



Missouri Department of dnr.mo.gov

NATURAL RESOURCES

Michael L. Parson, Governor

Carol S. Comer, Director

September 1, 2020

Aaron Trager
Supervisor
Trager Limestone LLC
6468 St. Hwy Y
Chillicothe, MO 64601

RE: New Source Review Permit - Project Number: 2020-04-007

Dear Aaron Trager:

Enclosed with this letter is your permit to construct. Please study it carefully and refer to Appendix A for a list of common abbreviations and acronyms used in the permit. Also, note the special conditions on the accompanying pages. The document entitled, "Review of Application for Authority to Construct," is part of the permit and should be kept with this permit in your files. Operation in accordance with these conditions and your new source review permit application are necessary for continued compliance. In addition, please note that Trager Limestone LLC cannot operate with any other plants that have ambient impact limits based on the Air Pollution Control Program's nomographs. Please refer to the permits of any plant that you are operating with to see if their respective permits contain an ambient impact limit. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

This permit may include requirements with which you may not be familiar. If you would like the department to meet with you to discuss how to understand and satisfy the requirements contained in this permit, an appointment referred to as a Compliance Assistance Visit (CAV) can be set up with you. To request a CAV, please contact your local regional office or fill out an online request. The regional office contact information can be found at the following website: <http://dnr.mo.gov/regions/>. The online CAV request can be found at <http://dnr.mo.gov/cav/compliance.htm>.

If you were adversely affected by this permit decision, you may be entitled to pursue an appeal before the administrative hearing commission pursuant to Sections 621.250 and 643.075.6 RSMo. To appeal, you must file a petition with the administrative hearing commission within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the administrative hearing commission, whose contact information is: Administrative Hearing Commission, United States Post Office



Aaron Trager
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Building, 131 West High Street, Third Floor, P.O. Box 1557, Jefferson City, Missouri 65102,
phone: 573-751-2422, fax: 573-751-5018, website: www.ao.mo.gov/ahc.

If you have any questions regarding this permit, please do not hesitate to contact Dakota Fox at the department's Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or at (573) 751-4817. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM



Susan Heckenkamp
New Source Review Unit Chief

SH:dfa

Enclosures

c: Northeast Regional Office
PAMS File: 2020-04-007

Permit Number: 092020-001



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

MISSOURI AIR CONSERVATION COMMISSION

PERMIT TO CONSTRUCT

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to construct the air contaminant source(s) described below, in accordance with the laws, rules and conditions as set forth herein.

Permit Number: 092020-001 Project Number: 2020-04-007
Installation ID: 061-P019

Parent Company: Trager Limestone LLC

Parent Company Address: 6468 St. Hwy Y, Chillicothe, MO 64601

Installation Name: Trager Limestone LLC

Installation Address: 21008 Unity Avenue, Gallatin, MO 64640

Location Information: Daviess County, S13, T58N, R28W

Application for Authority to Construct was made for:
Increased production rate and addition of auxiliary equipment at an existing stationary rock crushing plant. This review was conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

Standard Conditions (on reverse) are applicable to this permit.

Standard Conditions (on reverse) and Special Conditions are applicable to this permit.



Director or Designee
Department of Natural Resources

September 1, 2020
Effective Date

STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Enforcement and Compliance Section of the Air Pollution Control Program if construction or modification is not started within two years after the effective date of this permit, or if construction or modification is suspended for one year or more.

You will be in violation of 10 CSR 10-6.060 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review. In the event that there is a discrepancy between the permit application and this permit, the conditions of this permit shall take precedence. Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the Enforcement and Compliance Section of the Department's Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant source(s). The information must be made available within 30 days of actual startup. Also, you must notify the Department's regional office responsible for the area within which you are located within 15 days after the actual start up of this (these) air contaminant source(s).

A copy of the permit application and this permit and permit review shall be kept at the installation address and shall be made available to Department's personnel upon request.

You may appeal this permit or any of the listed special conditions to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.075.6 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

If you choose not to appeal, this certificate, the project review and your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant source(s), but in no way relieves you of your obligation to comply with all applicable provisions of the Missouri Air Conservation Law, regulations of the Missouri Department of Natural Resources and other applicable federal, state and local laws and ordinances.

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit using the contact information below.

Contact Information:
Missouri Department of Natural Resources
Air Pollution Control Program
P.O. Box 176
Jefferson City, MO 65102-0176
(573) 751-4817

The regional office information can be found at the following website:
<http://dnr.mo.gov/regions/>

GENERALESPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (3)(E). "Conditions required by permitting authority."

1. **Superseding Condition**
The conditions of this permit supersede all General Special Conditions and Special Conditions found in the previously issued Construction Permit 022008-009 from the Air Pollution Control Program.
2. **Generic Plant Designation and Maximum Combined Hourly Design Rate**
Trager Limestone LLC's stationary rock-crushing plant (061-P019) has been designated to be a Generic Plant Operation. The combined Maximum Hour Design Rate (MHDR) for the primary unit(s) and each of the following generic equipment types shall not exceed the maximum installation capacities listed below at any time the installation is in operation.

Table 1: Allowed Equipment List

Equipment Type	Maximum Combined Hourly Design Rate	Maximum Number of Units
Primary Unit(s) (Primary Crusher)	350 tons	1
Crusher(s), including primary crusher	700 tons	2
Conveyor(s)	4,200 tons	12
Screen(s)	700 tons	2
Surge Bin(s)	350 tons	1
Diesel Engine(s)	745 hp	2

3. **Generic Plant Equipment Identification Requirement**
 - A. Within fifteen (15) days of actual startup or within 15 days of permit issuance if the equipment has already started up, Trager Limestone LLC shall submit to the Air Pollution Control Program's Permitting Section, and the Kansas City Regional Office Regional Office, the following information for the generic plant (061-P019)
 - 1) A Master List of all equipment that will be permitted for use with the generic plant (061-P019). This master list shall include the following information for each piece of equipment. The manufacturer's name, the model number, the serial number, the actual MHDR, the date of manufacture, any company-assigned equipment number, and any other additional information such as sizes and/or dimensions that is necessary to uniquely identify all of the equipment.

GENERAL SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

- 2) A list of the core equipment that will always be utilized with the generic (061-P019). The core equipment associated with the generic plant shall include at least one (1) primary unit. Core equipment items are rate-controlling components of the process flow (e.g., primary crusher and/or primary screen). The maximum hourly design rate of the generic plant is defined to be the sum of the MHDR(s) of the core equipment. Any arrangement of the generic plant's equipment must be such that the core equipment is not bypassed in the process flow.
 - 3) A determination on the applicability of 40 CFR Part 60, Subpart "OOO", Standards of Performance for Nonmetallic Mineral Processing Plants, for each piece of equipment. Trager Limestone LLC shall indicate whether or not each piece of equipment is subject to Subpart "OOO" and provide the justification for this applicability determination.
 - 4) Trager Limestone LLC shall submit notification to the AIR POLLUTION CONTROL PROGRAM and the Regional Office if the core equipment is changed and/or if new equipment is added to the supplemental equipment list.
- B. To assure that each piece of equipment is properly identified as being a part of this generic stationary rock-crushing plant (061-P019), Trager Limestone LLC shall provide and maintain suitable, easily read permanent markings on each component of the plant. These markings shall be the equipment's serial number or a company assigned identification number that uniquely identifies the individual component. These identification numbers must be submitted to the AIR POLLUTION CONTROL PROGRAM and the Regional Office no later than fifteen (15) days after start-up of the generic plant.
- C. Trager Limestone LLC shall at all times maintain a list of the specific equipment currently being utilized with the generic stationary rock-crushing plant (061-P019). The installation shall immediately make this list of currently used equipment available to any Missouri Department of Natural Resources' personnel upon request.
4. **Best Management Practices Requirement**
Trager Limestone LLC shall control fugitive emissions from all of the haul roads and vehicular activity areas at this site by performing BMPs as defined in Attachment AA.
 5. **Annual Emission Limit**
 - A. Trager Limestone LLC shall emit less than 15.0 tons of PM₁₀ in any 12-month period from the entire installation which consists of the equipment in Table 3 listed in the Project Description. Trager Limestone LLC shall include all actual emissions in the limit including SSM emissions as well as any excess SSM

GENERAL SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

emissions as reported to the Air Pollution Control Program's Compliance/Enforcement Section in accordance with the requirements of 10 CSR 10-6.050 *Start-Up, Shutdown, and Malfunction Conditions*.

B. Trager Limestone LLC shall demonstrate compliance with Special Condition 5.A using Attachment A or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.

6. Daily Production Limit for PORT-0798

Trager Limestone LLC PORT-0798 shall limit its daily production based on Table 2 below using Attachment B, or another equivalent form that has been approved by the Air Pollution Control Program, including electronic forms.

Table 2: Summary of Daily Production Limits

Type of Operation	Daily Production Limit
Solitary ^a	2,469 Tons
Separate ^b	1,000 Tons

^a Operation without other plants

^b Operation with other plants not owned by Trager Limestone LLC

7. Minimum Distance to Property Boundary Requirement

The primary emission point shall be located at least 1,320 feet from the nearest property boundary.

8. Primary Equipment Requirement

Trager Limestone LLC shall process all rock through the primary crusher (EP-02). Bypassing the primary crusher is prohibited.

9. Record Keeping Requirement

Trager Limestone LLC shall maintain all records required by this permit for not less than five years and make them available to any Missouri Department of Natural Resources' personnel upon request.

10. Reporting Requirement

Trager Limestone LLC shall report to the Air Pollution Control Program, Compliance / Enforcement Section by mail to P.O. Box 176, Jefferson City, MO 65102 or by email at AirComplianceReporting@dnr.mo.gov, no later than 10 days after any exceedances of the limitations imposed by this permit.

REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE
SECTION (5) REVIEW

Project Number: 2020-04-007
Installation ID Number: 061-P019
Permit Number: 092020-001

Trager Limestone LLC:
21008 Unity Avenue
Gallatin, MO 64640

Complete: May 19, 2020

Parent Company:
Trager Limestone LLC
6468 St. Hwy Y
Chillicothe, MO 64601

Daviess County, S13, T58N, R28W

PROJECT DESCRIPTION

Trager Limestone LLC is requesting to permit their existing facility that has had modifications since its last generic permit (022008-009). These modifications include an increase in overall MHDR from 217 tph to 350 tph, and additions of several conveyors, and other auxiliary equipment. This facility (Installation ID: 061-P019) is located at 21008 Unity Avenue, Southwest of Gallatin, MO S13, T58N, R28W.

Currently, rock, composed of non-metallic minerals, is drilled (EP-01), loaded into haul trucks, and transported to processing. Rock is crushed in the primary crusher (EP-02) and conveyed (EP-06) to the surge bin (EP-20). From there, the rock is conveyed (EP-07) to be screened (EP-08) into the secondary crusher (EP-05). The rock is then discharged (EP1-3 – EP-14) and conveyed (EP-11 – EP-18) to the secondary screen (EP-19) and conveyed (EP-17) to the storage stockpile before being hauled off. However, because this is a generic permitted facility, the actual physical setup of the equipment is allowed to change. The facility has an MHDR of 350 tons of rock crushed for every piece of permitted equipment, which is an increase in production since previous permit 022008-009.

The applicant is using one of the methods described in Attachment AA, "Best Management Practices," to control emissions from haul roads and vehicular activity areas.

This installation is located in Daviess County, an attainment area for all criteria pollutants.

This installation is not on the List of Named Installations found in 10 CSR 10-6.020(3)(B), Table 2. The installation's major source level is 250 tons per year and fugitive emissions are not counted toward major source applicability.

TABLES

Table 3: Current Emission Unit List

Emission Unit No.	Description	MHDR (tons)	Control
EP-01	Drilling ^a	350	N/A
EP-02	Primary Crusher	350	N/A
EP-03	Pit Haul Road	7 VMT	BMPs
EP-04	Stock Pile Haul Road	7 VMT	BMPs
EP-05	Secondary crusher	350	N/A
EP-06	Impact Dish Conveyor	350	N/A
EP-07	Syntron Conveyor	350	N/A
EP-08	Screener	350	N/A
EP-09	Inside Cross Conveyor	250	N/A
EP-10	Outside Cross Conveyor	250	N/A
EP-11	Underscreen Conveyor	250	N/A
EP-12	Cone Feed Conveyor	350	N/A
EP-13	Cone Dish Conveyor #1	350	N/A
EP-14	Cone Dish Conveyor #2	350	N/A
EP-15	Lime Conveyor	350	N/A
EP-16	Grey Conveyor	350	N/A
EP-17	Kolberg Conveyor	350	N/A
EP-18	MASABA Conveyor	350	N/A
EP-19	Secondary Screener	250	N/A
EP-20	Surge Bin	350	N/A
EP-21	Diesel Generator	25 gal	N/A
EP-22	Stockpile Area	2 acres	BMPs

^aThe Drilling emission point is not included in the Generic Permit calculations.

The following permits have been issued to Trager Limestone LLC from the Air Pollution Control Program.

Table 4: Permit History

Permit Number	Description
022008-009	Generic Rock Crushing/Drilling
0597-017	Replace Screen and Conveyor
0395-029	New Rock Crushing Plant

The table below summarizes the emissions of this project. The existing actual emissions were taken from the previous year's EIQ. The potential emissions of the application represent the emissions of all equipment and activities within the facility assuming continuous operation (8760 hours per year). The conditioned potential emissions include emissions from sources that will limit their production to ensure compliance with the annual emission limit of 15.0 tons of PM₁₀. A new site-wide 15 ton

limit is being established as part of this permit in order to include the new equipment.

Table 5: Emissions Summary (tons per year)

Air Pollutant	De Minimis Level/SMAL	Existing Potential Emissions	Existing Actual Emissions (2019 EIQ)	Potential Emissions of the Application	Conditioned Potential Emissions
PM	25.0	N/D	N/D	764.96	51.06
PM ₁₀	15.0	<15.0	5.05	224.73	<15.0
PM _{2.5}	10.0	N/D	0.90	27.30	1.82
SO _x	40.0	1.37	0.79	0.02	0.00
NO _x	40.0	8.66	2.51	49.35	3.29
VOC	40.0	0.22	0.07	6.97	0.47
CO	100.0	2.30	0.66	61.15	4.08
GHG (CO _{2e})	N/A	N/D	N/D	2,502.33	167.02
GHG (mass)	N/A	N/D	N/D	2,493.46	166.43
Formaldehyde	10.0/2.0 ^b	N/D	N/A	0.02	8.0 x 10 ⁻⁵
Total HAPs	25.0	N/D	N/A	0.06	1.6 x 10 ⁻³

N/A = Not Applicable; N/D = Not Determined

^bSMAL

EMISSIONS CALCULATIONS

Emissions for the project were calculated as described below and using emission factors found in the United States EPA document AP-42 *Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources*, Fifth Edition (AP-42).

Emissions from the rock-crushing equipment:

- Calculated using emission factors from AP-42 Section 11.19.2 “Crushed Stone Processing and Pulverized Mineral Processing,” August 2004.
- The uncontrolled emission factors were used because the inherent moisture content of the crushed rock is less than 1.5 % by weight.

Emissions from the diesel generator:

- Calculated using emission factors from AP-42 Section 3.3 Gasoline and Diesel Industrial Engines,” October 1996.

Emissions from haul roads and vehicular activity areas:

- Calculated using the predictive equation from AP-42 Section 13.2.2 “Unpaved Roads,” November 2006.
- A 90% control efficiency for PM and PM₁₀ and a 74% control efficiency for PM_{2.5} were applied to the emission calculations for the use of BMPs.

Emissions from storage piles:

- Load-in and load-out of storage piles were calculated using the predictive equation from AP-42 Section 13.2.4 "Aggregate Handling and Storage Piles," November 2006.
- The moisture content of the aggregate is 0.7% by weight.
- Emissions from wind erosion of storage piles were calculated using an equation found in the Air Pollution Control Program's Emissions Inventory Questionnaire Form 2.8 "Storage Pile Worksheet."

PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of PM₁₀ are conditioned to de minimis levels. Potential emissions of PM are above de minimis levels, but below major levels.

APPLICABLE REQUIREMENTS

Trager Limestone LLC shall comply with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements. Compliance with these emission standards, based on information submitted in the application, has been verified at the time this application was approved.

GENERAL REQUIREMENTS

- *Submission of Emission Data, Emission Fees and Process Information*, 10 CSR 10-6.110.
- No Operating Permit is required for this installation.
- *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*, 10 CSR 10-6.170
- *Restriction of Emission of Visible Air Contaminants*, 10 CSR 10-6.220
- *Restriction of Emission of Odors*, 10 CSR 10-6.165

SPECIFIC REQUIREMENTS

- New Source Performance Standards (NSPS) 40 CFR 60 Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants" applies to the equipment. 40 CFR 60 Subpart IIII, "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines" applies to the generator.

- None of the National Emission Standards for Hazardous Air Pollutants (NESHAPS) or National Emission Standards for Hazardous Air Pollutants for Source Categories (MACTS) apply to the proposed equipment.
- *Control of Sulfur Dioxide Emissions*, 10 CSR 10-6.261

STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*, it is recommended that this permit be granted with special conditions.

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated January 1, 2020, received April 1, 2020, designating Trager Limestone LLC as the owner and operator of the installation.

Attachment AA: Best Management Practices

Haul roads and vehicular activity areas shall be maintained in accordance with at least one of the following options when the plant is operating.

1. Pavement
 - A. The operator shall pave the area with materials such as asphalt, concrete or other materials approved by the Air Pollution Control Program. The pavement will be applied in accordance with industry standards to achieve control of fugitive emissions while the plant is operating.
 - B. Maintenance and repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
 - C. The operator shall periodically wash or otherwise clean all of the paved portions of the haul roads as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. Application of Chemical Dust Suppressants
 - A. The operator shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to unpaved areas.
 - B. The quantities of the chemical dust suppressant shall be applied and maintained in accordance with the manufacturer's recommendation (if available) and in sufficient quantities to achieve control of fugitive emissions from these areas while the plant is operating.
 - C. The operator shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator shall keep these records with the plant for not less than five (5) years and make these records available to Department of Natural Resources' personnel upon request.

3. Application of Water-Documented Daily
 - A. The operator shall apply water to unpaved areas. Water shall be applied at a rate of 100 gallons per day per 1,000 square feet of unpaved or untreated surface area while the plant is operating.
 - B. Precipitation may be substituted for watering if the precipitation is greater than one quarter of one inch and is sufficient to control fugitive emissions.
 - C. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads.
 - D. The operator shall record the date, volume of water application and total surface area of active haul roads or the amount of precipitation that day. The operators shall also record the rationale for not watering (e.g. freezing conditions or not operating).
 - E. The operator shall keep these records with the plant for not less than five (5) years, and the operator shall make these records available to Department of Natural Resources' personnel upon request.

APPENDIX A

Abbreviations and Acronyms

% percent	MMBtuMillion British thermal units
°F degrees Fahrenheit	MMCFmillion cubic feet
acfm actual cubic feet per minute	MSDSMaterial Safety Data Sheet
BACT Best Available Control Technology	NAAQSNational Ambient Air Quality Standards
BMPs Best Management Practices	NESHAPs ..National Emissions Standards for Hazardous Air Pollutants
Btu British thermal unit	NO_xnitrogen oxides
CAM Compliance Assurance Monitoring	NSPSNew Source Performance Standards
CAS Chemical Abstracts Service	NSRNew Source Review
CEMS Continuous Emission Monitor System	PMparticulate matter
CFR Code of Federal Regulations	PM_{2.5}particulate matter less than 2.5 microns in aerodynamic diameter
CO carbon monoxide	PM₁₀particulate matter less than 10 microns in aerodynamic diameter
CO₂ carbon dioxide	ppmparts per million
CO_{2e} carbon dioxide equivalent	PSD Prevention of Significant Deterioration
COMS Continuous Opacity Monitoring System	PTEpotential to emit
CSR Code of State Regulations	RACTReasonable Available Control Technology
dscf dry standard cubic feet	RALRisk Assessment Level
EQ Emission Inventory Questionnaire	SCCSource Classification Code
EP Emission Point	scfmstandard cubic feet per minute
EPA Environmental Protection Agency	SDSSafety Data Sheet
EU Emission Unit	SICStandard Industrial Classification
fps feet per second	SIPState Implementation Plan
ft feet	SMALScreening Model Action Levels
GACT Generally Available Control Technology	SO_xsulfur oxides
GHG Greenhouse Gas	SO₂sulfur dioxide
gpm gallons per minute	SSMstartup, shutdown, & malfunction
gr grains	tphtons per hour
GWP Global Warming Potential	tpytons per year
HAP Hazardous Air Pollutant	VMTvehicle miles traveled
hr hour	VOC Volatile Organic Compound
hp horsepower	
lb pound	
lbs/hr pounds per hour	
MACT Maximum Achievable Control Technology	
µg/m³ micrograms per cubic meter	
m/s meters per second	
Mgal 1,000 gallons	
MW megawatt	
MHDR maximum hourly design rate	