

SUPPLEMENT TO PERMIT NO. 395-00

South Huron Valley Utility Authority
34001 West Jefferson
Brownstown Township, Michigan

GENERAL CONDITIONS

1. Rule 201(1) - The process or process equipment covered by this permit shall not be reconstructed, relocated, altered, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule.
2. Rule 201(4) - If the installation, reconstruction, relocation, or alteration of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the person to whom this permit was issued, or the designated authorized agent, shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environmental Quality, P.O. Box 30260, Lansing, Michigan 48909, if it is decided not to pursue the installation, reconstruction, relocation, or alteration of the equipment allowed by this Permit to Install.
3. Rules 201(6)(b) - If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to R 336.1210, operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and condition of this Permit to Install.
4. Rule 201(8) and Section 5510 of Act 451, P.A. 1994 - The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Departments' rules or the Clean Air Act.
5. Rule 219 - The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to R 336.1219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b) and (c) of R 336.1219. The written request shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality.
6. Rule 901 - Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property.
7. Rule 912 - The owner or operator of a source, process, or process equipment shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant in excess of standards for more than one hour, or of any air contaminant in excess of standards for more than two hours, as required in this rule, to the District Supervisor, Air Quality Division. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the District Supervisor within 10 days, with the information required in this rule.

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8. Approval of this permit does not exempt the person to whom this permit was issued from complying with any future applicable requirements which may be promulgated under Part 55 of Act 451, P.A. 1994 or the Clean Air Act.
9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
10. Operation of this equipment may be subject to other requirements of Part 55 of Act 451, P.A. 1994, and the rules promulgated thereunder.
11. Rule 301 - Except as provided in subrules (2) and (3) or unless the special conditions of this Permit to Install include an alternate opacity limit established pursuant to subrule (4) of R 336.1301, a person shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with R 336.1303.
 - a) A 6-minute average of 20% opacity, except for one 6-minute average per hour of not more than 27% opacity.
 - b) A visible emission limit specified by an applicable federal new source performance standard.
 - c) A visible emission limit specified as a special condition of this permit to install.
12. Rule 370 - Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in R 336.1370(2).
13. Rule 285 - Except as allowed by Rule 285 (a), (b), and (c), applicant shall not substitute any fuels, coatings, nor raw materials for those described in the application and allowed by this permit, nor make changes to the process or process equipment described in the application, without prior notification to and approval by the Air Quality Division.
14. The Department may require the applicant to conduct acceptable performance tests, at the applicant's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001.

SPECIAL CONDITIONS
 (12 special conditions)

This permit covers the emission units and flexible groups that are defined in the following tables:

Emission Unit ID	Equipment Description	Stack ID
EU-Prelim	Covered Preliminary Treatment	SV-Plim01
EU-Primary	Covered Primary Treatment	SV-Pmary02
EU-Biolog	Covered Biological Treatment	
EU-Sludthick	Covered Sludge Thickener	SV-Sludge03
EU-Sludstore	Covered Sludge Storage	

Flexible Groups	Emission Units Included in Flexible Group
FG-Pump	EU-Prelim, EU-Primary and EU-Biolog controlled by a two (2) single stage sodium hypochlorite solution scrubbers operating in parallel
FG-Blower	EU-Sludthick and EU-Sludstore controlled by three scrubbers operating in series; stage 1 is final treated effluent wash, stage 2 and stage 3 are sodium hypochlorite solution wash

FG-Pump

Emission Limits

	Pollutant	Equipment	Limit	Time Period	Compliance Method*	Applicable Requirements
1.	Hydrogen sulfide gas	FG- Pump	1 ppm	1 hour average	S.C. 3, 4 and 5	R336.1205, R336.1225 and R336.1901

FG-Blower

Emission Limits

	Pollutant	Equipment	Limit	Time Period	Compliance Method*	Applicable Requirements
2.	Hydrogen sulfide gas	FG- Blower	3 ppm	1 hour average	S.C. 3, 4 and 5	R336.1205, R336.1225 and R336.1901

See special conditions

Production/Process/Operational Limits

- The permittee shall, for FG-Pump and for FG-Blower, have the hypochlorite solution flow pumps commissioned, operating properly and in good repair at all times. (R336.1205, R336.1225 and R336.1901)
- The permittee shall, for FG-Pump and for FG-Blower, maintain the solution pH within the range of 7.6 to 10.0 and maintain the oxiditive-reduction probe reading within the range of 5.5 to 8.0. (R336.1205, R336.1225 and R336.1901)

5. The Permittee shall install, calibrate, maintain and operate the odor control scrubbers according to manufacturers' Operating and Maintenance Manual. (R336.1205, R336.1901)
6. The permittee shall not use the by-pass stack unless there is an emergency. (R336.1205, R336.1901)

Testing

7. Within 180 days after commencement of trial operation, verification of hydrogen sulfide gas emission rates from FG-Pump and FG-Blower by testing, at owner's expense, in accordance with Department requirements, will be required. Verification of emission rates includes the submittal of a complete report of the test results. No less than 60 days prior to testing, a complete stack testing plan must be submitted to the Air Quality Division. The final plan must be approved by the Air Quality Division prior to testing. (R336.11001, R336.11003, and R336.11004.)

Monitoring

8. The Permittee shall monitor and record the pH probes readings, the oxiditive-reduction probes readings and which hypochlorite solution pumps are used for FG-Pump and for FG-Blower on a bi-hourly basis in a manner and with instrumentation acceptable to the Air Quality Division. (R336.1205, R336.1225 and R336.1901)

Recordkeeping/Reporting/Notification

9. Records of the hyperchlorite solution pump that is in use, the solution pH, and the oxidative probe readings to each scrubber in FG-Pump and FG-Blower shall kept on file for a period of at least five years from the day of record and made available to the Air Quality Division upon request. (R336.1205, R336.1225 and R336.1901)
10. The permittee shall develop an operation and maintenance log for the odor control system. This log information for the most recent 5-year period shall be kept on site, and made available to the Air Quality Division upon request. (R336.1205, R336.1901)
11. For purposes of this permit to install, all requirements for notifications or submittal of records to or approvals by the District Supervisor, Air Quality Division should be submitted to the Director of Compliance and Enforcement, Air Quality Management Division, Wayne County, Department of Environment unless you are otherwise notified in writing by the Air Quality Division. At no time shall notifications or submittals to or approvals by both agencies be required pursuant to this permit. ACT 451, R324.5542

Stacks

12. The exhausts gases from each FG-Pump and FG-Blower shall be discharged unobstructed vertically upward to the ambient air from stacks with maximum diameters and exit heights above ground level as specified in the following table: (R336.1225, R336.1910)

South Huron Valley Authority
Odor Control System Stacks

Stack ID	Maximum Diameter, Inches	Minimum Height, feet
SV-Plim01	36	27
SV-Pmary02	36	27
SV-Sludge	24	28