

Tolson And Associates, LLC

Capitol Raceway RD.

Crofton, Maryland

Tolson And Associates, LLC

Sand & Gravel Mining Operation

MDE Permit No. 78-SP-0087-J

Construction & Demolition Rubblefill

MDE Permit No. 2003-WRF-0580

Rubblefill Recycling Activities

- Natural Wood Waste (Mulch) Permitted MDE
- Tier 1 Compost (Yard Waste) Permitted MDE
- Metal, Tires, OCC, Wood Waste
- Recycled Aggregate Products
 - Application for MDE Permit for Construction and Operation of a Crushing Operation Submitted 11/14/2018

Application Submittal

Cover Letter

MDE Form 5 - Application for Processing/ Manufacturing Equipment

MDE Form 5EP - Emissions Data Point

MDE Form 5T - (TAP) Emissions Summary and Compliance
Demonstration

MDE Form 44 - Air Quality Permit to Construct and Registration
Application for Internal Combustion Engines

Application Submittal

Emissions Calculations - All engines in Crushing operation (Train)

Site Map

Drawings and Vendor Literature

Fugitive Dust Control Program

Anne Arundel County Zoning Letter Verifying Crushing
Operations is a Permitted Use

Opacity Testing

Crushing Equipment

TABLE 1 RITCHIE LAND RECLAMATION LLC Equipment List February 16, 2018			
Permit	Approved Equipment	Equipment Description	Equipment ID No.
Primary Crushers			
1	Primary Jaw	Metro, 100 Jaw Crusher	LT100 TBD
Secondary/Tertiary Crushers			
2	Secondary Cone Crusher	Metro, LT1213 Crusher	LT1213 TBD
Final Crushing			
NA	None	None	
Screens			
3	ST2.8 Track Scalp Screen	Metro, 2 Deck, 9' X 16' Screen	ST2.8 TBD
4	ST3.8 Screen	Metro, 2-deck, 18' x 5' screen	ST3.8 TBD
Conveyors			
5	40' Conveyor	40' x 30' Chemist Conveyor	ST2.8 TBD
6	30' Conveyor	30' x 20' Left Wing Conveyor	ST2.8 TBD
7	30' Conveyor	30' x 20' Right Wing Conveyor	ST2.8 TBD
8	40' Conveyor	40' x 18' Under Crusher Conveyor	ST2.8 TBD
9	40' Conveyor	40' x 40' Primary Conveyor	LT100 TBD
10	20' Conveyor	20' x 12' Side Conveyor (NOT IN USE)	LT100 TBD
11	40' Conveyor	40' x 40' Under Crusher Conveyor	LT1213 TBD
12	20' Conveyor	20' x 12' Side Conveyor (NOT IN USE)	LT1213 TBD
13	42' Conveyor	42' x 12' End Conveyor	ST3.8 TBD
14	42' Conveyor	42' x 30' End Conveyor	ST3.8 TBD
15	30' Conveyor	30' x 30' Left Wing Conveyor	ST3.8 TBD
16	30' Conveyor	30' x 30' Right Wing Conveyor	ST3.8 TBD
17	40' Conveyor	40' x 20' Under-screen Conveyor	ST3.8 TBD
18	30' Conveyor	30' x 30' Conveyor	
19	30' Conveyor	30' x 30' Conveyor	
20	30' Conveyor	30' x 30' Conveyor	
21	30' Conveyor	30' x 30' Conveyor	
Generators / Power Units			
22	CAT, C4.4 Power Unit	CAT, C4.4, 160 HP, Diesel Engine	ST2.8 TBD
23	LT100 Diesel Engine	LT100 Diesel Engine	LT100 TBD
24	LT1213 Diesel Engine	CAT, C13, 415 HP Diesel Engine	LT1213 TBD
25	CAT, C4.4 Power Unit	CAT, C4.4, 160 HP, Diesel Engine	ST3.8 TBD
26	Magnum Generator	John Deere, Model 6066, 252 HP, Diesel Engine	
Bins / Chutes			
27	Primary Grizzly Feeder	Vibrating Grizzly Feed Hopper	LT100 TBD
28	Hopper	Metro, 8' x 6' Doble Yield Hopper	ST3.8 TBD
29	Agon Feeder	Agon Feeder	ST3.8 TBD
30	Vibrating Grizzly Feeder	Vibrating Grizzly Feed Hopper	LT1213 TBD
Other			

Crushing Equipment



Lokotrack ST2.8

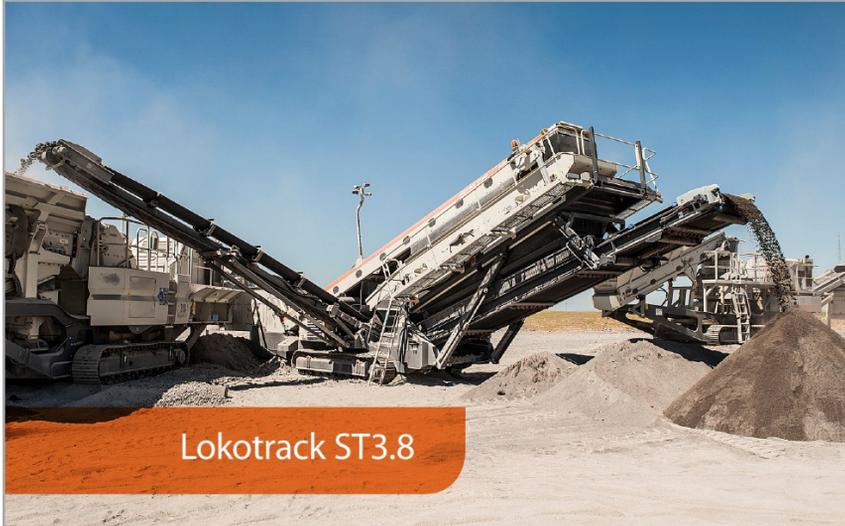
Crushing Equipment



Crushing Equipment



Crushing Equipment



Crushing Equipment



Crushing Equipment



Customer Order - Unsupervised V-14

Magnum Mobile Generator – MMG205 Specifications

ENGINE

- John Deere® PE666HFC95 - turbocharged, diesel engine
 - o Prime - 352 hp @ 1800 rpm
 - o Standby - 334 hp @ 1800 rpm
 - o 6 cylinder
 - o 6.5 L displacement
 - o Intercooler Tier IV emissions
- Steel, single wall fuel tank
 - o 342 gal. capacity
 - o 24.5 hr. run time - 60 T load
 - o Fuel tank built into side of generator set
- Fuel consumption is great
 - o 100% - 12.8 gph (48.3 Lph)
 - o 75% - 9.0 gph (34.3 Lph)
 - o 50% - 6.4 gph (24.2 Lph)
- Cooling system capable of operation at 120°F ambient
 - o Low coolant shutdown
 - o Radiator and oil drain plumbed to exterior
 - o Rubber vibration dampers isolate engine/generator from frame
 - o Disposable air filter - paper element
 - o Air filter restriction indicator mounted on control panel
 - o 60 Hz engine/generator
 - o Electronic tachometer/level indicator
 - o 10 amp FOCB / RFI / exhaust filter
 - o Variable Geometry Turbocharger (VGT)



GENERATOR

- Marathon Electric®
 - o 6000kVA
 - o 4 pole
 - o Class H insulation
- Voltage regulation +/- 1% with Marathon SI 150 Volt/amp Reg. module

SYSTEM OUTPUT

- 3 Position voltage selector switch:
 - o Single phase - 120/240V 2 leg 2-wire
 - o Three phase - 120/208V 3 leg 3-wire
 - o Three phase - 277/480V 3 leg 3-wire
- 134 kW / 317 kVA - standby, three phase
- 84 kW / 203 kVA - prime, three phase
- 1.5 kW / 155 kVA - standby, single phase
- 142 kW / 147 kVA - prime, single phase

11 PowerGen 1100 - 10/16/11 1100 Page 00 (0-01) Rev. 00-00 7/04

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Fugitive Dust Control

Fugitive Dust Control – Crushing operation

TOLSON & ASSOCIATES

End of Capitol Raceway Road
Crofton, Maryland 21114

Equipment and conveyors equipped with conveyor duct covers and discharge hoods and high pressures water spraying system

Best Management Practices will be used to control emissions of particulate matter from roadways, stockpiles and materials handling operations

Avoid overfilling loader buckets and minimize drop heights.

Wet suppression system to be used whenever necessary to control particulate emissions.

Water and or chemical dust suppressants to be used to control fugitive dust from roads or stockpiles.

Control Traffic Speeds and Flush sweep roadways as necessary.

Minimize work of stockpiles on windy days

Opacity Testing

AeroMet Engineering, Inc.
Solutions for a Changing Environment

Certification of Visible Opacity Reading

Naveen Kumar Devata

qualified to conduct EPA Method 9 Tests for visible opacity in accordance with the methods established for such qualification in 40 CFR Part 60 Appendix A.

Certification Date: April 20, 2016
Expiration Date: October 20, 2016

Trey Beauchamp
AeroMet Instructor: Trey Beauchamp

573.636.6393 | www.aeromet.org

AEROMET ENGINEERING INC. CERTIFIED THAT
Naveen Kumar Devata
has qualified as a CERTIFIED VISIBLE
per Title 40 Part 60 Appendix A USEPA Method 9
Inspected: 04/20/2016 Expires: 10/20/2016
Questions? Call: 573.636.6393

AeroMet Public School
GIFT CARD DRAWING
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Tolson & Associates, LLC

Thank You

Any questions?