



**STATE OF TENNESSEE
AIR POLLUTION CONTROL BOARD
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
NASHVILLE, TENNESSEE**

PERMIT TO CONSTRUCT / MODIFY AND OPERATE AIR CONTAMINANT SOURCE(S)

Permit Number: 082074

Facility (Permittee): BWI ETN LLC
dba Blue Water Industries – BWI Grasselli Quarry

Facility ID: 45-0220

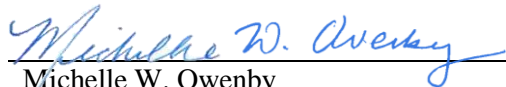
Facility Address: Brock Way – SW of Park Street near US-11E, New Market
Jefferson County

Facility Classification: True Minor

Federal Requirements: 40 CFR 60 Subpart OOO

Facility Description: Rock Crushing and Sizing Operation

Permit 082074, consisting of 51 pages is hereby issued April 19, 2024, pursuant to the Tennessee Air Quality Act and by the Technical Secretary, Tennessee Air Pollution Control Board, Department of Environment and Conservation. This permit expires on June 1, 2033. The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations (TAPCR).



Michelle W. Owenby
Technical Secretary
Tennessee Air Pollution Control Board

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

Section I – Sources Included in this Permit

FACILITY DESCRIPTION			
Source Number	Source Description	Status	Control Device/Equipment
01	McCloskey J40V2 Jaw Crusher, CAT Tier IV Engine	New	Wet Suppression Control
02	KPI-JCI Impact Crusher 5260, CAT Tier III Engine	New	Wet Suppression Control
03	Metso Lokotrack Jaw LT105, CAT Tier III Engine	New	Wet Suppression Control
04	KPI-JCI GT200 Cone Crusher, Cummins Tier IV Engine	New	Wet Suppression Control
05	McCloskey Cone Crusher C38V2, CAT Tier III Engine	New	Wet Suppression Control
06	McCloskey R155 Scalping Screen, CAT Tier IV Engine	New	Wet Suppression Control
07	McCloskey S130 Screen- CAT Tier III Engine	New	Wet Suppression Control
08	McCloskey S190 3D Screen, CAT Tier III Engine	New	Wet Suppression Control
09	AMS FT3620 Screen Unit, CAT Tier IV Engine	New	Wet Suppression Control
10	Astec PSP 2618VM Screen, Tier II John Deere Engine	New	Wet Suppression Control
11	Metso Lokotrack ST2.8 Screener, CAT Tier III Engine	New	Wet Suppression Control
12	TEREX TRS 550 Screener, CAT Tier4F Engine	New	Wet Suppression Control

Section II – Permit Record

Permit Type	Description of Permit Action	Issue Date
Initial	Initial construction / operating permit	April 19, 2024

Section III - General Permit Conditions

G1. Responsible Person

The application that was utilized in the preparation of this permit is dated January 4, 2024, and is signed by Walt Hillis, Environmental Manager, the Responsible Person for the permittee. The Responsible Person may be the owner, president, vice-president, general partner, plant manager, environmental/health/safety coordinator, or other person that is able to represent and bind the facility in environmental permitting affairs. If this Responsible Person terminates their employment or is assigned different duties and is no longer the person to represent and bind the permittee in environmental permitting affairs, the new Responsible Person for the permittee shall notify the Technical Secretary of the change in writing. The Notification shall include the name and title of the new Responsible Person assigned by the permittee to represent and bind the permittee in environmental permitting affairs, and the date the new Responsible Person was assigned these duties.

Should a change in the Responsible Person occur, the new Responsible Person must submit the Notification provided in Appendix 1 of this permit no later than 30 days after the change. A separate notification shall be submitted for each subsequent change in Responsible Person.

TAPCR 1200-03-09-.03(8)

G2. Application and Agreement Letters

This source shall operate in accordance with the terms of this permit, the information submitted in the approved permit application(s) referenced in **Condition G1**, and any documented agreements made with the Technical Secretary.

TAPCR 1200-03-09-.01(1)(d)

G3. Submittals

Unless otherwise specified within this permit, the permittee shall submit, preferably via email and in Adobe Portable Document format (PDF), all applicable plans, checklists, certifications, notifications, test protocols, reports, and applications to the attention of the following Division Programs at the email addresses indicated in the table below:

Permitting Program	Compliance Validation Program	Field Services Program
<ul style="list-style-type: none"> • Notifications • Startup certifications • Applications • NSPS reports • MACT/GACT/NESHAP reports • Emission Statements 	<ul style="list-style-type: none"> • Test protocols • Emission test reports • Visible emission evaluation reports 	<ul style="list-style-type: none"> • Semiannual reports • Annual compliance certifications/status reports
Division of Air Pollution Control William R. Snodgrass TN Tower, 15 th Floor 312 Rosa L. Parks Avenue Nashville, TN 37243 Air.Pollution.Control@tn.gov		Knoxville Environmental Field Office Division of Air Pollution Control 3711 Middlebrook Pike Knoxville, TN 37921 APC.KnoxEFO@tn.gov

The permittee shall submit the information identified above as requested in this permit. In lieu of submitting this information to the email addresses above, the permittee may submit the information to the attention of the respective Division Programs at the mailing addresses listed above.

TAPCR 1200-03-09-.03(8)

G4. Notification of changes

The permittee shall notify the Technical Secretary for any of the following changes to a permitted air contaminant source which would not be a modification requiring a new construction permit:

- change in air pollution control equipment that does not result in an increase or otherwise meet the definition of a modification
- change in stack height or diameter
- change in exit velocity of more than 25 percent or exit temperature of more than 15 percent based on absolute temperature.

The permittee must submit the Notification provided in Appendix 2 of this permit 30 days before the change is commenced.

TAPCR 1200-03-09-.02(7)

G5. Permit Transference

- A. This permit is not transferable from one air contaminant source to another air contaminant source or from one location to another location. The permittee must submit a construction permit application for a new source to the Permitting Program not less than 90 days prior to the estimated starting date of these events. If the new source will be subject to major New Source Review, the application must be submitted not less than 120 days in advance of the estimated starting date of these events.

TAPCR 1200-03-09-.03(6)(b) and 1200-03-09-.01(1)(b)

- B. In the event an ownership change occurs at this facility, the new owner must submit the notification provided in Appendix 3 of this permit. The written notification must be submitted by the new owner to the Permitting Program no later than 30 days after the ownership change occurs. If the change in ownership results in a change in Responsible Person for the facility, notification of the change in Responsible Person must also be submitted, as specified in **Condition G1**.

TAPCR 1200-03-09-.03(6)(a) and (b)

G6. Operating Permit Application Submittal

- A. The permittee shall apply for an operating permit renewal not less than 60 days prior to the permit's expiration date.

TAPCR 1200-03-09-.02(3)(a)

- B. Operation of each air contaminant source shall be in accordance with the provisions and stipulations set forth in this permit, all provisions of the Tennessee Division of Air Pollution Control Regulations, and all provisions of the Tennessee Air Quality Act.

TAPCR 1200-03-09-.02(6)

G7. Startup Certification for New or Modified Source(s)

The startup certification provided in Appendix 4 shall be submitted to the Permitting Program once an air contaminant source has started up. Startup of the air contaminant source shall be the date the new or modified air contaminant source began operation for the production of product for sale, use as raw materials, or steam or heat production under the terms of this permit. A separate startup certification must be submitted for each air contaminant source included in this permit.

TAPCR 1200-03-09-.03(8)

Compliance Method: The startup certification provided in Appendix 4 shall be submitted no later than 30 days after each air contaminant source has begun startup.

G8. Fees

The air contaminant source(s) identified in this permit shall comply with the requirements for payment of applicable annual emission fees to the Tennessee Division of Air Pollution Control based on the Administrative Fees Schedule I provided in Appendix 5 of this permit. The fee must be paid to the Division in full by the first day of the month that the fee is due (determined from Appendix 5). (Note: not all facilities are required to pay annual emission fees)

TAPCR 1200-03-26-.02

G9. General Recordkeeping Requirements

- A. All recordkeeping requirements for all data required to be recorded shall follow the following schedules:

For Daily Recordkeeping	For Weekly Recordkeeping	For Monthly Recordkeeping
No later than seven days from the end of the day for which the data is required.	No later than seven days from the end of the week for which the data is required.	No later than 30 days from the end of the month for which the data is required.

- B. The information contained in logs, records, and submittals required by this permit shall be kept at the facility's address, unless otherwise noted, and provided to the Technical Secretary or a Division representative upon request. Computer-generated logs are acceptable. Compliance is assured by retaining the logs, records, and submittals specified in this permit for a period of not less than five years at the facility's address.

TAPCR 1200-03-10-.02(2)(a)

G10. Routine Maintenance Requirements

The permittee shall maintain and repair the emission source, associated air pollution control device(s), and compliance assurance monitoring equipment as required to maintain and assure compliance with the specified emission limits.

TAPCR 1200-03-09-.03(8)

Compliance Method: Records of all repair and maintenance activities required above shall be recorded in a suitable permanent form and kept available for inspection by the Division. These records must be retained for a period of not less than five years. The date each maintenance and repair activity began shall be entered in the log no later than seven days following the start of the repair or maintenance activity, and the completion date shall be entered in the log no later than seven days after activity completion.

G11. Visible and Fugitive Emissions

- A. Unless otherwise specified, visible emissions from this facility shall not exhibit greater than 20% opacity, except for one six-minute period in any one-hour period, and for no more than four six-minute periods in any 24-hour period. A stack is defined as any chimney, flue, conduit, exhaust, vent, or opening of any kind whatsoever, capable of, or used for, the emission of air contaminants.

TAPCR 1200-03-05-.01(1) and 1200-03-05-.03(6)

Compliance Method: When required to demonstrate compliance, visible emissions shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

- B. The permittee shall not cause, suffer, allow, or permit any materials to be handled, transported, or stored; or a building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Reasonable precautions shall include, but are not limited to, the following:
- (a) Use, where possible, of water or chemicals for control of dust in demolition of existing buildings or structures, construction operations, grading of roads, or the clearing of land;
 - (b) Application of asphalt, water, or suitable chemicals on dirt roads, material stock piles, and other surfaces which can create airborne dusts;

- (c) Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials. Adequate containment methods shall be employed during sandblasting or other similar operations.

The permittee shall not cause, suffer, allow, or permit fugitive dust to be emitted in such manner to exceed five minutes per hour or 20 minutes per day as to produce a visible emission beyond the property line of the property on which the emission originates, excluding malfunction of equipment as provided in TAPCR 1200-03-20. A malfunction is defined as, any sudden and unavoidable failure of process equipment or for a process to operate in an abnormal and unusual manner. Failures that are caused by poor maintenance, careless operation, or any other preventable upset condition or preventable equipment breakdown shall not be considered malfunctions.

TAPCR 1200-03-08-.01(1) and 1200-03-08-.01(2)

Compliance Method: Fugitive emissions shall be determined by Tennessee Visible Emissions Evaluation Method 4 as adopted by the Tennessee Air Pollution Control Board on April 16, 1986.

- C. Fugitive emissions from roads and parking areas shall not exhibit greater than 10% opacity.

TAPCR 1200-03-08-.03

Compliance Method: When required to demonstrate compliance, fugitive emissions from roads and parking areas shall be determined by utilizing Tennessee Visible Emissions Evaluation (TVEE) Method 1, as adopted by the Tennessee Air Pollution Control Board on April 29, 1982, as amended on September 15, 1982, and August 24, 1984.

G12. Facility-wide Limitations

Not Applicable

G13. NSPS/NESHAP/MACT/GACT Standards

The following source(s) are subject to and shall comply with all applicable requirements of each NSPS/MACT/GACT standard as indicated in the table below, including the General Provisions identified in Appendix 10. The applicable requirements of each standard are incorporated into this permit pursuant to TAPCR 1200-03-09-.03(8) and TAPCR 0400-30-38-.01.

Source	NESHAP/MACT/GACT	NSPS
01	NA	40 CFR Subpart 000
02	NA	40 CFR Subpart 000
03	NA	40 CFR Subpart 000
04	NA	40 CFR Subpart 000
05	NA	40 CFR Subpart 000
06	NA	40 CFR Subpart 000
07	NA	40 CFR Subpart 000
08	NA	40 CFR Subpart 000
09	NA	40 CFR Subpart 000
10	NA	40 CFR Subpart 000
11	NA	40 CFR Subpart 000
12	NA	40 CFR Subpart 000

TAPCR 1200-03-09-.03(8) and 0400-30-38-.01

Compliance Method: Compliance methods are provided in the conditions in **Section V** of this permit.

G14. VOC and NO_x Emission Statement

Not Applicable

G15. Permit Supersedes Statement

Not Applicable

G16. Source Testing Requirements

See Source Specific Permit Conditions in Section V

G17. Location of Portable Unit(s)

The permittee shall maintain documentation to demonstrate when any or all portable units are located at this facility.

TAPCR 1200-03-09-.03(8) and 1200-03-10-.02(2)(a)

Compliance Method: The permittee shall maintain a log that readily provides the information required in the table in Appendix 8, or in an alternative format which provides the same information. The logs shall be retained in accordance with **Condition G9**.

G18. Production Limitations

The combined total production rate for sources 01 through 12 shall not exceed **450,000** tons per calendar year. Should the permittee need to modify the source(s) in a manner that increases the capacity, a construction permit shall be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8), 1200-03-10-.02(2)(a), and the agreement letter dated January 4, 2024, from the permittee (Appendix 7)

Compliance Method: The permittee shall maintain a log of the actual monthly production in a form that readily provides the information required in the tables in Appendix 8, or in an alternative format which provides the same information. The logs shall be retained in accordance with **Condition G9**.

G19. Emission Limitations

Combined Fugitive Particulate Matter (PM) emitted from sources 01 through 12 shall not exceed **46.01** pounds per hour (lbs/hr) on a daily average basis.

TAPCR 1200-03-07-.03(1) and the application dated January 4, 2024, from the permittee

Compliance Method: Compliance with this emission limitation is assured by compliance with **Conditions S1-1, S2-1, S3-1, S4-1, S5-1, S6-1, S7-1, S8-1, S9-1, S10-1, S11-1, S12-1, F1-3, F2-3, F3-3, F4-3, F5-3, F6-3, F7-3, F8-3, F9-3, F10-3, F11-3, and F12-3**.

Wet suppression must be applied at every transition (crushers, screens, and all other equipment items) and on storage piles, roads, and parking areas as needed to comply with this emission limits. The wet suppression system shall be

maintained in good working condition in order to provide sufficient water pressure and water flow to effectively control fugitive emissions. The permittee shall maintain a daily log of wet suppression control while the source is in operation that readily provides the information required in the table in Appendix 9, or in an alternative format which provides the same information. If the facility is using a control mechanism to reduce fugitive emissions other than the water spray system (for example, water from recent rainfall), the log entry must specify the control mechanism being used instead of the water spray system. Days that the source is not in operation shall be noted. The logs shall be retained in accordance with **Condition G9**.

Section IV – Federal and/or State Only Requirements

See Source Specific Permit Conditions in Section V

Section V - Source Specific Permit Conditions

Source No	Source Description
01	McCloskey J40V2 Jaw Crusher, CAT Tier IV Engine Operation with Wet Suppression Control

S1-1. Input Limitation(s) or Statement(s) of Design Capacity

The design capacity (in tons per hour) of the crushers, screens, width of conveyors, and surface area of screens shall not exceed the limits listed below:

McCloskey J40V2 Jaw Crusher, CAT Tier IV Engine				
Operation/Equipment	I.D. No.	Size	Manufacturing Date/ Status	Capacity (ton/hr)
Jaw Crusher	JCR1	-	2018-NSPS	450
Feeder Box	JF-1	14' x 7'	2018-Non-NSPS	-
Main Conveyor	JC-1	36"	2018-NSPS	-

Should the permittee need to modify the source(s) in a manner that increases the maximum design capacity or size, a construction permit shall be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8) and the application dated January 4, 2024, from the permittee.

Compliance Method: The permittee shall maintain documentation to demonstrate the design capacity of the crusher (tons per hour), width of the conveyor and size of the feeder. Documentation may include, but is not limited to, purchase records, operating manuals, or a tag affixed to the unit by the manufacturer. If documentation is not available upon request for all equipment, measurements and calculations shall be provided which confirm the capacity or size of the equipment. These documents, measurements, and calculations shall be kept readily available/accessible and made available upon request by the Technical Secretary or a Division representative.

S1-2. Production Limitation(s)

See Section III – Condition G18

S1-3. Operating Hour Limitation(s)

Not Applicable

S1-4. Emission Limitation(s)

See Section III – Condition G19

S1-5. Source Specific Visible Emissions Limitations(s)

See Condition F1-1

Federal and/or State Requirements

F1-1. Source-Specific Visible Emissions Limitation(s)

- A. Visible emissions from the NSPS Jaw Crusher (ID# JCR1) shall not exceed **12%** opacity as determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average). This limitation is established pursuant to 40 CFR 60 Subpart OOO and TAPCR 1200-03-09-.03(8).
- B. Visible Emissions from the NSPS Main Conveyor (ID# JC-1) shall not exceed **7%** as determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

TAPCR 1200-03-09-.03(8), 40 CFR 60 Subpart OOO and the permit application dated January 4, 2024, from the permittee

Compliance Method: When required to demonstrate compliance, visible emissions shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average) and compliance with **Condition F1-3**. Compliance with this visible emission limit must be based on the average of five 6-minute data averages.

F1-2. Source Specific NSPS New Performance Test

The McCloskey J40V2 Jaw Crusher was originally performance tested at 2107 Big Hill Road in Lenoir City (Greenback Quarry) on November 2, 2022. The equipment listed in this Visible Emissions Evaluations Report is in Appendix 11. This performance test was approved by the Division's Compliance Validation Program (see letter dated November 23, 2022, in Appendix 11. As long as the equipment remains configured as it was during the original performance testing, this performance testing shall remain valid for the equipment at all locations at which the equipment is operated. The Technical Secretary shall be notified of any change in equipment configuration and additional performance testing may be required.

TAPCR 1200-03-09-.03(8) and 40 CFR §§60.8 and §60.93

F1-3. For NSPS equipment- The following requirement only applies to NSPS equipment manufactured on or after April 22, 2008

Wet suppression must be applied at every transition in this operation (crushers, all other equipment items) and on storage piles, roads, and parking areas as needed to comply with the standards in this permit. The wet suppression system shall be maintained in good working condition in order to provide sufficient water pressure and water flow to effectively control fugitive emissions. The permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The permittee shall initiate, as well as record, corrective action within 24 hours and complete, as well as record, corrective action as expediently as

practical if the permittee finds that water is not flowing properly during an inspection of the water spray nozzles. Pursuant to 40 CFR §60.676(b)(1), the permittee shall record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in a log. If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry must specify the control mechanism being used instead of the water sprays. Inspection records shall also include the initials of the person performing the inspection(s) and corrective action(s), along with the time, and any relevant comments. These records shall be retained in accordance with **Condition G9**.

TAPCR 1200-03-09-.03(8) and 1200-03-10-.02(2)(a), 40 CFR §60.674(b), 40 CFR §60.676(b)(1)

F1-4. Source-Specific NSPS “Non-Road Engine”

McCloskey J40V2 Jaw Crusher, CAT Tier IV Engine that powers the unit serves as dual purpose by both propelling itself and powering the operation of the unit. The engine is an integral part of the unit and meets the definition of “non-road engine” in accordance with 40 CFR Part 1068, Subpart A, Applicability and Miscellaneous Provisions under General Compliance Provisions for Highway, Stationary, and Non- Road Engines.

40 CFR §1068.30, TAPCR 1200-03-09-.03(8), and the application dated January 4, 2024, from the permittee

Compliance Method: Compliance with this condition shall be assured by maintaining copies of the manufacturer’s information for the above equipment. This information shall be kept at the facility’s address, unless otherwise noted, and provided to the Technical Secretary or a Division representative upon request.

Source No	Source Description
02	KPI-JCI Impact Crusher 5260, CAT Tier III Engine with Wet Suppression Control

S2-1. Input Limitation(s) or Statement(s) of Design Capacity

The design capacity (in tons per hour) of the crushers, screens, width of conveyors, and surface area of screens shall not exceed the limits listed below:

KPI-JCI Impact Crusher 5260, CAT Tier III Engine				
Operation/Equipment	I.D. No.	Size	Manufacturing Date/ Status	Capacity (ton/hr)
Impact Crusher	ICR1	-	2013-NSPS	450
Feeder Box	IF1	50’ x 15’	2013-Non-NSPS	-
Main Conveyor	IC1	40”	2013-NSPS	-
Side Conveyor	IC2	24”	2013-NSPS	-

Should the permittee need to modify the source(s) in a manner that increases the maximum design capacity or size, a construction permit shall be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8) and the application dated January 4, 2024, from the permittee.

Compliance Method: The permittee shall maintain documentation to demonstrate the design capacity of the crusher (tons per hour), width of the conveyor(s) and size of the feeder. Documentation may include, but is not limited to, purchase records, operating manuals, or a tag affixed to the unit by the manufacturer. If documentation

is not available upon request for all equipment, measurements and calculations shall be provided which confirm the capacity or size of the equipment. These documents, measurements, and calculations shall be kept readily available/accessible and made available upon request by the Technical Secretary or a Division representative.

S2-2. Production Limitation(s)

See Section III – Condition G18

S2-3. Operating Hour Limitation(s)

Not Applicable

S2-4. Emission Limitation(s)

See Section III – Condition G19

S2-5. Source Specific Visible Emissions Limitations(s)

See Condition F2-1

Federal and/or State Requirements

F2-1. Source-Specific Visible Emissions Limitation(s)

- A. Visible emissions from the NSPS Impact Crusher (ID# ICR1) shall not exceed **12%** opacity as determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average). This limitation is established pursuant to 40 CFR 60 Subpart OOO and TAPCR 1200-03-09-.03(8).
- B. Visible Emissions from the NSPS Main Conveyor (ID# IC1), and Side Conveyor (ID# IC2) shall not exceed **7%** as determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

TAPCR 1200-03-09-.03(8), 40 CFR 60 Subpart OOO and the application dated January 4, 2024, from the permittee.

Compliance Method: Compliance with this limitation is assured by the performance test required by **Condition F2-2**

F2-2. Source Specific NSPS New Performance Test Requirements

Within 60 days after achieving the maximum production rate at which the affected source will be operated, but no later than 180 days after start-up of this source, the owner or operator shall furnish the Technical Secretary a written report of the results of the performance test which will demonstrate compliance with the opacity standard(s) as specified in **Condition F2-1** of this permit. For the purpose of determining compliance, each performance test shall be conducted as per the provisions of the New Source Performance Standards for Non-Metallic Mineral Processing Plants (40 CFR Part 60 Subpart OOO) to demonstrate compliance with **Condition F2-1** of this permit. At least 30 days prior to the performance test, the Division's Compliance Validation Program shall be notified at the addresses provided in **Condition G3**. The notification shall include the test protocol.

The performance test report shall be submitted to the Compliance Validation Program in pdf format at the address provided in **Condition G3**.

TAPCR 1200-03-09-.03(8) and 40 CFR §§60.8 and §60.93

F2-3. For NSPS equipment- The following requirement only applies to NSPS equipment manufactured on or after April 22, 2008

Wet suppression must be applied at every transition in this operation (crushers, all other equipment items) and on storage piles, roads, and parking areas as needed to comply with the standards in this permit. The wet suppression system shall be maintained in good working condition in order to provide sufficient water pressure and water flow to effectively control fugitive emissions. The permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The permittee shall initiate, as well as record, corrective action within 24 hours and complete, as well as record, corrective action as expeditiously as practical if the permittee finds that water is not flowing properly during an inspection of the water spray nozzles. Pursuant to 40 CFR §60.676(b)(1), the permittee shall record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in a log. If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry must specify the control mechanism being used instead of the water sprays. Inspection records shall also include the initials of the person performing the inspection(s) and corrective action(s), along with the time, and any relevant comments. These records shall be retained in accordance with **Condition G9**.

TAPCR 1200-03-09-.03(8) and 1200-03-10-.02(2)(a), 40 CFR §60.674(b), 40 CFR §60.676(b)(1)

F2-4. Source-Specific NSPS “Non-Road Engine”

KPI-JCI Impact Crusher 5260, CAT Tier III Engine that powers the unit serves as dual purpose by both propelling itself and powering the operation of the unit. The engine is an integral part of the unit and meets the definition of “non-road engine” in accordance with 40 CFR Part 1068, Subpart A, Applicability and Miscellaneous Provisions under General Compliance Provisions for Highway, Stationary, and Non- Road Engines.

40 CFR §1068.30, TAPCR 1200-03-09-.03(8), and the application dated January 4, 2024, from the permittee

Compliance Method: Compliance with this condition shall be assured by maintaining copies of the manufacturer’s information for the above equipment. This information shall be kept at the facility’s address, unless otherwise noted, and provided to the Technical Secretary or a Division representative upon request.

Source No	Source Description
03	Metso Lokotrack Jaw LT105, CAT Tier III Engine with Wet Suppression Control

S3-1. Input Limitation(s) or Statement(s) of Design Capacity

The design capacity (in tons per hour) of the crushers, width of conveyors, and surface area of screens shall not exceed the limits listed below:

Metso Lokotrack Jaw LT105, CAT Tier III Engine				
Operation/Equipment	I.D. No.	Size	Manufacturing Date/ Status	Capacity (ton/hr)
Jaw Crusher	LTJ-CR1	-	2000-NSPS	450
Vibratory Grizzly Feeder	LTJ-F1	48”x 14’	2000-Non-NSPS	-
Main Conveyor	LTJ-C1	42”	2000-NSPS	-

Side Conveyor	LTJ-C2	18"	2000-NSPS	-
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Should the permittee need to modify the source(s) in a manner that increases the maximum design capacity or size, a construction permit shall be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8) and the application dated January 4, 2024, from the permittee.

Compliance Method: The permittee shall maintain documentation to demonstrate the design capacity of the crusher (tons per hour), width of the conveyor(s) and size of the feeder. Documentation may include, but is not limited to, purchase records, operating manuals, or a tag affixed to the unit by the manufacturer. If documentation is not available upon request for all equipment, measurements and calculations shall be provided which confirm the capacity or size of the equipment. These documents, measurements, and calculations shall be kept readily available/accessible and made available upon request by the Technical Secretary or a Division representative.

S3-2. Production Limitation(s)

See Section III – Condition G18

S3-3. Operating Hour Limitation(s)

Not Applicable

S3-4. Emission Limitation(s)

See Section III – Condition G19

S3-5. Source Specific Visible Emissions Limitations(s)

See Condition F3-1

Federal and/or State Requirements

F3-1. Source-Specific Visible Emissions Limitation(s)

- A. Visible emissions from the NSPS Jaw Crusher (ID# LTJ-CR1) shall not exceed **15%** opacity as determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average). This limitation is established pursuant to 40 CFR 60 Subpart OOO and TAPCR 1200-03-09-.03(8).
- B. Visible Emissions from the NSPS Main Conveyor (ID# LTJ-C1), and Side Conveyor (ID# LTJ-C2) shall not exceed **10%** as determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

TAPCR 1200-03-09-.03(8), 40 CFR 60 Subpart OOO and the permit application dated January 4, 2024

Compliance Method: When required to demonstrate compliance, visible emissions shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average) and compliance with **Condition F3-3**. Compliance with this visible emission limit must be based on the average of five 6-minute data averages.

F3-2. Source Specific NSPS New Performance Test Requirements

The Metso Lokotrack Jaw LT105 was originally performance tested at 605 Cherokee Explosives Drive in Rutledge (Rutledge Quarry) on December 19, 2007, and approved by the Division's Compliance Validation Program (see letter in Appendix 12). As long as the equipment remains configured as it was during the original performance testing, this performance testing shall remain valid for the equipment at all locations at which the equipment is operated. The Technical Secretary shall be notified of any change in equipment configuration and additional performance testing may be required.

TAPCR 1200-03-09-.03(8) and 40 CFR §§60.8 and §60.93

F3-3. For NSPS equipment- The following requirement only applies to NSPS equipment manufactured on or after April 22, 2008

Wet suppression must be applied at every transition in this operation (crushers, all other equipment items) and on storage piles, roads, and parking areas as needed to comply with the standards in this permit. The wet suppression system shall be maintained in good working condition in order to provide sufficient water pressure and water flow to effectively control fugitive emissions. The permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The permittee shall initiate, as well as record, corrective action within 24 hours and complete, as well as record, corrective action as expediently as practical if the permittee finds that water is not flowing properly during an inspection of the water spray nozzles. Pursuant to 40 CFR §60.676(b)(1), the permittee shall record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in a log. If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry must specify the control mechanism being used instead of the water sprays. Inspection records shall also include the initials of the person performing the inspection(s) and corrective action(s), along with the time, and any relevant comments. These records shall be retained in accordance with **Condition G9**.

TAPCR 1200-03-09-.03(8) and 1200-03-10-.02(2)(a), 40 CFR §60.674(b), 40 CFR §60.676(b)(1)

F3-4. Source-Specific NSPS "Non-Road Engine"

Metso Lokotrack Jaw LT105, CAT Tier III Engine that powers the unit serves as dual purpose by both propelling itself and powering the operation of the unit. The engine is an integral part of the unit and meets the definition of "non-road engine" in accordance with 40 CFR Part 1068, Subpart A, Applicability and Miscellaneous Provisions under General Compliance Provisions for Highway, Stationary, and Non- Road Engines.

40 CFR §1068.30, TAPCR 1200-03-09-.03(8), and the application dated January 4, 2024, from the permittee

Compliance Method: Compliance with this condition shall be assured by maintaining copies of the manufacturer's information for the above equipment. This information shall be kept at the facility's address, unless otherwise noted, and provided to the Technical Secretary or a Division representative upon request.

Source No	Source Description
04	KPI-JCI GT200 Cone Crusher, Cummins Tier IV Engine with Wet Suppression Control

S4-1. Input Limitation(s) or Statement(s) of Design Capacity

The design capacity (in tons per hour) of the crushers, screens, width of conveyors, and surface area of screens shall not exceed the limits listed below:

KPI-JCI GT200 Cone Crusher, Cummins Tier IV Engine				
Operation/Equipment	I.D. No.	Size	Manufacturing Date/ Status	Capacity (ton/hr)
Cone Crusher	GT CR1	-	2019-NSPS	385
Belt Feeder	GT BF1	42"	2019-NSPS	-
Under Crusher Conveyor	GT C1	36"	2019-NSPS	-

Should the permittee need to modify the source(s) in a manner that increases the maximum design capacity or size, a construction permit shall be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8) and the application dated January 4, 2024, from the permittee.

Compliance Method: The permittee shall maintain documentation to demonstrate the design capacity of the crusher (tons per hour), width of the conveyor(s). Documentation may include, but is not limited to, purchase records, operating manuals, or a tag affixed to the unit by the manufacturer. If documentation is not available upon request for all equipment, measurements and calculations shall be provided which confirm the capacity or size of the equipment. These documents, measurements, and calculations shall be kept readily available/accessible and made available upon request by the Technical Secretary or a Division representative.

S4-2. Production Limitation(s)

See Section III – Condition G18

S4-3. Operating Hour Limitation(s)

Not Applicable

S4-4. Emission Limitation(s)

See Section III – Condition G19

S4-5. Source Specific Visible Emissions Limitations(s)

See Condition F4-1

Federal and/or State Requirements

F4-1. Source-Specific Visible Emissions Limitation(s)

- A. Visible emissions from the NSPS Cone Crusher (ID# GT-CR1), shall not exceed **12%** opacity as determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average). This limitation is established pursuant to 40 CFR 60 Subpart OOO and TAPCR 1200-03-09-.03(8).
- B. Visible Emissions from the NSPS Belt Feeder (ID# GT- BF1) and Under Crusher Conveyor (ID# GT C1) shall not exceed **7%** as determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

TAPCR 1200-03-09-.03(8), 40 CFR 60 Subpart OOO and the application dated January 4, 2024, from the permittee.

Compliance Method: When required to demonstrate compliance, visible emissions shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average) and compliance with **Condition F4-3**. Compliance with this visible emission limit must be based on the average of five 6-minute data averages.

F4-2. Source Specific NSPS New Performance Test Requirements

The KPI-JCI GT200 Cone Crusher was originally performance tested at 2107 Big Hill Road in Lenoir City (Greenback Quarry) on November 2, 2022. The equipment listed in this Visible Emissions Evaluations Report for is in Appendix 11. This performance test was approved by the Division's Compliance Validation Program (see letter dated November 23, 2022, in Appendix 11. As long as the equipment remains configured as it was during the original performance testing, this performance testing shall remain valid for the equipment at all locations at which the equipment is operated. The Technical Secretary shall be notified of any change in equipment configuration and additional performance testing may be required.

TAPCR 1200-03-09-.03(8) and 40 CFR §§60.8 and §60.93

F4-3. For NSPS equipment- The following requirement only applies to NSPS equipment manufactured on or after April 22, 2008

Wet suppression must be applied at every transition in this operation (crushers, all other equipment items) and on storage piles, roads, and parking areas as needed to comply with the standards in this permit. The wet suppression system shall be maintained in good working condition in order to provide sufficient water pressure and water flow to effectively control fugitive emissions. The permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The permittee shall initiate, as well as record, corrective action within 24 hours and complete, as well as record, corrective action as expediently as practical if the permittee finds that water is not flowing properly during an inspection of the water spray nozzles. Pursuant to 40 CFR §60.676(b)(1), the permittee shall record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in a log. If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry must specify the control mechanism being used instead of the water sprays. Inspection records shall also include the initials of the person performing the inspection(s) and corrective action(s), along with the time, and any relevant comments. These records shall be retained in accordance with **Condition G9**.

TAPCR 1200-03-09-.03(8) and 1200-03-10-.02(2)(a), 40 CFR §60.674(b), 40 CFR §60.676(b)(1)

F4-4. Source-Specific NSPS “Non-Road Engine”

KPI-JCI GT200 Cone Crusher, Cummins Tier IV Engine that powers the unit serves as dual purpose by both propelling itself and powering the operation of the unit. The engine is an integral part of the unit and meets the definition of “non-road engine” in accordance with 40 CFR Part 1068, Subpart A, Applicability and Miscellaneous Provisions under General Compliance Provisions for Highway, Stationary, and Non- Road Engines.

40 CFR §1068.30, TAPCR 1200-03-09-.03(8), and the application dated January 4, 2024, from the permittee

Compliance Method: Compliance with this condition shall be assured by maintaining copies of the manufacturer’s information for the above equipment. This information shall be kept at the facility’s address, unless otherwise noted, and provided to the Technical Secretary or a Division representative upon request.

Source No	Source Description
05	McCloskey Cone Crusher C38V2, CAT Tier III Engine with Wet Suppression Control

S5-1. Input Limitation(s) or Statement(s) of Design Capacity

The design capacity (in tons per hour) of the crushers, screens, width of conveyors, and surface area of screens shall not exceed the limits listed below:

McCloskey Cone Crusher C38V2, CAT Tier III Engine				
Operation/Equipment	I.D. No.	Size	Manufacturing Date/ Status	Capacity (ton/hr)
Cone Crusher	MC CR1	-	2014-NSPS	350
Belt Feeder	MC BF1	42”	2014-NSPS	-
Under Crusher Conveyor	MC C1	42”	2014-NSPS	-

Should the permittee need to modify the source(s) in a manner that increases the maximum design capacity or size, a construction permit shall be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8) and the application dated January 4, 2024, from the permittee.

Compliance Method: The permittee shall maintain documentation to demonstrate the design capacity of the crusher (tons per hour), width of the conveyor(s). Documentation may include, but is not limited to, purchase records, operating manuals, or a tag affixed to the unit by the manufacturer. If documentation is not available upon request for all equipment, measurements and calculations shall be provided which confirm the capacity or size of the equipment. These documents, measurements, and calculations shall be kept readily available/accessible and made available upon request by the Technical Secretary or a Division representative.

S5-2. Production Limitation(s)

See Section III – Condition G18

S5-3. Operating Hour Limitation(s)

Not Applicable

S5-4. Emission Limitation(s)

See Section III – Condition G19

S5-5. Source Specific Visible Emissions Limitations(s)

See Condition F5-1

Federal and/or State Requirements

F5-1. Source-Specific Visible Emissions Limitation(s)

- A. Visible emissions from the NSPS Cone Crusher (ID# MC CR1), shall not exceed **12%** opacity as determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average). This limitation is established pursuant to 40 CFR 60 Subpart OOO and TAPCR 1200-03-09-.03(8).
- B. Visible Emissions from the NSPS Belt Feeder (ID# MC BF1) and Under Crusher Conveyor (ID# MC C1) shall not exceed **7%** as determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

TAPCR 1200-03-09-.03(8), 40 CFR 60 Subpart OOO and the application dated January 4, 2024, from the permittee.

Compliance Method: Compliance with this limitation is assured by the performance test required by **Condition F5-2**.

F5-2. Source Specific NSPS New Performance Test Requirements

Within 60 days after achieving the maximum production rate at which the affected source will be operated, but no later than 180 days after start-up of this source, the owner or operator shall furnish the Technical Secretary a written report of the results of the performance test which will demonstrate compliance with the opacity standard(s) as specified in **Condition F5-1** of this permit. For the purpose of determining compliance, each performance test shall be conducted as per the provisions of the New Source Performance Standards for Non-Metallic Mineral Processing Plants (40 CFR Part 60 Subpart OOO) to demonstrate compliance with **Condition F5-1** of this permit. At least 30 days prior to the performance test, the Division's Compliance Validation Program shall be notified at the addresses provided in **Condition G3**. The notification shall include the test protocol.

The performance test report shall be submitted to the Compliance Validation Program in pdf format at the address provided in **Condition G3**.

TAPCR 1200-03-09-.03(8) and 40 CFR §§60.8 and §60.93

F5-3. For NSPS equipment- The following requirement only applies to NSPS equipment manufactured on or after April 22, 2008

Wet suppression must be applied at every transition in this operation (crushers, all other equipment items) and on storage piles, roads, and parking areas as needed to comply with the standards in this permit. The wet suppression system shall be maintained in good working condition in order to provide sufficient water pressure and water flow to effectively control fugitive emissions. The permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The permittee shall initiate, as well as record, corrective action within 24 hours and complete, as well as record, corrective action as expediently as practical if the permittee finds that water is not flowing properly during an inspection of the water spray nozzles.

Pursuant to 40 CFR §60.676(b)(1), the permittee shall record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in a log. If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry must specify the control mechanism being used instead of the water sprays. Inspection records shall also include the initials of the person performing the inspection(s) and corrective action(s), along with the time, and any relevant comments. These records shall be retained in accordance with **Condition G9**.

TAPCR 1200-03-09-.03(8) and 1200-03-10-.02(2)(a), 40 CFR §60.674(b), 40 CFR §60.676(b)(1)

F5-4. Source-Specific NSPS “Non-Road Engine”

McCloskey Cone Crusher C38V2, CAT Tier III Engine is self-propelled that serves as dual purpose by both propelling itself and powering the operation of the unit. The engine is an integral part of the unit and meets the definition of “non-road engine” in accordance with 40 CFR Part 1068, Subpart A, Applicability and Miscellaneous Provisions under General Compliance Provisions for Highway, Stationary, and Non- Road Engines.

40 CFR §1068.30, TAPCR 1200-03-09-.03(8), and the application dated January 4, 2024, from the permittee

Compliance Method: Compliance with this condition shall be assured by maintaining copies of the manufacturer’s information for the above equipment. This information shall be kept at the facility’s address, unless otherwise noted, and provided to the Technical Secretary or a Division representative upon request.

Source No	Source Description
06	McCloskey R155 Scalping Screen, CAT Tier IV Engine with Wet Suppression Control

S6-1. Input Limitation(s) or Statement(s) of Design Capacity

The design capacity (in tons per hour) of the screen unit, width of conveyors, and surface area of screens shall not exceed the limits listed below:

McCloskey R155 Scalping Screen, CAT Tier IV Engine				
Operation/Equipment	I.D. No.	Size	Manufacturing Date/ Status	Capacity (ton/hr)
Double Deck Screen	RS1	16’ x 5’	2018-NSPS	450
Feeder Hopper	RF1	16’ x 6’	2018-NSPS	-
Feed Conveyor	RC1	55”	2018-NSPS	-
Collection Conveyor	RC2	48”	2018-NSPS	-
Tail Conveyor	RC3	55”	2018-NSPS	-
Side Conveyor	RC4	36”	2018-NSPS	-
Mid Conveyor	RC5	36”	2018-NSPS	-

Should the permittee need to modify the source(s) in a manner that increases the maximum design capacity or size, a construction permit shall be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8) and the application dated January 4, 2024, from the permittee.

Compliance Method: The permittee shall maintain documentation to demonstrate the design capacity of the crusher (tons per hour), width of the conveyor(s), the total surface area of the top screen, and size of the feeder. Documentation may include, but is not limited to, purchase records, operating manuals, or a tag affixed to the unit by the manufacturer. If documentation is not available upon request for all equipment, measurements and calculations shall be provided which confirm the capacity or size of the equipment. These documents, measurements, and calculations shall be kept readily available/accessible and made available upon request by the Technical Secretary or a Division representative.

S6-2. Production Limitation(s)

See Section III – Condition G18

S6-3. Operating Hour Limitation(s)

Not Applicable

S6-4. Emission Limitation(s)

See Section III – Condition G19

S6-5. Source Specific Visible Emissions Limitations(s)

See Condition F6-1

Federal and/or State Requirements

F6-1. Source-Specific Visible Emissions Limitation(s)

Visible Emissions from the NSPS Feeder Hopper (ID# RF1), NSPS Double Deck Screen (ID# RS1), NSPS Feed Conveyor (ID# RC1), NSPS Collection Conveyor (ID# RC2), NSPS Tail Conveyor (ID# RC3), NSPS Side Conveyor (ID# RC4), and NSPS Mid Conveyor (ID# RC5) shall not exceed **7%** as determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

TAPCR 1200-03-09-.03(8), 40 CFR 60 Subpart OOO and the application dated January 4, 2024, from the permittee

Compliance Method: When required to demonstrate compliance, visible emissions shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average) and compliance with **Condition F6-3**. Compliance with this visible emission limit must be based on the average of five 6-minute data averages.

F6-2. Source Specific NSPS New Performance Test

The McCloskey R155 Scalping Screen was originally performance tested at 2107 Big Hill Road in Lenoir City (Greenback Quarry) on November 2, 2022. The equipment listed in this Visible Emissions Evaluations Report for is in Appendix 11. This performance test was approved by the Division's Compliance Validation Program (see letter dated November 23, 2022, in Appendix 11. As long as the equipment remains configured as it was during the original performance testing, this performance testing shall remain valid for the equipment at all locations at which the equipment is operated. The Technical Secretary shall be notified of any change in equipment configuration and additional performance testing may be required.

TAPCR 1200-03-09-.03(8) and 40 CFR §§60.8 and §60.93

F6-3. For NSPS equipment- The following requirement only applies to NSPS equipment manufactured on or after April 22, 2008

Wet suppression must be applied at every transition in this operation (crushers, all other equipment items) and on storage piles, roads, and parking areas as needed to comply with the standards in this permit. The wet suppression system shall be maintained in good working condition in order to provide sufficient water pressure and water flow to effectively control fugitive emissions. The permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The permittee shall initiate, as well as record, corrective action within 24 hours and complete, as well as record, corrective action as expediently as practical if the permittee finds that water is not flowing properly during an inspection of the water spray nozzles. Pursuant to 40 CFR §60.676(b)(1), the permittee shall record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in a log. If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry must specify the control mechanism being used instead of the water sprays. Inspection records shall also include the initials of the person performing the inspection(s) and corrective action(s), along with the time, and any relevant comments. These records shall be retained in accordance with **Condition G9**.

TAPCR 1200-03-09-.03(8) and 1200-03-10-.02(2)(a), 40 CFR §60.674(b), 40 CFR §60.676(b)(1)

F6-4. Source-Specific NSPS “Non-Road Engine”

The McCloskey R155 Scalping Screen, CAT Tier IV Engine, is self-propelled, and the engine that powers the unit serves as dual purpose by both propelling itself and powering the operation of the unit. The engine is an integral part of the unit and meets the definition of “non-road engine” in accordance with 40 CFR Part 1068, Subpart A, Applicability and Miscellaneous Provisions under General Compliance Provisions for Highway, Stationary, and Non- Road Engines.

40 CFR §1068.30, TAPCR 1200-03-09-.03(8), and the application dated January 4, 2024, from the permittee

Compliance Method: Compliance with this condition shall be assured by maintaining copies of the manufacturer’s information for the above equipment. This information shall be kept at the facility’s address, unless otherwise noted, and provided to the Technical Secretary or a Division representative upon request.

Source No	Source Description
07	McCloskey S130 Screen- CAT Tier III Engine with Wet Suppression Control

S7-1. Input Limitation(s) or Statement(s) of Design Capacity

The design capacity (in tons per hour) of the screen unit, width of conveyors, and surface area of screens shall not exceed the limits listed below:

McCloskey S130 Screen- CAT Tier III Engine				
Operation/Equipment	I.D. No.	Size	Manufacturing Date/ Status	Capacity (ton/hr)
Double Deck Screen	SS1	14’ x 5’	2013-NSPS	450
Feed Hopper	SF1	14’ x 6’	2013-NSPS	-
Under Feeder Conveyor	SC1	48”	2013-NSPS	-

Main Feed Conveyor	SC2	42"	2013-NSPS	-
Tail Conveyor	SC3	48"	2013-NSPS	-
Side Conveyor	SC4	26"	2013-NSPS	-
Side Conveyor	SC5	26"	2013-NSPS	-

Should the permittee need to modify the source(s) in a manner that increases the maximum design capacity or size, a construction permit shall be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8) and the application dated January 4, 2024, from the permittee.

Compliance Method: The permittee shall maintain documentation to demonstrate the design capacity of the crusher (tons per hour), width of the conveyor(s), the total surface area of the top screen, and size of the feeder. Documentation may include, but is not limited to, purchase records, operating manuals, or a tag affixed to the unit by the manufacturer. If documentation is not available upon request for all equipment, measurements and calculations shall be provided which confirm the capacity or size of the equipment. These documents, measurements, and calculations shall be kept readily available/accessible and made available upon request by the Technical Secretary or a Division representative.

S7-2. Production Limitation(s)

See Section III – Condition G18

S7-3. Operating Hour Limitation(s)

Not Applicable

S7-4. Emission Limitation(s)

See Section III – Condition G19

S7-5. Source Specific Visible Emissions Limitations(s)

See Condition F7-1

Federal and/or State Requirements

F7-1. Source-Specific Visible Emissions Limitation(s)

Visible Emissions from the NSPS Feed Hopper (ID# SF1), NSPS Double Deck Screen (ID# SS1), NSPS Under Feeder Conveyor (ID# SC1), NSPS Main Feed Conveyor (ID# SC2), NSPS Tail Conveyor (ID# SC3), NSPS Side Conveyor (ID# SC4), and NSPS Side Conveyor (ID# SC5) shall not exceed **7%** as determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

TAPCR 1200-03-09-.03(8), 40 CFR 60 Subpart OOO and the application dated January 4, 2024, from the permittee.

Compliance Method: Compliance with this limitation is assured by the performance test required by **Condition F7-2**.

F7-2. Source Specific NSPS New Performance Test Requirements

Within 60 days after achieving the maximum production rate at which the affected source will be operated, but no later than 180 days after start-up of this source, the owner or operator shall furnish the Technical Secretary a written report of the results of the performance test which will demonstrate compliance with the opacity standard(s) as specified in **Condition F7-1** of this permit. For the purpose of determining compliance, each performance test shall be conducted as per the provisions of the New Source Performance Standards for Non-Metallic Mineral Processing Plants (40 CFR Part 60 Subpart OOO) to demonstrate compliance with **Condition F7-1** of this permit. At least 30 days prior to the performance test, the Division's Compliance Validation Program shall be notified at the addresses provided in **Condition G3**. The notification shall include the test protocol.

The performance test report shall be submitted to the Compliance Validation Program in pdf format at the address provided in **Condition G3**.

TAPCR 1200-03-09-.03(8) and 40 CFR §§60.8 and §60.93

F7-3. For NSPS equipment- The following requirement only applies to NSPS equipment manufactured on or after April 22, 2008

Wet suppression must be applied at every transition in this operation (crushers, all other equipment items) and on storage piles, roads, and parking areas as needed to comply with the standards in this permit. The wet suppression system shall be maintained in good working condition in order to provide sufficient water pressure and water flow to effectively control fugitive emissions. The permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The permittee shall initiate, as well as record, corrective action within 24 hours and complete, as well as record, corrective action as expediently as practical if the permittee finds that water is not flowing properly during an inspection of the water spray nozzles. Pursuant to 40 CFR §60.676(b)(1), the permittee shall record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in a log. If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry must specify the control mechanism being used instead of the water sprays. Inspection records shall also include the initials of the person performing the inspection(s) and corrective action(s), along with the time, and any relevant comments. These records shall be retained in accordance with **Condition G9**.

TAPCR 1200-03-09-.03(8) and 1200-03-10-.02(2)(a), 40 CFR §60.674(b), 40 CFR §60.676(b)(1)

F7-4. Source-Specific NSPS "Non-Road Engine"

McCloskey S130 Screen- CAT Tier III Engine that powers the unit serves as dual purpose by both propelling itself and powering the operation of the unit. The engine is an integral part of the unit and meets the definition of "non-road engine" in accordance with 40 CFR Part 1068, Subpart A, Applicability and Miscellaneous Provisions under General Compliance Provisions for Highway, Stationary, and Non- Road Engines.

40 CFR §1068.30, TAPCR 1200-03-09-.03(8), and the application dated January 4, 2024, from the permittee

Compliance Method: Compliance with this condition shall be assured by maintaining copies of the manufacturer's information for the above equipment. This information shall be kept at the facility's address, unless otherwise noted, and provided to the Technical Secretary or a Division representative upon request.

Source No	Source Description
08	McCloskey S190 3D Screen, CAT Tier III Engine with Wet Suppression Control

S8-1. Input Limitation(s) or Statement(s) of Design Capacity

The design capacity (in tons per hour) of the screen unit, width of conveyors, and surface area of screens shall not exceed the limits listed below:

McCloskey S190 3D Screen, CAT Tier III Engine				
Operation/Equipment	I.D. No.	Size	Manufacturing Date/ Status	Capacity (ton/hr)
Sizing Screen	MS MS1	5' x 20'	2015-NSPS	450
VGF/Feeder Box	MS BF1	5' x 15'	2015-NSPS	-
Feed Conveyor	MS C1	48"	2015-NSPS	-
Main Conveyor	MS C2	42"	2015-NSPS	-
Tail Conveyor	MS C3	48"	2015-NSPS	-
Side Conveyor	MS C4	32"	2015-NSPS	-
Side Conveyor	MS C5	32"	2015-NSPS	-
3D Transfer Conveyor	MS C6	26"	2015-NSPS	-
3D Auxiliary Conveyor	MS C7	26"	2015-NSPS	-

Should the permittee need to modify the source(s) in a manner that increases the maximum design capacity or size, a construction permit shall be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8) and the application dated January 4, 2024, from the permittee.

Compliance Method: The permittee shall maintain documentation to demonstrate the design capacity of the crusher (tons per hour), width of the conveyor(s), the total surface area of the top screen, and size of the feeder. Documentation may include, but is not limited to, purchase records, operating manuals, or a tag affixed to the unit by the manufacturer. If documentation is not available upon request for all equipment, measurements and calculations shall be provided which confirm the capacity or size of the equipment. These documents, measurements, and calculations shall be kept readily available/accessible and made available upon request by the Technical Secretary or a Division representative.

S8-2. Production Limitation(s)

See Section III – Condition G18

S8-3. Operating Hour Limitation(s)

Not Applicable

S8-4. Emission Limitation(s)

See Section III – Condition G19

S8-5. Source Specific Visible Emissions Limitations(s)

See Condition F8-1

Federal and/or State Requirements

F8-1. Source-Specific Visible Emissions Limitation(s)

Visible Emissions from the NSPS VGF/Feeder Box (ID# MS BF1), NSPS Sizing Screen (ID# MS MS1), NSPS Feed Conveyor (ID# MS C1), NSPS Main Conveyor (ID# MS C2), NSPS Tail Conveyor (ID# MS C3), NSPS Side Conveyor (ID# MS C4), NSPS Side Conveyor (ID# MS C5), NSPS 3D Transfer Conveyor (ID# MS C6) and 3D Auxiliary Conveyor (ID: MS C7) shall not exceed **7%** as determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

TAPCR 1200-03-09-.03(8), 40 CFR 60 Subpart OOO and the application dated January 4, 2024, from the permittee.

Compliance Method: Compliance with this limitation is assured by the performance test required by **Condition F8-2**.

F8-2. Source Specific NSPS New Performance Test Requirements

Within 60 days after achieving the maximum production rate at which the affected source will be operated, but no later than 180 days after start-up of this source, the owner or operator shall furnish the Technical Secretary a written report of the results of the performance test which will demonstrate compliance with the opacity standard(s) as specified in **Condition F8-1** of this permit. For the purpose of determining compliance, each performance test shall be conducted as per the provisions of the New Source Performance Standards for Non-Metallic Mineral Processing Plants (40 CFR Part 60 Subpart OOO) to demonstrate compliance with **Condition F8-1** of this permit. At least 30 days prior to the performance test, the Division's Compliance Validation Program shall be notified at the addresses provided in **Condition G3**. The notification shall include the test protocol.

The performance test report shall be submitted to the Compliance Validation Program in pdf format at the address provided in **Condition G3**.

TAPCR 1200-03-09-.03(8) and 40 CFR §§60.8 and §60.93

F8-3. For NSPS equipment- The following requirement only applies to NSPS equipment manufactured on or after April 22, 2008

Wet suppression must be applied at every transition in this operation (crushers, all other equipment items) and on storage piles, roads, and parking areas as needed to comply with the standards in this permit. The wet suppression system shall be maintained in good working condition in order to provide sufficient water pressure and water flow to effectively control fugitive emissions. The permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The permittee shall initiate, as well as record, corrective action within 24 hours and complete, as well as record, corrective action as expediently as practical if the permittee finds that water is not flowing properly during an inspection of the water spray nozzles. Pursuant to 40 CFR §60.676(b)(1), the permittee shall record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in a log. If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry must specify the control mechanism being used instead of the water sprays. Inspection records shall also include the initials of the person performing the inspection(s) and corrective action(s), along with the time, and any relevant comments. These records shall be retained in accordance with **Condition G9**.

TAPCR 1200-03-09-.03(8) and 1200-03-10-.02(2)(a), 40 CFR §60.674(b), 40 CFR §60.676(b)(1)

F8-4. Source-Specific NSPS “Non-Road Engine”

McCloskey S190 3D Screen, CAT Tier III Engine that powers the unit serves as dual purpose by both propelling itself and powering the operation of the unit. The engine is an integral part of the unit and meets the definition of “non-road engine” in accordance with 40 CFR Part 1068, Subpart A, Applicability and Miscellaneous Provisions under General Compliance Provisions for Highway, Stationary, and Non- Road Engines.

40 CFR §1068.30, TAPCR 1200-03-09-.03(8), and the application dated January 4, 2024, from the permittee

Compliance Method: Compliance with this condition shall be assured by maintaining copies of the manufacturer’s information for the above equipment. This information shall be kept at the facility’s address, unless otherwise noted, and provided to the Technical Secretary or a Division representative upon request.

Source No	Source Description
09	AMS FT3620 Screen Unit, CAT Tier IV Engine with Wet Suppression Control

S9-1. Input Limitation(s) or Statement(s) of Design Capacity

The design capacity (in tons per hour) of the screen unit, width of conveyors, and surface area of screens shall not exceed the limits listed below:

AMS FT3620 Screen Unit, CAT Tier IV Engine				
Operation/Equipment	I.D. No.	Size	Manufacturing Date/ Status	Capacity (ton/hr)
Sizing Screen	AMS S1	6’ x 20’	2013-NSPS	450
Feeder Box	AMS F1	14.5' x 8.5'	2013-NSPS	-
Conveyor (Under AMS F1)	AMS C1	48”	2013-NSPS	-
Conveyor (AMS S1 Feed)	AMS C2	48”	2013-NSPS	-
Conveyor (Crossover)	AMS C3	24”	2013-NSPS	-
Conveyor, overs (back discharge)	AMS C4	24”	2013-NSPS	-
Conveyor (front side discharge)	AMS C5	30”	2013-NSPS	-
Conveyor (back side discharge)	AMS C6	30”	2013-NSPS	-
Conveyor, fines (front discharge)	AMS C7	48”	2013-NSPS	-

Should the permittee need to modify the source(s) in a manner that increases the maximum design capacity or size, a construction permit shall be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8) and the application dated January 4, 2024, from the permittee.

Compliance Method: The permittee shall maintain documentation to demonstrate the design capacity of the crusher (tons per hour), width of the conveyor(s), the total surface area of the top screen, and size of the feeder. Documentation may include, but is not limited to, purchase records, operating manuals, or a tag affixed to the unit

by the manufacturer. If documentation is not available upon request for all equipment, measurements and calculations shall be provided which confirm the capacity or size of the equipment. These documents, measurements, and calculations shall be kept readily available/accessible and made available upon request by the Technical Secretary or a Division representative.

S9-2. Production Limitation(s)

See Section III – Condition G18

S9-3. Operating Hour Limitation(s)

Not Applicable

S9-4. Emission Limitation(s)

See Section III – Condition G19

S9-5. Source Specific Visible Emissions Limitations(s)

See Condition F9-1

Federal and/or State Requirements

F9-1. Source-Specific Visible Emissions Limitation(s)

Visible Emissions from the NSPS Feeder Box (ID# AMS F1), NSPS Sizing Screen (ID# AMS S1), NSPS Conveyor (Under AMS F1) (ID# AMS C1), NSPS Conveyor -AMS S1 Feed (ID# AMS C2), NSPS Conveyor (Crossover) (ID# AMS C3), NSPS Conveyor, overs - back discharge (ID# AMS C4), and NSPS Conveyor (front side discharge) (ID# AMS C5), Conveyor back side discharge (ID: AMS C6), and NSPS Conveyor, fines (front discharge) (ID: AMS C7) shall not exceed **7%** as determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

TAPCR 1200-03-09-.03(8), 40 CFR 60 Subpart OOO and the application dated January 4, 2024, from the permittee.

Compliance Method: When required to demonstrate compliance, visible emissions shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average) and compliance with **Condition F9-3**. Compliance with this visible emission limit must be based on the average of five 6-minute data averages.

F9-2. Source Specific NSPS New Performance Test

The AMS FT3620 Screen Unit was originally performance tested at 2107 Big Hill Road in Lenoir City (Greenback Quarry) on November 2, 2022. The equipment listed in this Visible Emissions Evaluations Report is in Appendix 11. This performance test was approved by the Division's Compliance Validation Program (see letter dated November 23, 2022, in Appendix 11. As long as the equipment remains configured as it was during the original performance testing, this performance testing shall remain valid for the equipment at all locations at which the equipment is operated. The Technical Secretary shall be notified of any change in equipment configuration and additional performance testing may be required.

TAPCR 1200-03-09-.03(8) and 40 CFR §§60.8 and §60.93

F9-3. For NSPS equipment- The following requirement only applies to NSPS equipment manufactured on or after April 22, 2008

Wet suppression must be applied at every transition in this operation (crushers, all other equipment items) and on storage piles, roads, and parking areas as needed to comply with the standards in this permit. The wet suppression system shall be maintained in good working condition in order to provide sufficient water pressure and water flow to effectively control fugitive emissions. The permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The permittee shall initiate, as well as record, corrective action within 24 hours and complete, as well as record, corrective action as expediently as practical if the permittee finds that water is not flowing properly during an inspection of the water spray nozzles. Pursuant to 40 CFR §60.676(b)(1), the permittee shall record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in a log. If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry must specify the control mechanism being used instead of the water sprays. Inspection records shall also include the initials of the person performing the inspection(s) and corrective action(s), along with the time, and any relevant comments. These records shall be retained in accordance with **Condition G9**.

TAPCR 1200-03-09-.03(8) and 1200-03-10-.02(2)(a), 40 CFR §60.674(b), 40 CFR §60.676(b)(1)

F9-4. Source-Specific NSPS “Non-Road Engine”

The AMS FT3620 Screen Unit, CAT Tier IV Engine, is self-propelled, and the engine that powers the unit serves as dual purpose by both propelling itself and powering the operation of the unit. The engine is an integral part of the unit and meets the definition of “non-road engine” in accordance with 40 CFR Part 1068, Subpart A, Applicability and Miscellaneous Provisions under General Compliance Provisions for Highway, Stationary, and Non- Road Engines.

40 CFR §1068.30, TAPCR 1200-03-09-.03(8), and the application dated January 4, 2024, from the permittee

Compliance Method: Compliance with this condition shall be assured by maintaining copies of the manufacturer’s information for the above equipment. This information shall be kept at the facility’s address, unless otherwise noted, and provided to the Technical Secretary or a Division representative upon request.

Source No	Source Description
10	Astec PSP 2618VM Screen, Tier II John Deere Engine with Wet Suppression Control

S10-1. Input Limitation(s) or Statement(s) of Design Capacity

The design capacity (in tons per hour) of the screen unit, width of conveyors, and surface area of screens shall not exceed the limits listed below:

Astec PSP 2618VM Screen, Tier II John Deere Engine				
Operation/Equipment	I.D. No.	Size	Manufacturing Date/ Status	Capacity (ton/hr)
Sizing Screen	PSP S1	6’ x 18’	2012-NSPS	450
VGF/Feeder Box	PSP F1	8’ x 14’	2012-NSPS	-
Under Feeder Conveyor	PSP C1	32”	2012-NSPS	-

Delivery Conveyor	PSP C2	36"	2012-NSPS	-
Side Conveyor	PSP C3	24"	2012-NSPS	-
Side Conveyor	PSP C4	24"	2012-NSPS	-
Fines Conveyor	PSP C5	36"	2012-NSPS	-

Should the permittee need to modify the source(s) in a manner that increases the maximum design capacity or size, a construction permit shall be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8) and the application dated January 4, 2024, from the permittee.

Compliance Method: The permittee shall maintain documentation to demonstrate the design capacity of the crusher (tons per hour), width of the conveyor(s), the total surface area of the top screen, and size of the feeder. Documentation may include, but is not limited to, purchase records, operating manuals, or a tag affixed to the unit by the manufacturer. If documentation is not available upon request for all equipment, measurements and calculations shall be provided which confirm the capacity or size of the equipment. These documents, measurements, and calculations shall be kept readily available/accessible and made available upon request by the Technical Secretary or a Division representative.

S10-2. Production Limitation(s)

See Section III – Condition G18

S10-3. Operating Hour Limitation(s)

Not Applicable

S10-4. Emission Limitation(s)

See Section III – Condition G19

S10-5. Source Specific Visible Emissions Limitations(s)

See Condition F10-1

Federal and/or State Requirements

F10-1. Source-Specific Visible Emissions Limitation(s)

Visible Emissions from the NSPS VGF/Feeder Box (ID# PSP F1), NSPS Sizing Screen (ID# PSP S1), NSPS Under Feeder Conveyor (ID# PSP C1), NSPS Delivery Conveyor (ID# PSP C2), NSPS Side Conveyor (ID# PSP C3), NSPS Side Conveyor (ID# PSP C4), and NSPS Fines Conveyor (ID# PSP C5) shall not exceed **7%** as determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

TAPCR 1200-03-09-.03(8), 40 CFR 60 Subpart OOO and the application dated January 4, 2024, from the permittee.

Compliance Method: Compliance with this limitation is assured by the performance test required by **Condition F10-2**.

F10-2. Source Specific NSPS New Performance Test

Within 60 days after achieving the maximum production rate at which the affected source will be operated, but no later than 180 days after start-up of this source, the owner or operator shall furnish the Technical Secretary a written

report of the results of the performance test which will demonstrate compliance with the opacity standard(s) as specified in **Condition F10-1** of this permit. For the purpose of determining compliance, each performance test shall be conducted as per the provisions of the New Source Performance Standards for Non-Metallic Mineral Processing Plants (40 CFR Part 60 Subpart OOO) to demonstrate compliance with **Condition F10-1** of this permit. At least 30 days prior to the performance test, the Division's Compliance Validation Program shall be notified at the addresses provided in **Condition G3**. The notification shall include the test protocol.

The performance test report shall be submitted to the Compliance Validation Program in pdf format at the address provided in **Condition G3**.

TAPCR 1200-03-09-.03(8) and 40 CFR §§60.8 and §60.93

F10-3. For NSPS equipment- The following requirement only applies to NSPS equipment manufactured on or after April 22, 2008

Wet suppression must be applied at every transition in this operation (crushers, all other equipment items) and on storage piles, roads, and parking areas as needed to comply with the standards in this permit. The wet suppression system shall be maintained in good working condition in order to provide sufficient water pressure and water flow to effectively control fugitive emissions. The permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The permittee shall initiate, as well as record, corrective action within 24 hours and complete, as well as record, corrective action as expediently as practical if the permittee finds that water is not flowing properly during an inspection of the water spray nozzles. Pursuant to 40 CFR §60.676(b)(1), the permittee shall record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in a log. If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry must specify the control mechanism being used instead of the water sprays. Inspection records shall also include the initials of the person performing the inspection(s) and corrective action(s), along with the time, and any relevant comments. These records shall be retained in accordance with **Condition G9**.

TAPCR 1200-03-09-.03(8) and 1200-03-10-.02(2)(a), 40 CFR §60.674(b), 40 CFR §60.676(b)(1)

F10-4. Source-Specific NSPS "Non-Road Engine"

The Astec PSP 2618VM Screen, Tier II John Deere Engine that powers the unit is an integral part of this unit that is portable and meets the definition of "non-road engine" found at 40 CFR 1068. It is not subject to 40 CFR Part 63 Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, provided this mobile unit shall not operate for more than twelve consecutive months at one location on the premises of the permitted facility. The permittee has agreed that the unit will not stay for more than twelve consecutive months in one location at this facility.

40 CFR §1068.30, TAPCR 1200-03-09-.03(8), and the application dated January 4, 2024, from the permittee

Compliance Method: Compliance with this condition shall be assured by maintaining copies of the manufacturer's information for the above equipment. This information shall be kept at the facility's address, unless otherwise noted, and provided to the Technical Secretary or a Division representative upon request.

Source No	Source Description
11	Metso Lokotrack ST2.8 Screener, CAT Tier III Engine with Wet Suppression Control

S11-1. Input Limitation(s) or Statement(s) of Design Capacity

The design capacity (in tons per hour) of screen unit, width of conveyors, and surface area of screens shall not exceed the limits listed below:

Metso Lokotrack ST2.8 Screener, CAT Tier III Engine				
Operation/Equipment	I.D. No.	Size	Manufacturing Date/ Status	Capacity (ton/hr)
Screen	LT-C1	5' x 16'	2017-NSPS	450
Pan Apron Feeder	LT-PF1	4' x 13'	2017-NSPS	-
Conveyor, transfer	LT-S1	48"	2017-NSPS	-
Conveyor, stockpile	LT-C2	48"	2017-NSPS	-
Conveyor, stockpile	LT-C3	32"	2017-NSPS	-
Conveyor, transfer	LT-C4	48"	2017-NSPS	-
Conveyor, stockpile	LT-C5	32"	2017-NSPS	-

Should the permittee need to modify the source(s) in a manner that increases the maximum design capacity or size, a construction permit shall be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8) and the application dated January 4, 2024, from the permittee.

Compliance Method: The permittee shall maintain documentation to demonstrate the design capacity of the crusher (tons per hour), width of the conveyor(s), the total surface area of the top screen, and size of the feeder. Documentation may include, but is not limited to, purchase records, operating manuals, or a tag affixed to the unit by the manufacturer. If documentation is not available upon request for all equipment, measurements and calculations shall be provided which confirm the capacity or size of the equipment. These documents, measurements, and calculations shall be kept readily available/accessible and made available upon request by the Technical Secretary or a Division representative.

S11-2. Production Limitation(s)

See Section III – Condition G18

S11-3. Operating Hour Limitation(s)

Not Applicable

S11-4. Emission Limitation(s)

See Section III – Condition G19

S11-5. Source Specific Visible Emissions Limitations(s)

See Condition F11-1

Federal and/or State Requirements

F11-1. Source-Specific Visible Emissions Limitation(s)

Visible Emissions from the NSPS Pan Apron Feeder (ID# LT-PF1), NSPS Screen (ID# LT-C1), NSPS Conveyor, transfer (ID# LT-S1), NSPS Conveyor, stockpile (ID# LT-C2), NSPS Conveyor, stockpile (ID# LT-C3), NSPS Conveyor, transfer (ID# LT-C4), and NSPS Conveyor, stockpile (ID# LT-C5) shall not exceed **7%** as determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

TAPCR 1200-03-09-.03(8), 40 CFR 60 Subpart OOO and the application dated January 4, 2024, from the permittee.

Compliance Method: Compliance with this limitation is assured by the performance test required by **Condition F11-2**.

F11-2. Source Specific NSPS New Performance Test Requirements

Within 60 days after achieving the maximum production rate at which the affected source will be operated, but no later than 180 days after start-up of this source, the owner or operator shall furnish the Technical Secretary a written report of the results of the performance test which will demonstrate compliance with the opacity standard(s) as specified in **Condition F11-1** of this permit. For the purpose of determining compliance, each performance test shall be conducted as per the provisions of the New Source Performance Standards for Non-Metallic Mineral Processing Plants (40 CFR Part 60 Subpart OOO) to demonstrate compliance with **Condition F11-1** of this permit. At least 30 days prior to the performance test, the Division's Compliance Validation Program shall be notified at the addresses provided in **Condition G3**. The notification shall include the test protocol.

The performance test report shall be submitted to the Compliance Validation Program in pdf format at the address provided in **Condition G3**.

TAPCR 1200-03-09-.03(8) and 40 CFR §§60.8 and §60.93

F11-3. For NSPS equipment- The following requirement only applies to NSPS equipment manufactured on or after April 22, 2008

Wet suppression must be applied at every transition in this operation (crushers, all other equipment items) and on storage piles, roads, and parking areas as needed to comply with the standards in this permit. The wet suppression system shall be maintained in good working condition in order to provide sufficient water pressure and water flow to effectively control fugitive emissions. The permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The permittee shall initiate, as well as record, corrective action within 24 hours and complete, as well as record, corrective action as expediently as practical if the permittee finds that water is not flowing properly during an inspection of the water spray nozzles. Pursuant to 40 CFR §60.676(b)(1), the permittee shall record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in a log. If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry must specify the control mechanism being used instead of the water sprays. Inspection records shall also include the initials of the person performing the inspection(s) and corrective action(s), along with the time, and any relevant comments. These records shall be retained in accordance with **Condition G9**.

TAPCR 1200-03-09-.03(8) and 1200-03-10-.02(2)(a), 40 CFR §60.674(b), 40 CFR §60.676(b)(1)

F11-4. Source-Specific NSPS “Non-Road Engine”

The Metso Lokotrack ST2.8 Screener, CAT Tier III Engine that powers the unit serves as dual purpose by both propelling itself and powering the operation of the unit. The engine is an integral part of the unit and meets the definition of “non-road engine” in accordance with 40 CFR Part 1068, Subpart A, Applicability and Miscellaneous Provisions under General Compliance Provisions for Highway, Stationary, and Non- Road Engines.

40 CFR §1068.30, TAPCR 1200-03-09-.03(8), and the application dated January 4, 2024, from the permittee

Compliance Method: Compliance with this condition shall be assured by maintaining copies of the manufacturer’s information for the above equipment. This information shall be kept at the facility’s address, unless otherwise noted, and provided to the Technical Secretary or a Division representative upon request.

Source No	Source Description
12	TEREX TRS 550 Screener, CAT Tier4F Engine with Wet Suppression Control

S12-1. Input Limitation(s) or Statement(s) of Design Capacity

The design capacity (in tons per hour) of the screen unit, width of conveyors, and surface area of screens shall not exceed the limits listed below:

TEREX TRS 550 Screener, CAT Tier4F Engine				
Operation/Equipment	I.D. No.	Size	Manufacturing Date/ Status	Capacity (ton/hr)
Screen	TRX-S1	5’ x16’	2014-NSPS	450
Pan Apron Feeder	TRX-PF1	4’ x13’	2014-NSPS	-
Conveyor, stockpile	TRX-C1	48”	2014-NSPS	-
Conveyor, stockpile	TRX-C2	32”	2014-NSPS	-
Conveyor, transfer	TRX-C3	48”	2014-NSPS	-
Conveyor, stockpile	TRX-C4	32”	2014-NSPS	-

Should the permittee need to modify the source(s) in a manner that increases the maximum design capacity or size, a construction permit shall be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8) and the application dated January 4, 2024, from the permittee.

Compliance Method: The permittee shall maintain documentation to demonstrate the design capacity of the crusher (tons per hour), width of the conveyor(s), the total surface area of the top screen, and size of the feeder. Documentation may include, but is not limited to, purchase records, operating manuals, or a tag affixed to the unit by the manufacturer. If documentation is not available upon request for all equipment, measurements and calculations shall be provided which confirm the capacity or size of the equipment. These documents, measurements, and calculations shall be kept readily available/accessible and made available upon request by the Technical Secretary or a Division representative.

S12-2. Production Limitation(s)

See Section III – Condition G18

S12-3. Operating Hour Limitation(s)

Not Applicable

S12-4. Emission Limitation(s)

See Section III – Condition G19

S12-5. Source Specific Visible Emissions Limitations(s)

See Condition F12-1

Federal and/or State Requirements

F12-1. Source-Specific Visible Emissions Limitation(s)

Visible Emissions from the NSPS Pan Apron Feeder (ID# TRX-PF1), NSPS Screen (ID# TRX-S1), NSPS Conveyor stockpile (ID# TRX-C1), NSPS Conveyor, stockpile (ID# TRX-C2), NSPS Conveyor, stockpile (ID# TRX-C3), and NSPS Conveyor, stockpile Conveyor (ID# TRX-C4) not exceed **7%** as determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

TAPCR 1200-03-09-.03(8), 40 CFR 60 Subpart OOO and the application dated January 4, 2024, from the permittee.

Compliance Method: Compliance with this limitation is assured by the performance test required by **Condition F12-2**.

F12-2. Source Specific NSPS New Performance Test Requirements

Within 60 days after achieving the maximum production rate at which the affected source will be operated, but no later than 180 days after start-up of this source, the owner or operator shall furnish the Technical Secretary a written report of the results of the performance test which will demonstrate compliance with the opacity standard(s) as specified in **Condition F12-1** of this permit. For the purpose of determining compliance, each performance test shall be conducted as per the provisions of the New Source Performance Standards for Non-Metallic Mineral Processing Plants (40 CFR Part 60 Subpart OOO) to demonstrate compliance with **Condition F12-1** of this permit. At least 30 days prior to the performance test, the Division's Compliance Validation Program shall be notified at the addresses provided in **Condition G3**. The notification shall include the test protocol.

The performance test report shall be submitted to the Compliance Validation Program in pdf format at the address provided in **Condition G3**.

TAPCR 1200-03-09-.03(8) and 40 CFR §§60.8 and §60.93

F12-3. For NSPS equipment- The following requirement only applies to NSPS equipment manufactured on or after April 22, 2008

Wet suppression must be applied at every transition in this operation (crushers, all other equipment items) and on storage piles, roads, and parking areas as needed to comply with the standards in this permit. The wet suppression system shall be maintained in good working condition in order to provide sufficient water pressure and water flow to effectively control fugitive emissions. The permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The permittee shall initiate, as well as record, corrective action within 24 hours and complete, as well as record, corrective action as expediently as practical if the permittee finds that water is not flowing properly during an inspection of the water spray nozzles.

Pursuant to 40 CFR §60.676(b)(1), the permittee shall record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in a log. If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry must specify the control mechanism being used instead of the water sprays. Inspection records shall also include the initials of the person performing the inspection(s) and corrective action(s), along with the time, and any relevant comments. These records shall be retained in accordance with **Condition G9**.

TAPCR 1200-03-09-.03(8) and 1200-03-10-.02(2)(a), 40 CFR §60.674(b), 40 CFR §60.676(b)(1)

F12-4. Source-Specific NSPS “Non-Road Engine”

TEREX TRS 550 Screener, CAT Tier4F Engine that powers the unit serves as dual purpose by both propelling itself and powering the operation of the unit. The engine is an integral part of the unit and meets the definition of “non-road engine” in accordance with 40 CFR Part 1068, Subpart A, Applicability and Miscellaneous Provisions under General Compliance Provisions for Highway, Stationary, and Non- Road Engines.

40 CFR §1068.30, TAPCR 1200-03-09-.03(8), and the application dated January 4, 2024, from the permittee

Compliance Method: Compliance with this condition shall be assured by maintaining copies of the manufacturer’s information for the above equipment. This information shall be kept at the facility’s address, unless otherwise noted, and provided to the Technical Secretary or a Division representative upon request.

(end of conditions)

The permit application gives the location of this source as 36°05’52.93” Latitude and -83°32’10.22” Longitude.

Appendix 1: Notification of Change in Responsible Person

BWI ETN LLC

Facility (Permittee): dba Blue Water Industries – BWI Grasselli Quarry

Facility ID: 45-0220

Former Responsible Person: _____

Name

Title

New Responsible Person: _____

Name	Title
------	-------

Email

Mailing Address

Phone (office)

Phone (cell)

Date New Responsible Person was assigned this duty: _____

As the Responsible Person of the above mentioned facility (permittee), I certify that the information contained in this Notification is accurate and true to the best of my knowledge. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Signature		Date
Signer's name (print)	Title	Phone (with area code)

Appendix 2: Notification of Changes

BWI ETN LLC

Facility (Permittee): dba Blue Water Industries – BWWI Grasselli Quarry

Facility ID: 45-0220

Source Number: _____

	Control Equipment	Stack Height (Feet)	Stack Diameter (Feet)	Exit Velocity (Feet/Second)	Exit Temperature (°F)
Current					
Proposed					
Current					
Proposed					
Current					
Proposed					

Comments:

As the Responsible Person of the above mentioned facility (permittee), I certify that the information contained in this Notification is accurate and true to the best of my knowledge. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Signature		Date
Signer's name (print)	Title	Phone (with area code)

Appendix 3: Notification of Ownership Change

Facility (Permittee): BWI ETN LLC
dba Blue Water Industries – BWWI Grasselli Quarry (Previous Owner)

Facility ID: 45-0220

Facility (Permittee): _____ (New Owner) _____
Date of Ownership Change

Secretary of State Control Number: _____ [as registered with the TN Secretary of State (SOS)]

Responsible Person/Authorized Contact	Email Address
Mailing Address	Phone with area code
Principal Technical Contact	Email Address
Mailing Address	Phone with area code
Billing Contact	Email Address
Mailing Address	Phone with area code

As the responsible person for the new owner or operator of the above mentioned facility (permittee):

- I agree to not make any changes to the stationary source(s) that meet the definition of modification as defined in Division 1200-03 or Division 0400-30¹, and
- I agree to comply with the conditions contained in **the permits listed below**, Division 1200-03 and Division 0400-30 of the Tennessee Air Pollution Control Regulations, the Tennessee Air Quality Act, and any documented agreements made by the previous owner to the Technical Secretary.

List all active permits issued to the facility for which the owner wishes to assume ownership:
--

The information contained in this Notification is accurate and true to the best of my knowledge. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Signature	Date
Signer's name (print)	Title
	Phone (with area code)

¹ Appropriate application forms must be submitted prior to modification of the stationary source(s).

Appendix 4: Startup Certification

BWI ETN LLC

Facility (Permittee):

dba Blue Water Industries – BWI Grasselli
Quarry

Facility ID:

45-0220

Startup Certification for Source Number:

The permittee shall certify the startup date for each new or modified air contaminant source regulated by permit 0***** by submitting this document

Date of startup:

_____/_____/_____
Month

Day

Year

As the Responsible Person of the above mentioned facility (permittee), I certify that the information contained in this Startup Certification is accurate and true to the best of my knowledge. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Signature		Date
Signer's name (print)	Title	Phone (with area code)

This Certification shall be considered startup (one performance test shall be considered compliance) for the following facilities:		
Source No.	Permit No.	Site Name
10-0012-05 through 16	081319	BWI ETN, LLC – Blue Water Industries-BWI Watauga Quarry, 350 W. Fourth Avenue, Watauga, TN, 37694
10-0086-03 through 14	081320	BWI ETN, LLC – Blue Water Industries-BWI Elizabethtown Quarry, 210 Judge Ben Allen Road, Elizabethtown, TN 37643
29-0039-07 through 18	081321	BWI ETN, LLC – Blue Water Industries-BWI Riverbend Quarry, 605 Cherokee Explosive Drive, Rutledge, TN 37861
45-0069-03 through 14	081322	BWI ETN, LLC – Blue Water Industries-BWI Coy Stone Plant, 345 East Broadway Boulevard, Jefferson City, TN 37760
82-0166-10 through 21	081323	BWI ETN, LLC – Blue Water Industries-BWI Tri-Cities Airport Quarry, 736 Centenary Road, Blountville, TN 37617

86-0040- 06 through 17	081324	BWI ETN, LLC – Blue Water Industries-BWI Unicoi Quarry, 4175 Marbleton Road, Unicoi, TN 37692
90-0123- 05 through 16	081325	BWI ETN, LLC – Blue Water Industries-BWI Locust Mount Quarry, 164 Asphalt Plant Road, Jonesborough, TN 37659
53-0074 04 through 15	082075	BWI ETN, LLC – Blue Water Industries-BWI Greenback Quarry, 2107 Big Hill Road, Lenoir City, TN 37772

Appendix 5: Fees

All minor and conditional major source annual emission fees are due and payable to the Division in full according to SCHEDULE I below² unless otherwise specified in TAPCR 1200-03-26-.02(6)(c). The county that a source is located in determines when the minor source annual emission fee is due. Fees are due the first day of the month listed. If a source is located on contiguous property in more than one county, the county appearing earliest in the calendar year shall be used to determine the due date of the annual emission fee.

SCHEDULE I Month the Annual Emissions Fee is Due (Accounting Period) Counties in the Monthly Grouping

January	Anderson, Bedford, Benton, Bledsoe, Blount, Bradley and Campbell
February	Cannon, Carroll, Carter, Cheatham, Chester, Claiborne, Clay and Cocke
March	Coffee, Crockett, Cumberland, Davidson, Decatur, DeKalb, Dickson, Dyer and Fayette
April	Fentress, Franklin, Gibson, Giles, Grainger, Greene and Grundy
May	Hamblen, Hamilton, Hancock, Hardeman, Hardin, Hawkins, Haywood and Henderson
June	Henry, Hickman, Houston, Humphreys, Jackson, Jefferson, Johnson, Knox, Lake, Lauderdale, Lawrence and Lewis
July	Lincoln, Loudon, McMinn, McNairy, Macon and Madison
August	Marion, Marshall, Maury, Meigs, Monroe, Montgomery, Moore and Morgan
September	Obion, Overton, Perry, Pickett, Polk, Putnam and Rhea
October	Roane, Robertson, Rutherford, Scott, Sequatchie, Sevier, and Shelby
November	Smith, Stewart, Sullivan, Sumner, Tipton, Trousdale, Unicoi and Union
December	Van Buren, Warren, Washington, Wayne, Weakley, White, Williamson and Wilson

² Note that some sources with allowable emissions below specific thresholds are not subject to the requirement to pay annual emission fees. Contact the Emission Inventory Program at apc.inventory@tn.gov if you have any questions.

Appendix 6: Emission Statement for VOC and NO_x

Not Applicable

Appendix 7: Agreement Letters



Via Electronic Mail to Air.Pollution.Control@tn.gov

January 4, 2024

Michelle W. Owenby, Director
Division of Air Pollution Control
Tennessee Department of Environment & Conservation
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243

**Re: BWI ETN LLC dba Blue Water Industries
BWI Grasselli – ESR No. 45-0059
Construction Permit Application
Mobile Crushing, Screening, & Conveying Non-Metallic Processing Plant System
Permit Limitation Agreement Letter**

Dear Director:

On behalf of BWI Grasselli Quarry, the following permit limitations are agreed upon for the aggregate processing equipment for which a Construction Permit Application is being submitted for installation at the existing permitted facility.

The maximum production capacity shall not exceed a combined total production limit of 450,000 tons per calendar year for all sources listed in the permit.

BWI Grasselli Quarry shall demonstrate compliance with the above-identified limitation by recordkeeping.

On behalf of BWI Grasselli Quarry, I agree to the above limitations. I am authorized to represent and bind the facility in environmental affairs.

If you have any questions concerning this correspondence, please contact me at (865)-512-7628 or whillis@bluewaterindustries.com.

Sincerely,

Signature	<u>Walt Hillis</u>
Name (Printed)	<u>Walt Hillis</u>
Title	<u>Environmental Manager</u>
Date	<u>01/04/2024</u>

Appendix 8: Example Logs

Daily Log of Production- Source 45-0220 Source ID_____

Date	Production (ton)	Date	Production (ton)	Date	Production (ton)
1		12		23	
2		13		24	
3		14		25	
4		15		26	
5		16		27	
6		17		28	
7		18		29	
8		19		30	
9		20		31	
10		21			
11		22			
Total(s) for the month of _____, 20__					

Monthly / Yearly Log of Production- Source 45-0220 Source ID_____

Month	Production (ton)	Month	Production (ton)	Month	Production (ton)
January		May		September	
February		June		October	
March		July		November	
April		August		December	
Total(s) for calendar year 20__					

PORTABLE UNIT LOCATION LOG FOR SOURCE 45-0220 Source ID_____

Location	Make and Model Number of Portable Equipment							
	Date Moved to Site	Date Removed from Site	Date Moved to Site	Date Removed from Site	Date Moved to Site	Date Removed from Site	Date Moved to Site	Date Removed from Site
Site Name								

Appendix 9: Example Logs – Wet Suppression

2023 DAILY CONTROL DEVICE FOR SOURCE 45-0220								
JAN <input type="checkbox"/> FEB <input type="checkbox"/> MAR <input type="checkbox"/> APR <input type="checkbox"/> MAY <input type="checkbox"/> JUN <input type="checkbox"/> JUL <input type="checkbox"/> AUG <input type="checkbox"/> SEP <input type="checkbox"/> OCT <input type="checkbox"/> NOV <input type="checkbox"/> DEC <input type="checkbox"/>								
Day	Time	Rock Crushing operating?		Wet Suppression operating?		Monthly Inspection Conducted	Comments / Corrective Actions	Initials
		Yes	No	Yes	No			
1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
4		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
5		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
6		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
7		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
8		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
9		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
10		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
11		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
12		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
13		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
14		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
15		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
16		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
17		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
18		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
19		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
20		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
21		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
22		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
23		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
24		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
25		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
26		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
27		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
28		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
29		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
30		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
31		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

Appendix 10: General Provisions for 40 CFR Part 60, Subpart OOO

You are required to comply with the following General Provisions of the federal Standards of Performance for New Stationary Sources (NSPS):

General provisions citation 40 CFR	Subject of citation	Applies to subpart	Explanation
§60.1	General applicability of the General Provisions	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.2	Definitions	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.3	Units and abbreviations	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.4	Address	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Except in §60.4(a) and (b) submittals need not be submitted to both the EPA Region and delegated State authority (§60.676(k)).
§60.5	Determination of construction or modification	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§60.6	Review of plans	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§60.7	Notification and Recordkeeping	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Except in (a)(1) notification of the date construction or reconstruction commenced (§60.676(h)). Also, except in (a)(6) performance tests involving only Method 9 (40 CFR part 60, appendix A-4) require a 7-day advance notification instead of 30 days (§60.675(g)).
§60.8	Performance tests	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Except in (d) performance tests involving only Method 9 (40 CFR part 60, appendix A-4) require a 7-day advance notification instead of 30 days (§60.675(g)).
§60.9	Availability of information	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.10	State Authority	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.11	Compliance with standards and maintenance requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Except in (b) under certain conditions (§§60.675(c)), Method 9 (40 CFR part 60, appendix A-4) observation is reduced from 3 hours to 30 minutes for fugitive emissions.
§60.12	Circumvention	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§60.13	Monitoring requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.14	Modification	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.15	Reconstruction	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

§60.16	Priority list	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§60.17	Incorporations by reference	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§60.18	General control device requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.19	General notification and reporting requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

TAPCR 1200-03-09-.03(8)

Appendix 11: Performance Test conducted November 2, 2022



November 23, 2022

Ms. Alisa Hatmaker
Blue Water Industries
Greenback Quarry
9509 Diggs Gap Road
Heiskell, Tennessee 37754

Reference Number: 53-0074-03

Dear Ms. Hatmaker:

The Tennessee Division of Air Pollution Control has received the sixteen EPA Method 9 visible emission evaluations (VEE) submitted for the mobile crushing and sizing plant located at the Greenback Quarry, 2107 Big Hill Road, Lenoir City, Tennessee. On June 2, 2022 a start-up notification was submitted to the Division for four of the five permitted pieces of equipment. This facility is subject to the Conditions listed in State of Tennessee Operating Permit #080023. These evaluations were conducted on November 2, 2022 by Ms. Hatmaker of Blue Water Industries and were performed to satisfy Condition F1-2 of the current permit. The Division notes that upon start-up of the final piece of permitted equipment (McCloskey S130), another notification will be needed along with VEEs.

The VEE was verified and found acceptable by the Division. The review of the VEE determined that the emission point subject to the New Source Performance Standards for New Stationary Sources (40 CFR Part 60 Subpart OOO) was achieving compliance with the applicable visible emission standard during the time period of the evaluation.

Should you have any questions concerning the evaluation of this report, please contact either Garrett Ammons at (615) 687-7076 or me at (615) 687-7037.

Sincerely,

Bryan Parker

Bryan Parker
Environmental Manager
Compliance Validation Program
Tennessee Division of Air Pollution Control

Division of Air Pollution Control • Nashville Environmental Field Office
711 R.S. Gass Blvd • Nashville, TN 37216 • Tel: 615-687-7000 • Fax 615-687-7078

Blue Water Industries-Greenback Quarry (ETN Mobile Plant)

VEE Points ID List: 10/21/2022

Emission Source No. 53-0074-03

Permit No. 080023 Construct/Modify/Operate

Point ID	Type of Equipment	Flow Diagram ID #	Point Description
McCloskey J40V2 Jaw Crusher			
1	J40 V2 Jaw Crusher	JCR1	Jaw Crusher JCR1 drop onto Conveyor JC1
2	J40 V2 Conveyor	JC1	JC1 feed onto R155 Screen Feed Hopper RF1
McCloskey R155 Scalping Screen			
3	R155 Conveyor/Screen	RC1/RS1	Conveyor RC1 transfer onto Screen & Area above Screen RS1
4	R155 Screen	RS1	RS1 feed onto Conveyor RC3
5	R155 Screen	RS1	RS1 feed onto Conveyor RC4
6	R155 Screen/Conveyor	RS1/RC2	Conveyor RC2 feed onto Conveyor RC5 ⁽¹⁾
7	R155 Conveyor	RC4	RC4 feed onto GT200 Belt Feeder GTBF1
KPI-JCI GT200 Cone Crusher			
8	GT200 Belt Feeder	GTBF1	GTBF1 feed into into Cone Crusher GTCR1
9	GT200 Cone	GTCR1	GTCR1 feed onto Conveyor GTC1
10	GT200 Conveyor	GTC1	GTC1 feed onto FT3620 Screen Feed Box AMS F1
AMS FT3620 Screen Unit			
11	AMTS FT3620 Conveyor	AMS C1	Conveyor AMS C1 feed onto Conveyor AMS C2
12	AMTS FT3620 Conveyor & Screen	AMS C2/AMS S1	AMS C2 feed onto Screen & Area above Screen AMS S1
13	AMTS FT3620 Screen & Conveyor	AMS S1/AMS C3	Conveyor AMS C3 feed to Conveyor AMS C4 ⁽²⁾
14	AMTS FT3620 Screen	AMS S1	AMS S1 feed onto Conveyor AMS C5
15	AMTS FT3620 Screen	AMS S1	AMS S1 feed onto Conveyor AMS C6
16	AMTS FT3620 Screen	AMS S1	AMS S1 feed onto Conveyor AMS C7

Notes:

(1) Screen RS1 drop to RC2 is directly above RC2 drop to RC5 so only one point is being proposed for testing. (Point ID #6)

(2) AMS S1 screen drop to Conveyor AMS C3 is hidden in machine. (Point ID #13)



VISIBLE EMISSION EVALUATIONS REPORT
 BWI GREENBACK QUARRY
 ESR No. 53-0074-03

TABLE 1: SUMMARY OF VEE POINTS AND EVALUATION RESULTS

Emission Point ID	Emission Source Description	Visible Opacity Limit ⁽¹⁾	Average Opacity of Five 6-Minute Averages
1	Jaw Crusher JCR1 drop onto Conveyor JC1	12%	1.92%
2	JC1 feed onto R155 Screen Feed Hopper RF1	7%	0.0%
3	Conveyor RC1 transfer onto Screen & Area above Screen RS1	7%	0.0%
4	RS1 feed onto Conveyor RC3	7%	0.0%
5	RS1 feed onto Conveyor RC4	7%	0.0%
6	Conveyor RC2 feed onto Conveyor RC5	7%	0.0%
7	RC4 feed onto GT200 Belt Feeder GTBF1	7%	0.0%
8	GTBF1 feed into Cone Crusher GTCR1	12%	3.83%
9	GTCR1 feed onto Conveyor GTC1	12%	1.17%
10	GTC1 feed onto FT3620 Screen Feed Box AMS F1	7%	0.0%
11	Conveyor AMS C1 feed onto Conveyor AMS C2	7%	0.0%
12	AMS C2 feed onto Screen & Area above Screen AMS S1	7%	0.0%
13	Conveyor AMS C3 feed to Conveyor AMS C4	7%	0.0%
14	AMS S1 feed onto Conveyor AMS C5	7%	0.0%
15	AMS S1 feed onto Conveyor AMS C6	7%	0.0%
16	AMS S1 feed onto Conveyor AMS C7	7%	0.0%

(1) EPA Subpart 40 CFR Part 60, Subpart OOO, Table 3

Appendix 11: Performance Test conducted December 19, 2007



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
9th Floor - L&C Annex
401 Church Street
Nashville, Tennessee 37243-1531

January 16, 2008

Mr. L. Duff Boyd, Principal
Riverbend Construction Materials
Rutledge Quarry
605 Cherokee Explosives Drive
Rutledge, TN 37861

Reference Number: 29-0039-01-S4

Dear Mr. Boyd:

This letter will acknowledge receipt of the eight one hour visible emissions evaluations submitted on the additional rock crushing equipment identified in construction permit #960817P. This letter will also acknowledge receipt of the five additional one hour visible emission evaluations submitted for the primary crusher, conveyors 1 and 2, feeder 1 and feeder belt 1 that was identified in construction permit #957049P. This equipment was not installed during the initial compliance demonstration. The evaluations were conducted on December 19, 2008.

Each of the visible emissions evaluations have been verified and have been found to be acceptable by the Division. The review of these visible emission evaluations determined that each of the thirteen emission points subject to the New Source Performance Standards for New Stationary Sources was achieving compliance with the applicable visible emission standard during the time period of the evaluations. This data will be forwarded to the Permitting Program for operating permit issuance.

If you have any questions concerning this matter, please contact Mr. Alvin E. Pratt at (615) 532-0554.

Sincerely,

A handwritten signature in cursive script, appearing to read "Alvin E. Pratt".

Alvin E. Pratt
Compliance Validation Program
Division of Tennessee Air Pollution Control

cc: Knoxville EAC