

Texas Commission on Environmental Quality
INTEROFFICE MEMORANDUM

TO: Office of Chief Clerk **Date:** April 29, 2024
FROM: Amanda Kraynok
Staff Attorney
Environmental Law Division
SUBJECT: Backup Documents Filed for Consideration of Hearing Requests at
Agenda

Applicant: Mine Service, Inc.
Permit No.: 169683
Program: Air
Docket No.: 2024-0129-AIR

Enclosed please find a copy of the following documents for inclusion in the background material for this permit application:

- Draft Final Action Letter
- Draft Permit Face
- Draft Special Conditions
- Draft TRV
- Draft MEART
- Compliance History Report

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Kelly Keel, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

DRAFT 2024

MR EUELL CAMPBELL
PROJECT MANAGER AGGREGATE/TRUCKING DIVISION
MINE SERVICE INC
PO BOX 32
ROCKDALE TX 76567-0032

Re: Initial Permit
Permit Number: 169683
Expiration Date: February 7, 2034
Mine Service, Inc.
Rock Crushing and Screening Plant
Waco, McLennan County
Regulated Entity Number: RN102607561
Customer Reference Number: CN605139781

Dear Mr. Campbell:

Mine Service, Inc. has requested an initial permit concerning the above-referenced project. In accordance with Title 30 Texas Administrative Code (TAC) Chapter 116 your permit is hereby issued. In addition, Permit Number 45363 and Standard Permit Registration Number 88234 have been voided. Enclosed are general conditions, special conditions, and a maximum allowable emission rates table.

This permit will be automatically void upon the occurrence of any of the following, as indicated in 30 TAC §116.120(a):

1. Failure to begin construction within 18 months of the date of issuance,
2. Discontinuance of construction for more than 18 months prior to completion, or
3. Failure to complete construction within a reasonable time.

Upon request, the executive director may grant extensions as allowed in 30 TAC §116.120(b).

Mr. Euell Campbell
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Re: Permit Number: 169683

If you need further information or have any questions, please contact Mr. Victor Gonzalez at (512) 239-1141 or write to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

Sincerely,

A handwritten signature in black ink, appearing to read "Samuel Short", with a long horizontal line extending to the right.

Samuel Short, Deputy Director
Air Permits Division
Office of Air
Texas Commission on Environmental Quality

Enclosure

cc: Air Section Manager, Region 9 - Waco

Project Number: 344519

DRAFT



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
Mine Service, Inc.
Authorizing the Construction and Operation of
Rock Crushing And Screening Plant
Located at Waco, McLennan County, Texas
Latitude 31.520833 Longitude -97.268055

Permit: 169683

Issuance Date: DRAFT 2024

Expiration Date: DRAFT 2034

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)]¹
2. **Voiding of Permit.** A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1) the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of \$5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress.** Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification.** The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements.** If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]
6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and

operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]

8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources-- Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)]¹
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC § 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to "air pollution" as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.¹

¹ Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Common Acronyms in Air Permits

°C = Temperature in degrees Celsius	GLCmax = maximum (predicted) ground-level concentration
°F = Temperature in degrees Fahrenheit	gpm = gallon per minute
°K = Temperature in degrees Kelvin	gr/1000scf = grain per 1000 standard cubic feet
µg = microgram	gr/dscf = grain per dry standard cubic feet
µg/m ³ = microgram per cubic meter	H ₂ CO = formaldehyde
acfm = actual cubic feet per minute	H ₂ S = hydrogen sulfide
AMOC = alternate means of control	H ₂ SO ₄ = sulfuric acid
AOS = alternative operating scenario	HAP = hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
AP-42 = Air Pollutant Emission Factors, 5th edition	HC = hydrocarbons
APD = Air Permits Division	HCl = hydrochloric acid, hydrogen chloride
API = American Petroleum Institute	Hg = mercury
APWL = air pollutant watch list	HGB = Houston/Galveston/Brazoria
BPA = Beaumont/ Port Arthur	hp = horsepower
BACT = best available control technology	hr = hour
BAE = baseline actual emissions	IFR = internal floating roof tank
bbl = barrel	in H ₂ O = inches of water
bbl/day = barrel per day	in Hg = inches of mercury
bhp = brake horsepower	IR = infrared
BMP = best management practices	ISC3 = Industrial Source Complex, a dispersion model
Btu = British thermal unit	ISCST3 = Industrial Source Complex Short-Term, a dispersion model
Btu/scf = British thermal unit per standard cubic foot or feet	K = Kelvin; extension of the degree Celsius scaled-down to absolute zero
CAA = Clean Air Act	LACT = lease automatic custody transfer
CAM = compliance-assurance monitoring	LAER = lowest achievable emission rate
CEMS = continuous emissions monitoring systems	lb = pound
cfm = cubic feet (per) minute	lb/day = pound per day
CFR = Code of Federal Regulations	lb/hr = pound per hour
CN = customer ID number	lb/MMBtu = pound per million British thermal units
CNG = compressed natural gas	LDAR = Leak Detection and Repair (Requirements)
CO = carbon monoxide	LNG = liquefied natural gas
COMS = continuous opacity monitoring system	LPG = liquefied petroleum gas
CPMS = continuous parametric monitoring system	LT/D = long ton per day
DFW = Dallas/ Fort Worth (Metroplex)	m = meter
DE = destruction efficiency	m ³ = cubic meter
DRE = destruction and removal efficiency	m/sec = meters per second
dscf = dry standard cubic foot or feet	MACT = maximum achievable control technology
dscfm = dry standard cubic foot or feet per minute	MAERT = Maximum Allowable Emission Rate Table
ED = (TCEQ) Executive Director	MERA = Modeling and Effects Review Applicability
EF = emissions factor	mg = milligram
EFR = external floating roof tank	mg/g = milligram per gram
EGU = electric generating unit	mL = milliliter
EI = Emissions Inventory	MMBtu = million British thermal units
ELP = El Paso	MMBtu/hr = million British thermal units per hour
EPA = (United States) Environmental Protection Agency	MSDS = material safety data sheet
EPN = emission point number	MSS = maintenance, startup, and shutdown
ESL = effects screening level	MW = megawatt
ESP = electrostatic precipitator	NAAQS = National Ambient Air Quality Standards
FCAA = Federal Clean Air Act	NESHAP = National Emission Standards for Hazardous Air Pollutants
FCCU = fluid catalytic cracking unit	NGL = natural gas liquids
FID = flame ionization detector	NNSR = nonattainment new source review
FIN = facility identification number	NO _x = total oxides of nitrogen
ft = foot or feet	NSPS = New Source Performance Standards
ft/sec = foot or feet per second	
g = gram	
gal/wk = gallon per week	
gal/yr = gallon per year	
GLC = ground level concentration	

PAL = plant-wide applicability limit
PBR = Permit(s) by Rule
PCP = pollution control project
PEMS = predictive emission monitoring system
PID = photo ionization detector
PM = periodic monitoring
PM = total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
PM_{2.5} = particulate matter equal to or less than 2.5 microns in diameter
PM₁₀ = total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
POC = products of combustion
ppb = parts per billion
ppm = parts per million
ppmv = parts per million (by) volume
psia = pounds (per) square inch, absolute
psig = pounds (per) square inch, gage
PTE = potential to emit
RA = relative accuracy
RATA = relative accuracy test audit
RM = reference method
RVP = Reid vapor pressure
scf = standard cubic foot or feet
scfm = standard cubic foot or feet (per) minute
SCR = selective catalytic reduction
SIL = significant impact levels
SNCR = selective non-catalytic reduction
SO₂ = sulfur dioxide
SOCMI = synthetic organic chemical manufacturing industry
SRU = sulfur recovery unit
TAC = Texas Administrative Code
TCAA = Texas Clean Air Act
TCEQ = Texas Commission on Environmental Quality
TD = Toxicology Division
TLV = threshold limit value
TMDL = total maximum daily load
tpd = tons per day
tpy = tons per year
TVP = true vapor pressure
VOC = volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
VRU = vapor recovery unit or system

Special Conditions

Permit Number 169683

Emission Limitations

1. This permit authorizes only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates," and those sources are limited to the emission limits and other conditions specified in the table. In addition, this permit authorizes all emissions from planned startup and shutdown activities associated with facilities or groups of facilities that are authorized by this permit.

Fuel Specifications

2. Fuel for the internal combustion engine shall be pipeline-quality natural gas or liquid fuel with a maximum sulfur content of not more than 0.0015 percent by weight and shall not consist of a blend containing waste oils or solvents. Use of any other fuel will require prior approval of the Executive Director of the Texas Commission on Environmental Quality (TCEQ).
3. Upon request by the Executive Director of the TCEQ or the TCEQ Regional Director or any local air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the fuel(s) used in these facilities or shall allow air pollution control program representatives to obtain a sample for analysis.

Federal Applicability

4. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) Regulations on Standards of Performance for New Stationary Sources (NSPS) promulgated in Title 40 Code of Federal Regulations (40 CFR) Part 60, specifically the following:
 - Subpart A - General Provisions;
 - Subpart OOO - Nonmetallic Mineral Processing Plants; and
 - Subpart IIII - Stationary Compression Ignition Internal Combustion Engines
5. These facilities shall comply with all applicable requirements of the EPA Regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories promulgated in 40 CFR Part 63, specifically the following:
 - Subpart A - General Provisions; and
 - Subpart ZZZZ - Stationary Reciprocating Internal Combustion Engines

Opacity/Visible Emission Limitations

6. Visible fugitive emissions shall not leave the property for more than 30 cumulative seconds in any six-minute period.
7. In accordance with 40 CFR Part 60, Appendix A, Test Method 9 or equivalent, and except for those periods described in 30 Texas Administrative Code (30 TAC) § 101.211, opacity of emissions from any transfer point on belt conveyors or from any screen shall not exceed 7 percent and from any crusher shall not exceed 12 percent for facilities (as defined in 40 CFR §§ 60.670 and 60.671) that

commence construction, modification, or reconstruction on or after April 22, 2008. Opacity of emissions from any transfer point on belt conveyors or from any screen shall not exceed 10 percent and from any crusher shall not exceed 15 percent for facilities (as defined in 40 CFR §§ 60.670 and 60.671) that commenced construction, modification, or reconstruction after August 31, 1983 but before April 22, 2008. The opacity of emissions shall not exceed the indicated percent averaged over a six-minute period.

Operational Limitations, Work Practices, and Plant Design

8. The facility shall be limited to the following hourly and annual throughput rates:

Table 1: Hourly and Annual Throughput Limits

Source	Tons per hour	Tons per year in any rolling 12-month period
Plant-wide Throughput	475	1,254,000
Impact Crusher 1 (C-1)	475	1,254,000
Pre-Screen (SC-1)	475	1,254,000
Power Screen (SC-2)	475	1,254,000

9. The facilities shall be limited to a maximum operating schedule of 2,640 hours per year.
10. Permanently mounted spray bars shall be installed at the inlet and outlet of all crushers, at all shaker screens, and all material transfer points, except for equipment operated under partially enclosed, fully enclosed, saturated, or submerged conditions, or equipment that handles washed materials. A dedicated water truck or area-type water sprays shall be available or installed at all stockpiles and active work areas. All water spray systems shall be operated as necessary to maintain compliance with TCEQ rules and regulations.
11. All in-plant roads and traffic areas, active work areas, and aggregate stockpiles shall be sprayed with water with an installed area type water spray or a dedicated truck upon detection of visible particulate matter emissions to maintain compliance with all applicable TCEQ rules and regulations.
12. Stockpiles shall not exceed 45 feet in height.

Demonstration of Continuous Compliance

13. Upon request by the TCEQ Executive Director or the TCEQ Regional Director having jurisdiction, the holder of this permit shall perform ambient air monitoring, and/or other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere. The tests shall be performed during normal operation of the facilities and shall be performed in accordance with accepted TCEQ practices and procedures.
14. The holder of this permit shall conduct a quarterly visible fugitive emissions determination to demonstrate compliance with the visible fugitive emissions limitation specified in this permit. This

visible fugitive emissions determination shall be performed: 1) during normal plant operations, 2) for a minimum of six minutes, 3) approximately perpendicular to plume direction, 4) with the sun behind the observer (to the extent practicable), 5) at least 15 feet, but not more than 0.25 mile, from the plume, and 6) in accordance with EPA 40 CFR Part 60, Appendix A, Test Method 22, except where stated otherwise in this condition. If visible fugitive emissions leaving the property exceed 30 cumulative seconds in any six-minute period, the owner or operator shall take immediate action (as appropriate) to eliminate the excessive visible fugitive emissions. The corrective action shall be documented within 24 business hours of completion.

Recordkeeping Requirements

15. In addition to the recordkeeping requirements specified in 40 CFR Part 60, Subparts A and OOO, the following records shall be maintained at this facility site and made available at the request of personnel from the TCEQ or any other air pollution control program having jurisdiction to demonstrate compliance with permit limitations. These records shall be totaled for each calendar month, retained for a rolling 24-month period, and include the following:
- A. Quarterly observations for visible fugitive emissions and/or opacity observations;
 - B. Daily, monthly, and annual amounts of materials processed, summarized in tons per hour, tons per month, and tons per year;
 - C. Actual hours of operation; and
 - D. Records of road cleaning, application of road dust control, or road maintenance for dust control.
 - E. Inspections, malfunctions, repairs, and maintenance of abatement equipment as actions occur.

Date: DRAFT

Construction Permit Source Analysis & Technical Review

Company	Mine Service Inc	Permit Number	169683
City	Waco	Project Number	344519
County	McLennan	Regulated Entity Number	RN102607561
Project Type	Initial	Customer Reference Number	CN605139781
Project Reviewer	Victor Gonzalez	Received Date	July 15, 2022
Site Name	Rock Crushing and Screening Plant		

Project Overview

Mine Service Inc. has requested an initial NSR Permit No. 169683 which will authorize the construction of a new source to operate a permanent rock crushing and screening facility located in Waco, McLennan County.

The rock crushing plant will consist of one crusher, a pre-screen deck, screening equipment, multiple conveyances, and product piles. This new plant will quarry, crush, and screen materials to produce aggregates of varying sizes. It will be able to handle throughput of 475 tons/hr. The applicant is also requesting to void Standard Permit Number: 88234 and New Source Review registration number: 45363.

Emission Summary

Air Contaminant	Current Allowable Emission Rates (tpy)	Proposed Allowable Emission Rates (tpy)	Change in Allowable Emission Rates (tpy)
PM	0.00	5.13	+5.13
PM ₁₀	0.00	2.21	+2.21
PM _{2.5}	0.00	0.65	+0.65
VOC	0.00	17.30	+17.30
NO _x	0.00	5.32	+5.32
CO	0.00	5.07	+5.07
SO ₂	0.00	1.63	+1.63

Compliance History Evaluation - 30 TAC Chapter 60 Rules

A compliance history report was reviewed on:	September 7, 2022
Site rating & classification:	Unclassified
Company rating & classification:	0.00 / High
Has the permit changed on the basis of the compliance history or rating?	No
Did the Regional Office have any comments? If so, explain.	N/A

Public Notice Information

Requirement	Date
Legislator letters mailed	7/21/2022
Date 1 st notice published	08/05/2022
Publication Name: Waco Tribune Herald	

Construction Permit Source Analysis & Technical Review

Permit Number: 169683
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Regulated Entity No. RN102607561

Requirement	Date
Pollutants: PM, PM ₁₀ , PM _{2.5} , VOC, NO _x , CO, and SO ₂	
Date 1 st notice Alternate Language published	No, the company verified that a newspaper or publication could not be found in any of the alternative languages in which notice is required.
1 st public notice tearsheet(s) received	08/10/2022
1 st public notice affidavit(s) received	08/10/2022
1 st public notice certification of sign posting/application availability received	09/09/2022
SB709 Notification mailed	12/21/2022
Date 2 nd notice published	04/04/2023
Publication Name: Waco Tribune Herald	
Pollutants: PM, PM ₁₀ , PM _{2.5} , VOC, NO _x , CO, and SO ₂	
Date 2 nd notice published (Alternate Language)	No, the company verified that a newspaper or publication could not be found in any of the alternative languages in which notice is required.
2 nd public notice tearsheet(s) received	04/06/2023
2 nd public notice affidavit(s) received	04/06/2023
2 nd public notice certification of sign posting/application availability received	05/09/2023

Public Interest

Number of comments received	10
Number of meeting requests received	1
Number of hearing requests received	3
Date meeting held	
Date response to comments filed with OCC	
Date of SOAH hearing	

Construction Permit Source Analysis & Technical Review

Permit Number: 169683
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Regulated Entity No. RN102607561

Federal Rules Applicability

Requirement	
Subject to NSPS?	No, NSPS does not apply since the site is not an affected facility under 40 CFR Part 60.
Subject to NESHAP?	No, the site does not emit any air contaminants regulated under 40 CFR Part 61.
Subject to NESHAP (MACT) for source categories?	No, the site is not a listed source category regulated under 40 CFR Part 63.
Nonattainment review applicability:	N/A
PSD review applicability:	N/A

Title V Applicability - 30 TAC Chapter 122 Rules

Requirement	
Title V applicability: N/A, the site is not a major source nor is it an area source subject to Title V.	
Periodic Monitoring (PM) applicability: N/A, the site is not a major source nor is it an area source subject to Title V; therefore, it is not subject to Periodic Monitoring.	
Compliance Assurance Monitoring (CAM) applicability: N/A, the site is not a major source nor is it an area source subject to Title V; therefore, it is not subject to CAM.	

Process Description

Mine Services Inc. is constructing a new rock crushing and screening plant to replace the existing rock crusher unit and associated diesel engines from SP No. 88234 to produce aggregates of varying sizes. Materials will be quarried from the pit within the property boundary by drilling and blasting or scraping. Materials are loaded into haul trucks from the quarry site by excavator or from end loader. The haul trucks deliver materials to a raw material surge pile where they are fed into the grizzly feeder via front end loader. The grizzly feeder delivers materials to a primary crusher. The primary crusher is an impact jaw type crusher that can process over 475 tons/hr of materials. The crusher emissions are controlled by total enclosure. From the crusher, materials are transferred to the pre-screen and then sorted through series of conveyor belts. The pre-screen deck divides the rock into one of two sizes. The pre-screen deck emissions are controlled by water spray. Materials are then conveyed to the power screener and can size materials into three product piles by a series of conveyors.

Project Scope

The applicant is proposing to construct a new source to operate a rock crushing and screening equipment plant. The new equipment will be able to handle increased throughput of 475 tons/hr compared to the previous equipment at the site. The new rock crushing plant will consist of one crusher, a pre-screen deck, and screening equipment. The new plan will quarry, crush, and screen materials to produce aggregates of varying sizes.

The applicant is also requesting to void Standard Permit Number: 88234 and New Source Review registration number:

Construction Permit Source Analysis & Technical Review

Permit Number: 169683

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45363.

Best Available Control Technology

Source Name	EPN	Best Available Control Technology Description
Crusher	C-1	70% reduction at inlet and outlet, typically achieved with water sprays. No visible emissions shall leave the property. Visible emissions shall be determined by a standard of no visible emissions exceeding 30 seconds in duration in any six-minute period as determined using EPA TM 22 or equivalent.
Pre-screen	SC-1	70% reduction at inlet and outlet, typically achieved with water sprays. No visible emissions shall leave the property. Visible emissions shall be determined by a standard of no visible emissions exceeding 30 seconds in duration in any six-minute period as determined using EPA TM 22 or equivalent.
Power Screen	SC-2	70% reduction at inlet and outlet, typically achieved with water sprays. No visible emissions shall leave the property. Visible emissions shall be determined by a standard of no visible emissions exceeding 30 seconds in duration in any six-minute period as determined using EPA TM 22 or equivalent.
CAT C4.4 ATAAC Engine	E-1	Meets the requirements of 40 CFR Part 60, Subpart IIII and MACT ZZZZ.
Dual Power Engine	E-2	Meets the requirements of 40 CFR Part 60, Subpart IIII and MACT ZZZZ.
CAT C-13 ACERT Engine	E-3	Meets the requirements of 40 CFR Part 60, Subpart IIII and MACT ZZZZ.
Material Handling	T-001 – T-010	Truck drops 99% reduction or 0.01 gr/dscf, suction shroud, minimum 4000 acfm. 70% reduction of rock and aggregate /handling through the use of water sprays.
Stockpile Fugitives	RMP-1, PP-001 – PP-004	70% reduction at inlet and outlet, typically achieved with water sprays. No visible emissions shall leave the property. Visible emissions shall be determined by a standard of no visible emissions exceeding 30 seconds in duration in any six-minute period as determined using EPA TM 22 or equivalent.

Impacts Evaluation

Was modeling conducted?

Yes

Type of Modeling:

AERMOD

Is the site within 3,000 feet of any school?

No

Additional site/land use information: Agricultural/residential

* An Air Quality Analysis (AQA) was performed by the company for PM₁₀, PM_{2.5}, NO_x, CO, and SO₂. The AQA was audited by the Air Dispersion Modeling Team (ADMT) and was found to be acceptable for all review types and pollutants. Details can be found in the modeling audit memo (WCC Content No. 6467703).

Summary of Modeling Results

Modeling was conducted using a monitor located in Harris County over a three-year average from 2019 to 2021. The applicant did not need to provide new modeling for their facility located in McLennan County because the Harris County monitor has a more conservative background value. Also, the Harris County data is more conservative due to the larger

Construction Permit Source Analysis & Technical Review

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population size over McLennan County.

Impacts were calculated using a Tier 1 demonstration tool developed by the EPA referred to as Modeled Emission Rates for Precursors (MERPs). The MERPs use technically credible air quality modeling to relate precursor emissions and peak secondary pollutants impacts from a source. Using data associated with the 500tpy Harris County source, the applicant estimated 24-hr PM_{2.5} concentrations and 1-hr NO₂ concentrations. The estimates are added to the conservative background value and compared to the NAAQS as follows:

Table 1. Total Concentrations for Minor NSR NAAQS (Concentrations > De Minimis)

Pollutant	Averaging Time	GLC _{max} (µg/m ³)	Background (µg/m ³)	Total Conc. = [Background + GLC _{max}] (µg/m ³)	Standard (µg/m ³)
PM _{2.5}	24-hr	1.5	21	23	35
NO ₂	Annual	24	87	111	188

Also, in lieu of reviewing non-criteria pollutants through the MERA, the applicant opted to provide site wide modeling and demonstrated that the predicted concentrations will not exceed the ESL. The results are as follows:

Table 3. Minor NSR Site-wide Modeling Results for Health Effects

Pollutant	CAS#	Averaging Time	GLC _{max} (µg/m ³)	GLC _{max} Location	ESL (µg/m ³)
Formaldehyde	50-00-0	1-hr	2	East Property Line	15
Diesel fuel	68334-30-5	1-hr	47	East Property Line	1000

In summary, no violations of the NAAQS or adverse health effects are expected from the facility at the proposed location.

Project Reviewer
Victor Gonzalez

Date

Team Leader
Joe Nicosia

Date

Emission Sources - Maximum Allowable Emission Rates

Permit Number 169683

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour	TPY (4)
C-1	Impact Crusher (5)	PM	0.1	0.13
		PM ₁₀	0.05	0.06
		PM _{2.5}	0.01	0.01
SC-1	Pre-Screen (5)	PM	1.05	1.38
		PM ₁₀	0.35	0.46
		PM _{2.5}	0.02	0.03
SC-2	Power Screen (5)	PM	1.05	1.38
		PM ₁₀	0.35	0.46
		PM _{2.5}	0.02	0.03
MHFug	Material Handling Fugitives (5)	PM	0.67	0.88
		PM ₁₀	0.22	0.29
		PM _{2.5}	0.06	0.08
E-1	CAT C4.4 ATAAC Engine or engines with equivalent or lower g/kw-hr ratings	PM/PM ₁₀ /PM _{2.5}	0.05	0.07
		NO _x	0.74	0.97
		CO	0.91	1.2
		SO ₂	0.23	0.3
		VOC	1.47	1.94
E-2	Dual Power Engine	PM/PM ₁₀ /PM _{2.5}	0.03	0.04
		NO _x	0.39	0.51
		CO	0.41	0.54
		SO ₂	0.1	0.14
		VOC	5.82	7.68
E-3	CAT C-13 ACERT Engine or engines with	PM/PM ₁₀ /PM _{2.5}	0.15	0.19
		NO _x	2.91	3.84

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour	TPY (4)
	equivalent or lower g/kw-hr ratings	CO	2.52	3.33
		SO ₂	0.9	1.19
		VOC	5.82	7.68
PILE Fug	Wind Erosion from Stockpiles (5)	PM	1.13	1.48
		PM ₁₀	0.56	0.74
		PM _{2.5}	0.17	0.23

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date: _____ DRAFT _____



Compliance History Report

Compliance History Report for CN605139781, RN102607561, Rating Year 2021 which includes Compliance History (CH) components from September 1, 2016, through August 31, 2021.

Customer, Respondent, or Owner/Operator:	CN605139781, Mine Service, Inc.	Classification: HIGH	Rating: 0.00
Regulated Entity:	RN102607561, 365 PLANT GRAVEL CRUSHING	Classification: UNCLASSIFIED	Rating: -----
Complexity Points:	3	Repeat Violator: NO	
CH Group:	01 - Gas Stations with convenience Stores and other Gas Stations		
Location:	1953 TOM LEDBETTER WACO, TX 76712-2951, MCLENNAN COUNTY		
TCEQ Region:	REGION 09 - WACO		

ID Number(s):

AIR NEW SOURCE PERMITS REGISTRATION 45363

AIR NEW SOURCE PERMITS ACCOUNT NUMBER
MB04850

AIR NEW SOURCE PERMITS PERMIT 169683

AGGREGATE PRODUCTION OPERATION REGISTRATION
AP0000806

STORMWATER PERMIT TXR05FD84

Compliance History Period: September 01, 2016 to August 31, 2021 **Rating Year:** 2021 **Rating Date:** 09/01/2021

Date Compliance History Report Prepared: February 07, 2024

Agency Decision Requiring Compliance History: Permit - Issuance, renewal, amendment, modification, denial, suspension, or revocation of a permit.

Component Period Selected: September 01, 2016 to August 31, 2021

TCEQ Staff Member to Contact for Additional Information Regarding This Compliance History.

Name: TCEQ Staff Member

Phone: (512) 239-1000

Site and Owner/Operator History:

- | | |
|--|-----|
| 1) Has the site been in existence and/or operation for the full five year compliance period? | YES |
| 2) Has there been a (known) change in ownership/operator of the site during the compliance period? | NO |

Components (Multimedia) for the Site Are Listed in Sections A - J

A. Final Orders, court judgments, and consent decrees:

N/A

B. Criminal convictions:

N/A

C. Chronic excessive emissions events:

N/A

D. The approval dates of investigations (CCEDS Inv. Track. No.):

Item 1 June 30, 2017 (1422918)

E. Written notices of violations (NOV) (CCEDS Inv. Track. No.):

A notice of violation represents a written allegation of a violation of a specific regulatory requirement from the commission to a regulated entity. A notice of violation is not a final enforcement action, nor proof that a violation has actually occurred.

N/A

F. Environmental audits:

N/A

G. Type of environmental management systems (EMSs):

N/A

H. Voluntary on-site compliance assessment dates:

N/A

I. Participation in a voluntary pollution reduction program:

N/A

J. Early compliance:

N/A

Sites Outside of Texas:

N/A