

**MARYLAND DEPARTMENT OF THE ENVIRONMENT**

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

**DOCKET #20-21, Supplement # 1, Supplement #2**

COMPANY: Global Resource Recyclers  
LOCATION: 2600 Marble Court, Forestville, MD 20747  
APPLICATION: Installation of one (1) portable RAP crushing and screening plant.

<u>ITEM</u>	<u>DESCRIPTION</u>
1	Notice of Application and Opportunity to Request an Informational Meeting
2	Permit to Construct Application Package including: Form 5, Form 5T, Form 5EP, Form 6, Form 44, site map, vendor specifications, emissions worksheet.
3	Zoning Approval from Prince George's County

**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 Global Resource Recyclers on September 20, 2021 for the installation of one (1) portable RAP crushing and screening plant. The proposed installation will be located at 2600 Marble Court, Forestville, MD 20747

The application and other supporting documents are available for public inspection on the Department's website. Look for Docket #20-21 at the following link:

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

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

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

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



## AIR QUALITY PERMIT TO CONSTRUCT APPLICATION CHECKLIST

OWNER OF EQUIPMENT/PROCESS	
COMPANY NAME:	Global Resource Recyclers
COMPANY ADDRESS:	2600 Marble Court Forestville, MD 20747
LOCATION OF EQUIPMENT/PROCESS	
PREMISES NAME:	Global Resource Recyclers
PREMISES ADDRESS:	2600 Marble Court Forestville, MD 20747
CONTACT INFORMATION FOR THIS PERMIT APPLICATION	
CONTACT NAME:	Harold Green
JOB TITLE:	CEO
PHONE NUMBER:	202-288-4130
EMAIL ADDRESS:	haroldgreen@chambelainecontractors.com
DESCRIPTION OF EQUIPMENT OR PROCESS	

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

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

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

No. <u>  X  </u> Form 5	No. <u>      </u> Form 11
No. <u>  X  </u> Form 5T	No. <u>      </u> Form 41
No. <u>  X  </u> Form 5EP	No. <u>      </u> Form 42
No. <u>  X  </u> Form 6	No. <u>  X  </u> Form 44
No. <u>      </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 <sup>(1)</sup>
- Documentation that the proposed installation complies with local zoning and land use requirements <sup>(2)</sup>

<sup>(1)</sup> Required for emergency and non-emergency generators installed on or after October 1, 2001 and rated at 2001 kW or more.

<sup>(2)</sup> Required for applications subject to Expanded Public Participation Requirements.

APPLICATION FOR PROCESSING/MANUFACTURING EQUIPMENT



**STATE OF MARYLAND  
DEPARTMENT OF THE ENVIRONMENT  
Air and Radiation Management Administration  
1800 Washington Boulevard  
Baltimore, Maryland 21230**

Permit to Construct  
Registration Update  
Initial Registration

**APPLICATION FOR PROCESSING/MANUFACTURING EQUIPMENT**

<p><b>1A OWNER OF EQUIPMENT/COMPANY NAME</b> <i>Global Resource Recyclers</i></p> <p><b>MAILING ADDRESS/STREET</b> <i>2600 Marble Court</i></p> <p><b>CITY STATE ZIP</b> <i>Forestville MD 20747</i></p> <p><b>TELEPHONE NUMBER</b> <i>301-725-4330</i></p>	<p style="text-align: center;"><b>DO NOT WRITE IN THIS BLOCK</b></p> <p><b>2. REGISTRATION NUMBER</b></p> <p>County No. <input type="text"/> <input type="text"/> <input type="text"/> 1-2</p> <p>Premises No. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 3-6</p> <p>Registration Class <input type="text"/> 7</p> <p>Equipment No. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 8-11</p> <p>DATA YEAR <input type="text"/> <input type="text"/> 12-13</p> <p style="text-align: right;">APPLICATION DATE _____</p>																				
<p><b>SIGNATURE</b> <i>[Signature]</i> <b>PRINT NAME AND TITLE</b> <i>Hazel Green</i> <b>DATE:</b> <i>4/14/2021</i> <i>4/30/2021</i></p>																					
<p><b>1B EQUIPMENT LOCATION AND TELEPHONE NUMBER (IF DIFFERENT FROM ABOVE)</b> <i>2600 Marble Court</i></p> <p><b>STREET AND STREET NAME</b> <i>Forestville Maryland 20794</i></p> <p><b>CITY, TOWN STATE ZIP TELEPHONE</b> <i>Forestville Maryland 20794 301-568-2050</i></p> <p><b>PREMISES NAME (IF DIFFERENT FROM ABOVE)</b></p>																					
<p><b>3 STATUS</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;"></th> <th style="width: 10%;">STATUS</th> <th style="width: 15%;">NEW CONSTRUCTION BEGUN MONTH / YEAR</th> <th style="width: 15%;">NEW CONSTRUCTION COMPLETED MONTH / YEAR</th> <th style="width: 35%;">EXISTING INITIAL OPERATION MONTH / YEAR</th> </tr> </thead> <tbody> <tr> <td>A. NEW EQUIPMENT</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>B. MODIFICATION TO EXISTING EQUIPMENT</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></td> <td style="text-align: center;"><input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></td> <td style="text-align: center;"><input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></td> </tr> <tr> <td>C. EXISTING EQUIPMENT</td> <td style="text-align: center;">15</td> <td style="text-align: center;">16-19</td> <td style="text-align: center;">20-23</td> <td style="text-align: center;">20-23</td> </tr> </tbody> </table>			STATUS	NEW CONSTRUCTION BEGUN MONTH / YEAR	NEW CONSTRUCTION COMPLETED MONTH / YEAR	EXISTING INITIAL OPERATION MONTH / YEAR	A. NEW EQUIPMENT					B. MODIFICATION TO EXISTING EQUIPMENT	<input checked="" type="checkbox"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	C. EXISTING EQUIPMENT	15	16-19	20-23	20-23
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C. EXISTING EQUIPMENT	15	16-19	20-23	20-23																	
<p><b>4 DESCRIBE THIS EQUIPMENT: MAKE, MODEL, FEATURES, MANUFACTURER; INCLUDE MAXIMUM HOURLY INPUT RATE, ETC.</b> <i>one (1) RAP crusher, one (1) RAP screen, &amp; two (2) conveyors</i></p>																					
<p><b>5 WORKER'S COMPENSATION COVERAGE</b></p> <p><b>COMPANY</b> <i>See Attached COB -</i> <b>EXPIRATION DATE</b> _____</p> <p><b>BINDER / POLICY NUMBER</b> <i>53099351</i></p>																					
<p><b>6 A. NUMBER OF PIECES OF IDENTICAL EQUIPMENT UNITS TO BE REGISTERED / PERMITTED AT THIS TIME</b> <i>0</i></p> <p><b>B. NUMBER OF STACKS / EMISSION POINTS ASSOCIATED WITH THIS EQUIPMENT</b> <i>3- Crusher &amp; screen &amp; conveyor</i></p>																					
<p><b>7 PERSON INSTALLING THIS EQUIPMENT (IF DIFFERENT FROM (1) ABOVE)</b> <i>Same</i></p> <p><b>NAME</b> _____ <b>TITLE</b> _____</p> <p><b>COMPANY</b> _____</p> <p><b>MAILING ADDRESS / STREET</b> _____</p> <p><b>CITY, TOWN STATE TELEPHONE</b> _____</p>																					

8 MAJOR ACTIVITY, PRODUCT, OR SERVICE OF COMPANY AT THIS LOCATION

ONE CONCRETE AND RECYCLED ASPHALT PAVEMENT (RAP) CRUSHING AND SCREENING PLANT.

9 CONTROL DEVICES ASSOCIATED WITH THIS EQUIPMENT

NONE  
26-0

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  
  
24-9

DESCRIBE  
Wet Suppression Sprays As required.

10 ANNUAL FUEL CONSUMPTION FOR THIS EQUIPMENT  
(FUEL LISTED ONLY ACCOUNTS FOR NEW EQUIPMENT USAGE ONLY:

OIL - 1,000 GALLONS		SULFUR %		GRADE	NATURAL GAS - 1,000 FT <sup>3</sup>				LP GAS - 100 GALLONS		GRADE	A
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	B
22-4		03		2								C
26-31		32-33		34	35-41				42-45			D
COAL - TONS				SULFUR %		ASH %		WOOD - TONS		MOISTURE %		E
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	F
46-52				52-55		56-58		59-63		64-65		
OTHER FUELS		ANNUAL AMOUNT CONSUMED		OTHER FUELS		ANNUAL AMOUNT CONSUMED						
(SPECIFY TYPE)		<input type="text"/>		(SPECIFY TYPE)		<input type="text"/>		(SPECIFY TYPE)		(SPECIFY TYPE)		
		66-1				66-2						

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 checked="" 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 checked="" 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 OR N  
85

HEIGHT ABOVE GROUND (FT)	INSIDE DIAMETER AT TOP (INCHES)	EXIT TEMPERATURE (°F)	EXIT VELOCITY (FT / SEC)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
IF NOT, THEN 86-88	89-91	92-95	96-98



NOTE: 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?  Y OR N

	NAME	CAS NUMBER (if applicable)	PER HOUR	INPUT RATE		UNITS
				UNITS	PER YEAR	
1.	RAP Impactor		353	TPH		
2.						
3.	RAP Screen		500	TPH		
4.						
5.	RAP Conveyor		300	TPH		
6.						
7.	RAP Conveyor		300	TPH		
8.						
9.						
TOTAL						

14. OUTPUT MATERIALS (for this equipment) PROCESS / PRODUCT STREAM

	NAME	CAS NUMBER (if applicable)	PER HOUR	OUTPUT RATE		UNITS
				UNITS	PER YEAR	
1.	RAP Impactor		353	TPH		
2.						
3.	RAP Screen		500	TPH		
4.						
5.	RAP Conveyor		300	TPH		
6.						
7.	RAP Conveyor		300	TPH		
8.						
9.						
TOTAL						

15. WASTE STREAMS - SOLID AND LIQUID

	NAME	CAS NUMBER (if applicable)	PER HOUR	OUTPUT RATE		UNITS
				UNITS	PER YEAR	
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
TOTAL						

16. TOTAL STACK EMISSIONS (FOR THIS EQUIPMENT ONLY) IN POUNDS PER OPERATING DAY

PARTICULATE MATTER 99-104	OXIDES OF SULFUR 105-110	OXIDES OF NITROGEN 111-116
<input type="text" value="N/A"/>	<input type="text" value="10.6"/>	<input type="text" value="161"/>
CARBON MONOXIDE 117-122	VOLATILE ORGANIC COMPOUNDS 123-128	PM-10 129-134
<input type="text" value="35"/>	<input type="text" value="13.2"/>	<input type="text" value="11.3"/>

17. TOTAL FUGITIVE EMISSIONS (FOR THIS EQUIPMENT ONLY) IN POUNDS PER OPERATING DAY

PARTICULATE MATTER 135-139	OXIDES OF SULFUR 140-144	OXIDES OF NITROGEN 145-149
<input type="text" value="57.8"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
CARBON MONOXIDE 150-154	VOLATILE ORGANIC COMPOUNDS 155-159	PM-10 160-164
<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="19.4"/>

METHOD USED TO DETERMINE EMISSIONS (1 = ESTIMATE 2 = EMISSION FACTOR 3 = STACK TEST 4 = OTHER)

TSP 165	SOX 166	NOX 167	CO 168	VOC 169	PM10 170
<input type="text" value="2"/>	<input type="text" value="2"/>	<input type="text" value="2"/>	<input type="text" value="2"/>	<input type="text" value="2"/>	<input type="text" value="2"/>

AIR MANAGEMENT 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 \_\_\_\_\_ 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 \_\_\_\_\_ VOC CODE \_\_\_\_\_ SIP CODE \_\_\_\_\_ REGULATION CODE \_\_\_\_\_ CONFIDENTIALITY \_\_\_\_\_  
208-210 211-212 213-214 215-218 219

POINT DESCRIPTION \_\_\_\_\_ ACTION \_\_\_\_\_  
220-238 239  
A: ADD  
B: CHANGE





# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

4/30/2021

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

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

<b>PRODUCER</b> HMS Insurance Associates, Inc. 20 Wight Ave Suite 300 Hunt Valley MD 21030	<b>CONTACT NAME:</b> Heidi Stancill <b>PHONE (A/C, No, Ext):</b> 410-337-9755 <b>E-MAIL ADDRESS:</b> hstancill@hmsia.com	<b>FAX (A/C, No):</b>
	<b>INSURER(S) AFFORDING COVERAGE</b>	
<b>INSURED</b> Global Resource Recyclers, Inc. 2600 Marble Ct Forestville MD 20747	CHAMCON-01	<b>INSURER A:</b> Selective Insurance Company of South Carolina <b>INSURER B:</b> Builders Mutual Insurance Co <b>INSURER C:</b> <b>INSURER D:</b> <b>INSURER E:</b> <b>INSURER F:</b>
		<b>NAIC #</b>
		19259
		10844

**COVERAGES**

CERTIFICATE NUMBER: 1809606192


REVISION NUMBER:

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:			S 2099351	12/23/2020	12/23/2021	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000 MED EXP (Any one person) \$ 15,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
A	<b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			S 2099351	12/23/2020	12/23/2021	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 0			S 2099351	12/23/2020	12/23/2021	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000 \$
B	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	N/A	WCP 1074765 00	12/23/2020	12/23/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 500,000 E.L. DISEASE - EA EMPLOYEE \$ 500,000 E.L. DISEASE - POLICY LIMIT \$ 500,000

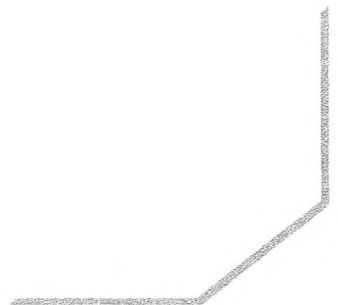
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
 Evidence of Insurance

**CERTIFICATE HOLDER****CANCELLATION**

Evidence of Insurance	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE 

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FORM 5EP





**MARYLAND DEPARTMENT OF THE ENVIRONMENT**  
 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](http://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: Global Resource Recycling

**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:  
RAP CRUSHER EXHAUST (STACK)

**2. Emission Point Description**

Describe the emission point including all associated equipment and control devices:  
Diesel Engine Exhaust Stack

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

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

**4. Emission Point Information**

Height above ground (ft):	<u>10</u>	Length and width dimensions at top of rectangular stack (ft):	Length:	Width:
Height above structures (ft):	<u>2</u>			
Exit temperature (°F):	<u>800</u>	Inside diameter at top of round stack (ft):		<u>0.333</u>
Exit velocity (ft/min):	<u>225</u>	Distance from emission point to nearest property line (ft):		<u>VARIES</u>
Exhaust gas volumetric flow rate (acfm):	<u>1178</u>	Building dimensions if emission point is located on building (ft)	Height <u>N/A</u>	Length Width

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

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

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



**FORM 5EP: Emission Point Data**

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

Criteria Pollutants	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Particulate Matter (filterable as PM10)	0.73	0.73	7.3	0.292
Particulate Matter (filterable as PM2.5)				
Particulate Matter (condensables)				
Volatile Organic Compounds (VOC)	0.85	0.85	8.5	0.34
Oxides of Sulfur (SOx)	0.68	0.68	6.8	0.27
Oxides of Nitrogen (NOx)	10.4	10.4	104	4.16
Carbon Monoxide (CO)	2.23	2.23	22.3	0.892
Lead (Pb)				
Greenhouse Gases (GHG)	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Carbon Dioxide (CO <sub>2</sub> )	385	385	3850	154
Methane (CH <sub>4</sub> )				
Nitrous Oxide (N <sub>2</sub> O)				
Hydrofluorocarbons (HFCs)				
Perfluorocarbons (PFCs)				
Sulfur Hexafluoride (SF <sub>6</sub> )				
Total GHG (as CO <sub>2</sub> e)	385	385	3850	154
List individual federal Hazardous Air Pollutants (HAP) below:	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Aldehydes	0.164	0.164	1.64	0.066

(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: GLOSA Resource Recyclers

**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:

RAP Crusher Exhaust (Stack)

**2. Emission Point Description**

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

Diesel Engine Exhaust Stack

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

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

**4. Emission Point Information**

Height above ground (ft):	<u>10</u>	Length and width dimensions at top of rectangular stack (ft):	Length:	Width:
Height above structures (ft):	<u>2</u>			
Exit temperature (°F):	<u>800</u>	Inside diameter at top of round stack (ft):	<u>0.333</u>	
Exit velocity (ft/min):	<u>225</u>	Distance from emission point to nearest property line (ft):	<u>Varies</u>	
Exhaust gas volumetric flow rate (acfm):	<u>1178</u>	Building dimensions if emission point is located on building (ft)	Height <u>MA</u>	Length Width

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

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

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



**FORM 5EP: Emission Point Data**

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

Criteria Pollutants	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Particulate Matter (filterable as PM10)	0.24	0.24	2.4	0.096
Particulate Matter (filterable as PM2.5)				
Particulate Matter (condensables)				
Volatile Organic Compounds (VOC)	0.28	0.28	2.8	0.112
Oxides of Sulfur (SOx)	0.23	0.23	2.3	0.092
Oxides of Nitrogen (NOx)	3.45	3.45	34.5	1.38
Carbon Monoxide (CO)	0.74	0.74	7.4	0.296
Lead (Pb)				
Greenhouse Gases (GHG)	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Carbon Dioxide (CO <sub>2</sub> )	128	128	1280	51.2
Methane (CH <sub>4</sub> )				
Nitrous Oxide (N <sub>2</sub> O)				
Hydrofluorocarbons (HFCs)				
Perfluorocarbons (PFCs)				
Sulfur Hexafluoride (SF <sub>6</sub> )				
Total GHG (as CO <sub>2</sub> e)	128	128	1280	51.2
List individual federal Hazardous Air Pollutants (HAP) below:	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Aldehydes	0.055	0.055	0.55	0.022

(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: GloSal Resource Recyclers

**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:  
RAP CONVEYOR / EXHAUST STACK

**2. Emission Point Description**

Describe the emission point including all associated equipment and control devices:  
Diesel Engine Exhaust Stack

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

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

**4. Emission Point Information**

Height above ground (ft):	<u>4</u>	Length and width dimensions at top of rectangular stack (ft):	Length:	Width:
Height above structures (ft):	<u>2</u>			
Exit temperature (°F):	<u>800</u>	Inside diameter at top of round stack (ft):		<u>0.333</u>
Exit velocity (ft/min):	<u>225</u>	Distance from emission point to nearest property line (ft):		<u>VARIABLE</u>
Exhaust gas volumetric flow rate (acfm):	<u>1178</u>	Building dimensions if emission point is located on building (ft)	Height	Length
				Width

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

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

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



**FORM 5EP: Emission Point Data**

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

Criteria Pollutants	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Particulate Matter (filterable as PM10)	0.08	0.08	0.8	0.032
Particulate Matter (filterable as PM2.5)				
Particulate Matter (condensables)				
Volatile Organic Compounds (VOC)	0.09	0.09	0.94	0.038
Oxides of Sulfur (SOx)	0.08	0.08	0.76	0.030
Oxides of Nitrogen (NOx)	1.15	1.15	11.5	0.46
Carbon Monoxide (CO)	0.25	0.25	2.5	0.100
Lead (Pb)				
Greenhouse Gases (GHG)	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Carbon Dioxide (CO <sub>2</sub> )	42.8	42.8	428	17.1
Methane (CH <sub>4</sub> )				
Nitrous Oxide (N <sub>2</sub> O)				
Hydrofluorocarbons (HFCs)				
Perfluorocarbons (PFCs)				
Sulfur Hexafluoride (SF <sub>6</sub> )				
Total GHG (as CO <sub>2</sub> e)	42.8	42.8	428	17.1
List individual federal Hazardous Air Pollutants (HAP) below:	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Aldehydes -	0.018	0.018	0.18	0.007

(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: GloSal Resource Recyclers

**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:  
RAP Conveyor 2 Exhaust Stack

**2. Emission Point Description**

Describe the emission point including all associated equipment and control devices:  
Diesel Engine Exhaust Stack

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

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

**4. Emission Point Information**

Height above ground (ft):	<u>4</u>	Length and width dimensions at top of rectangular stack (ft):	Length:	Width:
Height above structures (ft):	<u>2</u>			
Exit temperature (°F):	<u>800</u>	Inside diameter at top of round stack (ft):		<u>0.333</u>
Exit velocity (ft/min):	<u>225</u>	Distance from emission point to nearest property line (ft):		<u>Values</u>
Exhaust gas volumetric flow rate (acfm):	<u>1178</u>	Building dimensions if emission point is located on building (ft)	Height <u>MA</u>	Length Width

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

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

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



**FORM 5EP: Emission Point Data**

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

Criteria Pollutants	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Particulate Matter (filterable as PM10)	0.08	0.08	0.8	0.032
Particulate Matter (filterable as PM2.5)				
Particulate Matter (condensables)				
Volatile Organic Compounds (VOC)	0.09	0.09	0.94	0.038
Oxides of Sulfur (SOx)	0.08	0.08	0.76	0.030
Oxides of Nitrogen (NOx)	1.15	1.15	11.5	0.46
Carbon Monoxide (CO)	0.25	0.25	2.5	0.100
Lead (Pb)				
Greenhouse Gases (GHG)	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Carbon Dioxide (CO <sub>2</sub> )	42.8	42.8	428	17.1
Methane (CH <sub>4</sub> )				
Nitrous Oxide (N <sub>2</sub> O)				
Hydrofluorocarbons (HFCs)				
Perfluorocarbons (PFCs)				
Sulfur Hexafluoride (SF <sub>6</sub> )				
Total GHG (as CO <sub>2</sub> e)	42.8	42.8	428	17.1
List individual federal Hazardous Air Pollutants (HAP) below:	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Aldehydes.	0.018	0.018	0.18	0.007

(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: \_\_\_\_\_

**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:  
RAP CRUSHER, SCREENING, & CONVEYING PARTICULATE MATTER (FUGITIVE)

**2. Emission Point Description**

Describe the emission point including all associated equipment and control devices:  
FUGITIVE PARTICULATE MATTER FROM RAP CRUSHING, SCREENING, & CONVEYOR

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

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

**4. Emission Point Information**

Height above ground (ft):	10	Length and width dimensions at top of rectangular stack (ft):	Length:	Width:
Height above structures (ft):	0		100	80
Exit temperature (°F):	AMBIENT	Inside diameter at top of round stack (ft):		
Exit velocity (ft/min):	NA	Distance from emission point to nearest property line (ft):		195
Exhaust gas volumetric flow rate (acfm):	NA	Building dimensions if emission point is located on building (ft)	Height	Length
			NA	

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

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

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



**FORM 5EP: Emission Point Data**

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

Criteria Pollutants	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Particulate Matter (filterable as PM10)	1.94	1.94	19.4	0.776
Particulate Matter (filterable as PM2.5)				
Particulate Matter (condensables)				
Volatile Organic Compounds (VOC)				
Oxides of Sulfur (SOx)				
Oxides of Nitrogen (NOx)				
Carbon Monoxide (CO)				
Lead (Pb)				
Greenhouse Gases (GHG)	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Carbon Dioxide (CO <sub>2</sub> )				
Methane (CH <sub>4</sub> )				
Nitrous Oxide (N <sub>2</sub> O)				
Hydrofluorocarbons (HFCs)				
Perfluorocarbons (PFCs)				
Sulfur Hexafluoride (SF <sub>6</sub> )				
Total GHG (as CO <sub>2</sub> e)				
List individual federal Hazardous Air Pollutants (HAP) below:	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)

(Attach additional sheets as necessary.)

Portable Trakpactor Emissions Calculations - AP42 Emission Factors

Assumptions: 10 Hours/day  
 18 gallons/hour diesel  
 130,500 Btu/gallon diesel  
 3530 tons/day  
 Throughput 353 tph - RAP

Stack - Engine Exhaust		23490000 Btu/day	23.49 MMBtu/day
PM-10	.31 lb/MMBtu	7.2819 lb/day	0.72819 lb/hr
SOx	.29 lb/MMBtu	6.8121 lb/day	0.68121 lb/hr
NOx	4.41 lb/MMBtu	103.5909 lb/day	10.35909 lb/hr
CO	.95 lb/MMBtu	22.3155 lb/day	2.23155 lb/hr
TOC	.36 lb/MMBtu	8.4564 lb/day	0.84564 lb/hr
CO2	164 lb/MMBtu	3852.36 lb/day	385.236 lb/hr
Aldehydes	0.07 lb/MMBtu	1.6443 lb/day	0.16443 lb/hr

Plant Aggregate - Fugitive Emissions RAP

	lb/day		ton/yr	
	Total PM	PM-10		
Conveyor 1	10.59	3.883	0.4236	0.15532
Crusher	4.236	1.9062	0.16944	0.076248
Total	14.826	5.7892	0.59304	0.231568

PM calculated at 3530 \* 0.003 (conveyor transfer point, uncontrolled, for crushed stone, AP-42)  
 PM-10 calculated at 3530 \* 0.0011 (conveyor transfer point, uncontrolled, for crushed stone, AP-42)  
 Crusher total PM calculated at 3530 \* 0.0012 (tertiary crushing, controlled)  
 Crusher PM10 calculated at 3530 \* 0.00054 (tertiary crushing, controlled)  
 Ton/year = lb/day \* 80/2000

180 gallons per day for 80 days equals 14,400 gallons

Portable RAP Screen Emissions Calculations - AP42 Emission Factors

Assumptions: 10 Hours/day  
 6 gallons/hour diesel  
 130,500 Btu/gallon diesel  
 5000 tons/day  
 Estimates high due to using aggregate screening and conveying info

Stack - Engine Exhaust		7830000 Btu/day	7.83 MMBtu/day
PM-10	.31 lb/MMBtu	2.4273 lb/day	0.24273 lb/hr
SOx	.29 lb/MMBtu	2.2707 lb/day	0.22707 lb/hr
NOx	4.41 lb/MMBtu	34.5303 lb/day	3.45303 lb/hr
CO	.95 lb/MMBtu	7.4385 lb/day	0.74385 lb/hr
TOC	.36 lb/MMBtu	2.8188 lb/day	0.28188 lb/hr
CO2	164 lb/MMBtu	1284.12 lb/day	128.412 lb/hr
Aldehydes	0.07 lb/MMBtu	0.5481 lb/day	0.05481 lb/hr

Plant Aggregate - Fugitive Emissions (all values in lb/day)

	Total PM	PM-10
C1 to C4	15	5.5 (Conveyor transfer point, uncontrolled)
Screen	11	1.48 (Screening, controlled)
Total	26	6.98

Note: Conveyors C1 to C4 have 5,000 tons total (combined) per day

11 X 80 = 880 = 0.44 tons  
 1.48 X 80 = 118.4 = 0.0592 tons  
 15 X 80 = 1200 = 0.6 tons  
 5.5 X 80 = 440 = 0.22 tons



Portable RAP Conveyor Emissions Calculations - AP42 Emission Factors

Assumptions: 10 Hours/day  
 2 gallons/hour diesel  
 130,500 Btu/gallon diesel  
 3000 tons/day  
 Estimates high due to using aggregate screening and conveying info

Stack - Engine Exhaust		2610000 Btu/day	2.61 MMBtu/day
PM-10	.31 lb/MMBtu	0.8091 lb/day	0.08091 lb/hr
SOx	.29 lb/MMBtu	0.7569 lb/day	0.07569 lb/hr
NOx	4.41 lb/MMBtu	11.5101 lb/day	1.15101 lb/hr
CO	.95 lb/MMBtu	2.4795 lb/day	0.24795 lb/hr
TOC	.36 lb/MMBtu	0.9396 lb/day	0.09396 lb/hr
CO2	164 lb/MMBtu	428.04 lb/day	42.804 lb/hr
Aldehydes	0.07 lb/MMBtu	0.1827 lb/day	0.01827 lb/hr

Plant Aggregate - Fugitive Emissions (all values in lb/day)

	Total PM	PM-10
Conveyor	9	3.3 (Conveyor transfer point, uncontrolled)
Total	9	3.3

$9 \times 80 = 720 = 0.36 \text{ tons}$

$3.3 \times 80 = 264 = 0.132 \text{ tons}$

PRINCE GEORGE'S COUNTY ZONING VERIFICATION  
SITE DRAWING

**Property**

**Tax Account:** 0504092

**Owner Name:** GLOBAL RESOURCE RECYCLERS INC

**Premise Address:** 2600 Marble Ct, District Heights, MD 20747

**Parcel Details**

**Tax Account #:** 0504092

**Assessment District:** 06

**Lot:** 14 **Block:** B **Parcel:**

**Description:**

**Plat:** 06151024

**Subdivision:** FORESTVILLE

CENTER-RESUB PT OF BLK A & B-  
PLAT 3>

**Acreage:** 3.3830

**Ownership Information**

**Owner Name:** GLOBAL RESOURCE RECYCLERS INC

**Owner Address:** 162 Lafayette Ave, Laurel, MD 20707

**Liber:** 08467 **Folio:** 837

**Transfer Date:** 9/30/1992

**Current Assessment:** \$514,200.00

**Land Valuation:** \$359,800.00

**Improvement**

**Valuation:** \$154,400.00

**Sale Price:** \$0.00

**Structure Area (Sq Ft):** 1256

**Administrative Details**

**Tax Map Grid:** 082B3

**WSSC Grid:** 204SE07

**Tree Conservation**

**Plan 1:**

**Tree Conservation**

**Plan 2:** TCP2-097-97

**Councilmanic**

**District:** Null

**Military Installation Overlay - Noise**

**Noise Intensity Zone:** Noise Intensity Zone

**Decibel Range:** 60 db - 74 db

**Military Installation Overlay - Safety**

**Type Code:** 83

**Zone Name:** Accident Potential Zone 2

**Military Installation Overlay - Height**

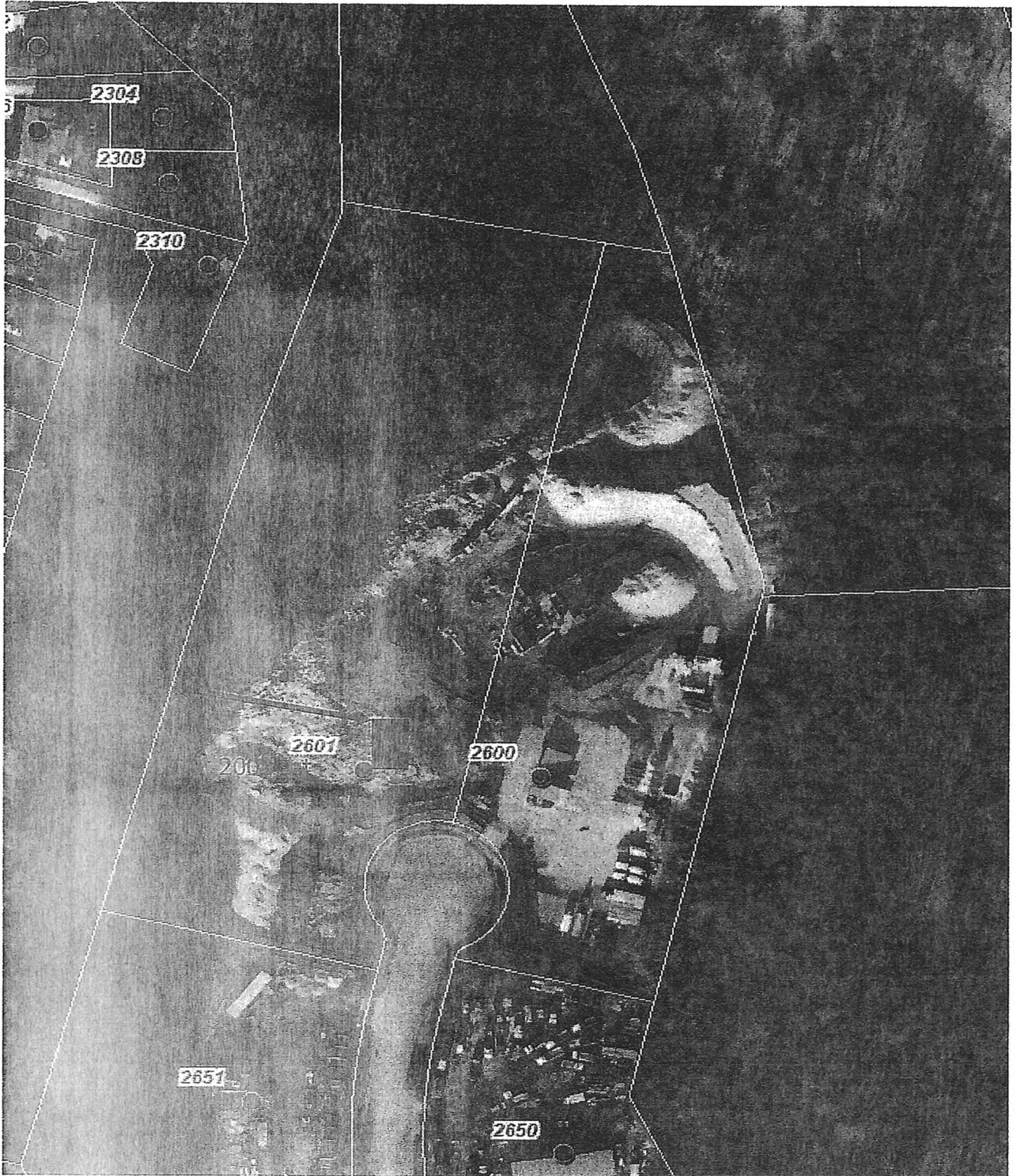
**Zone Use:** App/Dep Clearance (50:1) - North End

**Area Label:** B


**Zoning**

**Zone Type:** Industrial

**Class:** I-4 (Limited Intensity Industrial)



Allan Myers MD, Inc. - Global Resource Recyclers  
2600 Marble Court  
Forestville, MD 20747

 RAP Equipment Location

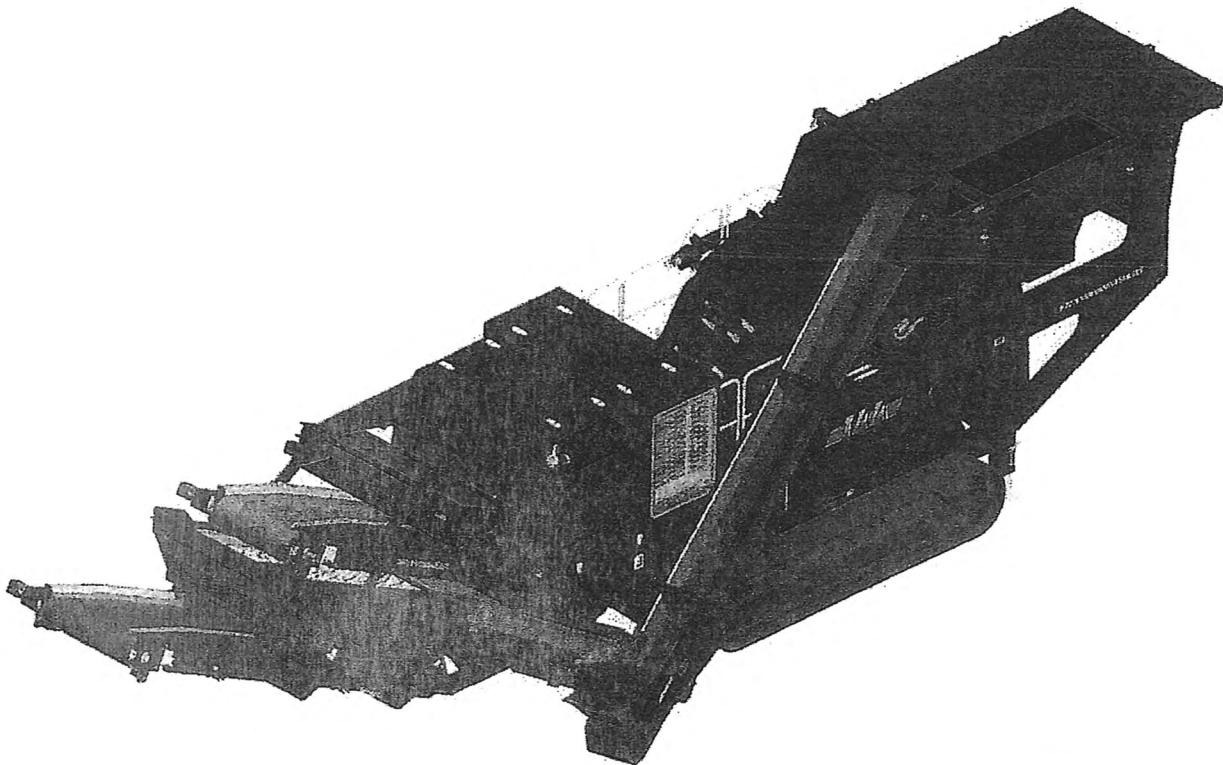
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VENDOR LITERATURE

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# ***SPECIFICATIONS***



## ***McCloskey*** ***i44R***



**DESCRIPTION**

Heavy duty track mounted Crusher with following features:

- 1050mm (42") diameter x 1100mm (43") wide Impactor.
- 350Hp Cat C9 engine.
- Track or Track c/w Wheel bogie.
- Integrated hydraulic folding hopper.
- Integrated hydraulic folding stockpiling conveyors.
- I-beam plate fabricated chassis construction.
- Open chassis design for ease of maintenance
- Fast setup time
- Vibrating feeder under crusher discharge.

**DIMENSIONS AND WEIGHTS**

Length - transport model	15.348 (50' - 4")
Width - transport all models	3.08m (10' - 1")
Height - transport track	3.40m (11' - 2")
Weight - track	45,000 Kgs (99,207 lbs) inc magnet

**CAPACITIES**

Diesel tank capacity	635 L (168 US gal)
Hydraulic tank capacity	1210 L (320 US Gals)

**IMPACTOR CHAMBER**

Feed opening WxH	1150 x 800mm, (45.3 x 31.5")
Impactor rotor	1050mm (42") diameter x 1100mm (43.3") wide
Crusher speed	600-740 rpm (33-40 m/sec rotor tip speed)
Number of aprons	2 (3 with optional grinding path)
Number of blowbars	4 (3 bar optional)
Full blowbar weight	217 Kg (478 lbs)
Crusher Drive	Hydraulic - V-Belts
Feed size	450 x 450 x 450mm lump, (18" x 18" x 18")
Impactor weight	9,500kg (20,940 lbs) estimated
Closed side setting adjustment	Hydraulic rams, shim system
Motor	Kawasaki axial piston 280cc/rev
Flow rate	400 Lpm (105 US gpm)
Speed sensor	YES
Load sensor	Hydraulic

**PAN FEEDER**

Feeder width	1080mm (42.5")
Feeder length	4050mm (159.4")
Drive	Hydraulic
Motor	David Brown MCC 2208 58.7cc/rev
Flow rate	60.8 Lpm (16.1 US gpm)
Adjustable speed	Yes - via mechanical Flow Control
Variable speed	Yes - via electrical proportional
Maximum speed	1060rpm

**HOPPER**

Length overall	4560mm (14' - 11")
Loading width	3491mm (11' - 5")
Width	2220mm (7' - 3")
Volume	5.4m <sup>3</sup> (7.4yd <sup>3</sup> )
Material	8mm Hardox sides
Locking system	Wedge type and toggle

**SIDE CONVEYOR**

Stockpile height	2080mm (6' - 10")
Belt width	650mm (26")
Belt spec	EP 400/3 3+1.5
Drive drum dia.	220mm (8.6")
Tail drum dia.	220mm (8.6") - spoked
Motor	OMT400
Flow rate	43.7 Lpm (11.5 US gpm)
Adjustable speed	YES
Maximum speed	109 rpm

**MAIN CONVEYOR**

Belt width	1050mm (42")
Belt spec	Plain 500/3 8+2
Drive drum dia.	285mm (11.2")
Tail drum dia.	270mm (10.6") - spoked
Motor	OMV630
Flow rate	87.4 Lpm (23.1 US gpm)
Maximum speed	138.7 rpm
Angle adjustable	NO
Quick release	YES

**FINES CONVEYOR**

Stockpile height	2965mm (9' - 9")
Belt width	1200mm (48")
Belt spec	Plain 500/3 8+2
Drive drum dia.	285mm (11.2")
Tail drum dia.	270mm (10.6") - spoked
Motor	OMV630
Flow rate	68.4 Lpm (18.1 US gpm)
Maximum speed	108.6 rpm
Angle adjustable	NO
Quick release	YES

**SCREENBOX**

Dimensions - top deck	3050mm x 1525mm (10' x 5')
Bearing type 2 Deck	NSK/RHP 22219
Screens - top deck	5' x 4' side tension - 2 off & 5' x 2' side tension - 1 off
Tensioning - top deck	Quick release pin and wedge
Screen angle	25 deg
Screen motor	DBH MCC2208 (59cc/rev)
Drive system	Direct drive with HRC150 coupling
Hydraulic flowrate	68.4 Lpm (18.1 US gpm)
Speed adjustable	YES - Pressure compensated FCV
Screen stroke adjustable	8 - 10mm
Screen shaft speed	950 rpm
Screen 'g' force	5.05

**TRANSFER CONVEYOR**

Belt width	650mm (26")
Belt spec	Plain 400/3 4+2
Drive drum dia.	200mm (8")
Tail drum dia.	200mm (8")
Motor	OMT400
Flow rate	43.7 Lpm (11.5 US gpm)
Adjustable speed	YES
Maximum speed	109.5 rpm

**RETURN CONVEYOR**

Belt width	500mm (20")
Belt spec	Chevron - 400/3 6+1.5
Drive drum dia.	290mm (11.5")
Tail drum dia. (Spoked)	270mm (10.6")
Motor	OMI400
Flow rate	43.7 Lpm (11.5 US gpm)
Adjustable speed	YES
Maximum speed	109.5 rpm

**PAN FEEDER UNDER IMPACTOR**

Width	1160mm (45.7")
length	2030mm (80")
Base liners	10mm (3/8") stainless steel
Side liners	12mm (1/2" Hardox 400
Operating angle	13°
Vibrating motor	Twin out of balance mass
Hydraulic motor	2 off Eaton 32.9cc/rev
Fixed speed	YES
Flow rate	87.4 Lpm (23.1 US gpm)

**POWERUNIT AND HYDRAULICS**

Engine	CAT C9
Engine power	261 kW (350 HP)
Engine speed	1900 rpm
Flywheel Pump 1 (Crusher/Tracks)	Kawasaki K3V140DTP
LH PTO Pump 2 (Feeder/Side conveyor)	Turolfa 33/23/10
Front PTO Pump 3 (Main conveyor/Pilots)	David Brown 5046
Front PTO Pump 4 (Screenbox/Return conveyor)	David Brown 5036 5023
Total system flow	724.9 Lpm (191.5 US Gpm)
Hydraulic tank capacity	1210 L (320 US Gals)
Hydraulic tank ratio	1.67 : 1
Twin Hydraulic Oil cooler	YES

**ELECTRICS**

Emergency stops	4 off, 2 feeder, 2 powerunit
Chassis cabling	Armored cable
Start Siren	YES - 10 sec delay
Control panel	Plus 1 Danfoss colour screen
Engine shutdowns:	Low oil pressure High water temp Air filter blockage (selectable) Fuel contamination Low hydraulic tank level High hydraulic return line filter backpressure High hydraulic water filter backpressure High hydraulic oil temperature
Engine room light	YES
Radio control tracks	OPTION - Hetronic system
Pendant track control	YES - plugged in control cabinet

**TRACKS**

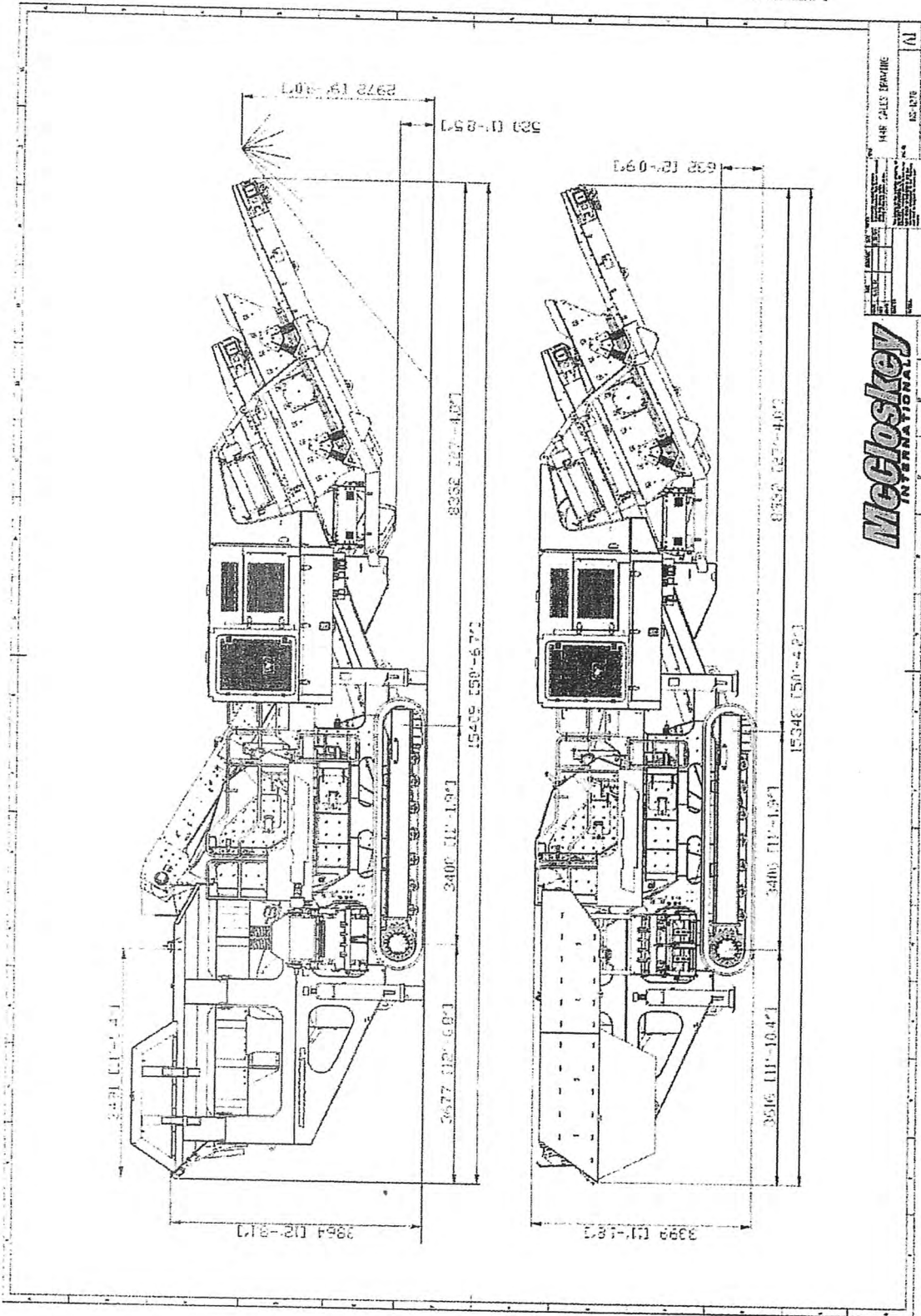
Width	400mm (15.7")
Length	3400mm (11' - 2") crs
Height	817mm (32")
Gearbox	Bonfiglioli 711 (or equivalent)
Ratio	153:1
Motor	Rexroth 90
Speed max	1.50 Kph (0.93 Mph)
Flow rate	138 Lpm (36.45 US gpm)
Multiple speeds	Three speed system selectable at control panel with smooth start / stop.
Attachment to chassis	Bolt On for quick change

**OPTIONS**

- Roll-in bogie system
- Main conveyor variable speed control
- Interlock system
- Hopper Extensions
- Overband magnet
- Water Pump and dust suppression system
- Various blow bar material options
- Grinding path
- 3 or 4 bar rotor
- Work lights
- Belt Scale
- Refueling pump
- Recirculation Screen

**SAFETY FEATURES**

- External belt alignment points
- External grease points
- Engine safety shutdown systems
- Full safety guarding for nip points



**McCloskey**  
 INTERNATIONAL

148 CALLS DEPARTMENT  
 800-875-8750  
 148 S. 10TH ST.  
 WISCONSIN, WI 53089-1480

DATE: 05/11/11  
 DRAWN BY: J. H. HARRIS  
 CHECKED BY: J. H. HARRIS  
 SCALE: AS SHOWN  
 SHEET NO. 7

All specifications are current as of this printing, but are subject to change



# McCloskey

INTERNATIONAL

## R155

The McCloskey R155 High Energy 5000 cubic tonnage haul truck provides the most significant upgrade in haul truck capacity in the world. It's designed for the toughest and most demanding applications in the mining industry. Its large capacity and high reliability in the most difficult operating conditions is a result of its advanced design and heavy-duty construction.

McCloskey R155 is designed for use

with single loaders. It's 100 cubic tonnage haul truck, allowing for more material and less spillage, making the R155 an excellent choice for large-scale mining operations.

A perfect match for a hauler, the R155's production position the extended tail conveyor will increase the drive frame height 12 feet and feed directly into a 100 cubic tonnage hauler.

- 5000 cubic tonnage capacity
- 100 cubic tonnage hauler
- 120 cubic tonnage hauler
- 150 cubic tonnage hauler
- 200 cubic tonnage hauler
- 250 cubic tonnage hauler
- 300 cubic tonnage hauler
- 350 cubic tonnage hauler
- 400 cubic tonnage hauler
- 450 cubic tonnage hauler
- 500 cubic tonnage hauler
- 550 cubic tonnage hauler
- 600 cubic tonnage hauler
- 650 cubic tonnage hauler
- 700 cubic tonnage hauler
- 750 cubic tonnage hauler
- 800 cubic tonnage hauler
- 850 cubic tonnage hauler
- 900 cubic tonnage hauler
- 950 cubic tonnage hauler
- 1000 cubic tonnage hauler



**McCloskey**  
INTERNATIONAL

# ST80T

## High Performance Tracked Stacker

The McCloskey™ ST Tracked Stackers are all about efficiency, from its speedy setup time to its high degree of mobility, downtime is minimized while throughput and stockpile capacity are maximized.

Hydraulic main lift and top fold are standard, as is the diesel power unit. Electric and dual power are also available to get the job done, no matter what application. The 22.5 degree maximum conveyor

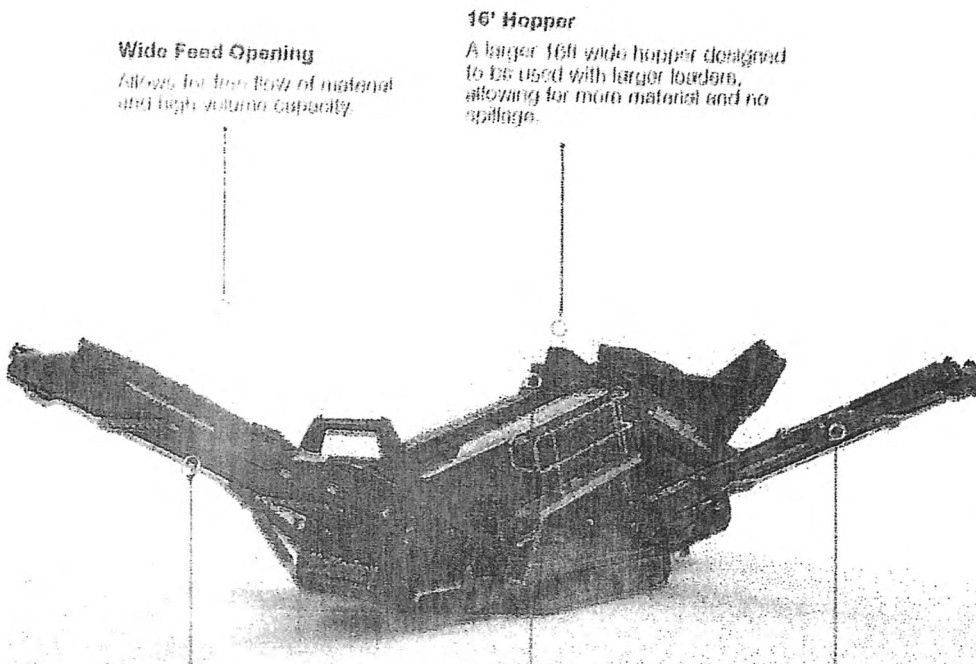
angle allows for the highest stockpiles per conveyor length in the industry.

With its durable truss frame, large feed hopper and base production capacity of 500 TPH with optional upgrades to 800 TPH, the McCloskey ST Tracked Stackers stand up well above the competition.

Available as a radio controlled track-mounted unit.

## Features

- 900mm (36") wide heavy duty 80' long conveyor
- 36.5 kW (49 Hp) Tier 4 diesel engine
- On-site track mobility
- Large feed hopper
- Hydraulic folding frame for easy transport
- Fast on-site setup time (5 minutes)
- Abundant service room inside the power-pack
- Adjustable hopper height to optimize operational efficiency



**Wide Feed Opening**

Allows for fast flow of material and high volume capacity.

**16' Hopper**

A larger 16ft wide hopper designed to be used with larger loaders, allowing for more material and no spillage.

**Heavy Duty Build**

One of the most robust and durable conveyor on the market. The 1200 is built to excel at the toughest and most rugged jobs.

**Screenbox**

High Capacity 5' x 10' screenbox delivers the highest product capacity.

**Extended Tail Conveyor**

The larger tail conveyor allows for an increased discharge height and feeds easily into various crushers.

[mccloskeyinternational.com](http://mccloskeyinternational.com)

## SPECIFICATION DATA

### Dimensions and Capacities

Engine	127 HP (94 kW) Ejected
Transport Height	11' 2" (3.40m)
Transport Length	66' 2" (20.16m)
Transport Width	6' 6" (2.00m)
Weight	25,500 Lbs (11,570 kgs)
Stockpile Height - Extended Tail Conveyor	12' 3" (3.75m)
Stockpile Height - Side Discharge Conveyor	13' (3.96m)
Stockpile Height - Side Discharge Conveyor	11' 10" (3.62m)
Screening Dimensions	5' x 10' (1.52 x 3.05)

*McCloskey 1200 is a registered trademark of McCloskey International, Inc. All other trademarks are the property of their respective owners.*

*McCloskey International, Inc. is a leading manufacturer of heavy-duty conveyor systems for the aggregate, construction, and mining industries. Our products are designed to provide reliable, long-lasting performance in the most demanding environments. For more information, visit our website at [www.mccloskeyintl.com](http://www.mccloskeyintl.com).*



### Hydraulic Top Fold

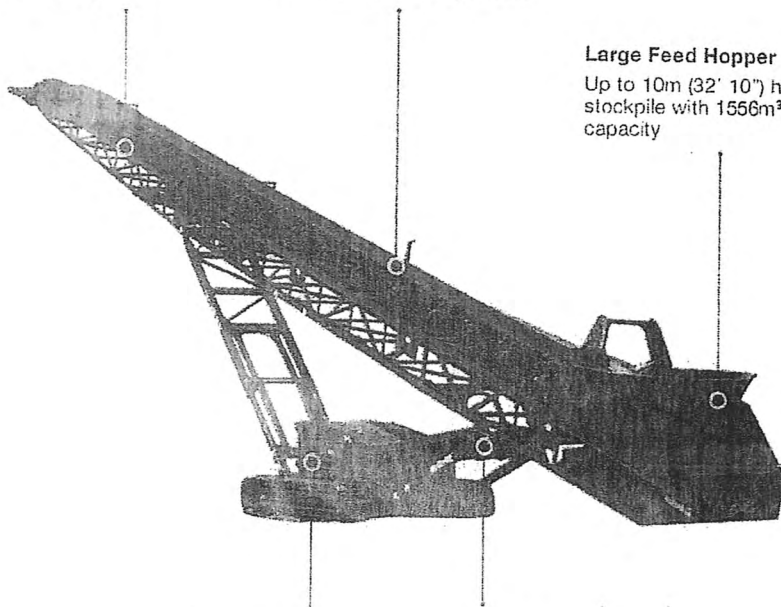
Straightforward hydraulic controls to fold and unfold, raise and lower the conveyor.

### 80' Conveyor

24.38m (80') long conveyor with 900mm (36") wide 3-ply belt.

### Large Feed Hopper

Up to 10m (32' 10") high stockpile with 1556m<sup>3</sup> (2035 yd<sup>3</sup>) capacity.



### Shutdown Systems

Engine safety shutdown systems.

### Radio Remote Track Control

Provides remote maneuverability and enhances safety for moving freely to the best location.

[mccloskeyinternational.com](http://mccloskeyinternational.com)

## SPECIFICATION DATA

### Dimensions and Capacities

Engine	36.5 kW (49 Hp) Diesel
Belt Length	80' (24.38m)
Belt Width	900mm (36")
Stockpile Height	10.0m (32' 10")
Stockpile Capacity	1556m <sup>3</sup> (2035 yd <sup>3</sup> )
Transport Length	15.75m (51' 8")
Transport Height	3.43m (11' 3")
Transport Width	2.49m (8' 2")

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MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION  
**Prince George's County Planning Department**

Planning Information Services  
14741 Governor Oden Bowie Drive, Suite L2  
Upper Marlboro, MD 20772

(301) 952-3208  
(301)-952-3195  
www.mncppc.org

September 20, 2021

Mr. Harold Green  
Global Resource Recyclers, Inc  
2600 Marble Court  
District Heights, Maryland 20747

Re: 2600 and 2601 Marble Court, District Heights, Maryland 20747

Tax ID: 0504084 (Block B, Lot 13) and 0504092 (Block B, Lot 14)

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

Zoning Verification      OR       Buildable lots

1. The current zoning classification for the subject property is:

I-4 (Limited Intensity Industrial)/M-I-O-Z (Military Installation Overlay Zone)- Height, Noise, Safety (Accident Potential Zone 2)

Overlay District(s):

Yes       No

M-I-O-Z- Height, Noise, Safety (APZ 2) restrictions as regulated by the *Approved Military Installation Overlay Zoning Map Amendment, November 2016*

2. Record Lot(s):     Yes    Date: \_\_\_\_\_     No     Not Applicable

*An area of land designated as a separate parcel of land on a "Record Plat," or on a legally recorded deed (to land for which no "Subdivision" plat is required pursuant to the provisions of Subtitle 24) filed among the Land Records of Prince George's County, Maryland.*

Comment:

3. Specific Use(s)/Regulation(s):

Specific uses allowed in the I-4 zone can be found in Part 7, Section 27-473(b) of the Prince George's County Zoning Ordinance (Ordinance). Specific regulations and prohibited uses for the M-I-O-Z can be found in Part10C of the Ordinance. **(See Page 3, Additional Comments)**

4. According to the current zoning ordinance and/or regulations applicable to the subject property, the **current use** of the property is classified as:

- Permitted by Right
- Permitted by Special Exception
- Legally Nonconforming
- Prohibited

Comment:

**See Page 3, Additional Comments**

5. Conformance: According to the current zoning ordinance and/or regulations applicable to the subject property, the current use and/or structure is:

- Legally Conforming (in conformance with applicable zoning and subdivision regulations, or grandfathered). May rebuild in accordance with current regulations.
- Legally Nonconforming (not in conformance with applicable zoning and subdivision regulations, but legal and subject to conditions and/or requirements). See Rebuild (below).
- Nonconforming (not in conformance with applicable zoning and subdivision regulations). See Rebuild (below).

Comment:

**See Page 3, Additional Comments**

6. Rebuild: In the event of casualty, in whole or in part, the structure located on the subject property may be rebuilt in its current form in accordance with Section 27-243 of the current zoning ordinance:

- Yes     No

Comment:

**See Page 3, Additional Comments**

7. Variances, special exceptions, and/or zoning conditions approved for the subject property:

- Variance     Special Exception     Zoning Conditions     None

Comment:



8. Site Plan Information:

An approved site plan for the subject property is on file.

*Available plans must be requested, additional fees apply. Request plans at <http://www.pgplanning.org/DocumentCenter/View/6884/Online-Information-Request-Form>*

No site plan

List of approved plans and permits for subject property:

N/A

Additional comments regarding the subject property:

Per Section 27-473(b) of the Ordinance, the manufacturing or cutting of structural products made of clay, concrete, glass, stone, or similar materials is permitted in the I-4 Zone. However, with the adoption of the MIOZ in 2016 (Council Resolution CR-97-2016) and pursuant to Section 27-548.53(e)(2)(A) of the Ordinance, existing uses in the Safety Zones (APZ1, APZ2 and Clear Zone) that are on the prohibited use list in Section 27-548.56(a) of the Ordinance are considered nonconforming. Per Section 27-548.56(a)(1)(H)(i) of the Ordinance, any type of use that may release into the air any substance, such as steam, dust, or smoke which would impair visibility or otherwise interfere with the operation of aircraft is strictly prohibited in the Safety Zones. If your operation produces any of the listed substances, per Part 10C, your use is prohibited and is now nonconforming. Certification of this nonconforming use would require referral to Joint Base Andrews for their comment per Section 27-548.57 of the Ordinance.

*Note: The Maryland-National Capital Park and Planning Commission's (Commission) role is to review permit applications for compliance with zoning and subdivision regulations. The full text of the Ordinance (Subtitle 27) is at: [https://www.municode.com/library/md/prince\\_george's\\_county/codes/code\\_of\\_ordinances](https://www.municode.com/library/md/prince_george's_county/codes/code_of_ordinances)*

**Information regarding use and occupancy permits, building permits and outstanding violations may be obtained by contacting the Prince George's County Department of Permitting, Inspections, and Enforcement (DPIE) at 301-636-2000.**

This information was researched on 9/20/21, by the undersigned, per request and as a public service. The undersigned certifies that the above information contained herein is accurate to the best of our knowledge, information, and belief, and is based upon or relates to the information supplied by the requestor. The Department assumes no liability for errors and omissions. All information was obtained from public records, which may be inspected during regular business hours.

Sincerely,  
Hilary Covington  
Planning Information Services

**MARYLAND DEPARTMENT OF THE ENVIRONMENT**

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

**SUPPLEMENT TO DOCKET #20-21**

COMPANY: Global Resource Recyclers  
LOCATION: 2600 Marble Court, Forestville, MD 20747  
APPLICATION: Installation of one (1) portable recycled asphalt pavement crushing and screening plant.

ITEM

DESCRIPTION

1

Notice of Application and Informational Meeting

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

**NOTICE OF APPLICATION AND INFORMATIONAL MEETING**

The Maryland Department of the Environment, Air and Radiation Administration (ARA) received a permit-to-construct application from Global Resource Recyclers on September 20, 2021 for the installation of one (1) portable recycled asphalt pavement crushing and screening plant. The proposed installation will be located at 2600 Marble Court, Forestville, MD 20747.

An Informational Meeting will be held on April 20, 2022, at 6 p.m. at the Comfort Inn at Joint Base Andrews, 7979 Malcolm RD, Clinton, MD 20735.

Pursuant to the Environment Article, Section 1-603, Annotated Code of Maryland, the Informational Meeting has been scheduled so that citizens can discuss the application and the permit review process with the applicant and the Department.

The application and other supporting documents are available for public inspection on the Department's website. Look for Docket #20-21 at the following link.

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

The Department will provide an interpreter for deaf and hearing impaired persons provided that a request is made for such service at least ten (10) days prior to the meeting.

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

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



**MARYLAND DEPARTMENT OF THE ENVIRONMENT**

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

**SUPPLEMENT 2 TO  
DOCKET #20-21**

COMPANY: Global Resource Recyclers  
LOCATION: 2600 Marble Court, Forestville, MD 20747  
APPLICATION: Installation of one (1) portable concrete and recycled asphalt pavement 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 Global Resource Recyclers on September 20, 2021 for the installation of one (1) portable concrete and recycled asphalt pavement crushing and screening plant. The proposed installation will be located at 2600 Marble Court, Forestville, MD 20747.

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 #20-21 at the following link:

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

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

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

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

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

Christopher R. Hoagland, Director  
Air and Radiation Administration

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

**FACT SHEET AND TENTATIVE DETERMINATION  
GLOBAL RESOURCE RECYCLERS**

**PROPOSED INSTALLATION OF ONE (1) PORTABLE CONCRETE AND RECYCLED  
ASPHALT PAVEMENT (RAP) CRUSHING AND SCREENING PLANT**

**I. INTRODUCTION**

The Maryland Department of the Environment (the "Department") received an application from Global Resource Recyclers on September 20, 2021 for a Permit to Construct for one (1) portable concrete and recycled asphalt pavement (RAP) crushing and screening plant. The proposed installation will be located at 2600 Marble Court, Forestville, MD 20747.

A notice was placed in The Prince George's Post on March 31, 2022 and April 7, 2022 announcing a scheduled informational meeting to discuss the permit to construct application. The informational meeting was held on April 20, 2022 at 6 PM at the Comfort Inn At Joint Base Andrews located at 7979 Malcolm Road, Clinton, MD 20735.

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**



Global Resource Recyclers currently does not operate any equipment or processes requiring air quality permits, but previously operated a 300 ton per hour, electric powered, concrete and recycled asphalt pavement (RAP) crushing and screening plant originally installed in 1993. The plant was controlled by wet suppression systems and consisted of one (1) Universal Impactmaster II crusher and screen. The equipment was removed in 2021.

## **B. Proposed Installation**

Global Resource Recyclers is proposing to install one (1) portable concrete and recycled asphalt pavement (RAP) crushing and screening plant, equipped with wet suppression systems and consisting of one (1) 353 ton per hour (tph) McCloskey crusher powered by one (1) 360 horsepower (hp) Tier 4 diesel engine, one (1) McCloskey screen powered by one (1) 127 hp Tier 4 diesel engine, and two (2) McCloskey conveyors each powered by one (1) 49 hp Tier 4 diesel engine. The proposed installation will be equipped with wet suppression systems to control fugitive dust. The permit will allow Global Resource Recyclers to install subsequent, equivalent replacement equipment, as needed, without obtaining a new permit to construct.

A second company, Allan Myers, plans to lease the equipment at the site. Allan Myers – GRR will obtain a separate permit to construct allowing them to operate at the GRR facility. As part of the permit conditions, only one (1) of the companies (GRR or Allan Myers) will be allowed to operate the crushing and screening equipment at the site at any one time.

## **III. APPLICABLE REGULATIONS**

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

- (a) All applicable terms, provisions, emissions standards, testing, monitoring, record keeping, and reporting requirements included in federal New Source Performance Standards (NSPS) promulgated under 40 CFR 60, Subpart A (General Provisions) and Subpart OOO for Nonmetallic Mineral Processing Plants.
- (b) COMAR 26.11.02.19C & D, which require that the Permittee submit to the Department annual certifications of emissions, and that the Permittee maintain sufficient records to support the emissions information presented in the submittals.
- (c) COMAR 26.11.06.03C 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 26.11.09.05E, which limits visible emissions from the diesel engines to 10% and 40% opacity during idle and operating modes, respectively. Exceptions to these opacity limits are as follows:
  - (i) The 10% opacity limit during idle mode does not apply for a period of 2 consecutive minutes after a period of idling of 15 minutes for the purpose of clearing the exhaust system;
  - (ii) The opacity limit during idle mode does not apply to emissions resulting directly from a cold engine start-up and warm-up for the following maximum periods:
    - (A) engines that are idling continuously when not in service: 30 minutes; and
    - (B) all other engines: 15 minutes.
  - (iii) The 10% and 40% opacity limits do not apply while maintenance, repair, or testing is being performed by qualified mechanics.
- (f) COMAR 26.11.09.07A(2), which limits the sulfur content of distillate fuel oils to not more than 0.3 percent by weight.
- (g) 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.
- (h) 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 Prince George's County complies with the NAAQS for carbon monoxide, particulate matter, nitrogen dioxide, and lead.

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

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

## **V. COMPLIANCE DEMONSTRATION AND ANALYSIS**

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

- A. Estimated Emissions** - The maximum emissions of air pollutants of concern from the proposed installation are listed in Table I.
- B. Compliance with National Ambient Air Quality Standards** - The maximum ground level concentrations for nitrogen dioxide, sulfur dioxide, carbon monoxide, and particulate matter based on the emissions from the proposed installation are listed in column 2 of Table II. The combined impact of the projected contribution from the proposed installation and the ambient background concentration for each pollutant shown in column 3 of Table II is less than the NAAQS for each pollutant shown in column 4.

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



**C. Compliance with Air Toxics Regulations** – The toxic air pollutants of concern that would be emitted from this installation is listed in column 1 of Table III. The predicted maximum off-site ambient concentration of crystalline silica is shown in column 4 of Table III, and in each case the maximum concentration is less than the corresponding screening level for crystalline silica shown in column 2.

## **VI. TENTATIVE DETERMINATION**

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

Enclosed with the tentative determination is a copy of the draft Permit to Construct.

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

POLLUTANT	PROJECTED MAXIMUM EMISSIONS FROM PROPOSED INSTALLATION	
	(lbs/day) at 10 hrs/day	(tons/year)
Nitrogen Dioxide (NO <sub>2</sub> )	3.87	0.15
Sulfur Dioxide (SO <sub>2</sub> )	11.99	0.48
Carbon Monoxide (CO)	39.85	1.59
Volatile Organic Compounds (VOC)	1.81	0.07
Particulate Matter (PM <sub>10</sub> )	0.21	0.44

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

POLLUTANTS	MAXIMUM OFF-SITE GROUND LEVEL CONCENTRATIONS CAUSED BY EMISSIONS FROM PROPOSED PROCESS (µg/m <sup>3</sup> )	BACKGROUND AMBIENT AIR CONCENTRATIONS (µg/m <sup>3</sup> )*	NATIONAL AMBIENT AIR QUALITY STANDARDS (NAAQS) (µg/m <sup>3</sup> )
Nitrogen Dioxide (NO <sub>2</sub> )	annual avg. → 2.0	annual avg. → 11.80	annual avg. → 100
Carbon Monoxide (CO)	8-hour max → 185.1 1-hour max → 264.5	8-hr max. → 802 1-hr max. → 1260	8-hr max. → 10,000 1-hr max. → 40,000
Sulfur Dioxide (SO <sub>2</sub> )	24-hour max. → 31.8 annual avg. → 6.4	24-hour max. → 2.88 annual avg. → 0.21	24-hour max. → 366 annual avg. → 78.5
Particulate Matter (PM <sub>10</sub> )	24-hr max → 77.1	24-hr max. → 32	24-hr max. → 150

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

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

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

<b>TOXIC AIR POLLUTANTS</b>	<b>SCREENING LEVELS (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>PROJECTED WORST-CASE FACILITY-WIDE EMISSIONS (lbs/hr)</b>	<b>PREDICTED MAXIMUM OFF-SITE GROUND LEVEL CONCENTRATIONS (<math>\mu\text{g}/\text{m}^3</math>)</b>
Crystalline Silica	1-hour→ None 8-hour→0.25 Annual→ None	0.00065	1-hour→ None 8-hour→ 0.080 Annual→ None

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

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



**DRAFT PERMIT**

Larry Hogan  
Governor

Horacio Tablada  
Secretary

**Air and Radiation Administration**

1800 Washington Boulevard, Suite 720  
Baltimore, MD 21230

Construction Permit

Operating Permit

PREMISES NO.:

033-2066-6-1638

DATE ISSUED:

[Date Issued]

PERMIT FEE:

\$2,000.00 (Paid)

EXPIRATION DATE:

To Be Paid in Accordance with COMAR  
26.11.02.04B

**LEGAL OWNER & ADDRESS**

Global Resource Recyclers  
2600 Marble Court  
Forestville, MD 20747  
Attention: Mr. Harold Green, CEO

**SITE**

Global Resource Recyclers  
2600 Marble Court  
Forestville, MD 20747  
AI # 28901

**SOURCE DESCRIPTION**

This permit authorizes the installation of one (1) concrete and recycled asphalt pavement (RAP) crushing and screening plant.

This permit supersedes all previous permits to construct issued to ARA Premises 033-2066.

This permit to construct also serves as a temporary permit to operate for a period of up to 180 days after initiating operation of the plant authorized by this permit.

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

\_\_\_\_\_  
Program Manager

\_\_\_\_\_  
Director, Air and Radiation Administration

**GLOBAL RESOURCE RECYCLERS  
PERMIT-TO-CONSTRUCT CONDITIONS  
PREMISES No. 033-2066**

**INDEX**

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

This permit-to-construct is issued to cover the following registered installation:

<b>ARA Registration Number</b>	<b>Description</b>	<b>Date of Installation</b>
033-2066-6-1638	<p>One (1) portable concrete and recycled asphalt pavement (RAP) crushing and screening plant, equipped with wet suppression systems and consisting of:</p> <ul style="list-style-type: none"> <li>• One (1) 353 ton per hour (tph) crusher powered by one (1) 360 horsepower (hp) Tier 4 diesel engine;</li> <li>• One (1) 500 tph screen powered by one (1) 127 hp Tier 4 diesel engine; and</li> <li>• Two (2) 300 tph conveyors each powered by one (1) 49 hp Tier 4 diesel engine.</li> </ul>	<p>2022</p> <p>Subsequent equivalent equipment may be installed to replace existing equipment, as needed.</p>

**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) Application for Processing or Manufacturing Equipment (Form 5) received at the Department on September 20, 2021.
  - (b) Application for Gas Cleaning or Emission Control Equipment (Form 6) received at the Department on September 20, 2021.
  - (c) Toxic Air Pollutant (TAP) Emissions Summary and Compliance Demonstration (Form 5T) received at the Department on September 20, 2021.

**GLOBAL RESOURCE RECYCLERS  
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- (d) Emission Point Data (Form 5EP) received at the Department on September 20, 2021.
- (e) Supplemental Information for vendor specifications, emissions calculations, and zoning approval received at the Department on September 20, 2021.

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 Prince George’s County Health Department shall at any reasonable time be granted, without delay and without prior notification, access to the Permittee’s property and permitted to:
  - (a) inspect any construction authorized by this permit;
  - (b) sample, as necessary to determine compliance with requirements of this permit, any materials stored or processed on-site, any waste materials, and any discharge into the environment;
  - (c) inspect any monitoring equipment required by this permit;
  - (d) review and copy any records, including all documents required to be maintained by this permit, relevant to a determination of compliance with requirements of this permit; and
  - (e) obtain any photographic documentation or evidence necessary to determine compliance with the requirements of this permit.
- (3) The Permittee shall notify the Department prior to increasing quantities and/or changing the types of any materials referenced in the application or limited by this permit. If the Department determines that such increases or changes constitute a modification, the Permittee shall obtain a permit-to-construct prior to implementing the modification.
- (4) Nothing in this permit authorizes the violation of any rule or regulation or the creation of a nuisance or air pollution.



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- (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 permit-to-construct number all previous permits-to-construct issued to ARA Premises No. 033-2066.
- (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:

All applicable terms, provisions, emissions standards, testing, monitoring, record keeping, and reporting requirements included in federal New Source Performance Standards (NSPS) promulgated under 40 CFR 60, Subparts A and OOO for Nonmetallic Mineral Processing Plants.

All notifications required under 40 CFR 60, Subparts A and OOO shall be submitted to both of the following:

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

and

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

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- (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
    - (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 the diesel engines to 10% and 40% opacity during idle and operating modes, respectively. Exceptions to these opacity limits are as follows:

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- (i) The 10% opacity limit during idle mode does not apply for a period of 2 consecutive minutes after a period of idling of 15 minutes for the purpose of clearing the exhaust system;
  - (ii) The 10% opacity limit during idle mode does not apply to emissions resulting directly from a cold engine start-up and warm-up for the following maximum periods:
    - (A) engines that are idling continuously when not in service: 30 minutes; and
    - (B) all other engines: 15 minutes.
  - (iii) The 10% and 40% opacity limits do not apply while maintenance, repair, or testing is being performed by qualified mechanics.
- (g) COMAR 26.11.09.07A(2), which limits the sulfur content of distillate fuel oils to not more than 0.3 percent by weight.
- (3) This source is subject to all applicable State-only enforceable air pollution control requirements including, but not limited to, the following regulations:
- (a) COMAR 26.11.02.13A(16), which requires that the Permittee obtain from the Department, and maintain and renew as required, a valid State permit-to-operate.
  - (b) COMAR 26.11.02.19C & 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.
  - (c) 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.
  - (d) 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.

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- (e) 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 portable crushing and screening plant shall be constructed in accordance with specifications included in the incorporated applications.
- (2) This permit authorizes the installation of a portable crushing and screening plant and subsequent, equivalent replacement crushing and screening equipment as needed.
- (3) The Permittee shall equip the portable crushing and screening plant with wet suppression systems to comply with the particulate matter handling requirements of COMAR 26.11.06.03C and D and 40 CFR 60, Subpart OOO.

**Part D – Operating Conditions**

- (1) Except as otherwise provided in this part, all equipment associated with the portable crushing and screening plant covered by this permit 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) Only one (1) portable crushing and screening plant shall be operated on this property at any one time. This includes ARA Premises Nos. 033-2066 and 033-2947.
- (3) The Permittee shall only process concrete and recycled asphalt pavement in the portable crushing and screening plant unless the Permittee obtains an approval from the Department to process other materials.
- (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 for affected facilities at nonmetallic mineral processing plants constructed, modified, or reconstructed on or after April 22, 2008:



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- (a) No more than 12 percent opacity from each crusher; and
  - (b) No more than 7 percent opacity from all other fugitive sources.
- (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) The engines associated with the portable crushing and screening plant shall be nonroad engines, as defined in 40 CFR §1068.3, unless the Permittee complies with the stationary nonroad engine requirements of 40 CFR 60, Subpart IIII and 40 CFR 63, Subpart ZZZZ, as applicable, for each engine.
- (7) The engines associated with the portable crushing and screening plant shall only burn diesel fuel with a maximum sulfur content of 0.3 percent by weight.
- (8) Soils contaminated with petroleum-based fuels, other volatile organic compounds, or metals shall not be processed at the facility.
- (9) The Permittee shall control fugitive dust on site, including from plant roads and stockpiles, by using water, approved chemical dust suppressants, or combination of both.

**Part E – Notifications, Testing and Monitoring**

- (1) The Permittee shall submit written or electronic notification to the Department of the initial startup date of the portable crushing and screening plant and the initial startup date of each subsequent, equivalent replacement equipment within 15 days after such date. **[40 CFR §60.7(a)(3) and §60.676(i)]**
- (2) Not later than 180 days after the initial startup of the portable crushing and screening plant and each subsequent, equivalent replacement equipment (if required), 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:

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- (a) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
- (b) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9 of Appendix A-3 of this part, Section 2.1) must be followed.
- (c) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.

**[Reference: 40 CFR §60.675(c)(1)]**

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

**Part 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 of each material (concrete or RAP) processed in the portable crushing and screening plant in tons per month;
  - (b) A log identifying each piece of equipment operated each day, including a description of the equipment, the date of operation, and the hours of operation.
  - (c) The amount of diesel fuel burned in the diesel engines each month;

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- (d) All opacity observation test results for the initial plant and each subsequent, equivalent replacement equipment;
  - (e) Copies of all notifications of initial start-up of the crushing and screening plant and each subsequent, equivalent replacement equipment;
  - (f) Equipment information or vendor literature for all initial equipment associated with the portable plant and each subsequent, equivalent replacement equipment;
  - (g) A log of each periodic inspection of the wet suppression systems associated with the crushing and screening plant including the dates and any corrective actions taken; **[Reference: 40 CFR §60.674(b) and §60.674(b) and §60.676(b)(1)]**
  - (h) A copy of the notification of the initial startup date of the crushing and screening plant; and
  - (i) Equipment information or vendor literature for all equipment associated with the crushing and screening plant.
- (2) The Permittee shall maintain at the facility for at least five (5) years, and shall make available to the Department upon request, records necessary to support annual certifications of emissions and demonstrations of compliance for toxic air pollutants. Such records shall include, if applicable, the following:
- (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:

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- (i) all emissions data generated by such monitors;
  - (ii) all monitor calibration data;
  - (iii) information regarding the percentage of time each monitor was available for service; and
  - (iv) information concerning any equipment malfunctions.
- (f) Information concerning operation, maintenance, and performance of air pollution control equipment and compliance monitoring equipment, including:
- (i) identifications and descriptions of all such equipment;
  - (ii) operating schedules for each item of such equipment;
  - (iii) accounts of any significant maintenance performed;
  - (iv) accounts of all malfunctions and outages; and
  - (v) accounts of any episodes of reduced efficiency.
- (g) Limitations on source operation or any work practice standards that significantly affect emissions; and
- (h) Other relevant information as required by the Department.
- (3) The Permittee shall submit to the Department by April 1 of each year a certification of emissions for the previous calendar year. The certifications shall be prepared in accordance with requirements, as applicable, adopted under COMAR 26.11.01.05 – 1 and COMAR 26.11.02.19D.
- (a) Certifications of emissions shall be submitted on forms obtained from the Department.
  - (b) A certification of emissions shall include mass emissions rates for each regulated pollutant, and the total mass emissions rate for all regulated pollutants for each of the facility's registered sources of emissions.



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- (c) The person responsible for a certification of emissions shall certify the submittal to the Department in the following manner:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

- (4) The Permittee shall submit to the Department by April 1 of each year a written certification of the results of an analysis of emissions of toxic air pollutants from the Permittee’s facility during the previous calendar year. Such analysis shall include either:
- (a) A statement that previously submitted compliance demonstrations for emissions of toxic air pollutants remain valid; or
- (b) A revised compliance demonstration, developed in accordance with requirements included under COMAR 26.11.15 & 16, that accounts for changes in operations, analytical methods, emissions determinations, or other factors that have invalidated previous demonstrations.
- (5) The Permittee shall report, in accordance with requirements under COMAR 26.11.01.07, occurrences of excess emissions to the Compliance Program of the Air and Radiation Administration.

**Part 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 crushing and screening plant for a period of up to 180 days after initiating operation of the crushing and screening plant.

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- (2) The Permittee shall provide the Department with written or electronic notification of the date on which operation of the crushing and screening plant is initiated. Such notification shall be provided within 15 business days of the date to be reported.
- (3) During the effective period of the temporary permit-to-operate the Permittee shall operate the new installation as required by the applicable terms and conditions of this permit-to-construct, and in accordance with operating procedures and recommendations provided by equipment vendors.
- (4) The Permittee shall submit to the Department an application for a State permit-to-operate no later than 60 days prior to expiration of the effective period of the temporary permit-to-operate.

# MARYLAND DEPARTMENT OF THE ENVIRONMENT

## AIR AND RADIATION ADMINISTRATION

### SUPPLEMENTAL INFORMATION REFERENCES

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

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

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

<http://www.ecfr.gov>

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

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

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

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

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

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

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

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

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

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