unless a specific request for an in-person informational meeting is received. All requests for an informational meeting should be directed to the attention of Ms. Shannon Heafey, Air Quality Permits Program by email to shannon.heafey@maryland.gov or by mail to the Air and Radiation Administration, 1800 Washington Boulevard, Baltimore, Maryland 21230.

Further information may be obtained by calling Ms. Shannon Heafey at 410-537-4433.

Christopher R. Hoagland, Director
Air and Radiation Administration



The Applicant's Guide to Environmental Justice and Permitting

What You Need to Know

This fact sheet is designed to provide guidance to applicants on incorporating environmental justice screening requirements pursuant to House Bill 1200, effective October 1, 2022.

What is Environmental Justice?

The concept behind the term environmental justice (EJ) is that regardless of race, color, national origin, or income, all Maryland residents and communities should have an equal opportunity to enjoy an enhanced quality of life. How to assess whether equal protection is being applied is the challenge.

Communities surrounded by a disproportionate number of polluting facilities puts residents at a higher risk for health problems from environmental exposures. It is important that residents who may be adversely affected by a proposed source be aware of the current environmental issues in their community in order to have meaningful involvement in the permitting process. Resources may be available from government and private entities to ensure that community health is not negatively impacted by a new source located in the community.

Extensive research has documented that health disparities exist between demographic groups in the United States, such as differences in mortality and morbidity associated with factors that include race/ethnicity, income, and educational attainment. House Bill 1200 adds to MDE's work incorporating diversity, equity and inclusion into our mission to help overburdened and underserved communities with environmental issues.

What is House Bill 1200 and what does it require?

Effective October 1, 2022, House Bill 1200 requires a person applying for a permit from the Department under §1-601 of the Environment Article of the Annotated Code of Maryland or any permit requiring public notice and participation to include in the application an EJ Score for the census tract where the applicant is seeking the permit; requiring the Department, on receiving a certain permit application to review the EJ Score; and requiring notices to include information related to EJ Scores and generally relating to environmental permits and environmental justice screenings.

What is a "Maryland EJ Tool"?

The term "Maryland EJ Tool" means a publicly available state mapping tool that allows users to: (1) explore layers of environmental justice concern; (2) determine an overall EJ score for census tracts in the state; and (3) view additional context layers relevant to an area. The MDE EJ Screening Tool is considered a Maryland EJ Tool.

What is an "EJ Score"?

The term "EJ Score" means an overall evaluation of an area's environment and environmental justice indicators, as defined by MDE in regulation, including: (1) pollution burden exposure; (2) pollution burden environmental effects; (3) sensitive populations; and (4) socioeconomic factors.

The MDE EJ Screening Tool considers three demographic indicators, minority population above 50%, poverty rate above 25% and limited English proficiency above 15%, to identify underserved communities, and multiple environmental health indicators to identify overburdened communities. The tool uses these indicators to calculate a



Maryland
Department of
the Environment

The Applicant's Guide to Environmental Justice and Permitting

What You Need to Know

Final EJ Score Percentile, statewide. It is that score, linked to the census tract where the project is to be located, that needs to be reported to MDE as part of your permit application.

What does the application require?

The link for the MDE EJ Screening Tool is located on the Department's website, www.mde.maryland.gov. Click on the Environmental Justice header at the top of the Department's home page, then select EJ Screening Tool from the menu on the left. Click on Launch the EJ Screening Tool. After you open the tool, click okay on the opening screen. At the top right, please click the first button for the MDE Screening Report. Input the address of the proposed installation in the address bar. Click on the Report button. Once the report has been generated select the print icon and save it in a .pdf format.

The applicant needs to include the MDE Screening Report with the EJ Score from the MDE EJ Screening Tool as part of the permit application upon submission. An application will not be considered complete without the report.

The applicant is encouraged to provide the Department with a discussion about the environmental exposures in the community. This will provide pertinent information about how the applicant should proceed with engaging with the community. Residents of a community with a high indicator score and a high degree of environmental exposure should be afforded broader opportunities to participate in the permit process and understand the impacts a project seeking permit approval may have on them.

Questions

For air quality permits, please call 410-537-3230.

For water permits, please call 410-537-4145.

For land permits pertaining to Solid Waste, please call 410-537-3098. For land permits pertaining to Oil Control, please call 410-537-3483.

For land permits pertaining to Animal Feeding Operations, please call 410-537-4423.

For land permits pertaining to Biosolids, please call 410-537-3403.

Environmental Justice Discussion

Beaver Creek Quarry (043-0121)

August 16, 2023

The Beaver Creek Quarry (043-0121) is located at 10101 Mapleville Road, Hagerstown, MD 21740. An existing crushing and screening plant is operated on site in order to produce aggregate material for the construction and transportation industries. This permit to construct application contains the addition of one (1) crusher and three (3) conveyors.

The attached Environmental Justice (EJ) Screening Report shows the EJ scores for the site. It is a priority to develop and maintain a positive relationship with the surrounding community regardless of race, color, national origin, or income. An open line of communication with neighbors is encouraged and additional information about the site is shared in order to provide a better understanding of ongoing operations. When possible, tours of the facility are provided to interested members of the community. Any feedback received is promptly addressed and responded to.

The existing and proposed control measures ensure that the surrounding community is protected from environmental exposures. A variety of techniques are employed in order to properly control fugitive dust on site. This includes equipment installed on the processing plant as well as practices employed around the site.

The processing plant is equipped with a wet suppression system used as necessary to prevent the discharge of emissions. The existing wet suppression system will be expanded to cover the proposed modifications to the plant. Routine inspections will continue to be performed to ensure the system is operating as intended. If any nozzles are found to be malfunctioning, corrective action will be taken within 24 hours. Any spillage or residual materials from the plant will be promptly cleaned up and returned to the raw material stockpile.

A water truck will be used in order to control dust from vehicular traffic on internal roads. Speed limits for vehicles on site will be posted and enforced. Prior to leaving the site, all trucks will be required to have their loads covered. Stockpiles will not be worked more than necessary and the water truck will be used to wet the material as needed.

Developing a positive relationship with the surrounding community and employing the best available techniques to eliminate environmental exposures will ensure the continued fair treatment and meaningful involvement of all stakeholders.

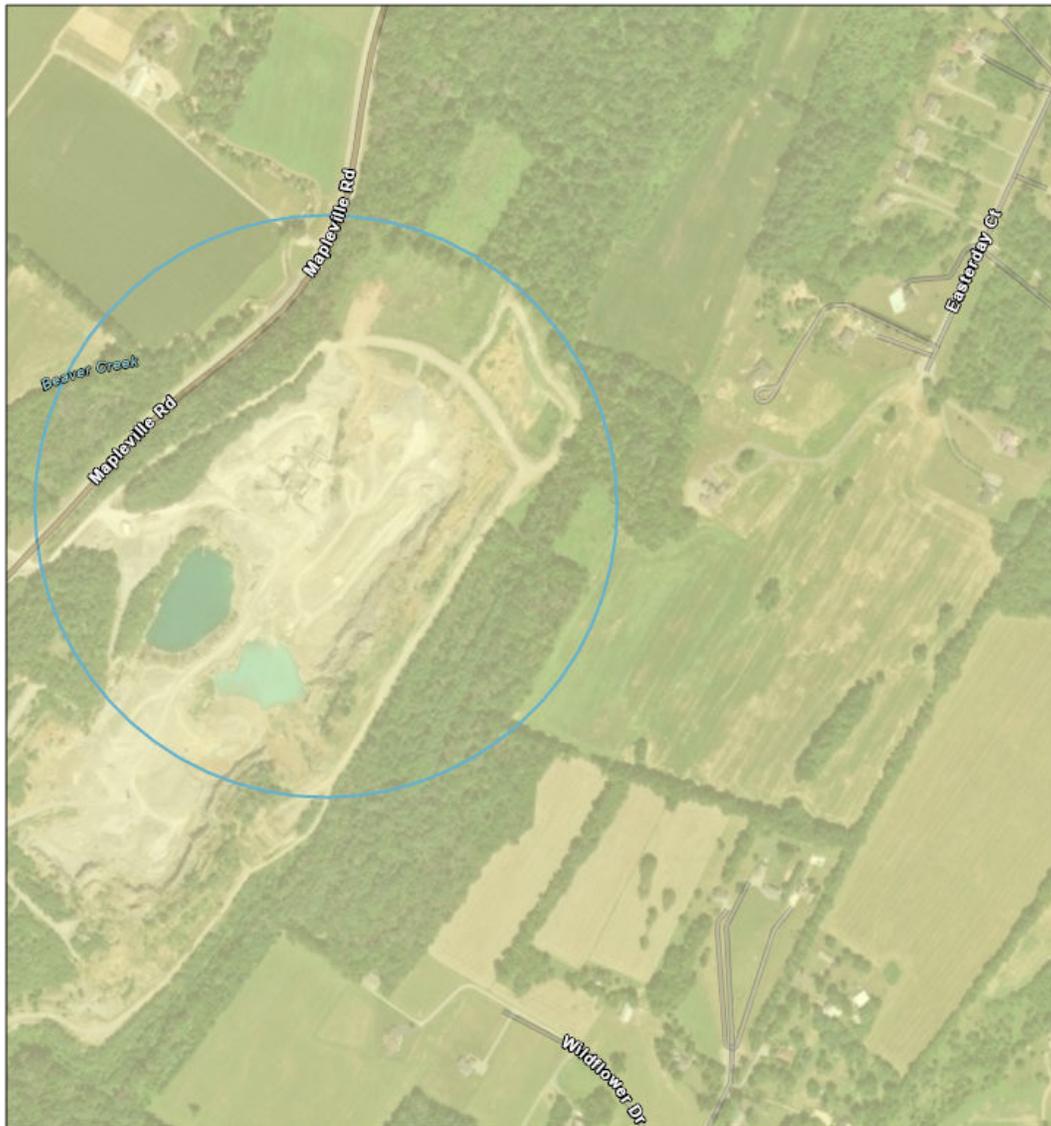


MDE Screening Report - Beaver Creek Quarry

Area of Interest (AOI) Information

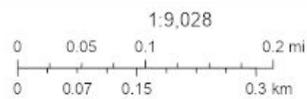
Area : 0.16 mi²

Aug 16 2023 9:57:34 Eastern Daylight Time



MDE Final EJ Score (%ile score)

- 0% - 24.9th %ile
- 25% - 49.9th %ile
- 50% - 74.9th %ile
- 75% - 100th %ile



MDE, OS, OIGT, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

Summary

Name	Count	Area(mi ²)	Length(mi)
MDE Final EJ Score (%ile score)	1	0.16	N/A
Overburdened Communities Combined Score	1	0.16	N/A
Overburdened Pollution Environmental Score (%ile score)	1	0.16	N/A
Overburdened Exposure Score (%ile score)	1	0.16	N/A
Overburdened Sensitive Population (%ile score)	1	0.16	N/A
Socioeconomic/Demographic Score 2020 (Percentile score) (Underserved Community)	1	0.16	N/A
Air Emissions Facilities	3	N/A	N/A
Sulfur Dioxide (2010)	0	0	N/A
Ozone (2015)	1	0.16	N/A
Fine Particles (2012)	1	0.16	N/A
Biosolids FY 2020 and Current Permit Details	0	N/A	N/A
Biosolids FY2010 - 2014 Permit Details	0	N/A	N/A
Biosolids FY2009 Expired Permit Details	0	N/A	N/A
Biosolids FY 2020 and Current Permits Distribution By Acreage	1	0.16	N/A
Biosolids FY2015 - 2019 Permits Distribution By Acreage	1	0.16	N/A
Biosolids FY2010 - 2014 Permits Distribution By Acreage	1	0.16	N/A
Biosolids FY2009 Permits Expired Distribution By Acreage	1	0.16	N/A
Biosolids FY 2020 and Current Permit Distribution By Percent Coverage	1	0.16	N/A
Biosolids FY2015 - 2019 Permit Distribution By Percent Coverage	1	0.16	N/A
Biosolids FY2010 - 2014 Permit Distribution By Percent Coverage	1	0.16	N/A
Biosolids FY2009 Expired Permit Distribution By Percent Coverage	1	0.16	N/A
Concentrated Animal Feeding Operations (CAFOs)	0	N/A	N/A
Composting Facilities	0	N/A	N/A
Food Scrap Acceptors	0	N/A	N/A
Landfills	0	N/A	N/A
Correctional Facilities	0	N/A	N/A
Industrial Food Suppliers	0	N/A	N/A
Residential Colleges	0	N/A	N/A
Non-Residential Colleges	0	N/A	N/A
Hospitals	0	N/A	N/A
High Schools	0	N/A	N/A

Grocery Stores	0	N/A	N/A
10 Miles from Landfill	1	0.05	N/A
10 Miles from Composting Facility	0	0	N/A
General Composting Facilities Tier 2 (MD)	0	N/A	N/A
Commercial Anaerobic Digester (MD)	0	N/A	N/A
Out of State Facilities	0	N/A	N/A
30 mile buffer (Maryland)	1	0.16	N/A
30 Mile Buffer (Out of State)	1	0.16	N/A
Land Restoration Facilities	0	N/A	N/A
Determinations (points)	0	N/A	N/A
Determinations (areas)	0	0	N/A
Entities	0	N/A	N/A
Active Coal Mine Sites	0	N/A	N/A
Historic Mine Facilities	0	N/A	N/A
All Permitted Solid Waste Acceptance Facilities	0	N/A	N/A
Municipal Solid Waste Acceptance Facilities	0	N/A	N/A
Maryland Dam Locations	0	N/A	N/A
Maryland Pond Locations	0	N/A	N/A
Surface Water Intakes	0	N/A	N/A
Wastewater Discharge Facilities	3	N/A	N/A
Drinking Water	0	N/A	N/A
Clean Water	0	N/A	N/A

MDE Final EJ Score (%ile score)

#	Census tract identifier	Geographic Area Name	Total Population	Final EJ Score Percent (for this tract)	Final EJ Score Percentile (Distribution across Maryland)	Area(mi ²)
1	24043011302	Census Tract 113.02, Washington County, Maryland	3878	22.12	12.92	0.16

Overburdened Communities Combined Score

#	GEOID20	Geographic_Area_Name	TotalPop	Overburd_Exposure_Percent	Overburd_Exposure_Percentile
1	24043011302	Census Tract 113.02, Washington County, Maryland	3,878	41.25	19.75

#	Overburd_Poll_Enviro_Percent	Overburd_Poll_Enviro_Percentile	Sensitive_Population_Percent	Sensitive_Population_Percentile	OverburdenedAIIPercent	OverburdenedAIIPercentile	Area(mi ²)
1	4.60	29.53	49.94	27.61	18.46	35.61	0.16

Overburdened Pollution Environmental Score (%ile score)

#	GEOID20	Geographic_Area_Name	RentalsOccupiedPre79 Percent	Percentile	PercentRMP
1	24043011302	Census Tract 113.02, Washington County, Maryland	6.54	31.44	2.12

#	PercentRMPEJ	PercentHazWaste	PercentHazWasteEJ	PercentSuperFundNPL	PercentSuperFundNPL EJ
1	4.76	1.58	6.88	6.13	10.87

#	PercentHazWW	PercentHazWWEJ	BrownFPercent	Percentile_1	PercentPowerPlants
1	22.81	14.88	0.00	0.00	0.00

#	Percentile_12	PercentCAFOS	Percentile_12_13	PercentActiveMines	Percentile_12_13_14
1	0.00	0.00	0.00	0.00	0.00

#	PollutionEnvironmentalPercent	PollnEnvironmentalPercentile	Area(mi²)
1	4.60	29.53	0.16

Overburdened Exposure Score (%ile score)

#	GEOID20	Geographic_Area_Name	Total_Pop	PercentNATA_Cancer	Percentile_NATA_Cancer
1	24043011302	Census Tract 113.02, Washington County, Maryland	3,878.00	60.00	13.86

#	PercentNATA_Resp_HI	Percentile_NATA_Resp_HI	PercentNATA_Diesel	Percentile_NATA_Diesel	PercentNATA_PM25
1	60.00	9.16	21.84	8.13	92.42

#	PercentileNATA_PM25	PercentOzone	PercentileOzone	PercentTraffic	PercentileTraffic
1	10.17	88.79	7.78	1.67	6.62

#	PercentTRI	PercentileTRI	PercentHazWasteLF	Percentile_Haz WasteLF	PollutionExposurePercent	PollutionExposurePercentile	Area(mi²)
1	5.26	80.18	0.00	0.00	41.25	19.75	0.16

Overburdened Sensitive Population (%ile score)

#	GEOID20	Geographic_Area_Name	PerAsthma	PercentileAst	PerMyo
1	24043011302	Census Tract 113.02, Washington County, Maryland	47.90	51.74	51.90

#	PercentileMyo	PerLow	PercentileLow	PercentBroad	PercentileBroad
1	52.77	14.10	13.74	14.15	67.60

#	PercentSens	PercentileSens	Area(mi²)
1	32.01	46.46	0.16

Socioeconomic/Demographic Score 2020 (Percentile score) (Underserved Community)

#	Census tract identifier	Geographic Area Name	Total Population	Percent Poverty	Percent Minority
1	24043011302	Census Tract 113.02, Washington County, Maryland	3,878	13.91	14.16

#	Percent Limited English Proficiency	Demographic Score (Percent for this tract)	Demographic Score (Percentile Distribution across Maryland)	Area(mi²)
1	3.77	10.61	18.64	0.16

Air Emissions Facilities

#	Agency Interest ID	Facility Name	Agency Interest Alt Name	Premises ID	Emission Year
1	21249	Laurel Sand & Gravel, Inc. - Beaver Creek Quarry	Laurel Sand & Gravel, Inc. - Beaver Creek Quarry-21249	043-0121	2021
2	21249	Laurel Sand & Gravel, Inc. - Beaver Creek Quarry	Laurel Sand & Gravel, Inc. - Beaver Creek Quarry-21249	043-0133	2021
3	21249	Laurel Sand & Gravel, Inc. - Beaver Creek Quarry	Laurel Sand & Gravel, Inc. - Beaver Creek Quarry-21249	043-0526	2021

#	Air Code	NAIC Code	NAIC Description	Physical Address	Physical City
1	SOP	212,312	Crushed and Broken Limestone Mining and Quarrying	10101 Mapleville Rd	Hagerstown
2	SOP	212,312	Crushed and Broken Limestone Mining and Quarrying	10101 Mapleville Rd	Hagerstown
3	SOP	212,312	Crushed and Broken Limestone Mining and Quarrying	10101 Mapleville Rd	Hagerstown

#	Physical State	Physical Zip Code	County	Carbon Monoxide (CO)	Nitrous Oxide
1	MD	21,740	Washington	0.00	0.00
2	MD	21,740	Washington	0.00	0.00
3	MD	21,740	Washington	0.00	0.00

#	Particulate Matter (PT)	Particulate Matter (10 Filterable)	Particulate Matter (2.5 Filterable)	PM Condensables	Volatile Organic Compounds (VOC)
1	11.93	4.39	0.54	0.00	0.00
2	11.93	4.39	0.54	0.00	0.00
3	11.93	4.39	0.54	0.00	0.00

#	Sulphur Dioxide (SOx)	Carbon Dioxide	Mercury	Methane	Billable Criteria Pollutants (BCRI)
1	0.00	0.00	0.00	0.00	4.39
2	0.00	0.00	0.00	0.00	4.39
3	0.00	0.00	0.00	0.00	4.39

#	Billable Hazardous Pollutants (BHAP)	Total Billable and Non-Bilable Hazardous Air Pollutant Emissions (HAPS)	Count
1	0.00	0.00	1

2	0.00	0.00	1
3	0.00	0.00	1

Ozone (2015)

#	STATEFP10	COUNTYFP10	COUNTYNS10	GEOID10	NAME10
1	24	043	01714220	24043	Washington

#	Ozone NAA Area	8-Hr Ozone (2015) Designation	8-HR Ozone (2015) Classification	8-Hr Ozone (2015) Status	Area(mi ²)
1	No Data	Attainment/Unclassifiable	No Data	No Data	0.16

Fine Particles (2012)

#	STATEFP10	COUNTYFP10	COUNTYNS10	GEOID10	NAME10	PM2.5 (2012) Status	Area(mi ²)
1	24	043	01714220	24043	Washington	Attainment/Unclassifiable	0.16

Biosolids FY 2020 and Current Permits Distribution By Acreage

#	County Name	FY2020andAfter	Area(mi ²)
1	Washington	158.10	0.16

Biosolids FY2015 - 2019 Permits Distribution By Acreage

#	County Name	FY2015to2019	Area(mi ²)
1	Washington	97.30	0.16

Biosolids FY2010 - 2014 Permits Distribution By Acreage

#	County Name	FY2010to2014	Area(mi ²)
1	Washington	289.10	0.16

Biosolids FY2009 Permits Expired Distribution By Acreage

#	County Name	FY2009	Area(mi ²)
1	Washington	No Data	0.16

Biosolids FY 2020 and Current Permit Distribution By Percent Coverage

#	County Name	FY2020andAfter	Area(mi ²)
1	Washington	158.10	0.16

Biosolids FY2015 - 2019 Permit Distribution By Percent Coverage

#	County Name	FY2015to2019	Area(mi ²)
1	Washington	97.30	0.16

Biosolids FY2010 - 2014 Permit Distribution By Percent Coverage

#	County Name	FY2010to2014	Area(mi ²)
1	Washington	289.10	0.16

Biosolids FY2009 Expired Permit Distribution By Percent Coverage

#	County Name	FY2009	Area(mi ²)
1	Washington	No Data	0.16

10 Miles from Landfill

#	County	Type	Facility_N	ADDRESS	FILL
1	WASHINGTON	WRF	Washington Co. RubbleLandfill	11112 Kemps Mill Rd, Williamsport MD 21740.	75

#	SITE__ACRE	AI_No_	Owner_Type	MD_GRID__E	PERMITNUMB	EXPIRATION	Area(mi ²)
1	100.00	23,096.00	CTY	568 /652	2014-WRF-0270	10/27/2019, 8:00 PM	0.05

30 mile buffer (Maryland)

#	Facility_Name_1	Facility_Contact_1	Contact_Phone	Contact_Email_1	Contact_2
1	Key City Compost at Utica Bridge Farm	Phil Westcott	(240) 608-0283	info@keycompost.com	No Data

#	Contact_2_Phone	Contact_2_Email	URL	Area(mi ²)
1	No Data	No Data	https://www.keycompost.com/	0.16

30 Mile Buffer (Out of State)

#	FacilityName	Contact	Area(mi ²)
1	Wilson College	https://files.dep.state.pa.us/Waste/Bureau%20of%20Waste%20Management/WasteMgtPortalFiles/PA_Permitted_Food_Waste_Composting_Facilities.pdf	0.16

Wastewater Discharge Facilities

#	AID	FAC_NAME	Comments	ValidateCo	GIS_Action
1	21,249	Lafarge Mid-Atlantic, LLC - Beaver Creek Quarry	No Data	Data Verified Accurate Against MD 8 Digit Watershed	No Data
2	0	L.W. WOLFE ENTERPRISES, INC.	No Data	Data Verified Accurate Based Upon Follow Up Research By MDE	No Data
3	0	C. WILLIAM HETZER, INC, INC.- HOT MIX ASPHALT PLANT	No Data	Data Verified Accurate Based Upon Follow Up Research By MDE	No Data

#	GIS_Comments	Corrective	ZipCodeCom	CBSEG_92	BAY_TRIB
1	No Data	No Data	Zip code provided is incorrect. Changed zip code from 21704 to 21740.	POTTF_MD	02140502
2	No Data	No Data	No Data	POTTF_MD	02140502
3	No Data	No Data	No Data	POTTF_MD	02140502

#	MD12DIG	County	MDMajorTrib	HUC	Tier2Catchments_yn
1	021405020194	22	1	020700041007	0
2	021405020194	22	1	020700041007	0
3	021405020194	22	1	020700041007	0

#	Tier2Catchments	Tier3Catchments_yn	Tier3Catchments	SSPRA_yn	SSPRA
1	No Data	0	No Data	1	GROUP 3
2	No Data	0	No Data	1	GROUP 3
3	No Data	0	No Data	1	GROUP 3

#	Impaired_yn	Impaired	WQA_yn	WQA	T3038Dig_yn
1	1	Bacteria, Stream Modification, Nutrients(Phosphorous), Ions, Habitat, Sediments, (DO)	1	Nutrients	1
2	1	Bacteria, Ions, Stream Modification, Habitat, Sediments, Nutrients(Phosphorous), (DO)	1	Nutrients	1
3	1	Ions, Nutrients(Phosphorous), Habitat, Sediments, Stream Modification, Bacteria, (DO)	1	Nutrients	1

#	T3038Dig	TMDL8Dig_yn	TMDL8Dig	MHTArcheo_yn	MHTArcheo
1	Ions	1	Bacteria, Nutrients(Phosphorous), Sediments, (DO)	0	No Data
2	Ions	1	Bacteria, Sediments, Nutrients(Phosphorous), (DO)	1	Present
3	Ions	1	Nutrients(Phosphorous), Sediments, Bacteria, (DO)	0	No Data

#	Facility_Type	State_Num	WatershedYear	WatershedQuarter	WatershedCode
1	No Data	No Data	No Data	No Data	No Data
2	No Data	No Data	No Data	No Data	No Data
3	No Data	No Data	No Data	No Data	No Data

#	WatershedName	SimplePermittingAction	PermitAge	CycleYear	PreDraftComplete
1	No Data	No Data	No Data	No Data	No Data
2	No Data	No Data	No Data	No Data	No Data
3	No Data	No Data	No Data	No Data	No Data

#	DatePreDraftComplete	DraftPermitCompleteBy	IssueBy	AppFee	Bill
1	No Data	No Data	No Data	No Data	0
2	No Data	No Data	No Data	No Data	0
3	No Data	No Data	No Data	No Data	0

#	Amount	DSCHG_RATE	SW_AUTH_ROD	P2_OR_C_Bay_2000	District
1	0.00	0.00	0	0	2A
2	0.00	0.00	0	0	2A
3	0.00	0.00	0	0	2A

#	SurWellName	SurWellSource	SurWellDist	CommWellName	CommWellSource
1	No Data	No Data	-99.00	No Data	No Data
2	No Data	No Data	-99.00	No Data	No Data
3	No Data	No Data	-99.00	No Data	No Data

#	CommWellDist	CommWellProtect	Active	Include	ManualActive	Count
1	-99.00	0	1	1	1	1
2	-99.00	0	0	1	0	1
3	-99.00	0	0	1	0	1

© MDE

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

July 17, 2023

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

Re: Permit to Construct Application– Beaver Creek Quarry (043-0121)

Dear Ms. Wells:

Please find attached a permit to construct application for the addition of one Canica 2000 VSI crusher and three conveyors to the existing aggregate crushing and screening plant at the Beaver Creek Quarry (043-0121).

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. Thank you for your assistance.

Sincerely,

Collin Sumpter
Resource Manager



AIR QUALITY PERMIT TO CONSTRUCT APPLICATION CHECKLIST

OWNER OF EQUIPMENT/PROCESS	
COMPANY NAME:	Laurel Sand & Gravel, Inc.
COMPANY ADDRESS:	P.O. Box 850, Laurel, MD 20725
LOCATION OF EQUIPMENT/PROCESS	
PREMISES NAME:	Beaver Creek Quarry(043-0121)
PREMISES ADDRESS:	10101 Mapleville Rd., Hagerstown, MD 21740
CONTACT INFORMATION FOR THIS PERMIT APPLICATION	
CONTACT NAME:	Collin Sumpter
JOB TITLE:	Resource Manager
PHONE NUMBER:	410-792-7234 ext. 1120
EMAIL ADDRESS:	Collin@aggmt.com
DESCRIPTION OF EQUIPMENT OR PROCESS	
Addition of one (1) Canica 2000 VSI Crusher and three (3) conveyors.	

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> 1 </u> Form 5	No. <u> NA </u> Form 11
No. <u> NA </u> Form 5T	No. <u> NA </u> Form 41
No. <u> 4 </u> Form 5EP	No. <u> NA </u> Form 42
No. <u> NA </u> Form 6	No. <u> NA </u> Form 44
No. <u> NA </u> Form 10	
- Vendor/manufacturer specifications/guarantees
- Evidence of Workman's Compensation Insurance
- Process flow diagrams with emission points
- 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 ⁽¹⁾
- Documentation that the proposed installation complies with local zoning and land use requirements ⁽²⁾

(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

<p>1A. Owner of Equipment/Company Name Laurel Sand & Gravel, Inc.</p> <hr/> <p>Mailing Address P.O. Box 850 Street Address Laurel MD 20725 City State Zip</p> <p>Telephone Number (410) 792-7234</p> <p>Signature </p> <p>Collin Sumpter, Resource Manager Print Name and Title</p>	<p align="center">DO NOT WRITE IN THIS BLOCK 2. REGISTRATION NUMBER</p> <table style="width:100%; border: none;"> <tr> <td style="text-align: center;">County No.</td> <td style="text-align: center;">Premises No.</td> </tr> <tr> <td style="text-align: center;"> <table border="1" style="width: 100px; height: 20px; margin: 0 auto;"> <tr><td style="width: 50px;"> </td><td style="width: 50px;"> </td></tr> </table> </td> <td style="text-align: center;"> <table border="1" style="width: 100px; height: 20px; margin: 0 auto;"> <tr><td style="width: 25px;"> </td><td style="width: 25px;"> </td><td style="width: 25px;"> </td><td style="width: 25px;"> </td></tr> </table> </td> </tr> <tr> <td align="center">1-2</td> <td align="center">3-6</td> </tr> <tr> <td style="text-align: center;">Registration Class</td> <td style="text-align: center;">Equipment No.</td> </tr> <tr> <td style="text-align: center;"> <table border="1" style="width: 50px; height: 20px; margin: 0 auto;"> <tr><td> </td></tr> </table> </td> <td style="text-align: center;"> <table border="1" style="width: 100px; height: 20px; margin: 0 auto;"> <tr><td style="width: 25px;"> </td><td style="width: 25px;"> </td><td style="width: 25px;"> </td><td style="width: 25px;"> </td></tr> </table> </td> </tr> <tr> <td align="center">7</td> <td align="center">8-11</td> </tr> <tr> <td style="text-align: center;">Data Year</td> <td style="text-align: center;">Application Date</td> </tr> <tr> <td style="text-align: center;"> <table border="1" style="width: 100px; height: 20px; margin: 0 auto;"> <tr><td style="width: 50px;"> </td><td style="width: 50px;"> </td></tr> </table> </td> <td style="text-align: center;"> <hr style="width: 100%;"/> </td> </tr> <tr> <td align="center">12-13</td> <td> </td> </tr> </table>	County No.	Premises No.	<table border="1" style="width: 100px; height: 20px; margin: 0 auto;"> <tr><td style="width: 50px;"> </td><td style="width: 50px;"> </td></tr> </table>			<table border="1" style="width: 100px; height: 20px; margin: 0 auto;"> <tr><td style="width: 25px;"> </td><td style="width: 25px;"> </td><td style="width: 25px;"> </td><td style="width: 25px;"> </td></tr> </table>					1-2	3-6	Registration Class	Equipment No.	<table border="1" style="width: 50px; height: 20px; margin: 0 auto;"> <tr><td> </td></tr> </table>		<table border="1" style="width: 100px; height: 20px; margin: 0 auto;"> <tr><td style="width: 25px;"> </td><td style="width: 25px;"> </td><td style="width: 25px;"> </td><td style="width: 25px;"> </td></tr> </table>					7	8-11	Data Year	Application Date	<table border="1" style="width: 100px; height: 20px; margin: 0 auto;"> <tr><td style="width: 50px;"> </td><td style="width: 50px;"> </td></tr> </table>			<hr style="width: 100%;"/>	12-13	
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<p>1B. Equipment Location and Telephone Number (if different from above) 10101 Mapleville Rd. Street Number and Street Name Hagerstown MD 21740 (301) 739-6011 City/Town State Zip Telephone Number Beaver Creek Quarry Premises Name (if different from above)</p>																																
<p>3. Status (A= New, B= Modification to Existing Equipment, C= Existing Equipment)</p> <table style="width:100%; border: none;"> <tr> <td style="text-align: center;">Status</td> <td style="text-align: center;">New Construction Begun (MM/YY)</td> <td style="text-align: center;">New Construction Completed (MM/YY)</td> <td style="text-align: center;">Existing Initial Operation (MM/YY)</td> </tr> <tr> <td style="text-align: center;"> <table border="1" style="width: 50px; height: 20px; margin: 0 auto;"> <tr><td align="center">B</td></tr> </table> </td> <td style="text-align: center;"> <table border="1" style="width: 100px; height: 20px; margin: 0 auto;"> <tr><td style="width: 25px;">1</td><td style="width: 25px;">1</td><td style="width: 25px;">2</td><td style="width: 25px;">3</td></tr> </table> </td> <td style="text-align: center;"> <table border="1" style="width: 100px; height: 20px; margin: 0 auto;"> <tr><td style="width: 25px;">1</td><td style="width: 25px;">2</td><td style="width: 25px;">2</td><td style="width: 25px;">3</td></tr> </table> </td> <td style="text-align: center;"> <table border="1" style="width: 100px; height: 20px; margin: 0 auto;"> <tr><td style="width: 25px;">0</td><td style="width: 25px;">0</td><td style="width: 25px;">9</td><td style="width: 25px;">8</td></tr> </table> </td> </tr> <tr> <td align="center">15</td> <td align="center">16-19</td> <td align="center">20-23</td> <td align="center">20-23</td> </tr> </table>		Status	New Construction Begun (MM/YY)	New Construction Completed (MM/YY)	Existing Initial Operation (MM/YY)	<table border="1" style="width: 50px; height: 20px; margin: 0 auto;"> <tr><td align="center">B</td></tr> </table>	B	<table border="1" style="width: 100px; height: 20px; margin: 0 auto;"> <tr><td style="width: 25px;">1</td><td style="width: 25px;">1</td><td style="width: 25px;">2</td><td style="width: 25px;">3</td></tr> </table>	1	1	2	3	<table border="1" style="width: 100px; height: 20px; margin: 0 auto;"> <tr><td style="width: 25px;">1</td><td style="width: 25px;">2</td><td style="width: 25px;">2</td><td style="width: 25px;">3</td></tr> </table>	1	2	2	3	<table border="1" style="width: 100px; height: 20px; margin: 0 auto;"> <tr><td style="width: 25px;">0</td><td style="width: 25px;">0</td><td style="width: 25px;">9</td><td style="width: 25px;">8</td></tr> </table>	0	0	9	8	15	16-19	20-23	20-23						
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<p>4. Describe this Equipment: Make, Model, Features, Manufacturer (include Maximum Hourly Input Rate, etc.) Addition of one (1) Canica 2000 VSI Crusher and three (3) conveyors.</p>																																
<p>5. Workmen's Compensation Coverage WC700908 12/31/2023 Binder/Policy Number Expiration Date Company Rockwood Casualty Insurance Co.</p>																																
<p>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.</p>																																
<p>6A. Number of Pieces of Identical Equipment Units to be Registered/Permitted at this Time <u>0</u></p>																																
<p>6B. Number of Stack/Emission Points Associated with this Equipment <u>Four (4) new emission points</u></p>																																

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

Name Scott Gartzke Title Engineer

Company Steel Systems Installation, Inc.

Mailing Address/Street 175 N. Lime St.

City/Town Quarryville State PA Telephone (717) 786-1264

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

Crushed Stone 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 Wet Suppression
24-9

10. Annual Fuel Consumption for this Equipment - ELECTRIC

OIL-1000 GALLONS	SULFUR %	GRADE	NATURAL GAS-1000 FT ³	LP GAS-100 GALLONS	GRADE
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
26-31	32-33	34	35-41	42-45	
COAL - TONS	SULFUR %	ASH%	WOOD-TONS	MOISTURE %	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
46-52	53-55	56-58	59-63	64-65	
OTHER FUELS	<input type="text"/>	ANNUAL AMOUNT CONSUMED	OTHER FUEL	<input type="text"/>	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"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
67-1	67-2	68-69		70-71	72	73-75
Seasonal Variation in Operation:						
No Variation	Winter Percent	Spring Percent	Summer Percent	Fall Percent	(Total Seasons= 100%)	
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
76	77-78	79-80	81-82	83-84		

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

N

85

If not, then

Height Above Ground (FT)

Inside Diameter at Top

Exit Temperature (°F)

Exit Velocity (FT/SEC)

--	--	--

86-88

--	--	--

89-91

--	--	--

92-95

--	--	--

96-98

NOTE:

See Exhibit - 6517-AQ-R1

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)

INPUT RATE

NAME	CAS NO. (IF APPLICABLE)	PER HOUR	UNITS	PER YEAR	UNITS
1. Aggregate Material		250	Tons	715,000	Tons
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					

TOTAL

14. Output Materials (for this equipment)

Process/Product Stream

OUTPUT RATE

NAME	CAS NO. (IF APPLICABLE)	PER HOUR	UNITS	PER YEAR	UNITS
1. Aggregate Material		250	Tons	715,000	Tons
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					

TOTAL

15. Waste Streams - Solid and Liquid

OUTPUT RATE

NAME	CAS NO. (IF APPLICABLE)	PER HOUR	UNITS	PER YEAR	UNITS
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 - N/A

Particulate Matter [][][][][][][][] 99-104	Oxides of Sulfur [][][][][][][][] 105-110	Oxides of Nitrogen [][][][][][][][] 111-116
Carbon Monoxide [][][][][][][][] 177-122	Volatile Organic Compounds [][][][][][][][] 123-128	PM-10 [][][][][][][][] 129-134

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

Particulate Matter 4 . 4 6 [][][][] 135-139	Oxides of Sulfur [][][][][][][][] 140-144	Oxides of Nitrogen [][][][][][][][] 145-149
Carbon Monoxide [][][][][][][][] 150-154	Volatile Organic Compounds [][][][][][][][] 155-159	PM-10 1 . 8 6 [][][][] 160-164

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

TSP [2] 165	SOX [] 166	NOX [] 167	CO [] 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 _____ **Reviewed by State** _____
 Date _____ By _____

19. Inventory Date _____ **Month/Year** [][][][] **Equipment Code** [][][] **SCC Code** [][][][][][][][]
 171-174 175-177 178-185

20. Annual Operating Rate [][][][][][][][] **Maximum Design Hourly Rate** [][][][][][][][] **Permit to Operate Month** [][] **Transaction Date (MM/DD/YR)** [][][][][][][][]
 186-192 193-199 200-201 202-207

Staff Code [][][] 208-210	VOC Code [][] [][] 211 212	SIP Code [][] [][] 213 214	Regulation Code [][][][] 215-218	Confidentiality [] 219
Point Description [][][][][][][][][][][][][][][][][][] 220-238				Action [] 239 A: Add C: Change

Beaver Creek Quarry Emissions Calculations

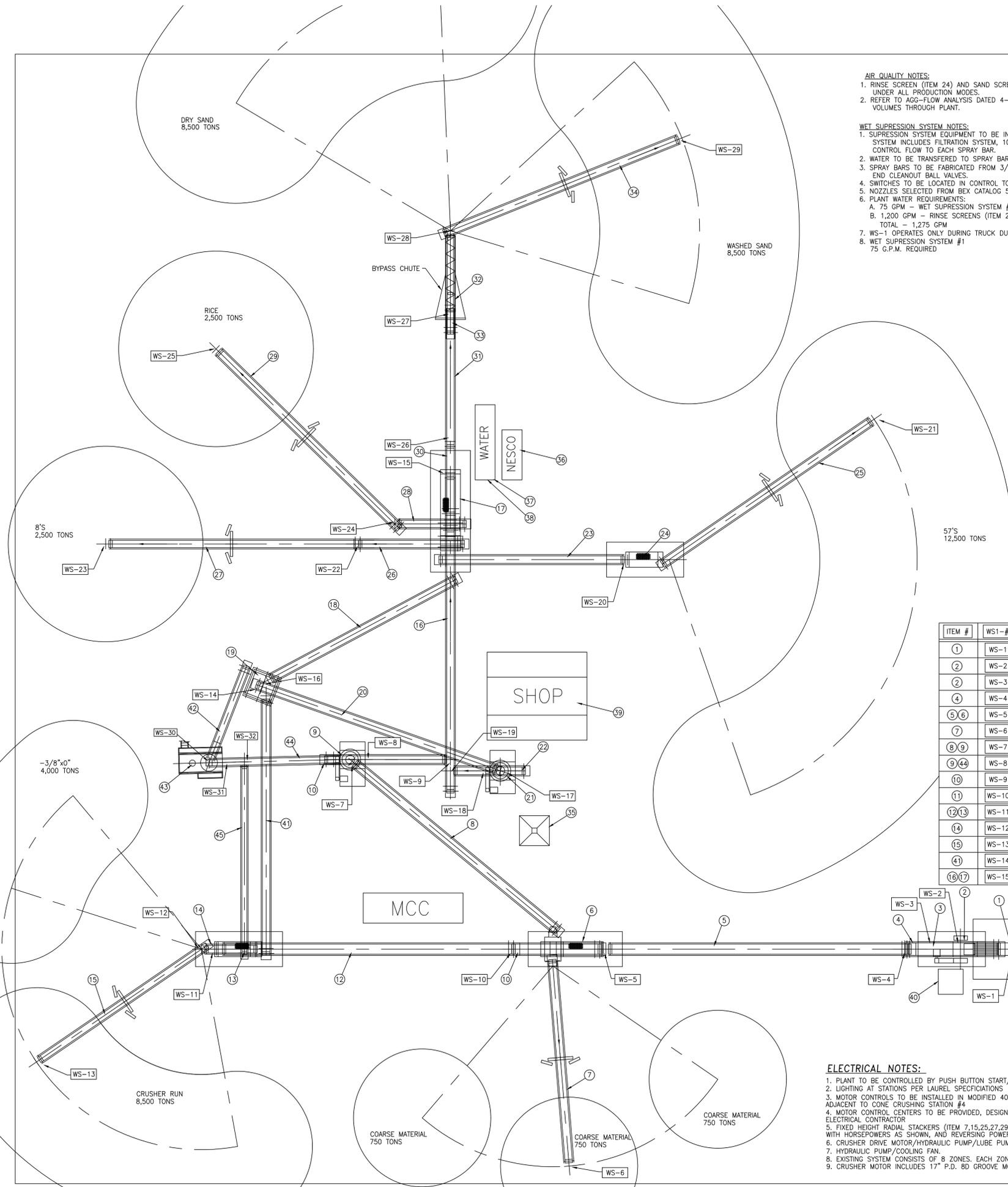
Permit #043-0121
Plant Reg #043-0121-6-0402

Maximum Production Hours/day x Days/year = Hours/year
 11 x 260 = 2,860

AP-42 Emissions Factors

	PM-10	PM- Filterable	PM - 2.5
Crushers (controlled)	0.00054	0.0012	0.0001
Screens (controlled)	0.00074	0.0022	0.00005
Conveyors (controlled)	0.000046	0.00014	0.000013

Equipment Added																
Equipment Description	Max Capacity			Max Hours			Emission Factor	PM-10 Emissions			PM Emissions			PM-2.5 Emissions		
#42 Conveyor	250	tons/hour	X	2,860	hours/year	X	Conveyors (controlled)	=	32.89	lbs/year	=	100.1	lbs/year	=	9.30	lbs/year
#43 Canica 2000 VSI Crusher	250	tons/hour	X	2,860	hours/year	X	Crushers (controlled)	=	386.10	lbs/year	=	858	lbs/year	=	71.50	lbs/year
#44 Conveyor	250	tons/hour	X	2,860	hours/year	X	Conveyors (controlled)	=	32.89	lbs/year	=	100.1	lbs/year	=	9.30	lbs/year
#45 Conveyor	250	tons/hour	X	2,860	hours/year	X	Conveyors (controlled)	=	32.89	lbs/year	=	100.1	lbs/year	=	9.30	lbs/year
Total								=	484.77	lbs/year	=	1158.30	lbs/year	=	99.39	lbs/year



- AIR QUALITY NOTES:**
- RINSE SCREEN (ITEM 24) AND SAND SCREW (ITEM 32) WILL NOT OPERATE UNDER ALL PRODUCTION MODES.
 - REFER TO AGG-FLOW ANALYSIS DATED 4-25-23 FOR MATERIAL FLOW VOLUMES THROUGH PLANT.
- WET SUPPRESSION SYSTEM NOTES:**
- SUPPRESSION SYSTEM EQUIPMENT TO BE INSTALLED IN ENCLOSURE TRAILER SYSTEM INCLUDES FILTRATION SPRAY, 100 PSI PUMP AND SOLENOIDS TO CONTROL FLOW TO EACH SPRAY BAR.
 - WATER TO BE TRANSFERRED TO SPRAY BARS IN 3/4" DIA HIGH PRESSURE HOSE.
 - SPRAY BARS TO BE FABRICATED FROM 3/4" DIA GALVANIZED PIPE AND TO INCLUDE END CLEANOUT BALL VALVES.
 - SWITCHES TO BE LOCATED IN CONTROL TOWER FOR ACTIVATION OF ALL SPRAY BARS.
 - NOZZLES SELECTED FROM BEX CATALOG 50A.
 - PLANT WATER REQUIREMENTS:
 - 75 GPM - WET SUPPRESSION SYSTEM #1
 - 1,200 GPM - RINSE SCREENS (ITEM 24) AND SAND SCREW (ITEM 32)
 TOTAL - 1,275 GPM
 - WS-1 OPERATES ONLY DURING TRUCK DUMP
 - WET SUPPRESSION SYSTEM #1 75 G.P.M. REQUIRED

PLANT EQUIPMENT SCHEDULE

#	ITEM DESCRIPTION	HP	COMMENTS	TPH	CONTROL DEVICE	
1	54"x20" CEDAR RAPIDS VIBRATING GRIZZLY FEEDER	50	EXISTING	500	WS-1	
2	TEREX 37X50 JAW CRUSHER 4" CCS	250/3	EXISTING	300	WS-2 WS-3	
3	TELEDYNE HYDRAULIC BREAKER	50/5	EXISTING			
4	60"x25" UNDER CRUSHER BELT	#1	EXISTING	500	WS-4	
5	36"x130" SCALPING SCREEN FEED CONVEYOR	#2	50/BELT SCALE/MAGNET	EXISTING	500	WS-5
6	6"x16" T.D. DEISTER INCLINED SCALPING SCREEN	40	EXISTING	500	WS-5	
7	36"x80" COARSE MATERIAL STACKER	#3	20/3 REV	EXISTING	100	WS-6
8	36"x107" TRANSFER CONVEYOR	#4	20	EXISTING	350	WS-7
9	4-1/4" INNOTECH CONE CRUSHER	250/10/5/3/CONTROLS	EXISTING	350	WS-7 WS-8	
10	36"x41" TRANSFER CONVEYOR	#5	15	EXISTING	350	WS-9
11	36"x40" TRANSFER CONVEYOR	#6	10	EXISTING	200	WS-10
12	36"x123" TRANSFER CONVEYOR	#7	20	EXISTING	200	WS-11
13	6"x16" D.D. DEISTER HIGH FREQUENCY SCREEN	15/15	EXISTING	200	WS-11	
14	36"x21" TRANSFER CONVEYOR	#8	15	EXISTING	200	WS-12
15	36"x100" STACKING CONVEYOR	#9	20/3 REV	EXISTING	200	WS-13
16	48"x120" SCREEN FEED CONVEYOR	#10	50	EXISTING	650	WS-15
17	8"x24" 4.D. DEISTER FINISH SCREEN	50/50	EXISTING	650	WS-15	
18	36"x80" TRANSFER CONVEYOR	#11	30/ MAGNET	EXISTING	300	WS-16
19	40 TON SURGE BIN WITH SYNTRON FEEDER	VFD	EXISTING	300	WS-16	
20	36"x110" TRANSFER CONVEYOR	#12	30	EXISTING	300	WS-17
21	HP400 CONE CRUSHER	400/10/5/5/CONTROLS	EXISTING	300	WS-17 WS-18	
22	36"x20" TRANSFER CONVEYOR	#13	10	EXISTING	300	WS-19
23	36"x93" TRANSFER CONVEYOR	#14	20	EXISTING	200	WS-20
24	6"x12" SINGLE DECK FMC RV5612 RINSE SCREEN	7.5	EXISTING	200		
25	36"x100" 57S RADIAL STACKING CONVEYOR	#15	30/3 REV	EXISTING	200	WS-21
26	24"x43" TRANSFER CONVEYOR	#16	10	EXISTING	100	WS-22
27	24"x100" RADIAL STACKING CONVEYOR	#17	20/3 REV	EXISTING	100	WS-23
28	30"x25" TRANSFER CONVEYOR	#18	15	EXISTING	75	WS-24
29	30"x100" RADIAL STACKING CONVEYOR	#19	20/3 REV	EXISTING	75	WS-25
30	48"x25" TRANSFER CONVEYOR	#20	15	EXISTING	100	WS-26
31	30"x60" TRANSFER CONVEYOR	#21	20	EXISTING	100	WS-27
32	MCLANAHAN 44"x33" SINGLE SCREW CLASSIFIER	20	EXISTING	100		
33	30"x40" SCREW BYPASS CONVEYOR	#22	10	EXISTING	100	WS-28
34	30"x100" RADIAL STACKING CONVEYOR	#23	20/3 REV	EXISTING	100	WS-29
35	20,000 CFM DUST COLLECTOR	50	EXISTING			
36	NESCO WET SUPPRESSION TRAILER	7.5/7.5/33	EXISTING			
37	SCREW CLASSIFIER MAKEUP WATER	50	EXISTING			
38	PLANT WASH DOWN	30	EXISTING			
39	PLANT AIR	5	EXISTING			
40	CONTROL BUILDING AND TOWER		EXISTING			
41	36"x120" TRANSFER CONVEYOR	#24	20	EXISTING	200	WS-14
42	NEW 30"x40" CHANNEL FRAME BELT CONVEYOR	#25	20	NEW	250	WS-16 WS-30
43	NEW CANICA MODEL 2000 VSI	400 ACVS	NEW	250	WS-30 WS-31	
44	NEW 30"x56" CHANNEL FRAME BELT CONVEYOR	#26	15	NEW	250	WS-31
45	NEW 24"x81" TRUSS FRAME BELT CONVEYOR	#27	15	NEW	250	WS-32

WET SUPPRESSION SYSTEM SPRAY BARS

ITEM #	WS1-#	# NOZZLES	SIZE NOZZLES	FLOW (GPM)	LOCATION	ITEM #	WS1-#	# NOZZLES	SIZE NOZZLES	FLOW (GPM)	LOCATION
1	WS-1	6	1/4 GG-14W	21	FEED HOPPER/FEEDER	18(19)42	WS-16	2	1/4 BX-3	1.7	C11 DISCHARGE/SURGE BIN/C-25 FEED
2	WS-2	2	1/4 BX-3	1.7	PRIMARY CRUSHER FEED	20(21)	WS-17	2	1/4 BX-3	1.7	C12 DISCHARGE/CONE CRUSHER FEED
2	WS-3	2	1/4 BX-3	1.7	PRIMARY CRUSHER DISCHARGE	21	WS-18	2	1/4 BX-3	1.7	CONE CRUSHER DISCHARGE
4	WS-4	2	1/4 BX-3	1.7	UNDER CRUSHER DISCHARGE CONVEYOR	22	WS-19	2	1/4 BX-3	1.7	C13 DISCHARGE
5,6	WS-5	2	1/4 BX-3	1.7	C2 DISCHARGE/SCALPING SCREEN FEED	23	WS-20	2	1/4 BX-3	1.7	C14 DISCHARGE
7	WS-6	2	1/4 BX-3	1.7	COARSE MATERIAL STACKER	25	WS-21	2	1/4 BX-3	1.7	C15 DISCHARGE
8,9	WS-7	2	1/4 BX-3	1.7	C4 DISCHARGE/CONE CRUSHER FEED	26	WS-22	2	1/4 BX-3	1.7	C16 DISCHARGE
9,44	WS-8	2	1/4 BX-3	1.7	CONE CRUSHER DISCHARGE, C26 DISCHARGE	27	WS-23	2	1/4 BX-3	1.7	C17 DISCHARGE
10	WS-9	2	1/4 BX-3	1.7	C5 DISCHARGE	28	WS-24	2	1/4 BX-3	1.7	C18 DISCHARGE
11	WS-10	2	1/4 BX-3	1.7	C6 DISCHARGE	29	WS-25	2	1/4 BX-3	1.7	C19 DISCHARGE
12,13	WS-11	2	1/4 BX-3	1.7	C7 DISCHARGE/SCREEN FEED	30	WS-26	2	1/4 BX-3	1.7	C20 DISCHARGE
14	WS-12	2	1/4 BX-3	1.7	C8 DISCHARGE	31	WS-27	2	1/4 BX-3	1.7	C21 DISCHARGE
15	WS-13	2	1/4 BX-3	1.7	C9 DISCHARGE	33	WS-28	2	1/4 BX-3	1.7	C22 DISCHARGE
41	WS-14	2	1/4 BX-3	1.7	C24 DISCHARGE	34	WS-29	2	1/4 BX-3	1.7	C23 DISCHARGE
16,17	WS-15	2	1/4 BX-3	1.7	C10 DISCHARGE	42,43	WS-30	2	1/4 BX-3	1.7	C25 DISCHARGE, VSI FEED
						43,44	WS-31	2	1/4 BX-3	1.7	VSI DISCHARGE, C26 FEED
						45	WS-32	2	1/4 BX-3	1.7	C27 DISCHARGE

TOTAL GPM: 73.7

- ELECTRICAL NOTES:**
- PLANT TO BE CONTROLLED BY PUSH BUTTON START/STOP IN CONTROL BOOTH
 - LIGHTING AT STATIONS PER LAUREL SPECIFICATIONS
 - MOTOR CONTROLS TO BE INSTALLED IN MODIFIED 40' SEA CONTAINERS LOCATED ADJACENT TO CONE CRUSHING STATION #4
 - MOTOR CONTROL CENTERS TO BE PROVIDED, DESIGNED AND INSTALLED BY ELECTRICAL CONTRACTOR
 - FIXED HEIGHT RADIAL STACKERS (ITEM 7,15,25,27,29,34) INCLUDE DRIVE MOTORS WITH HORSEPOWERS AS SHOWN, AND REVERSING POWER TRAVEL MOTORS AS SHOWN.
 - CRUSHER DRIVE MOTOR/HYDRAULIC PUMP/LUBE PUMP/COOLING FAN/CONTROLS.
 - HYDRAULIC PUMP/COOLING FAN.
 - EXISTING SYSTEM CONSISTS OF 8 ZONES. EACH ZONE HAS (3) SOLENOID VALVES.
 - CRUSHER MOTOR INCLUDES 17" P.D. 8D GROOVE MOTOR SHEAVE - 1200 RPM MOTOR

NO.	REVISION	DRAWN	CHK'D	DATE
1	ADDED EQUIPMENT ITEMS 42-45 & SPRAY BARS 30-32	SVG		6-15-23

NOTE: 1. Equipment items, structural steel, and foundations outlined on this drawing are designed for a specific application and are not to be relocated, modified, or used for any other application without the consent of Steel Systems Installation.
 2. Never service equipment while in operation nor operate without all guards in place.
 3. This print is loaned subject to return upon demand and is not to be used in any way detrimental to the interests of Steel Systems Installation.

AGGREGATE PROCESSING AND MATERIAL HANDLING SYSTEMS

P.O. BOX 307
 175 NORTH LIME STREET
 QUARRYVILLE, PA 17966

PHONE (717) 786-1264
 FAX (717) 786-2763
 WWW.STEELSYSTEMS.COM

DRAWING TITLE:
**REVISED AIR QUALITY CONTROL DRAWING
 BEAVER CREEK PLANT - VSI ADDITION
 GENERAL ARRANGEMENT**

PROJECT OWNER: LAUREL SAND & GRAVEL

PROJECT DESCRIPTION: AIR QUALITY

DATE: 6-15-2023 DRAWN BY: SVG SSI JOB NO: 6517
 SCALE: 1" = 20' CHECKED BY: SSI DWS NO: 6517-AQ-R1

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 Air and Radiation Management Administration • Air Quality Permits Program
 1800 Washington Boulevard • Baltimore, Maryland 21230
 (410)537-3225 • 1-800-633-6101 • www.mde.maryland.gov

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. - Beaver Creek 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:
#42 Conveyor

2. Emission Point Description

Describe the emission point including all associated equipment and control devices:
Conveyor with wet suppression

3. Emissions Schedule for the Emission Point

Continuous or Intermittent (C/I)?	C	Seasonal Variation Check box if none: <input type="checkbox"/> Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	10
Hours per day:	11	Spring Percent	30
Days per week:	5	Summer Percent	30
Weeks per year:	52	Fall Percent	30

4. Emission Point Information Fugitive Emissions Only

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 |
| <input type="checkbox"/> Elec. Precipitator (ESP) | No. _____ | <input type="checkbox"/> Nitrogen Oxides Reduction |
| <input checked="" type="checkbox"/> Dust Suppression System | No. <small>WS-16 & 30</small> _____ | <input type="checkbox"/> Selective |
| <input type="checkbox"/> Venturi Scrubber | No. _____ | <input type="checkbox"/> Catalytic |
| <input type="checkbox"/> Spray Tower/Packed Bed | No. _____ | <input type="checkbox"/> Non-Selective |
| <input type="checkbox"/> Carbon Adsorber | No. _____ | <input type="checkbox"/> Non-Catalytic |
| <input type="checkbox"/> Cartridge/Canister | | <input type="checkbox"/> Other |
| <input type="checkbox"/> Regenerative | | Specify: No. _____ |

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)	0.01	0.01	0.13	0.016
Particulate Matter (filterable as PM2.5)	0.003	0.003	0.04	0.005
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 ₂)	N/A			
Methane (CH ₄)	N/A			
Nitrous Oxide (N ₂ O)	N/A			
Hydrofluorocarbons (HFCs)	N/A			
Perfluorocarbons (PFCs)	N/A			
Sulfur Hexafluoride (SF ₆)	N/A			
Total GHG (as CO ₂ 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. - Beaver Creek 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:
#43 Canica 2000 VSI Crusher

2. Emission Point Description

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

Crusher with wet suppression

3. Emissions Schedule for the Emission Point

Continuous or Intermittent (C/I)?	C	Seasonal Variation	
		Check box if none: <input type="checkbox"/> Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	10
Hours per day:	11	Spring Percent	30
Days per week:	5	Summer Percent	30
Weeks per year:	52	Fall Percent	30

4. Emission Point Information

Fugitive Emissions Only

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	Length	Width
			N/A	N/A	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 | <input type="checkbox"/> Regenerative | No. _____ |
| <input type="checkbox"/> Cyclone | <input type="checkbox"/> Catalytic Oxidizer | No. _____ |
| <input type="checkbox"/> Elec. Precipitator (ESP) | <input type="checkbox"/> Nitrogen Oxides Reduction | No. _____ |
| <input checked="" type="checkbox"/> Dust Suppression System | <input type="checkbox"/> Selective | No. <u>WS-31</u> |
| | <input type="checkbox"/> Catalytic | |
| <input type="checkbox"/> Venturi Scrubber | <input type="checkbox"/> Other | No. _____ |
| <input type="checkbox"/> Spray Tower/Packed Bed | Specify: | |
| <input type="checkbox"/> Carbon Adsorber | | No. _____ |
| <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)	0.135	0.135	1.49	0.19
Particulate Matter (filterable as PM2.5)	0.025	0.025	0.275	0.036
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 ₂)	N/A			
Methane (CH ₄)	N/A			
Nitrous Oxide (N ₂ O)	N/A			
Hydrofluorocarbons (HFCs)	N/A			
Perfluorocarbons (PFCs)	N/A			
Sulfur Hexafluoride (SF ₆)	N/A			
Total GHG (as CO ₂ 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. - Beaver Creek 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:
#44 Conveyor

2. Emission Point Description

Describe the emission point including all associated equipment and control devices:
Conveyor with wet suppression

3. Emissions Schedule for the Emission Point

Continuous or Intermittent (C/I)?	C	Seasonal Variation Check box if none: <input type="checkbox"/> Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	10
Hours per day:	11	Spring Percent	30
Days per week:	5	Summer Percent	30
Weeks per year:	52	Fall Percent	30

4. Emission Point Information Fugitive Emissions Only

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 |
| <input type="checkbox"/> Elec. Precipitator (ESP) | No. _____ | <input type="checkbox"/> Nitrogen Oxides Reduction |
| <input checked="" type="checkbox"/> Dust Suppression System | No. <u>WS-31</u> | <input type="checkbox"/> Selective |
| <input type="checkbox"/> Venturi Scrubber | No. _____ | <input type="checkbox"/> Catalytic |
| <input type="checkbox"/> Spray Tower/Packed Bed | No. _____ | <input type="checkbox"/> Non-Selective |
| <input type="checkbox"/> Carbon Adsorber | No. _____ | <input type="checkbox"/> Non-Catalytic |
| <input type="checkbox"/> Cartridge/Canister | | <input type="checkbox"/> Other |
| <input type="checkbox"/> Regenerative | | Specify: No. _____ |

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)	0.01	0.01	0.13	0.016
Particulate Matter (filterable as PM2.5)	0.003	0.003	0.04	0.005
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 ₂)	N/A			
Methane (CH ₄)	N/A			
Nitrous Oxide (N ₂ O)	N/A			
Hydrofluorocarbons (HFCs)	N/A			
Perfluorocarbons (PFCs)	N/A			
Sulfur Hexafluoride (SF ₆)	N/A			
Total GHG (as CO ₂ 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. - Beaver Creek 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:
#45 Conveyor

2. Emission Point Description

Describe the emission point including all associated equipment and control devices:
Conveyor with wet suppression

3. Emissions Schedule for the Emission Point

Continuous or Intermittent (C/I)?	C	Seasonal Variation Check box if none: <input type="checkbox"/> Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	10
Hours per day:	11	Spring Percent	30
Days per week:	5	Summer Percent	30
Weeks per year:	52	Fall Percent	30

4. Emission Point Information Fugitive Emissions Only

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 |
| <input type="checkbox"/> Elec. Precipitator (ESP) | No. _____ | <input type="checkbox"/> Nitrogen Oxides Reduction |
| <input checked="" type="checkbox"/> Dust Suppression System | No. <u>WS-32</u> | <input type="checkbox"/> Selective |
| <input type="checkbox"/> Venturi Scrubber | No. _____ | <input type="checkbox"/> Catalytic |
| <input type="checkbox"/> Spray Tower/Packed Bed | No. _____ | <input type="checkbox"/> Non-Selective |
| <input type="checkbox"/> Carbon Adsorber | No. _____ | <input type="checkbox"/> Non-Catalytic |
| <input type="checkbox"/> Cartridge/Canister | | <input type="checkbox"/> Other |
| <input type="checkbox"/> Regenerative | | Specify: No. _____ |

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)	0.01	0.01	0.13	0.016
Particulate Matter (filterable as PM2.5)	0.003	0.003	0.04	0.005
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 ₂)	N/A			
Methane (CH ₄)	N/A			
Nitrous Oxide (N ₂ O)	N/A			
Hydrofluorocarbons (HFCs)	N/A			
Perfluorocarbons (PFCs)	N/A			
Sulfur Hexafluoride (SF ₆)	N/A			
Total GHG (as CO ₂ 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.)

Vertical Shaft Impactors Product Overview



MODULAR



PORTABLE



STATIC

A world working better™

Contents

- 01 Introduction
- 02 How a VSI Works
- 03 Interchangeable Crushing Chambers
- 04 VSI Applications
- 05 Static VSI Offering
- 06 Portable CRV Series
- 08 Modular MV Series
- 09 Canica Services



Canica®

Welcome to the World of Canica®

Canica® provides a comprehensive range of vertical shaft impactors to customers around the world.

Our equipment is designed to produce the highest quality end products. We provide Modular, Portable and static VSI plants and components – plus full parts, service and maintenance with support you can count on, wherever you are.

We understand your business

We know that you need operational reliability, cost effectiveness plus outstanding service. We have spent over 50 years building our business around delivering all three. Because when you succeed, we succeed.

World Class Service & Support

With Canica®, you don't just get best-in-class engineering technology. You get the service, training and support to match.

We understand your need to maximize productivity and control operating costs across the working life of every piece of equipment

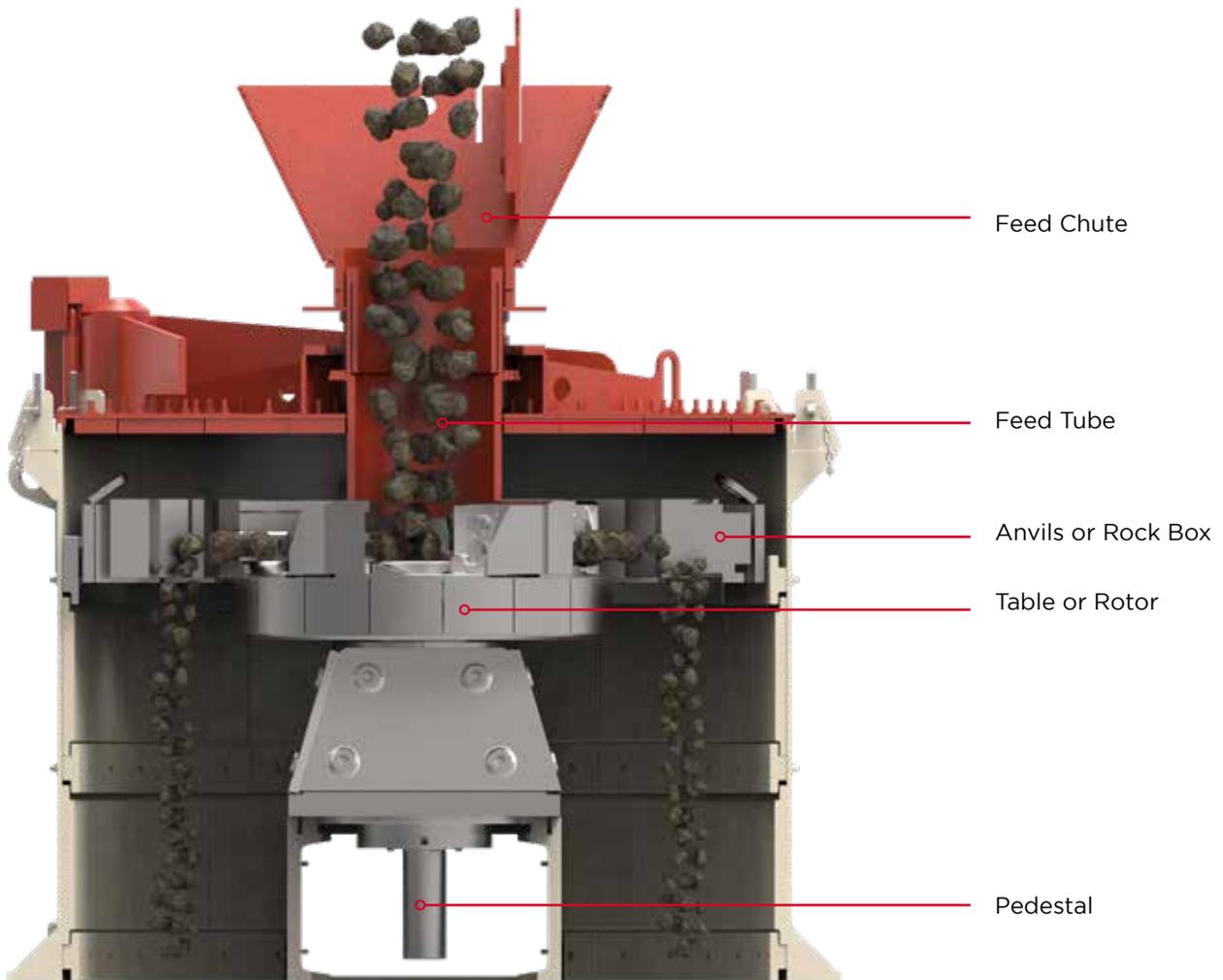
We share those goals – and have the solutions to help keep your operations running smoothly, through a dedicated global support network backed by decades of proven experience and expertise.

Key Benefits

- Sand manufacture
- High cubicity product
- Beneficiation of Material (elimination of soft stone)
- Gradation Consistency
- High Product Yield
- High Fracture percentage
- Simple Maintenance
- High Throughput Capacity
- Low Capital Investment



How a VSI Works



Interchangeable Crushing Chambers



Shoe and Anvil
(HD Series)



Rotor and Anvils
(ROS Series)

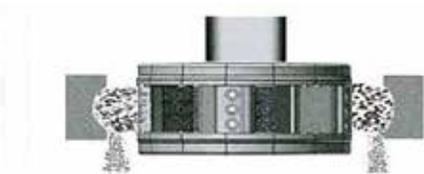


Rock on Rock
(ROR Series)



Large Feed, Mild to Medium
Abrasive Materials

Shoe and anvil configuration offers high tonnage of chip production, high reduction ratios and feed size flexibility.



High Reduction in Medium
Abrasive Materials

Enclosed rotor and anvils combine the grinding action of the rotor with the high efficiency reduction of anvils.



For All Rock Types and the
Most Abrasive Materials

Enclosed rotor and rock box configuration causes rock on rock crushing which produces the best shaped and most consistent material with the lowest wear cost.

VSI Applications

		Open Shoe Table Anvils	Rotor/Anvils	Rotor / Rockshelf
Relative Abrasiveness	Very High			
	High			
	Medium			
	Medium Low			
	Low			



Static

Canica® offers one of the widest range of Vertical Shaft Impactors (VSI) crushers on the market. Robust VSI crushers are a vital tool for producing highly cubical products in small sizes and eliminating soft material. A properly configured Canica® VSI crusher is the key to minimizing wear costs and downtime - and maximizing profitability. At Canica®, we offer one of the widest ranges on the market, with open shoe table, enclosed rotor and rockshelf, and rotor and rock box combinations. Which means, whatever your production or operational needs, there's a Canica® VSI solution able to handle the load.



Static Range

Model	Motor Drive	Maximum Feed Size (Longest Dimension) HD Configuration	Maximum Throughput Capacity HD Configuration	Power Required for Maximum Throughput	Chamber Configurations
1400	Single	2" (50 mm)	125 tph (115 mtph)	100 - 250 hp (75 - 185 kW)	HD/HDS/ROS/ROR
2000	Single or Dual	4" (100 mm)	250 tph (225 mtph)	400-700 hp (300-520kW)	HD/HDS/ROS/ROR
2050	Single or Dual	4" (100 mm)	400 tph (365 mtph)	400-700 hp (300-520kW)	HD/HDS/ROS/ROR
2300	Single or Dual	5" (125 mm)	500 tph (455 mtph)	400-700 hp (300-520kW)	HD/HDS/ROS/ROR
2350	Single or Dual	8" (205 mm)	600 tph (545 mtph)	500-800 hp (375-595kW)	HD/HDS
2500	Single or Dual	10" (255 mm)	800 tph (725 mtph)	600-1000hp (445-745kW)	HD/HDS

Note: Maximum feed size, throughput and power requirement dependent on internal configuration used and crushing speed. Internal configuration dependent on actual feed material, discharge requirements, material abrasive and strength properties. When using ROS/ROR configurations, feed size must not exceed 2".

Product color scheme represented are subject to change.

HD Heavy Duty (Open Table/Anvils)
HDS Heavy Duty Sand (Open Table/Anvils)
ROR Rock on Rock (enclosed rotor/rockshelf)
ROS Rock On Steel (Enclosed Rotor/Anvils)

Portable

With our Canica VSI plants we are bringing the most versatile crushers into the portable fleet, able to handle the widest range of applications and materials, and generate high throughput capacities.

They perform exceptionally well in secondary or tertiary crushing applications and their portability means they can be placed into almost any crushing circuit – especially where improved product shape or manufactured sand is needed.

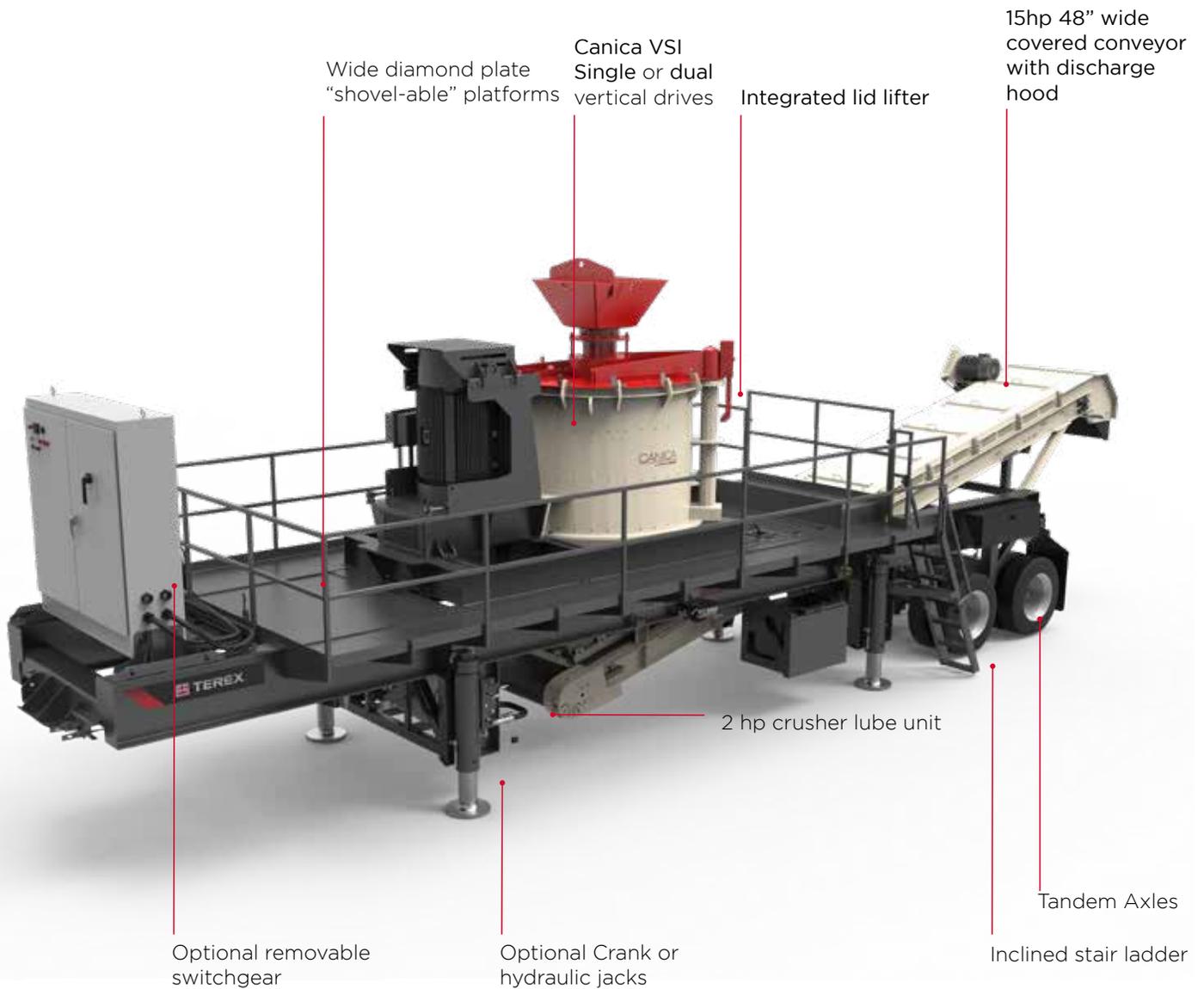


Single horizontal motor pinion drive shown

Static Range

Model	Motor Drive	Maximum Feed Size (Longest Dimension) HD Configuration	Maximum Throughput Capacity HD Configuration	Power Required for Maximum Throughput	Chamber Configurations
CRV2000	Single or Dual	4" (100 mm)	350 tph (315 mtph)	400-700 hp (300-520kW)	HD/HDS/ROS/ROR
CRV2050	Single or Dual	4" (100 mm)	400 tph (365 mtph)	400-700 hp (300-520kW)	HD/HDS/ROS/ROR
CRV2350	Single or Dual	8" (205 mm)	600 tph (545 mtph)	500-800 hp (375-595kW)	HD/HDS/ROS/ROR

Note: When using ROS/ROR configurations, feed size must not exceed 2"
Product color scheme represented are subject to change.



Modular

The MV2000 Modular VSI features a high performance Canica® 2000 single drive vertical shaft impactor, powered by a 300 hp (224 kW) electric motor with soft start. All modules are pre-engineered, pre-built, pre-wired and pre-tested to operate on a small footprint with low civil engineering and operating costs to meet interchangeably with fast, easy on-site assembly and minimal wiring. Plus, the modules and components can be easily transported in standard 40' (12.2m) shipping containers or by road, enabling our customers to quickly mobilize on site to a different location.

Modular Range

Model	Main Components	Motor Drive	Weight lbs (kg)
MV2000	2000 VSI Crusher, Galvanized Modular Structure, steps, and guardrails	Single or Dual	45,050 lbs (20,435 Kg)

Note: Product color scheme represented are subject to change.

Bolts together on site, quick set up time with basic tools

4 plant E Stops

Galvanized steel structure including oversize walkways stairs and guard rails

Repositionable stairs to 4 different locations

Platform Access to Lid Lifter Valve

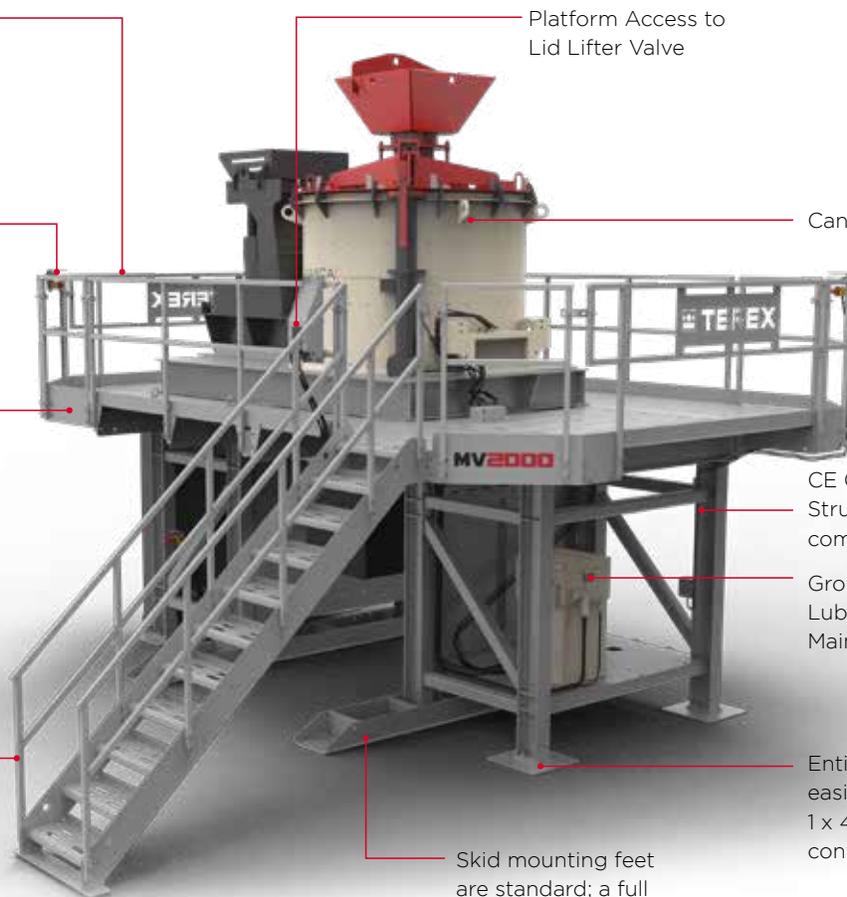
Canica 2000 VSI

CE Compliant Structure & components

Ground Level Lube Unit for Easy Maintenance

Entire module easily transports in 1 x 40 and 1 x 20 ft container

Skid mounting feet are standard; a full length skid base is available



Canica® Services

Proven Success, Global Reach

A complete range of services. Original spare and wear parts. Customizable solutions to meet your exact needs. Outstanding technical expertise and support.

This is what Canica® delivers to businesses – and what it delivers to businesses throughout the world via our global distribution network, service and distribution facilities and regional warehouses.

Spare and Wear Part Support

Our OEM parts help maintain and enhance the performance of your equipment – and you can count on us to get you the spare and wear parts you need, when you need them.

Canica® parts are manufactured according to exacting specifications, using high-quality materials, tools and techniques. By using genuine parts you are helping to ensure the maximum performance and longevity of your machines.

A Shared Focus

We understand your key focus is delivering your operational and financial goals. We share that focus: it's how we both measure success.

By combining our global service network and proven, in-depth industry knowledge with your operational expertise we're able to provide you with the right solution to deliver a quality end product – with increased productivity.

Field Services

We offer a comprehensive set of field services to meet your maintenance, repair and refurbishment needs – which means you get a cost-effective alternative to purchasing new or replacement equipment.

Our experienced field service and distribution network are available to you on site or at our global service facilities. We can repair broken or damaged equipment to like-new condition and restore worn or irreplaceable equipment to perfect operating condition – which minimizes costly downtime for you.

Terex® Financial Services

At Canica® we not only offer a strong and broad product portfolio. We also offer the means for customers to purchase the equipment they need in order to meet their operational and profitability goals.

Terex® Financial Services (TFS) is a globally trusted resource that is able to leverage its knowledge of Terex® equipment plus its marketplace expertise to provide a unique tailored solution for customers.

Terex® Financial Services at a Glance

- Providing cost-effective financial solutions to thousands of customers across the globe
- A comprehensive suite of financial solutions tailored to fit individual needs
- Dedicated and knowledgeable team with global reach, focused on customer solutions.

Combining our global service network and deep industry knowledge with your operational expertise ensures that we provide the best solutions...



North America

3900 Fountains Blvd NE, Suite 101
Cedar Rapids, IA 52411
Tel: +1 319 363 3511 or +1 800 821 5600
Fax: +1 319 399 4871

212 South Oak Street
Durand, MI 48429
Tel: +1 989 288 3121
Fax: +1 989 288 4113

Europe, Russia & Africa

Farlough Road, Dungannon
Northern Ireland. BT71 4DT
Tel: +44 (0) 28 8744 0795

Central Asia, Turkey & North Africa Region

Mehmet Akif Ersoy Mah.287.SkNo 1/D
06172 Yenimahalle - Ankara Turkey
Tel: +90 312 354 90 90

Australia

Melbourne & Victoria
133 Logis Boulevard
Dandenong South, VIC 3175
Tel: +61 3 8794 4100
Fax: +61 3 9706 7810

Sydney & New South Wales
114 Hassall Street
Wetherill Park, NSW 2164
Tel: +61 2 9604 6524
Fax: +61 2 9604 9368

Brisbane & Queensland
585 Curtin Avenue East
Eagle Farm, QLD 4009
Tel: +61 7 3630 0866
Fax: +61 7 3630 1097

Perth & Western Australia
4 Miles Road
Kewdale, WA 6105
Tel: +61 8 6254 4100
Fax: +61 8 9350 5534

www.terexmps.com

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DEPARTMENT OF PLANNING & ZONING
PLANNING | ZONING | LAND PRESERVATION | FOREST CONSERVATION | GIS

August 17, 2023

Laurel Sand & Gravel Inc.
Atten: Collin Sumpter
P.O. Box 850
Laurel, MD 20725

RE: Beaver Creek Quarry 10101 Mapleville Road, Hagerstown, MD; Tax Identification #16007013

Dear Mr. Sumpter,

In response to your request for information regarding the above referenced property, we have researched our files and present the following:

- The subject property is part of the IM-Industrial Mineral District that was established on the property and is governed by Article 15 of the Washington County Zoning Ordinance. Article 15 and the Table of Land Use is attached for review. The Table of Land Use L. Mining states: Mineral extraction, mineral processing, mineral-related uses, and mineral-based manufacturing is a principal permitted use. Article 15, Section 15.4 outlines the requirements for initiation or expansion of operations in existing IM Districts.

This information was researched on August 17, 2023 by the undersigned per request and as a public service. The undersigned certifies that the above information contained herein is believed to be accurate and is based upon or relates to the information supplied by the requestor. The Authority assumes no liability for errors or omissions. All information was obtained from public records which may be inspected during regular business hours.

Sincerely,

Katie Rathvon
Zoning Coordinator

747 Northern Avenue | Hagerstown, MD 21742 | P: 240.313.2430 | F: 240.313.2431 | TDD: 7-1-1

Section 15.4 Initiation or Expansion of Operations in Existing IM Districts

Application for the initiation or expansion of operations within an existing IM District shall be accompanied by a complete copy of the application, including all supporting documentation, submitted to the State Water Resources Administration except for those elements identified as proprietary and confidential by State regulations. The application shall include plans for reclamation showing the projected timing and sequence of excavation, the proposed method of site reclamation, the resultant landform, and the vegetative cover. The site plan submitted with the application shall indicate methods of compliance with the standards of Sections 4.11 and 15.5. The application shall also conform to the requirements of Section 15.3(f) (g) and (h).

Section 15.5 Performance Standards for Site Plan Review¹⁰⁵

- (a) A person engaging in mineral extraction activities shall locate and conduct those activities on the site in a way that minimizes visual, auditory and other sensory effects on surrounding property owners.
- (b) Extractive operations shall be restricted to the hours of 6:00 a.m. to 7:00 p.m. Monday through Friday, and 8:00 a.m. to 7:00 p.m. Saturday.

Processing operations and non-extractive related activities (i.e., administrative, maintenance, repair), may be carried out on the premises beyond the allowed hours of operation, providing the sound level does not exceed the maximum acceptable limit allowed by the State of Maryland.

On Sundays and during atypical business hours, extractive operations will be allowed if expressly permitted by the Zoning Administrator because of an operating emergency or because of local or state need.

- (c) Any building or structure housing power-driven or power-producing machinery or equipment shall be located at least four hundred (400) feet from any lot in a RR, RS, RU, RM or RV District or any lot occupied by a dwelling, school, church, or institution for human care not located on the same lot as the said use.
- (d) No excavation shall take place, nor shall the slope of the natural land surface be altered as a result of such excavation, nor shall the storage of materials take place nearer than thirty feet to any property line or road right of way line. Security fencing and screen planting may be located within this area. This setback requirement shall not apply where the adjoining property is zoned IM.
- (e) Extraction operations shall be confined to areas of a minimum of one hundred (100) feet from all adjoining property lines in any "A", "EC", "P", "RB", or "B" District or any public road right-of-way, or a minimum of two

¹⁰⁵

Revision 15, Section 15.5(c) (e) amended 9/19/06 (RZ-06-007/ORD-06-09)

hundred (200) feet from all adjoining property lines in any RR, RS, RU, RM or RV district and two hundred (200) feet from any then existing principal building on an adjoining property.

- (f) Screen planting shall be required where mineral extraction and related activities are visible from adjacent residential, commercial or industrial structures or any public road. Plant materials used in the screen planting shall be of such species, size, and number as to minimize objectionable views, dust, and noise. Whenever topography, existing vegetation, or other existing natural barrier makes screen planting either unnecessary or impractical, the Planning Commission may waive this requirement. Any permanent berms shall be designed in such a way as to have a vegetative cover.
- (g) Entrance or haul roads providing access to the site for transportation of mineral products or heavy equipment shall be maintained in such a manner as to minimize dust.
- (h) All extraction areas, active or inactive, shall be fenced and posted with appropriate "warning" signs where: (1) water can pool more than one and one-half (1½) feet in depth, and (2) the excavation of slopes is steeper than one (1) foot vertical to two (2) feet horizontal. Other extraction areas, active or inactive, not meeting the foregoing depth and slope standards may be required to be fenced at the discretion of the Planning Commission.¹⁰⁶
- (i) Vibration Control

Machines or blasting operations that cause vibration shall be permitted, but in no case may vibrations produce a peak particle velocity of more than two (2) inches per second measured at the nearest existing principal building on an adjacent lot. The mine operator may be required to maintain a record of each of the three components of ground movement (vertical, horizontal, and longitudinal) for each shot or blast event. These records shall be made available to the local governing body upon request.
- (j) Storage of Materials

Material storage shall comply with Section 4.12(g).

Section 15.6 Prohibited Uses in "IM" Zone

Kilns used or modified for the purpose of incinerating hazardous waste or controlled hazardous substances or recycling hazardous waste for fuel are prohibited. Facilities or structures for the purpose of receiving, storing, or processing hazardous waste or controlled hazardous substances for the purpose of incineration in kilns on site are prohibited.

- (c) Minimum topographic information sufficient to determine surface drainage patterns and principal drainage areas.
- (d) Adjacent land uses and zoning and the location of adjacent structures on adjacent lots within 1,000 feet of the property line.
- (e) The location of adjacent geologic formations and other environmentally significant features.
- (f) The proposed routes to be used for hauling mineral products from the site on public roads to their first intersection with a highway which is classified as major collector or above in the Washington County Highway Plan.
- (g) An estimate of average daily truck traffic from the site on roads identified in paragraph (f) and the average gross weight of each truck.
- (h) County roads identified in accordance with paragraph (f) shall be adequate in pavement thickness, roadway width, and alignment to accommodate the truck traffic from the extraction operation. The proposed routes, once identified and approved by the Commission, may not be changed without approval of the Commission subject to the same standards as the original review. As part of the site plan approval process, the County may require a performance bond from the applicant where the resulting vehicular traffic may result in damage to County roads.
- (i) The applicant, unless otherwise determined by an existing study, shall provide evidence as to what effect the proposed use will have on the groundwater supply and quality of all adjoining properties including determination of a zone of dewatering influence.
- (j) The applicant shall provide a contingency plan for well replacement whenever a public water supply surface intake, public water supply well or spring, or private water supply well or spring is within the zone of dewatering influence as designated by the State.
- (k) The applicant shall provide a plan for reclamation of the site once mining has ceased. Reclamation plans should be designed to provide for suitable and appropriate re-use related uses, which exist or are planned for the surrounding area. The reclamation plan shall consider providing for use of any water filled pits as a public water supply. Other proposed land uses for the reclaimed site shall be detailed.

The Board of County Commissioners may, upon receiving a recommendation from the Planning Commission, restore the land to its previous classification upon written request from the landowner and upon successful completion of the required reclamation without another public hearing.

ARTICLE 15 "IM" INDUSTRIAL, MINERAL DISTRICT¹⁰⁴

Section 15.0 Purpose

The purpose of the Industrial, Mineral District is to provide for high volume mineral extraction in the Rural Policy Area of the County. It is the intent of this Ordinance that Industrial, Mineral Districts be protected from encroachment by incompatible land uses and that new or expanded "IM" Districts be compatible with existing adjacent land uses.

Section 15.1 Principal Permitted Uses and Accessory Uses

See Table of Land Uses [Section 3.3, Table No. 3.3(1)]

Section 15.2 Special Exceptions

Any other use the Board of Appeals finds is functionally similar to any permitted use or special exception listed in the Article. The Board of Appeals shall not grant any special exception that is inconsistent with the purpose set for the district.

Section 15.3 Establishing a New IM District

The Industrial Mineral District is a floating zone established for the rural areas of the County. A new "IM" District may not be established within the adopted urban growth area, town growth areas, or rural villages.

The approval process for establishing a new "IM" District shall be in accordance with Article 27, except that neither a change in the character of the neighborhood nor a mistake in the original zoning classification shall be a prerequisite to "IM" District approval.

In its deliberation on an application for an "IM" District, the Planning Commission shall consider the purpose of the "IM" District, the applicable policies of the Comprehensive Plan, the compatibility of the proposed district with the adjacent lands, and the effect of the mineral extractive operations on public roadways. The evaluation of these criteria shall result in findings of fact as part of a recommendation on the application to the Board of County Commissioners.

At the time of application for rezoning, the applicant shall submit a concept plan that includes:

- (a) A vicinity map at 1"=2000' showing the location of the proposed "IM" District in relation to its surroundings.
- (b) The boundary, acreage and current zoning of the tract.

A(R)-Agriculture (Rural)
 EC-Environmental Conservation
 P-Preservation
 RV-Rural Village
 RB-Rural Business
 IM-Industrial Mineral

LAND USES	A(R)	EC	P	RV	RB	IM	Intensity of Use
L. Mining							
Mineral extraction, mineral processing, mineral-related uses, and mineral-based manufacturing.	N	N	N	N	N	P	N/A
M. Other Services¹¹							
Blacksmith and/or farrier service	A	A	A	N	P	N	LOW
Beauty and barber shops; Beauty Parlors and Barber Shops in residence shall not require a site plan or any additional lot area, lot width, or setbacks over that which is required for the subject dwelling as specified in the district the residence is located or as modified in Article 23.	P	P	P	P	P	N	LOW
Car washes	N	N	N	N	P	N	MODERATE
Cemeteries, mausoleums and memorial gardens	SE	SE	SE	SE	N	N	N/A
Churches, parish houses and other places of worship	P	P	P	P	N	N	N/A
Crematories	SE	SE	SE	SE	P	N	LOW
Farms for the principal use of raising animals for experimental or other purposes, such as rats, rabbits, mice, monkeys and the like, and fur farms, provided such use shall be subject to three (3) times the distance requirements specified in Section 4.9	SE	SE	SE	N	P	N	LOW
Kennels with or without runways and/or exercise areas, provided such use shall be subject to two (2) times the distance requirements specified in Section 4.9	SE	SE	SE	N	N	N	N/A
Offices, business and professional	N	N	N	N	P	N	LOW
Facilities dealing with the field of agriculture products.	P	P	P	P	N	N	N/A
N. Professional and Scientific and Technical Services							
Penal and correctional institutions including jails	N	N	N	N	P	N	MODERATE
Photography studios	N	N	N	N	P	N	LOW
Shoe repair shops/Tailor Shops	N	N	N	N	P	N	LOW
Small engine related equipment repair and maintenance to include lawn mowers.	N	N	N	N	P	N	LOW
Veterinary clinics with or without runways; provided such use be subject to two (2) times the distance requirements in Section 4.9.	N	N	N	N	P	N	MODERATE

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Revision 17, Table 3.3(1)M. amended (RZ-12-004/ORD-2013-03)

P-Permitted
 SE-Special Exception
 A-Accessory
 N-Not Permitted

A(R)-Agriculture (Rural)
 EC-Environmental Conservation
 P-Preservation
 RV-Rural Village
 RB-Rural Business
 IM-Industrial Mineral

LAND USES	A(R)	EC	P	RV	RB	IM	Intensity of Use
Temporary or Seasonal Retail - provided that the area devoted to the use be limited to less than 2,500 sq. ft. and that the use on the premises occurs for at least 30 days and does not exceed 6 months within a calendar year ¹²	SE	SE	SE	SE	P	N	LOW
Q. Transportation and Warehousing							
Airports, private or landing fields, and heliports, subject to the Provisions of Article 21.	SE	SE	SE	N	N	N	N/A
Commercial parking lot or garage	N	N	N	N	P	N	LOW
Contractor's equipment and Storage yards	SE	SE	SE	SE	P	N	MODERATE
Explosives Storage	SE	SE	SE	N	N	N	N/A
Mini-warehouses excluding outside storage or outside uses	N	N	N	N	P	N	LOW
Mixed use buildings including, warehouses, wholesale and retail sale	N	N	N	N	P	N	MODERATE
Warehouses	N	N	N	N	P	N	MODERATE
R. Utilities¹³							
Commercial Communications Towers, subject to the requirements of Section 4.22	SE	SE	SE	N	N	N	N/A
Public utility buildings, structures, or uses including radio, television, and other communication facilities not considered Essential Utility Equipment, as defined in Article 28A	SE	SE	SE	SE	P	N	LOW
Solar Energy Generating Systems, in accordance with Section 4.26	SE	SE	SE	N	N	SE	LOW

¹² Revision 17, Table No. 3.3(1)P. amended and eff. 2/26/13 (RZ-12-004/ORD-2012-03)
¹³ Revision 17, Table No. 3.3(1)R. amended 10/4/11 (RZ-11-003/ORD-2011-21)

P-Permitted
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LAND USES	A(R)	EC	P	RV	RB	IM	Intensity of Use
O. Public Administration							
Public buildings, structures, and properties of public service-type, including fire, ambulance or rescue services	P	P	P	P	P	N	N/A
P. Retail and Wholesale Trade							
Alcoholic beverage package stores	N	N	N	N	P	N	HIGH
Appliance stores	N	N	N	N	P	N	LOW
Auction House/Flea Market	SE	SE	SE	SE	P	N	LOW
Auto Sales and services	N	N	N	N	P	N	HIGH
Automobile parts and accessories	N	N	N	N	P	N	LOW
Bakery shops	P	P	P	P	P	N	LOW
Candy stores	P	P	P	P	P	N	LOW
Clothing stores	N	N	N	SE	P	N	LOW
Convenience stores	N	N	N	N	P	N	MODERATE
Dairy product stores	P	P	P	SE	A	N	N/A
Florist shops	P	P	P	P	P	N	LOW
Furniture and upholstery stores	SE	SE	SE	SE	P	N	LOW
Garden shops, nurseries, and greenhouses	P	P	P	P	P	N	LOW
Gift or jewelry shops	N	N	N	SE	P	N	MODERATE
Grocery stores	N	N	N	SE	P	N	MODERATE
Hardware stores	N	N	N	SE	P	N	LOW
Home Centers	N	N	N	N	P	N	MODERATE
Laundry or dry cleaning	N	N	N	P	P	N	LOW
Livestock sales, yards, and buildings subject to a minimum of ten (10) acres being provided; and provided such building or use shall be subject to four (4) times the distance requirements specified in Section 4.9 and a front yard of four hundred (400) feet is provided for any use pertaining thereto	N	N	N	N	P	N	LOW
Machinery dealerships and other businesses providing support for agricultural work	SE	SE	N	SE	P	N	LOW
Meat markets	A	A	A	N	P	N	LOW
Outdoor/Recreational outfitters	SE	SE	SE	SE	P	N	MODERATE
Pet shops	N	N	N	SE	P	N	LOW
Pharmacies	N	N	N	SE	P	N	LOW
Printing, blue printing, photocopying, and similar reproduction services	N	N	N	SE	P	N	LOW

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LAND USES	A(R)	EC	P	RV	RB	IM	Intensity of Use
Nursing/Convalescent Homes.	N	N	N	N	P	N	MODERATE
Transitional or Sheltered Care Facility, not to include Assisted Living Facilities.	N	N	N	N	P	N	MODERATE
J. Housing							
Dwelling unit in conjunction with a principal non-residential use	SE	SE	SE	SE	P	N	LOW
Dwellings, semi-detached	SE	SE	SE	P	N	N	N/A
Dwellings, single family	P	P	P	P	N	N	N/A
Dwellings, two-family	P	P	P	P	N	N	N/A
Home, occupation	A	A	A	A	N	N	N/A
Home, resident business	SE	SE	SE	SE	N	N	N/A
Mobile Homes	P	P	P	N	N	N	N/A
Model Homes	P	P	P	P	N	N	N/A
Temporary residential sales office	P	P	P	P	N	N	N/A
K. Manufacturing¹⁰							
Abattoirs, slaughterhouses, stockyards	N	N	N	N	P	N	HIGH
Brewery, Farm with a valid Class 8 manufacturing license	P	P	P	P	P	N	MODERATE
Brewery, Commercial with a valid Class 5 manufacturing license	SE	SE	SE	SE	P	N	MODERATE
Carpentry or woodworking shops	SE	SE	SE	SE	P	N	HIGH
Concrete and ceramic products manufacture, including ready-mixed concrete plants	N	N	N	N	P	P	HIGH
Flour mill, grain milling or drying	N	N	N	N	P	N	HIGH
Food processing and packing plants; provided such use shall be located two (2) times the distance requirements specified in Section 4.9	SE	SE	SE	N	P	N	HIGH
Grain elevators, grain bins, and feed mills, primarily for wholesale use.	P	SE	SE	N	P	N	MODERATE
Machine Shops	SE	SE	SE	SE	P	N	MODERATE
Recycling facilities	N	N	N	N	P	N	HIGH
Sawmills & Lumber Drying	SE	SE	SE	N	P	N	MODERATE
Sawmills, Temporary	P	P	P	N	N	P	HIGH
Wind mill farms	SE	SE	SE	SE	N	N	N/A
Wineries, Farm with a valid Class 4 manufacturing license	P	P	P	P	P	N	MODERATE
Wineries, Commercial with a valid Class 3 manufacturing license	SE	SE	SE	SE	P	N	MODERATE

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Revision 17 Table 3.3(1)K. amended 4/23/13 (RZ-12-002/ORD-2013-13)

P-Permitted
 SE-Special Exception
 A-Accessory
 N-Not Permitted

(R)-Agriculture (Rural)
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LAND USES	A(R)	EC	P	RV	RB	IM	Intensity of Use
Sanitary landfills, provided such use shall be two (2) times the distance specified in Section 4.9.	N	N	N	N	P	N	N/A
D. Agriculture, Forestry, Fishing and Hunting							
Forests and Wildlife preserves, fish hatcheries and similar conservation areas	P	P	P	P	P	P	LOW
Forestation	P	P	P	P	P	P	LOW
Produce stands/Farmers Market	SE	SE	SE	SE	P	N	MODERATE
Roadside stands	A	A	A	A	A	N	MODERATE
Agricultural uses, as defined in Article 28A, including animal husbandry facilities as defined in Article 28A which shall be subject to the requirements set forth in Article 22 Division IX	P	P	P	P	P	P	LOW
E. Arts, Entertainment, and Recreation							
Amusement parks	N	N	N	N	P	N	HIGH
Bowling alleys	N	N	N	N	P	N	HIGH
Circus, carnival, dog and horse shows or similar transient enterprise; provided, that such use shall not exceed ten (10) days at any one time, and which does not include any permanent structure	P	P	P	P	A	N	MODERATE
Clubs, Country	SE	SE	SE	N	P	N	MODERATE
Clubs, fraternities, lodges, or similar organizations, not conducted as a gainful business, provided any buildings or structures are located subject to the distance requirements specified in Section 4.9	SE	SE	SE	SE	P	N	MODERATE
Recreation Centers	SE	SE	SE	SE	P	N	MODERATE
Commercial swimming pools	N	N	N	N	P	N	HIGH
Fairgrounds and race tracks or courses for the conduct of seasonal or periodic meets of horses, dogs, aircraft, automobiles, motorcycles and the like; provided such use shall be subject to three (3) times the distance requirements specified in Section 4.9	N	N	N	N	P	N	HIGH
Golf courses	N	N	N	N	P	N	MODERATE
Golf driving ranges	N	N	N	N	P	N	MODERATE
Indoor firing range	SE	SE	SE	SE	P	N	MODERATE
Marinas, boat rentals, docks, piers and wharves	SE	SE	SE	SE	P	N	MODERATE
Museum, arts center or tourism entertainment facility	N	N	N	N	P	N	MODERATE

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Table No. 3.3(1)^{6 7}
TABLE OF LAND USE REGULATIONS
(RURAL AREA USES)

LAND USES	A(R)	EC	P	RV	RB	IM	Intensity of Use
A. Accessory							
Guest house in an accessory building	SE	SE	SE	SE	N	N	N/A
Private stables as defined in Article 28A shall be subject to the requirements set forth in Article 4 Section 4.13	A	A	A	A	A	N	N/A
Swimming pools, tennis and other similar courts and other recreational facilities, when accessory to a residence	A	A	A	A	A	N	N/A
Uses and structures customarily accessory and incidental to any principal permitted use or special exception, including business signs pertaining to "use on the premises" (provided, that such signs are located as regulated in Section 22.2.), and a single-family dwelling unit in the same building with a principal use	A	A	A	A	A	A	N/A
B. Accommodation and Food Services^{8 9}							
Banquet/Reception Facilities	SE	SE	SE	SE	P	N	HIGH
Bed and Breakfast; up to five (5) guest rooms	A	A	A	SE	P	N	MODERATE
Boarding or rooming houses	SE	SE	SE	P	P	N	MODERATE
Conference Centers	SE	SE	SE	SE	P	N	HIGH
Country Inn	SE	SE	SE	SE	P	N	
Hotels and apartment hotels, including motels	N	N	N	N	P	N	MODERATE
Restaurants with drive-in, drive thru service	N	N	N	N	P	N	MODERATE
Restaurants without drive-in, drive-thru service	N	N	N	N	P	N	MODERATE
Resorts	N	N	N	N	P	N	HIGH
Taverns	N	N	N	N	P	N	HIGH
C. Administrative and Support and Waste Management and Remediation Services							
Building and dwelling services as defined in Article 28A	N	N	N	N	P	N	MODERATE
Landscaping Contractor	P	P	P	P	P	N	MODERATE

⁶ Table No. 3.3(1) amended 9/19/06 (RZ-06-007/ORD-06-09)
⁷ Table No. 3.3(1) amended 8/4/09 (RZ-09-001/ORD-09-08)
⁸ Revision 17, Table No. 3.3(1)B. amended 4/23/13 (RZ-12-002/ORD-2013-13)
⁹ Revision 18, Table No. 3.3(1)B. amended 1/16/18 (RZ-17-007/ORD-2018-03)

P-Permitted
 SE-Special Exception
 A-Accessory
 N-Not Permitted

A(R)-Agriculture (Rural)
 EC-Environmental Conservation
 P-Preservation
 RV-Rural Village
 RB-Rural Business
 IM-Industrial Mineral

LAND USES	A(R)	EC	P	RV	RB	IM	Intensity of Use
Riding academies, livery stables, subject to the distance requirements specified in Section 4.9	P	P	P	P	P	N	MODERATE
Taxidermy Service	P	P	P	P	P	N	LOW
Theaters	N	N	N	N	P	N	HIGH
Theaters, Outdoor; provided a minimum of five (5) acres is maintained; and provided such use shall be subject to three (3) times the distance requirements of Section 4.9	N	N	N	N	P	N	HIGH
Trap, skeet, rifle, or archery ranges, including gun clubs; provided such use shall be five (5) times the distance requirements specified in Section 4.9 and all safety standards of county, state and federal agencies are observed	SE	SE	SE	N	P	N	HIGH
Travel trailer parks/Camp grounds, subject to the provisions of Section 22.5 and provided such use shall be three (3) times the distance requirements specified in Section 4.9	SE	N	N	SE	P	N	HIGH
F. Construction							
Surface grading, removal of top soil, shale or similar material in preparing the property for development; but not including open pit quarrying or mineral processing on site; subject to the performance standards in Section 4.12. A grading plan containing the information required in Section 15.3 showing the existing and proposed surface contours and providing for the re-vegetation of the property shall be submitted to the Planning Commission for approval	P	P	P	P	N	N	N/A
G. Educational Services							
Public or private college, trade and technical institutions	SE	N	N	N	P	N	HIGH
Schools – public or private – elementary through high	P	P	P	P	N	N	HIGH
H. Finance and Insurance							
Banks and financial institutions	N	N	N	N	P	N	MODERATE
I. Health Care and Social Assistance							
Assisted Living Facilities	N	N	N	N	P	N	MODERATE
Clinics with or without a pharmacy	N	N	N	N	P	N	MODERATE
Comprehensive Care Facilities	N	N	N	N	P	N	HIGH
Day-Care, Adult & Child centers, including Nursery Schools.	N	N	N	N	P	N	MODERATE
Day-care, In home Family/Child Care Facilities	P	P	P	P	N	N	N/A

P-Permitted
 SE-Special Exception
 A-Accessory
 N-Not Permitted

Washington County Zoning Review Map



8/16/2023, 4:09:28 PM

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Streets	Address	Subdivisions
County Road	Single Family	Subdivision
Private Road	Not Constructed	Plats
State Road	Misc. Structure	
Floodplain	Cell Tower	
A	Industrial	
Historic Points	Parcels	



Washington County Planning Department, MD iMAP, DoIT

MARYLAND DEPARTMENT OF THE ENVIRONMENT

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

**SUPPLEMENT TO
DOCKET #13-23**

COMPANY: Laurel Sand & Gravel, Inc.

LOCATION: Laurel Sand & Gravel, Inc. – Beaver Creek Quarry, 10101 Mapleville Rd, Hagerstown, MD 21740

APPLICATION: One (1) 250 ton per hour crusher and three (3) conveyors, powered by electricity, at an existing crushing and screening plant.

<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. on July 26, 2023, for one (1) 250 ton per hour crusher and three (3) conveyors, powered by electricity, at an existing crushing and screening plant. The proposed installation will be located at Laurel Sand & Gravel, Inc. – Beaver Creek Quarry, 10101 Mapleville Road, Hagerstown, MD 21740.

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 #13-23 at the following link:

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

In accordance with HB 1200/Ch. 588 of 2022, the applicant provided an environmental justice (EJ) Score for the census tract in which the project is located using the Maryland EJ Screening Tool. The EJ Score, expressed as a statewide percentile, was shown to be 12.92, which the Department has verified. This score considers three demographic indicators, minority population above 50%, poverty rate above 25% and limited English proficiency above 15%, to identify underserved communities, and multiple environmental health indicators to identify overburdened communities. The Department's review of the environmental and socioeconomic indicators contributing to that EJ score is included in the tentative determination that is available for public inspection.

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. A requested public hearing will be held virtually using teleconference or internet-based conferencing technology unless a specific request for an in-person public hearing is received. 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 directed to the attention of Ms. Shannon Heafey, Air Quality Permits Program by email to shannon.heafey@maryland.gov or by mail to the Air and Radiation Administration, 1800 Washington Boulevard, Baltimore, Maryland 21230.

Further information may be obtained by calling Ms. Shannon Heafey at 410-537-4433.

Christopher R. Hoagland, Director
Air and Radiation Administration

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

**FACT SHEET AND TENTATIVE DETERMINATION
LAUREL SAND & GRAVEL, INC. – BEAVER CREEK QUARRY**

PROPOSED INSTALLATION OF ONE (1) CRUSHER AND THREE (3) CONVEYORS

I. INTRODUCTION

The Maryland Department of the Environment (the "Department") received an application from Laurel Sand & Gravel, Inc. – Beaver Creek Quarry on July 26, 2023 for a Permit to Construct for one (1) Canica 2000 VSI crusher and three (3) conveyors. The proposed installation will be located at 10101 Mapleville Rd., Hagerstown, MD 21740.

A notice was placed in The Herald-Mail on December 8, 2023 and December 11, 2023 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

Laurel Sand & Gravel, Inc. – Beaver Creek Quarry operates an aggregate crushing and screening facility in Washington County. The facility is currently comprised of:

ARA Registration Number	Description	Date of Installation
043-0121-6-0402	<p>One (1) aggregate crushing and screening plant with an annual average throughput of 600 tons per hour, equipped with wet suppression systems and consisting of:</p> <ul style="list-style-type: none"> • One (1) Terex JS-3750 primary jaw crusher; • Two (2) secondary cone crushers (#9 4-1/4' Innotech and Nordberg HP400); • One (1) Deister 6' x 16' TD screen; • One (1) Deister 6' x 16' HF screen; • One (1) Deister 8' x 24' 4D finish screen; • One (1) FMC 6' x 12' SD rinse screen; • One (1) John Deere diesel generator rated at 323 horsepower; • One (1) fine materials washer; • Twenty-four (24) conveyors; • Two (2) feeders; and • Various storage bins. <p><u>Note:</u> The one (1) Deister 6' x 12' SD rinse screen and one (1) fine materials washer are wet materials processing equipment and are not required to be permitted by ARA.</p>	1998 Modified in 1999, 2003, 2016, 2019, and 2023
043-0121-6-0403	<p>One (1) SSI portable screening plant operating at 600 tons per hour, equipped with wet suppression systems and consisting of:</p> <ul style="list-style-type: none"> • One (1) Deister 6' x 16' DD screen; • One (1) feeder; • Four (4) conveyors; and • Two (2) portable stacking conveyors. 	2018 Modified in 2019, 2020

B. Proposed Installation

The facility plans to install a new Canica 2000 VSI crusher and three (3) associated conveyors to the stationary plant (ARA Registration No. 043-0121-6-0402). The equipment will be powered by electricity, and wet suppression systems will be used in order to control fugitive dust.

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 the 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 26.11.06.03C 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.
- (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 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 Washington County complies with the NAAQS for ozone, particulate matter, carbon monoxide, nitrogen dioxide, sulfur dioxide, and lead.

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)¹. 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. ENVIRONMENTAL JUSTICE ANALYSIS

The concept behind the term environmental justice (EJ) is that regardless of race, color, national origin, or income, all Maryland residents and communities should have an equal opportunity to enjoy an enhanced quality of life. How to assess whether equal protection is being applied is the challenge.

Communities surrounded by a disproportionate number of polluting facilities puts residents at a higher risk for health problems from environmental exposures. It is important that residents who may be adversely affected by a proposed source be aware of the current environmental issues in their community in order to have meaningful involvement in the permitting process. Resources may be available from government and private entities to ensure that community health is not negatively impacted by a new source located in the community.

Extensive research has documented that health disparities exist between demographic groups in the United States, such as differences in mortality and morbidity associated with factors that include race/ethnicity, income, and educational attainment.

The Maryland General Assembly passed HB 1200, effective October 1, 2022, that adds to MDE's work incorporating diversity, equity and inclusion into our mission to help overburdened and underserved communities with environmental issues. In accordance with HB 1200/Ch, 588 of 2022, the applicant provided an environmental justice (EJ) Score for the census tract in which the proposed source is located using the Maryland EJ Screening Tool. The EJ Score, expressed as a statewide percentile, was shown to be 12.92 which the Department has verified. This score considers three demographic indicators, minority population above 50%, poverty rate above 25% and limited English proficiency above 15%, to identify underserved communities. Multiple environmental health indicators are used to identify overburdened communities.

To account for other sources of pollution surrounding the proposed source, the Department conducted an additional EJ Score analysis to evaluate the impact of other sources located within 1 mile of the proposed source. The highest EJ Score in a census tract located within 1 mile of the proposed source, expressed as a statewide percentile, was shown to be 29.

An EJ Score of 29 indicates that the proposed installation is located in an area that is not

¹ 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.

disproportionately impacted by sources of pollution or at a higher risk of health problems from environmental exposures than other areas in Maryland. The Department has reviewed the air quality impacts from this proposed installation and has determined that the proposed installation will meet all applicable air quality standards.

VI. 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 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 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.

VII. 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, the 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.

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

POLLUTANT	PROJECTED MAXIMUM EMISSIONS FROM PROPOSED INSTALLATION	
	(lbs/day)	(tons/year)
Particulate Matter (PM ₁₀)	6.58	0.86

**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 ³)	BACKGROUND AMBIENT AIR CONCENTRATIONS (µg/m ³)*	NATIONAL AMBIENT AIR QUALITY STANDARDS (NAAQS) (µg/m ³)
Particulate Matter (PM ₁₀)	24-hr max → 119	24-hr max. → 23	24-hr max. → 150

*Background concentrations were obtained from Maryland air monitoring stations as follows:
PM₁₀ → 3900 Hillen Rd. Monitor in Baltimore County

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

TOXIC AIR POLLUTANTS	SCREENING LEVELS (µg/m ³)	PROJECTED WORST-CASE FACILITY-WIDE EMISSIONS (lbs/hr)	PREDICTED MAXIMUM OFF-SITE GROUND LEVEL CONCENTRATIONS (µg/m ³)
Crystalline Silica	1-hour → None 8-hour → 0.25 Annual → None	0.00036	1-hour → None 8-hour → 0.134 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

Wes Moore

Serena McIlwain

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:

February 14, 2024

PERMIT FEE:

\$2000

EXPIRATION DATE:

In accordance with COMAR 26.11.02.04B

LEGAL OWNER & ADDRESS

Laurel Sand & Gravel, Inc.
P.O. Box 850
Laurel, MD 20725
Attention: Mr. Collin Sumpter, Resource
Manager

SITE

Laurel Sand & Gravel, Inc. – Beaver Creek
Quarry
10101 Mapleville Road
Hagerstown, MD 21740
AI # 21249

SOURCE DESCRIPTION

Crushing and Screening Facility.

This permit authorizes the installation of one (1) Canica 2000 VSI crusher and (3) associated conveyors.

This permit supersedes all previous permit to construct issued to ARA Premises No. 043-0121.

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

Program Manager

Director, Air and Radiation Administration

**LAUREL SAND & GRAVEL, INC.
BEAVER CREEK QUARRY
PERMIT-TO-CONSTRUCT CONDITIONS
PREMISES No. 043-0121**

INDEX

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

This permit to construct is issued to cover the following registered installations:

ARA Registration Number	Description	Date of Installation
043-0121-6-0402	<p>One (1) aggregate crushing and screening plant with an annual average throughput of 600 tons per hour, equipped with wet suppression systems and consisting of:</p> <ul style="list-style-type: none"> • One (1) Terex JS-3750 primary jaw crusher; • Two (2) secondary cone crushers (#9 4-1/4' Innotech and Nordberg HP400); • One (1) Canica 2000 VSI crusher; • One (1) Deister 6' x 16' TD screen; • One (1) Deister 6' x 16' HF screen; • One (1) Deister 8' x 24' 4D finish screen; • One (1) FMC 6' x 12' SD rinse screen; • One (1) John Deere diesel generator rated at 323 horsepower; • One (1) fine materials washer; • Twenty-seven (27) conveyors; • Two (2) feeders; and • Various storage bins. <p><u>Note:</u> The one (1) Deister 6' x 12' SD rinse screen and one (1) fine materials washer are wet materials processing equipment and are not required to be permitted by ARA.</p>	<p>1998 Modified in 1999, 2003, 2016, 2019, and 2023</p>
043-0121-6-0403	<p>One (1) SSI portable screening plant operating at 600 tons per hour and consisting of:</p> <ul style="list-style-type: none"> • One (1) Deister 6' x 16' DD screen; • One (1) feeder; • Four (4) conveyors; and • Two (2) portable stacking conveyors. 	<p>2018 Modified in 2019, 2020</p>

**LAUREL SAND & GRAVEL, INC.
BEAVER CREEK QUARRY
PERMIT-TO-CONSTRUCT CONDITIONS
PREMISES No. 043-0121**

	<p><u>Note:</u> The two (2) portable stacking conveyors may be used as part of the stationary plant equipment on an as-needed basis.</p>	
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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 July 26, 2023 for the installation of one (1) Canica 2000 VSI crusher and three (3) associated conveyors.
 - (b) All valid Toxic Air Pollutant (TAP) Emissions Summaries and Compliance Demonstrations (Forms 5A & 5T) received at the Department prior to issuance of this permit.
 - (c) All valid Emission Point Data (Forms 5B & 5EP) received at the Department prior to issuance of this permit. This includes the four (4) Form 5EP applications received July 26, 2023 for the installation of one (1) Canica 2000 VSI crusher and three (3) associated conveyors.
 - (d) All valid applications for Internal Combustion Engines (Form 44) received at the Department prior to issuance of this permit.
 - (e) Supplemental Information including vendor specifications, process flow diagrams, material balance data, and emissions calculations received July 26, 2023.

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 Washington County Health

**LAUREL SAND & GRAVEL, INC.
BEAVER CREEK QUARRY
PERMIT-TO-CONSTRUCT CONDITIONS
PREMISES No. 043-0121**

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 under ARA Premises No. 043-0121.
- (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:

**LAUREL SAND & GRAVEL, INC.
BEAVER CREEK QUARRY
PERMIT-TO-CONSTRUCT CONDITIONS
PREMISES No. 043-0121**

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 for General Provisions, Subpart IIII for Stationary Compression Ignition Internal Compression Engines, and Subpart OOO for Nonmetallic Mineral Processing Plants.

All notifications required under 40 CFR 60, Subparts A, IIII, 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

United States Environmental Protection Agency
Region III, Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, PA 19103-2852

- (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:
 - (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

LAUREL SAND & GRAVEL, INC.
BEAVER CREEK QUARRY
PERMIT-TO-CONSTRUCT CONDITIONS
PREMISES No. 043-0121

- (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 26.11.06.03C 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.
- (e) COMAR 26.11.06.12, which states that a person may not construct, modify, or operate, or cause to be constructed, modified, or operated, a New Source Performance Standard (NSPS) source in a manner which results or will result in violation of the provisions of 40 CFR, Part 60.
- (f) COMAR 26.11.09.05E, which limits visible emissions from engines to 10 percent and 40 percent opacity during idle and operating modes, respectively. Exceptions to these opacity limits are as follows:
 - (i) The 10 percent opacity limit during idle mode does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system.
 - (ii) The 10 percent opacity limit during idle mode does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods:
 - (A) Engines that are idled continuously when not in service: 30 minutes; and
 - (B) All other engines: 15 minutes.
 - (iii) The 10 percent and 40 percent opacity limits do not apply while maintenance, repair, or testing is being performed by qualified mechanics.

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- (g) COMAR 26.11.09.07A(1), 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 Conditions

- (1) Except as otherwise provided in this part, the one (1) Canica 2000 VSI crusher and three (3) associated conveyors shall be constructed in accordance with specifications included in the incorporated applications.
- (2) The Permittee shall equip the one (1) Canica 2000 VSI crusher and three (3) associated conveyors with wet suppression systems in order to comply with the particulate matter handling requirements of COMAR 26.11.06.03C and D and 40 CFR 60, Subpart OOO.

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Part D – Operating and Monitoring Conditions

- (1) Except as otherwise provided in this part, all registered equipment at the facility, including the one (1) Canica 2000 VSI crusher and three (3) associated conveyors, shall be 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.
- (2) The Permittee shall maintain and operate all installations so as to assure full and continuous compliance with all applicable air pollution control regulations and permit conditions.
- (3) The following equipment is subject to the 40 CFR, Part 60, Subpart OOO requirements for affected facilities that commence construction, modification, or reconstruction on or after April 22, 2008:
 - (a) From the stationary plant (ARA Registration No. 043-0121-6-0402), the 6' x 16x Deister HF screen, one (1) Canica 2000 VSI crusher, and the three (3) conveyors associated with the Canica crusher.
 - (b) From the portable plant (ARA Registration No. 043-0121-6-0403), the 6' x 16' Deister DD screen, and the two (2) Edge MS-80 portable stacking conveyors.
- (4) Wet suppression systems shall be used as needed to comply with the fugitive particulate matter requirements of COMAR 26.11.06.03C and D, and the following opacity limits specified in 40 CFR, Part 60, Subpart OOO:
 - (a) For affected facilities at nonmetallic mineral processing plants constructed, modified, or reconstructed after August 31, 1983, but before April 22, 2008:
 - (i) No more than 15 percent opacity from each crusher; and
 - (ii) No more than 10 percent opacity from all other fugitive sources.
 - (b) For affected facilities at nonmetallic mineral processing plants constructed, modified, or reconstructed on or after April 22, 2008:

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- (i) No more than 12 percent opacity from each crusher; and
- (ii) 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]

- (5) 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 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. **[Reference: 40 CFR §60.674(b)]**
- (6) If the Permittee ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry - required under §60.676(b) must specify the control mechanism being used instead of the water sprays. **[Reference: 40 CFR §60.674(b)(2)]**
- (7) Soils contaminated with petroleum-based fuels, other volatile organic compounds, or metals shall not be processed at the facility.
- (8) The Permittee shall control fugitive dust on site, including from plant roads and stockpiles, by using water, approved chemical dust suppressants, or a combination of both.
- (9) The Permittee shall comply with the emission standards of 40 CFR §60.4201(a) for new non-emergency compression ignition (CI) engines with a displacement of less than 30 liters per cylinder. **[Reference: 40 CFR §60.4204(b) and 40 CFR §60.4201(a)]**
- (10) The Permittee must operate and maintain stationary CI internal combustion engines (ICE) that achieve the emission standards as required in 40 CFR §60.4204 and §60.4205 over the entire life of the engine. **[Reference: 40 CFR §60.4206]**
- (11) The Permittee shall only use diesel fuel that meets the following requirements for nonroad diesel fuel:
 - (a) Maximum sulfur content of 15 ppm;
 - (b) Cetane index or aromatic index as follows:

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- (i) A minimum cetane index of 40; or
 - (ii) A maximum aromatic content of 35 percent by volume.
[Reference: 40 CFR §60.4207(b) and 40 CFR §1090.305]
- (12) The Permittee must comply with the emission standards as specified in 40 CFR, Subpart IIII, and including the following:
- (a) Operate and maintain the stationary CI ICE and control device according to the manufacturer's emission-related written instructions;
 - (b) Change only those emission-related settings that are permitted by the manufacturer; and
 - (c) Meet the requirements of 40 CFR Parts 89, 94, and/or 1068, as they apply.
[Reference: 40 CFR §60.4211(a)]

Part E – Notifications and Testing

- (1) The Permittee shall submit written or electronic notification to the Department of the initial startup date of the one (1) Canica 2000 VSI crusher and three (3) associated conveyors.
- (2) Not later than 180 days after initial startup of the crusher and associated conveyors, 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 will 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.

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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 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 Method 9 observations, the Permittee shall submit the results to the Department.

Part F – 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 amount and types of materials processed in the crushing and screening plant in tons per month;
 - (b) The hours of operation for each piece of equipment for each operating day;
 - (c) A copy of the initial startup date notice for the one (1) Canica 2000 VSI crusher and three (3) associated conveyors.
 - (d) All opacity observation and particulate matter performance test results;
 - (e) A log of each periodic inspection of the wet suppression systems including dates and any corrective actions taken; **[Reference: 40 CFR §60.676(b)(1)]**
 - (f) The amount of diesel fuel used with diesel fuel certification to demonstrate compliance with the requirements of 40 CFR §60.4207(b) and 40 CFR §80.510(b) and the hours of operation during each calendar month for the John Deere generator; and

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- (g) Documentation from the manufacturer that the engine is certified to meet the emission standards of 40 CFR §1039.101. **[Reference: 40 CFR §60.4201(a)]**
- (2) The Permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards of 40 CFR §60.672(b) including reports of opacity observations made using Method 9 (40 CFR Part 60, Appendix A-4). **[Reference: 40 CFR §60.676(f)]**
- (3) 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:
- (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:

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- (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
- (h) Other relevant information as required by the Department.
- (4) 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."

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- (5) 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.
- (6) 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 G – 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 one (1) Canica 2000 VSI crusher and three (3) associated conveyors for a period of up to 180 days after initiating operation of the one (1) Canica 2000 VSI crusher and three (3) associated conveyors.
- (2) The Permittee shall provide the Department with written or electronic notification of the date on which operation of the one (1) Canica 2000 VSI crusher and three (3) associated conveyors is initiated. Such notification shall be provided within 15 business days of the date to be reported. **[Reference: 40 CFR §60.676(i)]**
- (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.

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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

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>