



State of Michigan

National Pollutant Discharge Elimination System Permit Application Appendix

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Please **Do Not** Return This Appendix with the Completed Application

Additional Application Instructions

Permittee's should review each item in Section I, and as Appropriate Sections II through VI. Where a specific item is not applicable enter an NA to indicate the item was considered Not Applicable.

Instructions for Completing Section I, Items 1 through 8

- 1) NPDES PERMIT NUMBER: Applicants for permit reissuance and modifications should provide the NPDES permit number of their existing permit. Applicants for new discharges should enter **NA** (not applicable).
- 2) APPLICANT NAME AND MAILING ADDRESS:
 - For industrial facilities – Provide the parent company name, division name, and mailing address.
 - For federal and state facilities – Provide the department name, division or bureau name, and mailing address.
 - For commercial facilities – Provide both the owner's and the entity's names, name of the business, and mailing address.
 - For publicly-owned facilities – Provide the legal owner of the facility and mailing address.
- 3) FACILITY NAME AND LOCATION: Provide the name of the facility or plant. Provide the street address or approximate location of the facility or plant. **DO NOT USE** P.O. Box numbers.
- 4) CONTACTS: Provide the name, mailing address, telephone number, fax number, and e-mail address for the following contacts:
 - Application: The person who should be contacted with questions concerning this permit application.
 - Facility: Each facility is required to have a facility contact. The facility contact for a publicly-owned treatment works should be the superintendent or a properly-certified operator who is in charge of the day-to-day operation and maintenance of the treatment facility. The facility contact for a corporation should be a principal executive officer of at least the level of vice president, or their designated representative if the representative is responsible for the overall operation of the facility from which the discharge described in this permit application occurs. The facility contact for a partnership should be a general partner. The facility contact for a sole proprietorship should be the proprietor. The facility contact for a municipal, state, or other public facility should be a principal executive officer, the mayor, village president, city or village manager, or other duly-authorized employee.
 - Discharge Monitoring Reports (DMRs): The person responsible for completing and submitting the facility's DMRs.
 - Biosolids Billing: The person responsible for payment of the land application fee required by Section 324.3132 of the Michigan Act.
 - Storm Water Billing: The person responsible for payment of the facility's storm water permit fee required by Section 324.3118 of the Michigan Act.
 - NPDES Annual Billing: The person responsible for payment of the facility's NPDES Permit annual fee required by Section 324.3120 of the Michigan Act.
- 5) PERMIT ACTION REQUESTED: Indicate the permit action that is being requested.
- 6) RULE 98 – ANTIDegradation REQUIREMENTS: A facility that has never discharged wastewater to the surface waters (new use), or a facility that discharging but has never been issued an NPDES Permit (existing unpermitted), or a facility that is requesting reissuance or modification of a previously-issued NPDES permit and increasing the loading of pollutants to the receiving water, must check "yes" in this section and provide an Antidegradation Demonstration. Additional information concerning Antidegradation requirements can be found on Pages 8 – 9 of this Appendix.
- 7) ADDITIONAL FACILITY LOCATION INFORMATION: Provide the following information.
 - A. Identify the local unit of government (LUG) where the treatment facility is located. Provide an e-mail address.
 - B. Identify the county and, where appropriate, the township where the facility is located.
 - C. Identify the location of the facility using State Planar Coordinates (e.g., Town 1 N, Range 12 E, Section 34, SE¼, NE¼) or, where applicable, the Private (French) Land Claim designation.
 - D. Identify the location of the facility using latitude and longitude, accurate to within 15 seconds (e.g., Latitude = 42°27'15", Longitude = -83°02'30"), or accurate to within 0.004 decimal degrees (e.g., Latitude = 42.454167, Longitude = -83.041667).
- 8) CERTIFIED OPERATOR: Provide the operator's name, certification number, certification classification(s), address, telephone number(s), and e-mail address. The Michigan Act requires that all municipal / domestic, commercial, and industrial dischargers to the surface waters of the State of Michigan employ a properly-certified operator. Questions about operator certification should be directed to the Operator Training and Certification Unit, at 517-241-7199.

Additional Application Instructions

Please Note: GPD = gallons per day, MGD = millions of gallons per day, MGY = millions of gallons per year.

Instructions for Completing Section II B., Item 1. A. – H. (Municipal or Sanitary Wastewater)

1. OUTFALL INFORMATION

Outfall refers to the point where treated wastewater is discharged to the surface waters of the state. "Surface waters of the state" means all of the following: the Great Lakes and their connecting waters, all inland lakes, rivers, streams, impoundments, open drains, wetlands, and other surface bodies of water within the confines of the state, but does not include drainage ways and ponds used solely for wastewater conveyance, treatment, or control. Enter the Outfall Number in the Outfall Number Box on each page, identifying the outfall by number, e.g., 001, 002, etc. Applicants with existing NPDES permits should refer to the facility's current NPDES permit for outfall number identification.

- A. Identify the receiving water (Surface Waters of the State) to which the facility's outfall(s) discharge. Identify the Hydrologic Unit Code (HUC). See the Upper and Lower Peninsula Hydrologic Maps on Pages 19 and 20 of this Appendix for the appropriate HUC.
- B. Identify the county and township where the outfall is located.
- C. Identify the location of the outfall using State Planar Coordinates. (e.g., Town 1N, Range 12E, Section 34. SE ¼, NE ¼) or, where applicable, the Private (French) Land Claim designation.
- D. Identify the location of the outfall using latitude and longitude, accurate to within 15 seconds (e.g., Latitude = 42°27'15", Longitude = - 83°02'30"), or accurate to within 0.004 decimal degrees (e.g., Latitude = 42.454167, Longitude = -83.041667).
- E. Enter the Annual Average Design Flow that the facility is designed to treat. **Continuous Dischargers** are required to enter the Total Volume (MGD) of wastewater the facility is designed to treat and discharge per day. **Seasonal Dischargers** are required to enter the total volume (MGY) of wastewater the facility is designed to treat and discharge per year. The design flow is used in determining the appropriate effluent limitations for the discharge.
- F. Seasonal Discharge: A facility is considered to have a seasonal discharge if wastewater is treated and **stored** throughout a portion of the year and then discharged over a specified period or periods of days, weeks, or months. **Note: Batch process discharges are not seasonal discharges.** Provide the dates the facility discharges the treated wastewater (e.g., October 15 through November 10) and the average discharge flows (e.g., 5 MGD).
- G. Continuous Discharge: Any facility that does not discharge seasonally. Provide the approximate hours per day and the number of days per year that the discharge occurs from this outfall. Also provide the actual annual average facility flow and the maximum daily facility flow for the past three years. Batch Dischargers are required to provide the peak batch flow rate; the number of batches per day; the per-batch minimum, average, and maximum volumes in gallons; and the per-batch minimum, average, and maximum batch discharges in minutes.
- H. Inflow and Infiltration is clear water entering a sanitary collection system from either precipitation or non-sanitary sources. The volume of inflow and infiltration should be reported in gallons per day.

Instructions for Completing Section III B., Items 1. A – J (Industrial or Commercial Wastewater)

1. OUTFALL INFORMATION

Outfall refers to the point where treated wastewater is discharged to the surface waters of the state. "Surface waters of the state" means all of the following: the Great Lakes and their connecting waters, all inland lakes, rivers, streams, impoundments, open drains, wetlands, and other surface bodies of water within the confines of the state, but does not include drainage ways and ponds used solely for wastewater conveyance, treatment, or control. Enter the Outfall Number in the Outfall Number Box on each page, identifying the outfall by number, e.g., 001, 002, etc. Applicants with existing NPDES permits should refer to the facility's current NPDES permit for outfall number identification.

- A. Identify the receiving water (Surface Waters of the State) to which the facility's outfall(s) discharge. Identify the Hydrologic Unit Code (HUC). See the Upper and Lower Peninsula Hydrologic Maps on pages 19 and 20 of this Appendix for the appropriate HUC.
- B. Identify the county and township where the outfall is located.

Additional Application Instructions

- C. Identify the location of the outfall using State Planar Coordinates. (e.g., Town 1N, Range 12E, Section 34. SE ¼, NE ¼) or, where applicable, the Private (French) Land Claim designation.

- D. Identify the location of the outfall using latitude and longitude, accurate to within 15 seconds (e.g., Latitude = 42°27'15", Longitude = - 83°02'30"), or accurate to within 0.004 decimal degrees (e.g., Latitude = 42.454167, Longitude = -83.041667).

- E. Identify the type(s) of wastewater the facility will discharge from this outfall. Check as many types of wastewater as are appropriate. If the water is used in multiple areas, such as water that is first used for noncontact cooling water and then for another use, such as process water, indicate the final use only. For other common wastewater types, see "Table 8 – Other Types of Wastewater" in this Appendix.

- F. When reporting the Maximum Design Flow Rate, identify the design flow for this specific outfall (e.g., capacity of pipes, package treatment system flow, or some other finite treatment system flow). Please provide an explanation if "Pollution Prevention Measures" are expected to provide flow reductions.

- G. Identify the Maximum Daily Discharge Flow Rate that the facility is expecting to discharge in the next five years. This flow will be used to determine the facility's effluent limitations and will be the flow authorized in an issued permit. NOTE: Discharges of flows greater than the Discharge Flow Rate authorized in the permit will constitute a violation of the Michigan Act and would be subject to the penalties specified therein.

- H. Seasonal Discharge: A facility is considered to have a seasonal discharge if wastewater is treated and **stored** throughout a portion of the year and then discharged over a specified period or periods of days, weeks, or months. **Note: Batch process discharges are not seasonal discharges.** Provide the dates the facility discharges the treated wastewater (e.g., October 15 through November 10) and the average discharge flows (e.g., 5 MGD).

- I. Continuous Discharge: Any facility that does not discharge seasonally. Provide the approximate hours per day and the number of days per year that the discharge occurs from this outfall. Also provide the actual annual average facility flow and the maximum daily facility flow for the past three years. Batch Dischargers are required to provide the peak batch flow rate; the number of batches per day; the per-batch minimum, average, and maximum volumes in gallons; and the per-batch minimum, average, and maximum batch discharges in minutes.

Instructions for Completing Section III B., Item 3.

3. EFFLUENT CHARACTERISTICS – CONVENTIONAL POLLUTANTS

Please note that effluent data already submitted through the DMR or e-DMR reporting system need not be submitted with the Application. Prior submittal of the data should be noted on Pages 21 and 23 of the Application.

In accordance with Title 40 of the Code of Federal Regulations (40 CFR), Subpart 122.21, all applicants are required to report Biochemical Oxygen Demand – 5 day (BOD₅), Chemical Oxygen Demand (COD), Total Organic Carbon (TOC), Total Suspended Solids (TSS), Ammonia as N, Temperature (both summer and winter), and pH. The applicant may, however, request that data reporting for one or more of these required parameters be waived. Such requests shall be supported by adequate rationale. The request and rationale for the waiver should be noted on Pages 21 and 23 of the Application.

Report available discharge data for the parameters listed in Section III.B.3 of this Application. Actual data shall be provided for existing discharges, and expected or estimated data provided for proposed discharges. Please include an explanation if "Pollution Prevention Measures" are expected to reduce pollutants. Certain types of discharges shall provide a minimum of analytical test data for specific parameters. See "Minimum Analytical Testing Requirements for Various Discharge Requests" in this Appendix for a list of specific discharge types and their specific parameters (e.g., noncontact cooling waters, petroleum groundwater cleanups, etc.). For assistance in determining the appropriate parameters to report, contact the Permits Section. To submit additional information, see Page ii, Item 3.

Report all data in the units provided and for the sample types specified in the table. If more than one option is available, check the appropriate box. The units are as follows: µg/l = micrograms per liter, mg/l = milligrams per liter, °F = degrees Fahrenheit, °C = degrees Celsius. **For analytical test requirements, see Page ii, Item 5.**

Additional Application Instructions

To analyze for pH, temperature, total residual chlorine, oil and grease, and fecal coliform, use **Grab Samples** unless otherwise directed by a current NPDES Permit. To analyze for BOD₅, total phosphorus, COD, TOC, TSS, and ammonia nitrogen, use **24-hour composite samples** unless other frequency or sample type analyses are available.

For two or more substantially identical outfalls, permission may be requested from the appropriate DEQ District Office to sample and analyze only one outfall and submit the results of the analysis for other substantially identical outfalls. If the request is granted by the district office, on a separate sheet attached to the Application, identify which outfall was sampled and describe why the outfalls which were not sampled are substantially identical to the outfall which was sampled. See the Appendix "Definitions" Section for sampling definitions, including "maximum daily concentration" and "maximum monthly concentration."

Note: Applicants for groundwater remediation discharges should also report the intake characteristics of the contaminated groundwater.

Frequently-Asked Questions about the NPDES Permit Application

Q. Why do I have to apply for an NPDES permit?

A. The National Pollutant Discharge Elimination System (NPDES) Program protects the surface waters of the state by assuring that discharges of domestic and industrial wastewater comply with state and federal regulations. NPDES permits are required under Section 402 of the Federal Clean Water Act (the "Federal Act"), as amended (33 U.S.C. 1251 et seq, P.L. 92-500, 95-217), and under Part 31 of Michigan's "Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (the "Michigan Act"). Part 31 of the Michigan Act also provides authority for the State to issue NPDES permits. The Michigan Department of Environmental Quality (DEQ) administers the NPDES permit program for the State of Michigan.

Q. I have never applied for an NPDES Permit. What will happen after I submit my application?

A. The application will be reviewed by the Permits Section staff for administrative and technical completeness. Applicants with incomplete applications will be contacted and required to supply any missing information. Only complete applications will move on to the next step. The Permits staff will determine if the proposed discharge qualifies for coverage under a general permit. A certificate of coverage will be issued to qualifying dischargers. If the discharge does not qualify for coverage under a general permit, the staff will begin processing the application for an individual permit.

Processing for an individual permit can include: development of treatment technology and/or water quality-based effluent limitations; drafting the permit, public notice, fact sheet, and other pertinent documents; a pre-public notice review period that allows the applicant to review the draft permit and other documents; and a public notice period.

There can be additional steps that occur during processing for an individual permit. Applicants may provide additional information and request review or clarification of permit conditions. During the public notice period, the general public may request that meetings or hearings be held to provide further input on the proposed discharge. The applicant or general public may request a meeting with the person issuing the permit. Each of these actions could impact the requirements of the draft permit.

If no objections are received to the proposed permit action during the public notice period, the DEQ will make a final determination and the permit will be issued.

Q. Which Publicly-Owned Treatment Works (POTWs) are required to submit Whole Effluent Toxicity (WET) tests as part of their NPDES Permit Application?

A. All POTWs with a design flow of 1 MGD or greater, if they have a Federal Industrial Pretreatment Program, NPDES Permit WET requirements, or if they are otherwise required by the DEQ are required to submit WET Test summaries with their Application.

Q. How many WET tests are required for the NPDES Permit Application?

A. The DEQ requires that POTWs that are required to submit WET tests shall, at a minimum, submit four tests that have been run quarterly in the previous year, or four tests that have been run once a year over the last five years. To account for seasonal variation of facility effluent, one wet test should be conducted in each of the four seasons, (spring, summer, fall, and winter).

Q. I have not completed the WET tests required for my NPDES Permit Application and the Application is due. What do I do?

A. Submit your Application and provide a schedule for submission of the WET tests. Please note that the Application will be considered incomplete until the WET tests have been submitted. Submission of an incomplete Application may put applicants out of compliance with an existing NPDES permit, as applications for reissuance must be submitted 180 days prior to permit expiration.

Q. There is not enough space on the Application to submit all the information that the application requires. What should I do?

A. Many of the pages on the Application have been created so that they can be easily duplicated and used to submit outfall or effluent data. Additional information can be submitted in spreadsheets or other appropriate media.

Q. How do I determine my Hydrologic Unit Code (HUC)?

A. See the watershed maps pages 19 and 20 of this Appendix. Determine your HUC using these maps, or you may visit the United States Environmental Protection Agency (USEPA) Surf Your Watershed Web site via the internet. The URL for that site is www.epa.gov/surf/.

Frequently-Asked Questions about the NPDES Permit Application

Q. How do I determine the latitude and longitude of my discharge?

A. This information can be obtained using a Global Positioning System (GPS) unit, by the use of United States Geological Survey (USGS) Topographical maps, or at various internet map sites.

Q. How do I determine the quarter-quarter section, township, and range of my discharge?

A. This information can be obtained using USGS Topographical maps, plat maps, or at various internet map sites.

Q. Do I really need to list all of the adjacent property owners?

A. Yes, this information is required for the Application to be considered administratively complete. The information can be obtained from the local unit of government via tax rolls. Please provide the property owners' mailing address. Property addresses are not necessarily acceptable.

Q. What if I do not have all of the information required by the Application?

A. Applications for new discharges will not be processed unless all of the requested information is provided. Processing of applications for existing discharges may be started without all of the required information, provided that the missing information is not needed to draft the reissued permit, and provided that the applicant has agreed to provide the missing information prior to the public notice period for the draft permit.

Q. I do not know the average flow rate for regulated storm water that flows from my facility. What should I do now?

A. You may enter "UNKNOWN" in the column for Average Flow Rate.

Q. How much effluent data is sufficient for the Application to be considered complete?

A. The effluent data must be sufficient to accurately characterize the facility's discharge. Effluent limitations will be based in part on the information submitted. If the data is insufficient, the effluent limitations will not reflect the facility discharge and may be unnecessarily restrictive.

Q. Is there an NPDES Permit Application Fee?

A. Yes, this non-refundable fee must be submitted along with the Permit Application. Application fees are as follows:

EPA major facility individual permit	\$750.00
EPA minor facility individual permit, CSO permit, or wastewater stabilization lagoon individual permit.....	\$400.00
EPA minor facility general permit	\$75.00

Q. Is there an Annual Permit Fee?

A. Yes, permittee's with authorization to discharge wastewater are subject to Annual Permit Fees. Further information on Annual Permit Fees can be viewed via the Internet (<http://www.michigan.gov/deq>. On the left side of the screen click on WATER, Surface Water, and NPDES Permits; click on "NPDES Permit Fees" which is under the Information banner, then click on NPDES Fees: Frequently-Asked Questions and Answers).

Some Acronyms Used in the NPDES Permit Application and this Appendix

CERCLA----- Comprehensive Environmental Response, Compensation, and Liability Act (Superfund)

CD-R----- Compact Disk Recordable

COC----- Certificate of Coverage

CNMP ----- Comprehensive Nutrient Management Plan

CPLR ----- Cumulative Pollutant Loading Rate

DL ----- Detection Level

DMR ----- Discharge Monitoring Report

FIPP----- Federal Industrial Pretreatment Program

GPD----- Gallons per Day

IPP ----- Industrial Pretreatment Program

HUC ----- Hydrologic Unit Code

LUG ----- Local Unit of Government (village, city, township)

MAHL----- Maximum Allowable Headworks Loading

MGD----- Millions of Gallons per Day

MGY----- Millions of Gallons per Year

NAICS ----- North American Industry Classification System

POTW----- Publicly-Owned Treatment Works

QA/QC----- Quality Assurance / Quality Control

QL ----- Quantification Level

SIC----- Standard Industrial Classification

SIU----- Significant Industrial User

TWTDS----- Treatment Works Treating Domestic Sewage

WET ----- Whole Effluent Toxicity

Definitions for Purposes of this Application and this Appendix

24-Hour Composite Sample is a flow-proportioned composite sample consisting of hourly or more frequent portions that are taken over a 24-hour period.

Average Monthly Concentration is the average of all of the monthly concentrations.

Biosolids refers to the solids resulting from the treatment of domestic sanitary sewage. Following treatment, these solids are suitable for land application.

Certificate of Coverage is a site-specific document that authorizes a facility to discharge under a General Permit.

Cumulative Pollutant Loading Rate (CPLR) is the maximum amount of an inorganic pollutant that can be applied to an area of land.

Detection Level is the lowest concentration or amount of the target analyte that can be determined to be different from zero by a single measurement at a stated level of probability.

Discharge Location is defined as the point where a discharge enters the surface waters of the state.

Flow-Proportioned Sample is a composite sample, with the sample volume proportional to the effluent flow.

Geometric Mean is the n^{th} root of the product of n numbers.

Grab Sample is a single sample taken at neither a set time nor flow.

Maximum Allowable Headworks Loading is the maximum loading of a pollutant that will not cause a POTW to violate a treatment plant or environmental criterion developed to prevent process inhibition or interference, or to violate effluent or biosolids standards.

Maximum Daily Concentration is the maximum daily concentration recorded since the last permit issuance. (The Daily Concentration is the sum of the concentrations of the individual samples of a parameter divided by the number of samples taken during any calendar day. If the parameter concentration in any sample is less than the method quantification level, regard that value as the quantification level when calculating the daily concentration, and indicate that the result is "less than" the value reported.)

Maximum 7-Day Concentration is the maximum seven-day concentration recorded since the last permit issuance. (The Seven-Day Concentration is the sum of the daily concentrations determined during any seven consecutive days in a calendar month, divided by the number of daily concentrations determined. If any daily concentration is less than the method quantification level, regard that value as the quantification level when calculating the monthly concentration, and indicate that the result is "less than" the value reported.)

Maximum Monthly Concentration is the maximum monthly concentration recorded since the last permit issuance. (The Monthly Concentration is the sum of the daily concentrations determined during a reporting month (or 30 consecutive days), divided by the number of daily concentrations determined. If any daily concentration is less than the method quantification level, regard that value as the quantification level when calculating the monthly concentration, and indicate that the result is "less than" the value reported.)

Michigan Water Quality Standards are rules that establish water quality requirements for the state's surface waters that protect public health and welfare, enhance and maintain the state's water quality, and protect the state's natural resources.

Noncontact Cooling Water is water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

Primary Industries are listed in Table 1 of this Appendix.

Quantification Level is the measurement of the concentration of a contaminant obtained by using a specified laboratory procedure calculated at a specified concentration above the detection level. It is considered the lowest concentration at which a particular contaminant can be quantitatively measured using a specified laboratory procedure for monitoring the contaminant.

Secondary Industries are those industries that are not listed as primary industries.

Significant Industrial User is defined in 40 CFR, Section 403.3(t).

Storm Water – Not Regulated is a storm water discharge that does not need a permit under federal storm water regulations at 40 CFR 122.26(b)(14).

Definitions for Purposes of this Application and this Appendix

Storm Water – Regulated is defined in 40 CFR 122.26 (b) (14), Storm Water Discharges Associated with Industrial Activities, and includes storm water discharges from 1) various types of industries identified in the regulations; 2) Treatment Works Treating Domestic Sewage (TWTDS) with design flows equal to or greater than 1 MGD, or that have Federal Industrial Pretreatment Programs; and 3) any storm water discharge subject to effluent guidelines as defined below.

Storm Water Subject to Effluent Guidelines is a regulated storm water discharge for which federal effluent limitation guidelines exist. Such guidelines currently exist under the following sections of the federal regulations, 40 CFR: 411 – cement manufacturing; 412 – feedlots; 418 – fertilizer manufacturing; 419 – petroleum refining; 422 – phosphate manufacturing; 423 – steam electric; 434 – coal mining; 436 – mineral mining and processing; 440 – ore mining and dressing; and 443 Subpart A – asphalt emulsion.

Rule 323.1098 Antidegradation

Rule 1098 of the Part 4 Rules applies to any NPDES permit action that is anticipated to result in a new or increased loading of pollutants to the surface waters of the state. It requires applicants to show how the discharge is exempt under Subrule (8) or (9), or provide a demonstration under Subrule (4) that identifies the social or economic development and benefits that will be foregone in the area where the waters are located if the lowering of the water quality is not allowed.

The following examples are considered to be an increase in loading, requiring either a statement of exemption or an Antidegradation Demonstration:

- A new use
- An increase in flow
- An increase in a mass limit
- An increase in thermal loading
- An increase in concentration limits with no change in flow
- The addition of a new waste stream that will not require an authorization to increase the flow of the discharge
- An existing discharger which has never received an effective NPDES permit for discharges at a particular site

The following examples are not considered to be increases in loading, and do not require an Antidegradation Demonstration:

- A change in the Water Quality-Based Effluent Limits (WQBEL) for mercury or Polychlorinated Biphenyls (PCBs) due to a change in the Water Quality Standard.
- A newly-established limit for a parameter when there has been no action on the part of the permittee to increase the mass loading.
- Limits that are eliminated.

In accordance with Subrules (8) and (9), certain discharges are exempt from submitting an Antidegradation Demonstration. Applicants with these discharges shall submit a statement of exemption from the antidegradation requirements, detailing the reason(s) why the discharge is exempt or check the appropriate box in Section 1, Item 6. The following examples do not constitute a lowering of water quality and are therefore exempt from the antidegradation requirements:

- A short-term (weeks to months) or temporary lowering of water quality
- Bypasses that are not prohibited by regulations set forth in 40 CFR 122.41(m)
- Response actions undertaken to alleviate a release of pollutants into the environment that may pose an imminent and substantial danger to the public health or welfare
- Discharges of pollutant quantities from the intake water at a facility if the intake and discharge are to the same body of water
- Increases in flow, if the increase is within the design flow of the facility, it is not specifically authorized in the current permit, and there is no significant change expected in the characteristics of the wastewater collected
- Intermittent increased loading related to wet-weather conditions
- New or increased loading due to DEQ-approved controls related to wet-weather conditions
- Discharges authorized by certificates of coverage and notices of coverage
- Increased loadings within the authorized levels of a limit in an existing control document, except those loadings that result from actions by the permittee that would otherwise require submittal of an increased use request
- Increased loadings of a pollutant which do not involve a Bioaccumulative Chemicals of Concern (BCC) and which use less than 10 percent of the unused loading capacity that exists at the time of the request
- Environmental or Public Health Problem Corrections
- Economic or Social Benefits to the Community

Rule 323.1098 Antidegradation

The applicant shall identify in the Antidegradation Demonstration alternatives to the proposed surface water discharge that have been considered and an explanation as to why the alternatives were not feasible. Alternatives to a surface water discharge may include, but are not limited to:

- Groundwater discharges
- Discharges to available sewerage systems
- Water reuse Water recycling
- If there are any BCCs in the proposed discharge, then the Antidegradation Demonstration shall include the alternatives evaluated to reduce or eliminate the BCCs and which of the alternatives were selected.

Antidegradation Demonstrations for privately-owned treatment systems serving the public for the treatment of domestic wastewater from two or more residences shall include documentation of the methods established for the ongoing operation and maintenance of the sewerage system, as required under Section 4107 of Part 41 of the Michigan Act.

Please note: The applicant may indicate if the property is zoned for the intended use.

Rule 1098 can be found on the DEQ Internet Page. To access Rule 1098, go to <http://www.wichigan.gov/deq>. In the left column, click on **WATER**, click on **Surface Water**, click on **NPDES Permits**, in the middle column under the "Information" banner click on **Applicable Rules and Regulations**, under the Applicable Rules and Regulations banner click on **Part 4 Rules**. Search for Rule 323.1098 Antidegradation.

Concentrated Animal Feeding Operation (CAFO) Guidance and Requirements

CAFO waste means CAFO process wastewater, manure, production area waste, silage leachate and runoff, any contaminated runoff, etc.

(1) The average and maximum number of animals expected during the five-year permit, the type of animals (beef cattle, broilers, layers, swine more or less than 55 lbs., mature dairy cows, dairy heifers, veal calves, turkeys, etc.), and type of housing (open confinement, under roof, etc.).

(2) The type of CAFO waste storage (roofed storage sheds, storage ponds, underfloor pits, above- or below-ground storage tanks, concrete pads, etc.), and total combined capacity of all CAFO waste storage structures [both by volume (tons, gallons, cu. ft.) and by time (months)].

3) CAFO waste storage structure design – All new CAFO waste storage structures shall, at a minimum, be constructed in accordance with Natural Resource Conservation Service (NRCS) standards. The NRCS standard is Conservation Practice Standard No. 313, Waste Storage Facility, dated June 2003. For existing storage structures at existing CAFOs, through an evaluation by a professional engineer either (1) provide documentation that each storage structure is constructed in accordance with NRCS standards, or (2) demonstrate environmental performance equivalent to NRCS standards. If your farm is verified under the Livestock System of the Michigan Agriculture Environmental Assurance Program (MAEAP), you may submit the "Evaluation of Existing Components" for review by the DEQ. After review, the DEQ will notify you if additional information is necessary to complete your Application. If you cannot provide the documentation or demonstration required by (1) or (2) above, you may request that the permit or COC specify a date by which you will provide storage structures that attain (1) above, but that date cannot be more than three years after the permit or COC is issued. Guidance for the Evaluation of Existing Storage Structures can be found on our Web site or is available in print.

(4) The total number of acres under your control available for land application of CAFO waste. This would be land that you own, lease, or otherwise have access to for land application of CAFO waste. This does not include land application where you sell or give away your CAFO waste. If you are in the process of acquiring land at the time of application, then explain how much land and when you expect to acquire it.

(5) Estimated amounts of CAFO waste generated per year (annual average over the life of the permit) (tons, gallons, or cu. ft.).

(6) Estimated amounts of CAFO waste transferred (sold, given away, etc., where you have no control over the land application of that waste) to other persons per year (annual average) (tons, gallons, or cu. ft.).

(7) A list and map(s) showing the location of all land application fields. This list would include a name and/or number to identify the field and size in acres. Maps could be plat maps, aerial maps, or soil maps with each field highlighted or colored in, with a number to correspond to the list, or FSA Form # 578 and associated maps. Information such as crop, soil type, and analysis will be included with the field-by-field analysis. This analysis does not need to be completed until after the permit or COC is issued.

(8) All potential receiving waters for both the production and land application areas. This would be rivers, creeks, and major drains where runoff would flow overland or through tiles. Consider slope and tile outlet locations to determine flow pathways. Include maps, if possible, with the waterways highlighted and named, if they have names. The same maps showing your application fields could show the receiving waters.

To access the DEQ CAFO Web site, go to <http://www.michigan.gov/deq>. In the left column, click on Water, click on Surface Water, click on NPDES Permits, and in the middle column under the Information banner click on Concentrated Animal Feeding Operation (CAFO).

Minimum Analytical Testing Requirements for Various Discharge Requests

Each discharge is evaluated on a case-by-case basis. This list is not inclusive of all analytical tests that may be requested from an applicant, but does include those parameters which we believe have the reasonable potential to violate water quality standards in these types of discharges.

Contact Cooling Water: Submit average and maximum levels of Oil and Grease, and average and maximum levels of Total Suspended Solids; average and maximum Summer and Winter Temperatures; and maximum and minimum pH. Total Residual Chlorine analysis may be required if a city water source is used or a water treatment additive containing chlorine is used.

Cooling Tower Blowdown: Submit average and maximum levels of Total Dissolved Solids, Sulfates, Chlorides, and Total Suspended Solids; average and maximum Summer and Winter Temperatures; maximum and minimum pH; Total Residual Chlorine.

Gasoline and Petroleum-Related Cleanups: Submit analytical test data for Benzene, Ethylbenzene, Toluene, Xylene, Methyl tert Butyl Ether, Total Phosphorus, and Total Lead. If a treatment other than activated carbon is proposed or used, submit analytical test data for Polynuclear Aromatic Hydrocarbons.

Gypsum Mine Discharges: Submit average and maximum levels of Total Suspended Solids, Total Dissolved Solids, Sulfates, and Chlorides; minimum and maximum pH; analysis for the following metals (using quantification levels indicated in Table 7): Total Beryllium, Total Copper, Total Lithium, Total Selenium, Total Silver, Total Strontium, Total Thallium, and Total Zinc; analysis for Dissolved Sulfides (using either the Methylene Blue or Iodometric method referenced in Standard Methods with a quantification level of 20 µg/l) with Temperature, Conductivity, and pH measured with each sample taken for Dissolved Sulfides; and a value for Hydrogen Sulfide calculated using Standard Method 4500-S²⁻ H.

Limestone Quarry Discharges: Submit average and maximum levels of Total Suspended Solids, Total Dissolved Solids, Sulfates, and Chlorides; minimum and maximum pH; analysis for the following metals (using quantification levels indicated in Table 7): Total Beryllium, Total Copper, Total Lithium, Total Selenium, Total Silver, Total Strontium, Total Thallium, and Total Zinc; analysis for Dissolved Sulfides (using either the Methylene Blue or Iodometric method referenced in Standard Methods with a quantification level of 20 µg/l) with Temperature, Conductivity, and pH measured with each sample taken for Dissolved Sulfides; and a Hydrogen Sulfide value calculated using Standard Method 4500-S²⁻ H.

Noncontact Cooling Waters: Submit average and maximum Summer and Winter Temperatures; and if pH control is required, the maximum and minimum pH. Total Residual Chlorine analysis is required if a city water source or a water treatment additive containing chlorine is used.

Quarry Discharges (not specified above): Submit average and maximum levels of Total Suspended Solids, Total Dissolved Solids, Sulfates, and maximum and minimum pH.

Water Softener Discharge: Submit average and maximum levels of Total Dissolved Solids, Sulfates, and Chlorides.

Summary of Information to Be Reported by Industry Type

40 CFR 405 Dairy Products Processing: Report mass of raw materials (milk equivalent or fluid raw whey) and mass of BOD₅ input of raw materials. If your facility is regulated under Subparts K or L of this category, also report total suspended solids of the raw materials.

40 CFR 406 Grain Mills: Report volume of final product per-volume of raw material in standard bushels or mean standard bushels (for corn or wheat); hundredweight (rice); or volume-per-volume on a weight basis (for cereal or wheat flour as raw material).

40 CFR 407 Canned and Preserved Fruits and Vegetables Processing: Facilities regulated under Subparts A - G, report volume-per-volume (weight basis) of raw materials. Facilities regulated under Subpart H, report volume-per-volume (weight basis) of final product.

40 CFR 409 Sugar Processing: Facilities regulated under Subpart A, report volume-per-volume (weight basis) of final product (crystallized refined sugar). Facilities regulated under Subparts B and C, report pounds per ton of melt, where melt is the amount of raw material (sugar) contained within an aqueous solution at the beginning of the process for production of refined sugar cane.

40 CFR 411 Cement Manufacturing: Facilities regulated under Subpart A, report pounds of final product. Facilities regulated under Subpart B, report pounds of dust leached.

40 CFR 414 Organic Chemicals, Plastics, and Synthetic Fibers (OCPSF): Report (1) flow rates of individual process wastewater streams; (2) flow rates of individual metal-bearing or cyanide-bearing wastewater streams; (3) pounds of product generated per year for each product; and (4) indicate if end-of-pipe biological treatment exists.

40 CFR 415 Inorganic Chemicals Manufacturing: Report pounds of product.

40 CFR 419 Petroleum Refining: Report volume of feedstock (number of barrels) and volume of flow.

Summary of Information to Be Reported by Industry Type

- 40 CFR 420 Iron and Steel Manufacturing: Report pounds of product. If air or vent scrubbers are used at the facility, describe the operations they are used in, and indicate the number of scrubbers in use.
- 40 CFR 421 Nonferrous Metals Manufacturing: Report weight of product produced, cast, or material recovered (see individual subparts for specific materials regulated), and provide a description of each specific process that produces a wastewater stream.
- 40 CFR 423 Steam Electric Power Generating: Report volume of flow from process wastewater streams, including contact cooling, cooling tower blowdown, and any other wastewaters other than noncontact cooling water, and total rating of electric generating capacity.
- 40 CFR 424 Ferroalloy Manufacturing: Report (1) megawatt hour(s) of electrical energy consumed in the smelting process (for electric furnaces only); (2) weight of product (for nonelectric furnaces only and other if appropriate); and (3) weight of raw material processed.
- 40 CFR 425 Leather Tanning and Finishing: Report weight of raw material.
- 40 CFR 428 Rubber Manufacturing: Report (1) weight of raw material or raw material equivalent; and (2) weight of gross production.
- 40 CFR 429 Timber Products Processing: Report (1) weight per volume of production; and (2) weight of gross production.
- 40 CFR 430 Pulp, Paper, and Paperboard: Report (1) weight of product; and (2) provide a statement certifying that chlorophenolic-containing biocides are not being used at the facility, if these biocides are not being used.
- 40 CFR 432 Meat Products: Report (1) weight of raw material (raw material measured in live weight killed or equivalent live weight killed); (2) weight of finished product, and if the facility is regulated under Subparts E – J; and (3) the manufacturing rate for individual products.
- 40 CFR 433 Metal Finishing: Report flow rates of individual processes generating wastewater streams.
- 40 CFR 436 Mineral Mining and Processing: If the facility uses Hydrogen Fluoride floatation as a treatment process, report weight of total product.
- 40 CFR 440 Ore Mining and Dressing: Report (1) treatment or milling technique(s) employed; and (2) if the facility is regulated under Subparts F – H or J, report tons of product.
- 40 CFR 461 Battery Manufacturing: (1) Report weight of raw materials used, applied, deposited, or processed; and (2) weight of cells, powder, or other material produced.
- 40 CFR 463 Plastics Molding and Forming: Report average process wastewater usage flow rates for each individual process.
- 40 CFR 464 Metal Molding and Casting: Report (1) weight of material poured (casted); and (2) if air scrubbers are used, report volume of air scrubbed. If the facility is regulated under Subpart C, report (1) the weight of sand reclaimed (if applicable); and (2) the weight of metal poured annually (if applicable).
- 40 CFR 465 Coil Coating: Report (1) the total surface area of the material processed; and (2) if the facility is regulated under Subpart D, report the number of cans manufactured.
- 40 CFR 466 Porcelain Enameling: Report the total surface area of raw material processed or coated.
- 40 CFR 467 Aluminum Forming: Report the weight of raw material (aluminum) processed, including rolling, casting, forging, quenching, drawing, extruding, cleaning, and etching operations.
- 40 CFR 468 Copper Forming: Report weight of raw material (copper) processed, including rolling, drawing, heat treating, extruding, annealing, cleaning, pickling, tumbling, burnishing, coating, and forming operations.
- 40 CFR 471 Nonferrous Metals Forming and Metals Powders: Report weight of raw materials processed for various operations (see guidelines for descriptions of processes).

Table 1 – Testing Requirements for Organic Toxic Pollutants by Industrial Category

(Table I from 40 CFR 122, Appendix D)

Industrial Category	GC/MS Fraction			
	Volatile	Acid	Base/Neutral	Pesticide
Adhesives and Sealants	X	X	X	---
Aluminum Forming	X	X	X	---
Auto and Other Laundries	X	X	X	X
Battery Manufacturing	X	---	X	---
Coal Mining	X	X	X	X
Coil Coating	X	X	X	---
Copper Forming	X	X	X	---
Electric and Electronic Components	X	X	X	X
Electroplating	X	X	X	---
Explosives Manufacturing	---	X	X	---
Foundries	X	X	X	---
Gum and Wood Chemicals	X	X	X	X
Inorganic Chemicals Manufacturing	X	X	X	---
Iron and Steel Manufacturing	X	X	X	---
Leather Tanning and Finishing	X	X	X	X
Mechanical Products Manufacturing	X	X	X	---
Nonferrous Metals Manufacturing	X	X	X	X
Ore Mining	X	X	X	X
Organic Chemicals Manufacturing	X	X	X	X
Paint and Ink Formulation	X	X	X	X
Pesticides	X	X	X	X
Petroleum Refining	X	X	X	X
Pharmaceutical Preparations	X	X	X	---
Photographic Equipment and Supplies	X	X	X	X
Plastic and Synthetic Materials Manufacturing	X	X	X	X
Plastic Processing	X	---	---	---
Porcelain Enameling	X	---	X	X
Printing and Publishing	X	X	X	X
Pulp, Paper, and Paperboard Mills	X	X	X	X
Rubber Processing	X	X	X	---
Soap and Detergent Manufacturing	X	X	X	---
Steam Electric Power Plants	X	X	X	---
Textile Mills	X	X	X	X
Timber Products Processing	X	X	X	X

Following is a list of industrial categories and subcategories which are specifically suspended from submitting certain GC/MS data in 40 CFR 122, Appendix D, Note 1. If your industrial category or subcategory is specifically listed in the suspensions, you are not required to submit analytical data for the suspended GC/MS fractions listed below. In addition to the listed industries, 40 CFR 122.21 (g)(8) also provides for an exemption from reporting GC/MS analytical data for small businesses. Refer to the federal guidelines to determine if your facility is exempt.

Coal Mining Industry and Porcelain Enameling Industry

All four GC/MS organic fractions for all subcategories of these industries are suspended.

Leather Tanning and Finishing Industry, Paint and Ink Formulation, and Photographic Supplies

Pesticide fraction is suspended for all subcategories of these industries.

Petroleum Refining Industry

Acid, base/neutral, and pesticide fractions are suspended for all subcategories of this industry.

Textile Mills Industry

All four GC/MS organic fractions in the Greige Mills Subcategory are suspended.

Pesticide fraction in this category is suspended for all other subcategories of this industry.

Ore Mining and Dressing Industry

Volatile, base/neutral, and pesticide fractions in the Base and Precious Metals Subcategory are suspended.

All four GC/MS organic fractions in all other subcategories of this industry are suspended.

Gum and Wood Chemicals Industry

Pesticide fraction in the Tall Oil Rosin Subcategory and the Rosin-Based Derivatives Subcategory are suspended.

Pesticide and base/neutral fractions in all other subcategories of this industry are suspended.

Pulp and Paper Industry

Pesticide fraction in Papergrade Sulfite subcategories (Subpart E) is suspended.

Base/neutral and pesticide fractions in Dissolving Kraft (Subpart A), Deink, and Paperboard from Waste Paper (Subpart I) are suspended.

Volatile, base/neutral, and pesticide fractions in the BCT Bleached Kraft (Subpart B), Semi-Chemical (Subpart F), and Nonintegrated Fine Papers (Subpart K) are suspended.

Acid, base/neutral, and pesticide fractions in Fine Bleached Kraft (Subpart B), Dissolving Sulfite Pulp (Subpart D), Groundwood Fine Papers (Subpart G), Market Bleached Kraft (Subpart B), Tissue from Wastepaper (Subpart J), and Nonintegrated Tissue Papers (Subpart L) are suspended.

Steam Electric Power Plant Industry

Base/neutral fraction in the Once-Through Cooling Water, Fly Ash, and Bottom Ash Transport Water process wastestreams are suspended.

TABLE 2 – Organic Toxic Pollutants in each GC/MS Fraction

(Table II from 40 CFR 122, Appendix D)

Volatiles		
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethylene 1,2-Dichloroethane 1,2-Dichloropropane 1,2-Trans-Dichloroethylene 1,3-Dichloropropylene 2-Chloroethylvinylether	Acrolein Acrylonitrile Benzene Bromoform Carbon Tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane Chloroform Dichlorobromomethane	Ethylbenzene Methyl Bromide Methyl Chloride Methylene Chloride Tetrachloroethylene Toluene Trichloroethylene Vinyl Chloride
Acid Compounds		
2,4,6-Trichlorophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 2,4-Dinitrophenol	2-Chlorophenol 2-Nitrophenol 4,6-Dinitro-O-Cresol 4-Nitrophenol	P-Chloro-M-Cresol Pentachlorophenol Phenol
Base/Neutral		
1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,2-Diphenylhydrazine (as Azobenzene) 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Chloronaphthalene 3,3'-Dichlorobenzidine 3,4-Benzofluoranthene 4-Bromophenylphenylether 4-Chlorophenyl Phenyl Ether Acenaphthene Acenaphthylene Anthracene	Benzidine Benzo (a) Anthracene Benzo (a) Pyrene Benzo (ghi) Perylene Benzo (k) Fluoranthene Bis (2-Chloroethoxy) Methane Bis (2-Chloroethyl) Ether Bis (2-Chloroisopropyl) Ether Bis (2-Ethylhexyl) Phthalate Butylbenzyl Phthalate Chrysene Di-N-Butyl Phthalate Di-N-Octyl Phthalate Dibenzo (a,h) Anthracene Diethyl Phthalate Dimethyl Phthalate	Fluoranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Indeno (1,2,3-cd) Pyrene Isophorone N-Nitrosodi-N-Propylamine N-Nitrosodimethylamine N-Nitrosodiphenylamine Naphthalene Nitrobenzene Phenanthrene Pyrene
Pesticides		
4,4'-DDD 4,4'-DDE 4,4'-DDT α -BHC α -Endosulfan Aldrin β -BHC β -Endosulfan Chlordane	δ -BHC Dieldrin Endosulfan Sulfate Endrin Endrin Aldehyde γ -BHC (Lindane) Heptachlor Heptachlor Epoxide PCB-1016	PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260 Toxaphene

TABLE 3 – Other Toxic Pollutants (Metals and Cyanide) and Total Phenols

(Table III from 40 CFR 122, Appendix D)

Total Antimony	Total Copper	Total Phenols
Total Arsenic	Available Cyanide (EPA Method OIA-1677)	Total Selenium
Total Beryllium	Total Lead	Total Silver
Total Cadmium	Total Mercury (EPA Method 1631)	Total Thallium
Total Chromium	Total Nickel	Total Zinc

TABLE 4 – Conventional and Nonconventional Pollutants to Be Tested by Existing Dischargers if Expected to Be Present in Discharge

(Table IV from 40 CFR 122, Appendix D)

Aluminum, Total	Magnesium, Total	Radium, Total
Barium, Total	Manganese, Total	Radium 226, Total
Boron, Total	Molybdenum, Total	Sulfate (as SO ₄)
Bromide	Nitrate-Nitrite (as N)	Sulfide (as S)
Chlorine, Total Residual	Nitrogen, Total Organic (as N)	Sulfite (as SO ₃)
Cobalt, Total	Oil and Grease	Surfactants
Color	Phosphorus (as P), Total	Tin, Total
Fecal Coliform	Radioactivity	Titanium, Total
Fluoride	Alpha, Total	
Iron, Total	Beta, Total	

TABLE 5 – Toxic Pollutants and Hazardous Substances Required to Be Identified by Existing Dischargers if Expected to Be Present in Discharge

(Table V from 40 CFR 122, Appendix D)

Toxic Pollutant		
Asbestos		
Hazardous Substances		
2,2-Dichloropropionic Acid	Diethyl Amine	Monomethyl Amine
2,4,5-T (2,4,5-Trichlorophenoxy Acetic Acid)	Dimethyl Amine	Naled
2,4-D (2,4-Dichlorophenoxyacetic acid)	Dinitrobenzene	Napthenic Acid
Acetaldehyde	Diquat	Nitrotoluene
Allyl Alcohol	Disulfoton	Parathion
Allyl Chloride	Diuron	Phenolsulfonate
Amyl Acetate	Epichlorohydrin	Phosgene
Aniline	Ethanolamine	Propargite
Benzonitrile	Ethion	Propylene Oxide
Benzyl Chloride	Ethylene Diamine	Pyrethrins
Butyl Acetate	Ethylene Dibromide	Quinoline
Butylamine	Formaldehyde	Resorcinol
Captan	Furfural	Silvex
Carbaryl	Guthion	Strontium
Carbofuran	Isoprene	Strychnine
Carbon Disulfide	Isopropanolamine	Styrene
Chlorpyrifos	Kelthane	TDE (Tetrachlorodiphenylethane)
Coumaphos	Kepone	Trichlorofon
Cresol	Malathion	Triethylamine
Crotonaldehyde	Mercaptodimethur	Trimethylamine
Cyclohexane	Methoxychlor	Uranium
Diazinon	Methyl Mercaptan	Vanadium
Dicamba	Methyl Methacrylate	Vinyl Acetate
Dichlobenil	Methyl Parathion	Xylene
Dichlone	Mevinphos	Xylenol
Dichlorvos	Mexacarbate	Zirconium
	Monoethyl Amine	

Table 5 continued

Other or Additional Toxic Pollutants (Michigan Critical Materials)

1,1,1,2-tetrachloroethane	5-chloro-o-toluidine	Cobalt
1,1,2,2-tetrachloroethane	5-nitro-o-anisidine	Copper
1,1,2-trichloroethane	5-nitroacenaphthene	Crotoxyphos
1,1-dichloroethylene	Abietic acid	Cupferron
1,2,3,4-tetrachlorobenzene	Acetone cyanohydrin	Cyanides
1,2,3,5-tetrachlorobenzene	Acrolein	Cycasin
1,2,3-trichlorobenzene	Acrylonitrile	Cycloheximide
1,2,4,5-tetrachlorobenzene	Actinomycin D	Cyclophosphamide
1,2,4-trichlorobenzene	Aflatoxins	DDT (p,p', o,p' and technical grade)
1,2-dichlorobenzene	Aldicarb	Dehydroabietic acid
1,2-dichloroethane	Aldrin	Demeton
1,2-epoxybutane	Aminoazobenzene	Di-n-octyl phthalate
1,2:3,4-diepoxybutane	Amitrole	Diallate
1,3-butadiene	Anilazine	Dibenz(a,h)anthracene
1,3-dichlorobenzene	Aniline hydrochloride	Dibromochloropropane (DBCP)
1,3-dichloropropene	Antimony	Dibutyl phthalate
1,3-propane sultone	Antimycin A	Dichrotophos
1,4-dichlorobenzene	Aramite	Dieldrin
1,4-dioxane	Arsenic	Diethylhexyl phthalate
1,5-naphthalenediamine	Asbestos	Diethylstilbestrol
1-amino-2-methylanthraquinone	Azinphos-ethyl	Dihydrosafrole
1-chloro-4-phenoxybenzene	Azinphos-methyl	Dimethoate
1-chloropropene	Azobenzene	Dimethyl disulphide
2,3,4,5-tetrachlorophenol	Barban	Dimethyl sulfate
2,3,4,6-tetrachlorophenol	Bendiocarb	Dimethylhydrazines
2,3,5,6-tetrachlorophenol	Benomyl	Dinitrotoluenes
2,4,5-trichlorophenol	Benz(a)anthracene	Dinocap
2,4,5-trichlorotoluene	Benzene	Dinoseb
2,4,5-trimethylaniline	Benzidine (and salts)	Dioxathion
2,4,6-trichlorophenol	Benzo(a)pyrene	Diphenyl ether
2,4-diaminoanisoole sulfate	Beryllium	Endosulfan
2,4-diaminotoluene	beta-propiolactone	Endrin
2,4-dichlorophenol	Bis(2-chloroethyl)ether	EPN
2,4-dinitrophenol	Bis(chloromethyl)ether	Ethyl chloride
2-acetylaminofluorene	Bromomethane	Ethylene oxide
2-aminoanthraquinone	Bromoxynil	Ethylene thiourea
2-methyl-1-nitroanthraquinone	Butyl benzyl phthalate	Ethyleneimine
2-naphthylamine	Butylbutanol nitrosamine	Ethylmethanesulfonate
2-nitropropane	Cadmium	Fensulfothion
3,3'-dichlorobenzidine	Captafol	Fenthion
3-(chloromethyl)pyridine hydrochloride	Carbon tetrachloride	Fluchloralin
3-amino-9-ethylcarbazole	Carbophenothion	Furathiazole
3-amino-9-ethylcarbazole hydrochloride	Chloramines	Heptachlor
4,4'-diaminodiphenyl ether	Chlordane	Heptachlor epoxide
4,4'-methylenebis (2-methylaniline)	Chlordecone	Hexachlorobenzene
4,4'-methylenebis(N,N-dimethyl) benzenamine	Chlorfenvinphos	Hexachlorobutadiene
4,4'-thiodianiline	Chlorine (elemental cl and hypochlorite salts)	Hexachlorocyclohexane (all isomers)
4,6-dinitro-o-cresol	Chlorobenzene	Hexachlorocyclopentadiene
4-aminobiphenyl	Chlorobenzilate	Hexachloroethane
4-aminopyridine	Chloroform	Hexamethylphosphoramide
4-bromophenyl phenyl ether	Chloromethane	Hydrazine
4-chloro-m-phenylenediamine	Chloroprene	Hydrazobenzene
4-chloro-o-phenylenediamine	Chromium	Hydrogen sulfide
4-dimethylaminoazobenzene	Clonitralid	Hydroquinone

Other or Additional Toxic Pollutants (Michigan Critical Materials)

Isonicotinic acid hydrazine	Neoabietic acid	Polychlorinated dibenzofurans (PCDF)
Kanechlor C	Nickel	Polychlorinated dioxins (PCDD)
Ketene	Nifurthiazole	Polychlorinated naphthalenes
Lactonitrile	Niridazole	Propyleneimine
Lasiocarpine	Nithiazide	Propylthiouracil
Lead	Nitrobenzene	Rotenone
Leptophos	Nitrofen	Selenium
Lithium	Nitrogen mustard	Semicarbazide
m-cresol	o-Aminoazotoluene	Semicarbazide hydrochloride
Malachite green	o-Anisidine	Silver
Mercury	o-Anisidine hydrochloride	Silvex, propylene glycol butyl ether ester
Mestranol	o-Cresol	Sodium fluoroacetate
Methacrylonitrile	o-Phenylphenol	Sodium-o-phenylphenol
Methomyl	o-Toluidine	Sulfallate
Methyl chloroform	o-Toluidine hydrochloride	Sulfotepp
Methyl hydrazine	Octachlorostyrene	TEPP
Methylene chloride	Oydemetonmethyl	Terbufos
Methylenebis(2-chloroaniline)	p,p'-DDE	Tetrachloroethylene
Methylthiouracil	p,p'-TDE (p,p'-DDD)	Tetrachloroguaiacol
Mirex	p-Chlorophenol	Tetrachlorvinphos
Mitomycin C	p-Cresidine	Tetranitromethane
Monocrotaline	p-Cresol	Thallium
Monocrotophos	p-Nitrosodiphenylamine	Thioacetamide
Mustard gas	Paraquat	Thiourea
N,N'-diethylthiourea	Pentachloronitrobenzene	Thiram
N-(2-hydroxyethyl) ethyleneimine	Pentachlorophenol (and salts)	Toluene
N-methyl formamide	Phenazopyridine hydrochloride	Toxaphene
N-nitroso-di-N-butylamine	Phenesterin	Triaryl phosphate esters
N-nitroso-N-ethylurea	Phenobarbitol	Tributyltin (and salts and esters)
N-nitroso-N-methylurea	Phenol	Trichloroethylene
N-nitroso-N-methylurethane	Phenytoin	Trifluralin
N-nitrosodi-N-propylamine	Phenytoin sodium	Trimethylphosphate
N-nitrosodiethylamine	Phorate	Tris(2,3-dibromopropyl)phosphate
N-nitrosodimethylamine	Phosazetim	Uracil mustard
N-nitrosodiphenylamine	Phosmet	Urethane (monomer)
N-nitrosomethylvinylamine	Phosphamidon	Vinyl bromide
N-nitrosomorpholine	Piperonyl sulfoxide	Vinyl chloride
N-nitrososarcosine	Polybrominated biphenyls (PBB)	Zinc
Naphthalene	Polychlorinated biphenyls (PCB)	Ziram

TABLE 6 – Dioxin and Furan Congeners

<u>Dioxin congeners</u>	<u>Furan Congeners</u>
2,3,7,8-Tetrachlorodibenzo-p-dioxin	2,3,7,8-Tetrachlorodibenzofuran
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1,2,3,7,8-Pentachlorodibenzofuran
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	2,3,4,7,8- Pentachlorodibenzofuran
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin	1,2,3,4,7,8-Hexachlorodibenzofuran
1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin	1,2,3,6,7,8- Hexachlorodibenzofuran
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	2,3,4,6,7,8- Hexachlorodibenzofuran
Octachlorodibenzo-p-dioxin	1,2,3,7,8,9- Hexachlorodibenzofuran
	1,2,3,4,6,7,8-Heptachlorodibenzofuran
	1,2,3,4,7,8,9-Heptachlorodibenzofuran
	Octachlorodibenzofuran

TABLE 7 – Quantification Levels for Selected Parameters

Total Antimony	1 µg/l	Total Cyanide	5 µg/l
Total Arsenic	1 µg/l	Total Lead	1 µg/l
Total Barium	5 µg/l	Total Lithium	10 µg/l
Total Beryllium	1 µg/l	Total Mercury	0.5 ηg/l
Total Boron	20 µg/l	Total Nickel	5 µg/l
Total Cadmium	0.2 µg/l	Total Selenium	1.0 µg/l
Hexavalent Chromium	5 µg/l	Total Silver	0.5 µg/l
Total Chromium	10 µg/l	Total Strontium	1000 µg/l
Total Copper	1 µg/l	Total Thallium	1 µg/l
Available Cyanide	2 µg/l	Total Zinc	10 µg/l

TABLE 8 – Other Common Types of Wastewater

Demineralizer regeneration water	Hydrostatic pressure test water	Raceway cleaning water
Drinking fountain overflow	Intake screen backwash	Sand filter backwash
Filter backwash	Iron filter backwash	Sanitary wastewater
Fire system test water	Landfill leachate	Secondary containment area water
Fish rearing water	Mine dewatering water	Swimming pool wastewater
Floor drainage water	Peat mine dewatering water	Tank bottom water
Foundation drainage water	Petroleum-contaminated water	Vegetable wash water
Groundwater seepage	Pump screen backwash	Water softener backwash

Whole Effluent Toxicity Test Guidance and Requirements

Whole Effluent Toxicity (WET) tests shall be conducted in accordance with the following. Chronic tests shall be conducted unless the applicant has requested and received DEQ approval for the use of Acute tests. Approval will be based on high receiving water dilution or other site-specific factors. A 40:1 or greater dilution ratio of the receiving water’s 95 percent drought flow to the facility’s design flow may justify reduction to acute testing. Such requests, with supporting rationale, shall be made in writing to the appropriate District Supervisor of the Water Resources Division (see Page 18 of this Appendix). *If the permittee has previously received approval to conduct toxicity testing using a more sensitive species, the permittee may request approval from the District Supervisor to waive the multiple species testing requirements specified below. Such approval will be based on no significant changes to facility operations and wastewater characteristics.*

The following requirements apply to chronic tests:

- 1) Test species shall include the fathead minnow and *Ceriodaphnia dubia*.
- 2) Testing and reporting procedures for the fathead minnow and *Ceriodaphnia* are contained in the "Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" (Fourth Edition) (USEPA-821-R-02-013).
- 3) If the Total Ammonia Nitrogen level in the effluent is greater than 3 mg/l, then toxicity test pH shall be maintained at 8 standard units.

The following requirements apply to acute tests:

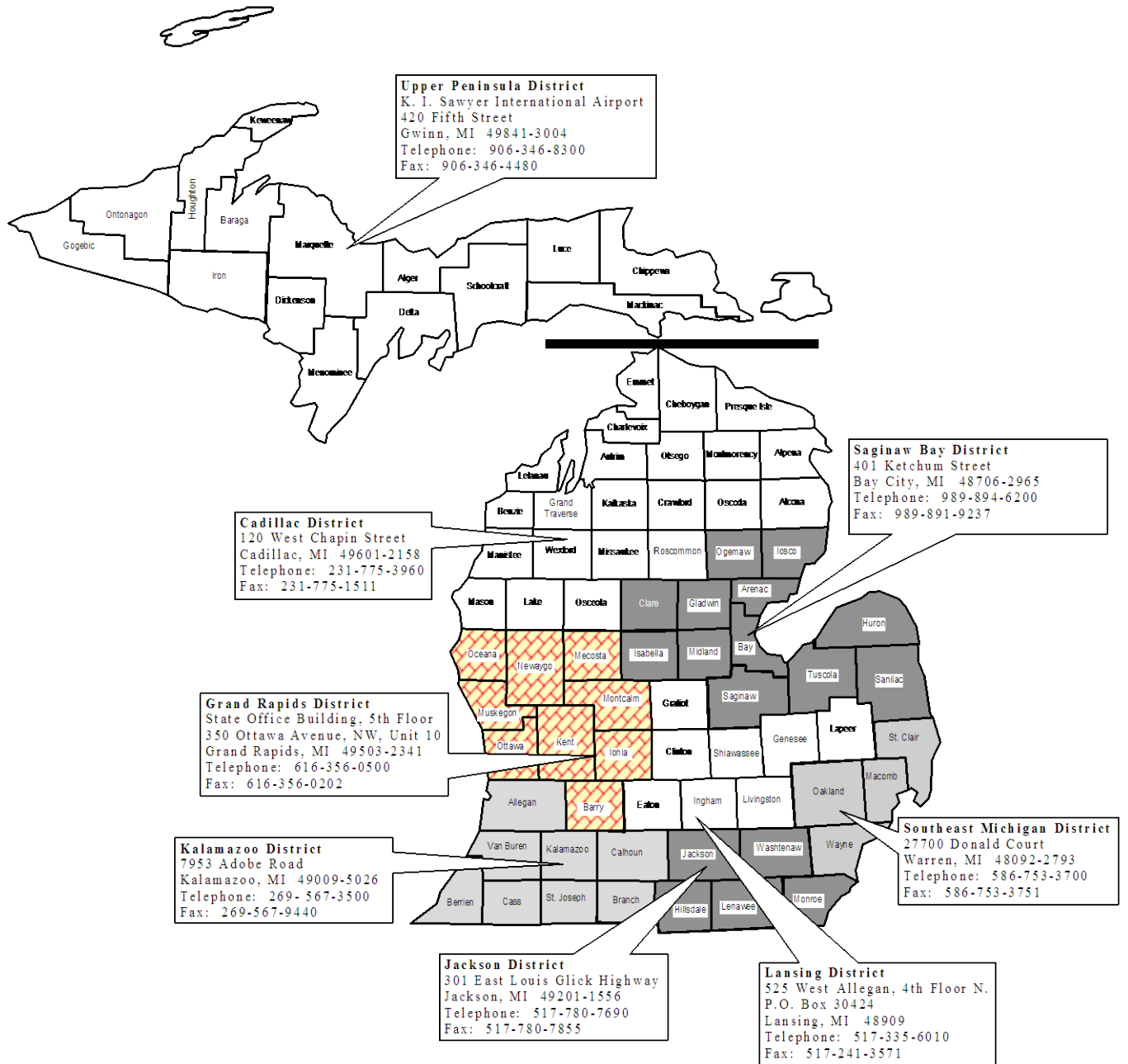
- 1) Acute test species shall include fathead minnow and either *Daphnia magna*, *Daphnia pulex*, or *Ceriodaphnia dubia*.
- 2) Testing and reporting procedures shall follow procedures contained in USEPA-821-R-02-012, "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms" (Fifth Edition).
- 3) If the Total Ammonia Nitrogen level in the effluent is greater than 5 mg/l, acute test pH shall be maintained at the pH of the effluent at the time of sample collection.

Toxicity test data acceptability is contingent upon the validation of the test method by the testing laboratory. Such validation shall be submitted to the DEQ upon request. Previously-submitted toxicity test results need not be resubmitted. Rather, provide a summary of the results of all previous tests indicating: (1) test date; (2) species tested; and (3) all acute and/or chronic toxic unit values (TU_a, TU_c) obtained. "Greater than" symbols should be included in the summary when expressed in the testing laboratory results.

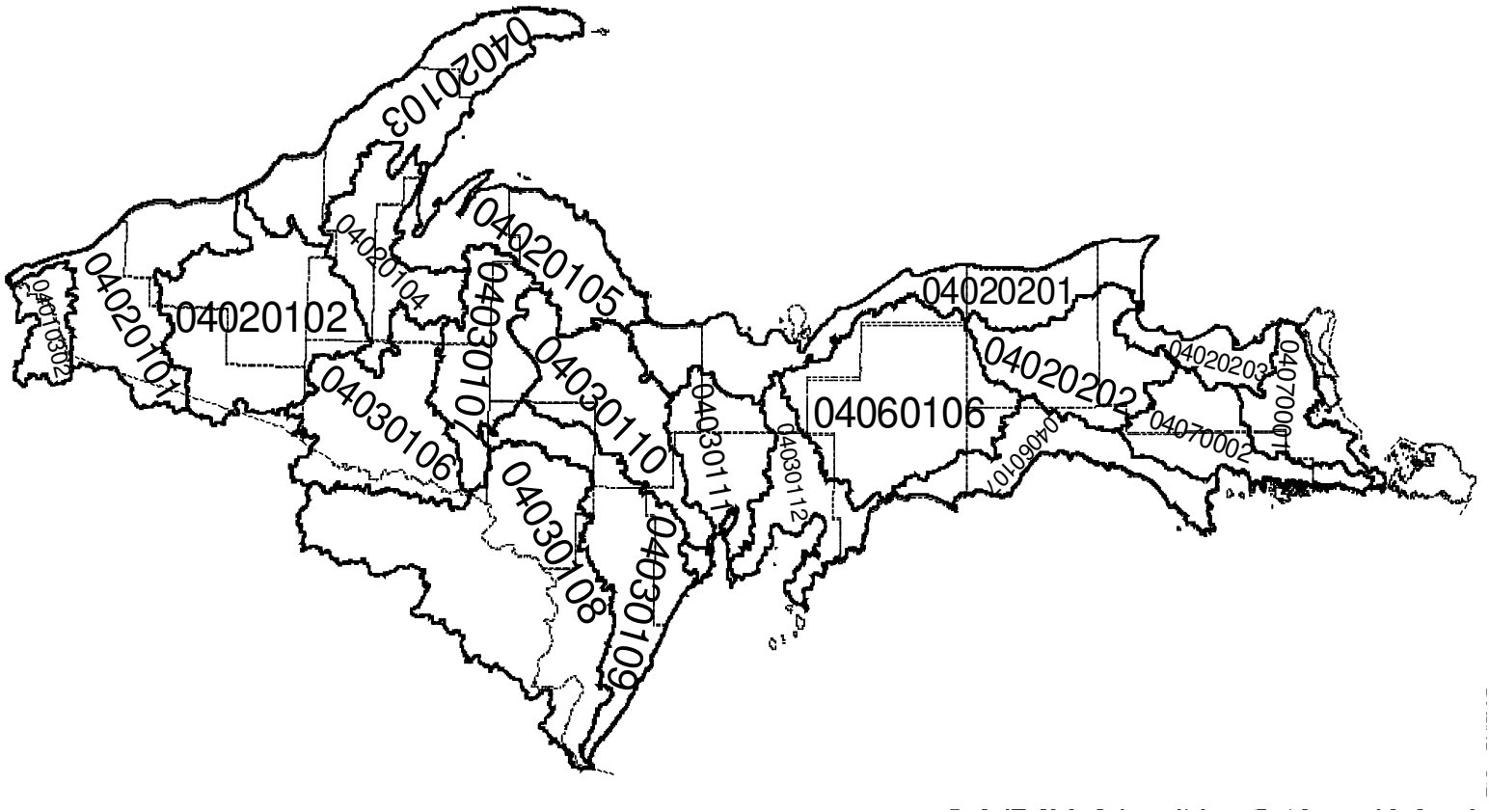
The results of the tests shall be reported using the Acute Toxicity Test Report, *Ceriodaphnia Dubia* Chronic Toxicity Test Report, and the Fathead Minnow Chronic Toxicity Test Report available in this Appendix. "Greater than" symbols should be included in the summary when expressed in the testing laboratory results. Please do not submit additional forms or paperwork pertaining to WET tests with this Application.

The applicant does not need to submit e-DMR results for previously-submitted WET Tests.

Water Resources Division District Boundaries with County Divisions



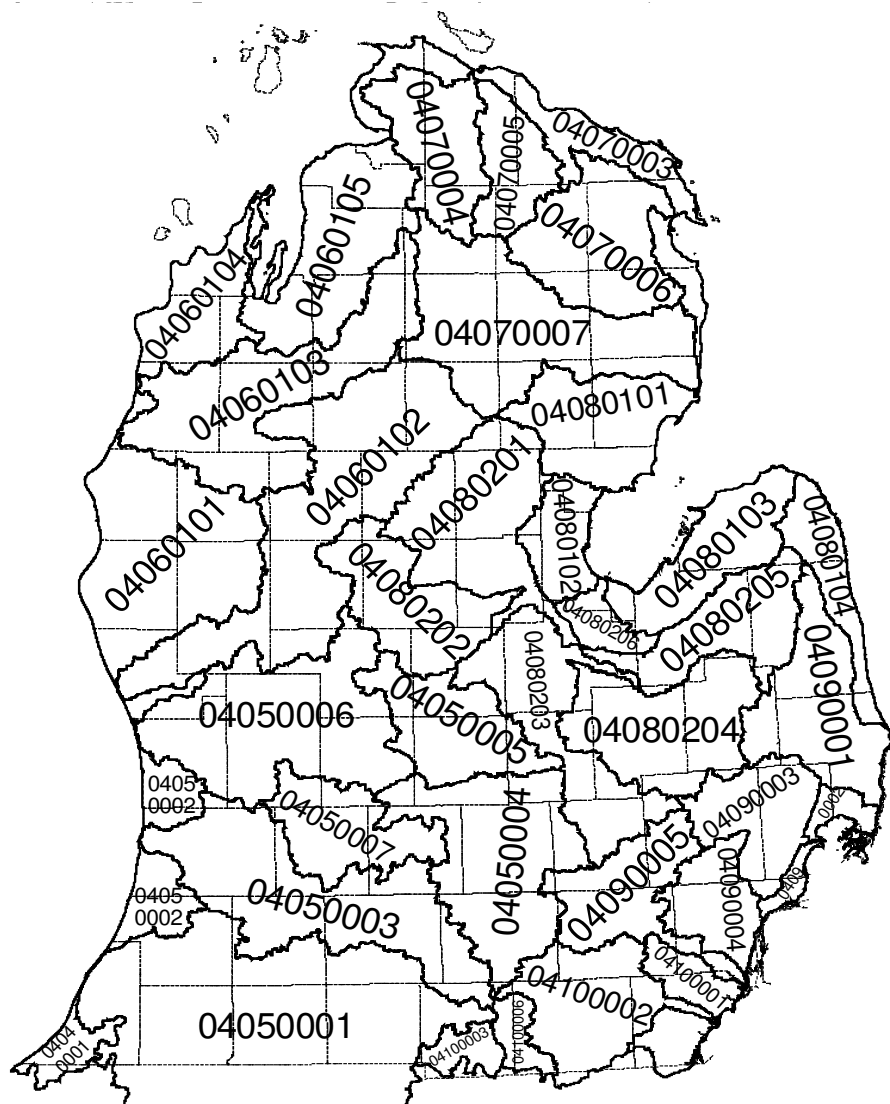
Upper Peninsula Hydrologic Map with Hydrologic Unit Codes



Upper Peninsula Watershed Names

04010302 -----Bad-Montreal	04030110 -----Escanaba
04020101 -----Black-Presque Isle	04030111 -----Tacoosh-Whitefish
04020102 -----Ontonagon	04030112 -----Fishdam-Sturgeon
04020103 -----Keweenaw Peninsula	04020201 -----Betsy-Chocolay
04020104 -----Sturgeon	04020202 -----Tahquamenon
04020105 -----Dead-Kelsey	04020203 -----Waiska
04030106 -----Brule	04060106 -----Manistique
04030107 -----Michigamme	04060107 -----Brevoort-Millecoquins
04030108 -----Menominee	04070001 -----St. Marys
04030109 -----Cedar-Ford	04070002 -----Carp-Pine

Lower Peninsula Hydrologic Map with Hydrologic Unit Codes



Lower Peninsula Watershed Names

0404001 -----Little Calumet-Galien	0407003----- Lone Lake-Ocqueoc	0408205 ----- Cass
0405001 -----St. Joseph	0407004----- Cheboygan	0408206 ----- Saginaw
0405002 -----Black-Macatawa	0407005----- Black	0409001 ----- St. Clair
0405003 -----Kalamazoo	0407006----- Thunder Bay	0409002 ----- Lake St. Clair
0405004 -----Upper Grand	0407007----- Au Sable	0409003 ----- Clinton
0405005 -----Maple	0408011----- Au Gres-Rifle	0409004 ----- Detroit
0405006 -----Lower Grand	0408012----- Kawkawlin-Pine	0409005 ----- Huron
0405007 -----Thornapple	0408013----- Pigeon-Wiscoggin	0410001 ----- Ottawa-Stony
0406011 -----Pere Marquette	0408014----- Birch-Willow	0410002 ----- Raisin
0406012 -----Muskegon	0408021----- Tittabawassee	0410003 ----- St. Joseph
0406013 -----Manistee	0408022----- Pine	0410006 ----- Tiffin
0406014 -----Betsie-Platte	0408023----- Shiawassee	
0406015 -----Boardman-Charlevoix	0408024----- Flint	



DEQ only do not write in this space

NO EXPOSURE CERTIFICATION
 FOR EXCLUSION OF COVERAGE UNDER THE
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
 STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY
By Authority of Act 451, PA 1994, Part 31

Submission of this No Exposure Certification constitutes certification the Facility identified below does not require permit authorization for storm water discharges associated with industrial activity in Michigan based on 40CFR 122. The Michigan Department of Environmental Quality (DEQ) may deny an exclusion at any time it determines that conditions at the facility do not meet the exclusion requirements. If the exclusion is denied, the owner must obtain authorization to discharge prior to any point source discharge of storm water from the facility.

Be advised that facilities excluded from permit requirements due to "no exposure" are required to submit a no exposure certification form to the DEQ once every five years to continue to be excluded from the permitting requirements.

FACILITY INFORMATION (where discharge occurs)		OWNER/PERMITEE INFORMATION	
SITE/FACILITY NAME		COMPANY NAME	
ADDRESS 1		ADDRESS 1	
ADDRESS 2		ADDRESS 2	
CITY	STATE ZIP CODE	CITY	STATE ZIP CODE
COUNTY	TOWNSHIP	CONTACT PERSON	
LATITUDE (to nearest 15 seconds)	LONGITUDE (to nearest 15 seconds)	CONTACT PERSON TELEPHONE	

_____ ¼ of _____ ¼ Section: _____, Town: T _____, Range: R _____,

PRIMARY STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE

TO DETERMINE THE PRIMARY INDUSTRIAL ACTIVITY, USE THE VALUE OF NET REVENUES. IF SUCH INFORMATION IS NOT AVAILABLE FOR A PARTICULAR FACILITY, THE NUMBER OF EMPLOYEES OR PRODUCTION RATE FOR EACH PROCESS MAY BE COMPARED. THE OPERATION THAT GENERATES THE MOST NET REVENUE OR EMPLOYS THE MOST PERSONNEL IS THE OPERATION IN WHICH THE FACILITY IS PRIMARILY ENGAGED.

THIS FACILITY HOLDS EXISTING NPDES PERMIT:

Please list any other NPDES number(s):

PLEASE RETURN THIS COMPLETED FORM (Page 1 & 2), AND ANY ATTACHMENTS, TO THE FOLLOWING ADDRESS:

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
 WATER RESOURCES DIVISION
 525 WEST ALLEGAN STREET, 2nd FLOOR NORTH
 P.O. BOX 30458
 LANSING MI 48909

If you have any questions regarding the completion of this form, please contact the appropriate district office. Please find district contact information at www.michigan.gov/deqstormwater

NOTE: There are TWO pages to a complete no exposure exclusion request. Please make sure that both pages have been completed prior to submitting

PLEASE COMPLETE ALL OF THE FOLLOWING INFORMATION

EXPOSURE CHECK LIST

Are any of the following materials or activities exposed to storm water, now or in the foreseeable future?

- | | | | |
|-----|--|-----|----|
| 1. | Using, storing, or cleaning of industrial machinery or equipment, or residuals from such practices. | Yes | No |
| 2. | Materials or residuals on the ground or in storm water inlets from spills or leaks. | Yes | No |
| 3. | Materials or products from past industrial activities. | Yes | No |
| 4. | Material handling equipment (except adequately maintained vehicles). | Yes | No |
| 5. | Materials or products during loading, unloading or transporting activities. | Yes | No |
| 6. | Materials or products stored outdoors (except final product intended to be used outside where exposure to storm water does not result in a discharge of pollutants). | Yes | No |
| 7. | Materials contained in open, unsealed, deteriorated, leaking, or improperly managed drums, barrels, tanks, etc. | Yes | No |
| 8. | Materials or products handled or stored on roads or railways owned or maintained by the facility. | Yes | No |
| 9. | Waste materials (except general office trash). | Yes | No |
| 10. | Application or disposal of process wastewater (unless otherwise permitted). | Yes | No |
| 11. | Particulate matter or visible deposits of residuals from roof stacks and/or vents not otherwise regulated (i.e. under an air quality control permit). | Yes | No |

NOTE: If you answered yes to any of the above questions (1-11), you are not eligible for the no exposure exclusion.

- | | | | |
|-----|---|-----|----|
| 12. | Facility has conducted an investigation to locate any illicit connections to the storm sewer system. | Yes | No |
| 13. | Based on the above investigation, the facility has concluded that there are no illicit connections to the storm water system. | Yes | No |

CERTIFICATION

State of Michigan regulations require this form be signed as follows:

Corporation: by the principal executive officer or vice-president or higher, or his/her designated representative if the representative is responsible for the overall operation of the facility from which the discharge described originates.

Partnership: by a general partner

Sole proprietorship: by the proprietor

Municipal, state, or other public facility: by a principal executive officer, the mayor, village president, city or village manager, or other duly authorized employee.

I certify under penalty of law that I have read and understand the eligibility requirements for claiming a condition of "no exposure" and obtaining an exclusion from storm water permitting.

I certify under penalty of law that there are no discharges of storm water contaminated by exposure to industrial activities or materials from the industrial facility identified in this document (except as allowed under 40 CFR 122.26(g)(2))

I understand that I am obligated to submit a no exposure certification form to the Michigan Department of Environmental Quality once every 5 years. I understand that I must allow the Michigan Department of Environmental Quality to perform inspections to confirm the condition of no exposure and to make such inspection reports publicly available upon request. I understand that I must obtain discharge authorization under an NPDES permit prior to any point source discharge of storm water associated with industrial activity from the facility.

I certify, under penalty of law, that this document and all attachments were prepared by me, or under my direction or supervision in accordance with a system to assure qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person(s) who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I certify under penalty of law that I possess full authority on behalf of the legal owner/permittee to sign and submit this No Exposure Certification.

Printed Name	Title
Signature	Date



ACUTE TOXICITY TEST REPORT

By authority of PA 451 of 1994, as amended.

INSTRUCTIONS: Use this form to report acute toxicity test results. Use separate forms for more than 1 test.

1. NAME OF FACILITY (on NPDES permit)				2. NPDES PERMIT #			
				M	I	0	0
3. RECEIVING WATER (as designated in permit)			4. OUTFALL		5. RECEIVING WATER CONCENTRATION (if known)		
6. TEST LAB (Name and Address)					7. AGE RANGE OF ORGANISMS AT TEST START		
8. TEST START DATE		9. TEST END DATE		10. TEST SPECIES		11. REPORT DATE	
12. NAME OF PERSON CONDUCTING TEST				13. NAME/PHONE # OF PERSON WHO CAN ANSWER QUESTIONS ABOUT THIS REPORT			
				() -			
14. SAMPLE COLLECTION DATES		15. DATE RECEIVED		16. ARRIVAL TEMPERATURE (°C)			
Sample 1:		Sample 1:		Sample 1:			
Sample 2 (if any):		Sample 2 (if any):		Sample 2 (if any):			
17. DATE OF FIRST USE		18. TOTAL RESIDUAL CHLORINE (mg/l)		19. AMMONIA (mg/l as N)			
Sample 1:		Sample 1:		Sample 1:			
Sample 2 (if any):		Sample 2 (if any):		Sample 2 (if any):			
20. WAS SAMPLE DECHLORINATED?		21. DESCRIBE DECHLORINATION (if any)					
Sample 1: <input type="checkbox"/> YES <input type="checkbox"/> NO							
Sample 2: <input type="checkbox"/> YES <input type="checkbox"/> NO							
22. EFFLUENT SAMPLES WERE COLLECTED (check one) <input type="checkbox"/> BEFORE CHLORINATION <input type="checkbox"/> AFTER CHLORINATION							
<input type="checkbox"/> AFTER CHLORINATION, BEFORE DECHLORINATION <input type="checkbox"/> AFTER DECHLORINATION <input type="checkbox"/> FACILITY DOES NOT CHLORINATE							
23. DESCRIBE ANY DEVIATIONS FROM TEST METHODS (For example, pH-controlled test, reduced DO levels in test leading to aeration, sample exceeded holding time.							
24. WAS THE EFFLUENT FILTERED?				25. STATE MESH SIZE OF FILTER (if filtered)			
<input type="checkbox"/> YES <input type="checkbox"/> NO							
26. EFFLUENT SAMPLE TYPE (check one type for each sample)					27. IDENTIFY THE DILUENT (O ₁) CONTROL		
Sample 1: <input type="checkbox"/> 24-HR COMPOSITE <input type="checkbox"/> GRAB/COMPOSITE (give # of grabs) _____ <input type="checkbox"/> GRAB					_____		
Sample 2: <input type="checkbox"/> 24-HR COMPOSITE <input type="checkbox"/> GRAB/COMPOSITE (give # of grabs) _____ <input type="checkbox"/> GRAB (if any)					IDENTIFY THE SECONDARY (O ₂) CONTROL (if used)		

28. SUMMARY OF RESULTS - PERCENT MORTALITY PER CONCENTRATION							
	CONTROLS		EFFLUENT CONCENTRATIONS				
DAY	O ₁	O ₂	%	%	%	%	%
29. 48-HOUR LC ₅₀ (for <i>Daphnia magna</i> or <i>Ceriodaphnia dubia</i> acute tests)			30. 96-HOUR LC ₅₀ (for fathead minnow acute tests)			31. TU _a (acute toxic units)	



CERIODAPHNIA DUBIA CHRONIC TOXICITY TEST REPORT

By authority of PA 451 of 1994, as amended

INSTRUCTIONS: Use this form to report chronic toxicity test results. Use separate forms for more than 1 test.

1. NAME OF FACILITY (on NPDES permit)				2. NPDES PERMIT #			
				M I 0 0			
3. RECEIVING WATER (as designated in permit)			4. OUTFALL		5. RECEIVING WATER CONCENTRATION (if known)		
6. TEST LAB (Name and Address)							
7. TEST START DATE		8. TEST END DATE		9. AGE RANGE OF ORGANISMS AT TEST START		10. REPORT DATE	
11. NAME OF PERSON CONDUCTING TEST				12. NAME/PHONE # OF PERSON WHO CAN ANSWER QUESTIONS ABOUT THIS REPORT			
				() -			
13. SAMPLE COLLECTION DATES		14. DATE RECEIVED		15. ARRIVAL TEMP (°C)			
Sample 1:		Sample 1:		Sample 1:			
Sample 2:		Sample 2:		Sample 2:			
Sample 3:		Sample 3:		Sample 3:			
16. DATE OF FIRST USE		17. TOTAL RESIDUAL CHLORINE (mg/l)		18. AMMONIA (mg/l as N)			
Sample 1:		Sample 1:		Sample 1:			
Sample 2:		Sample 2:		Sample 2:			
Sample 3:		Sample 3:		Sample 3:			
19. WAS SAMPLE DECHLORINATED?		20. DESCRIBE DECHLORINATION (if any)					
Sample 1: <input type="checkbox"/> YES <input type="checkbox"/> NO							
Sample 2: <input type="checkbox"/> YES <input type="checkbox"/> NO							
Sample 3: <input type="checkbox"/> YES <input type="checkbox"/> NO							
21. EFFLUENT SAMPLES WERE COLLECTED (check one) <input type="checkbox"/> BEFORE CHLORINATION <input type="checkbox"/> AFTER CHLORINATION							
<input type="checkbox"/> AFTER CHLORINATION, BEFORE DECHLORINATION <input type="checkbox"/> AFTER DECHLORINATION <input type="checkbox"/> FACILITY DOES NOT CHLORINATE							
22. DESCRIBE ANY DEVIATIONS FROM TEST METHODS (For example, pH-controlled test, reduced DO levels in test leading to aeration, sample exceeded holding time.)							
23. EFFLUENT FILTERED?		24. STATE MESH SIZE OF FILTER (if filtered)					
<input type="checkbox"/> YES <input type="checkbox"/> NO							
25. EFFLUENT SAMPLE TYPE (check one type for each sample)						26. IDENTIFY THE DILUENT (O ₁) CONTROL	
Sample 1: <input type="checkbox"/> 24-HR COMPOSITE <input type="checkbox"/> GRAB/COMPOSITE (give # of grabs)____ <input type="checkbox"/> GRAB SAMPLE						_____	
Sample 2: <input type="checkbox"/> 24-HR COMPOSITE <input type="checkbox"/> GRAB/COMPOSITE (give # of grabs)____ <input type="checkbox"/> GRAB SAMPLE						IDENTIFY THE SECONDARY (O ₂) CONTROL (if used)	
Sample 3: <input type="checkbox"/> 24-HR COMPOSITE <input type="checkbox"/> GRAB/COMPOSITE (give # of grabs)____ <input type="checkbox"/> GRAB SAMPLE						_____	
27. SUMMARY OF DATA AND RESULTS - SURVIVAL AND REPRODUCTION							
CONCENTRATION OF EFFLUENT (%)	O ₁	O ₂	%	%	%	%	100%
48-HOUR SURVIVAL (%)							
7-DAY MEAN REPRODUCTION/FEMALE							
7-DAY MEAN SURVIVAL (%)							
28. 48-HOUR LC ₅₀ (%)			29. TU _a (acute toxic units)				
30. 7-DAY CHRONIC VALUE (%)		31. NOEC		32. LOEC		33. TU _c (chronic toxic units)	



FATHEAD MINNOW CHRONIC TOXICITY TEST REPORT

By authority of PA 451 of 1994, as amended

INSTRUCTIONS: Use this form to report chronic toxicity test results. Use separate forms for more than one test.

1. NAME OF FACILITY (on NPDES permit)				2. NPDES PERMIT #			
				M I 0 0			
3. RECEIVING WATER (as designated in permit)			4. OUTFALL		5. RECEIVING WATER CONCENTRATION (if known)		
6. TEST LAB (Name and Address)							
7. TEST START DATE		8. TEST END DATE		9. AGE RANGE OF ORGANISMS AT TEST START		10. REPORT DATE	
11. NAME OF PERSON CONDUCTING TEST				12. NAME/PHONE # OF PERSON WHO CAN ANSWER QUESTIONS ABOUT THIS REPORT			
				() -			
13. SAMPLE COLLECTION DATES		14. DATE RECEIVED		15. ARRIVAL TEMPERATURE (°C)			
Sample 1:		Sample 1:		Sample 1:			
Sample 2:		Sample 2:		Sample 2:			
Sample 3:		Sample 3:		Sample 3:			
16. DATE OF FIRST USE		17. TOTAL RESIDUAL CHLORINE (mg/l)		18. AMMONIA (mg/l as N)			
Sample 1:		Sample 1:		Sample 1:			
Sample 2:		Sample 2:		Sample 2:			
Sample 3:		Sample 3:		Sample 3:			
19. WAS SAMPLE DECHLORINATED?		20. DESCRIBE DECHLORINATION (if any)					
Sample 1: <input type="checkbox"/> YES <input type="checkbox"/> NO							
Sample 2: <input type="checkbox"/> YES <input type="checkbox"/> NO							
Sample 3: <input type="checkbox"/> YES <input type="checkbox"/> NO							
21. EFFLUENT SAMPLES WERE COLLECTED (check one) <input type="checkbox"/> BEFORE CHLORINATION <input type="checkbox"/> AFTER CHLORINATION							
<input type="checkbox"/> AFTER CHLORINATION, BEFORE DECHLORINATION <input type="checkbox"/> AFTER DECHLORINATION <input type="checkbox"/> FACILITY DOES NOT CHLORINATE							
22. DESCRIBE ANY DEVIATIONS FROM TEST METHODS (For example, pH-controlled test, reduced DO levels in test leading to aeration, sample exceeded holding time.)							
23. EFFLUENT FILTERED?		24. STATE MESH SIZE OF FILTER (if filtered)					
<input type="radio"/> YES <input type="radio"/> NO							
25. EFFLUENT SAMPLE TYPE (check one type for each sample)						26. IDENTIFY THE DILUENT (O ₁) CONTROL	
Sample 1: <input type="checkbox"/> 24-HR COMPOSITE <input type="checkbox"/> GRAB/COMPOSITE (give # of grabs)_____ <input type="checkbox"/> GRAB						IDENTIFY THE SECONDARY (O ₂) CONTROL (if used) _____ _____	
Sample 2: <input type="checkbox"/> 24-HR COMPOSITE <input type="checkbox"/> GRAB/COMPOSITE (give # of grabs)_____ <input type="checkbox"/> GRAB							
Sample 3: <input type="checkbox"/> 24-HR COMPOSITE <input type="checkbox"/> GRAB/COMPOSITE (give # of grabs)_____ <input type="checkbox"/> GRAB							
27. SUMMARY OF DATA AND RESULTS - SURVIVAL AND GROWTH							
CONCENTRATION OF EFFLUENT (%)	O ₁ (diluent)	O ₂ (if used)	%	%	%	%	100%
96-HOUR SURVIVAL (%)							
7-DAY MEAN BIOMASS (mg/initial fish)							
7-DAY MEAN SURVIVAL (%)							
28. 96-HOUR LC ₅₀ (%)		29. TU _a (acute toxic units)					
30. 7-DAY CHRONIC VALUE (%)		31. NOEC		32. LOEC		33. TU _c (chronic toxic units)	



Electronic Environmental (E²) Reporting System

Electronic Signature Agreement

In accordance with the provisions of the Michigan Uniform Electronic Transactions Act, Act 305 of 2000 (MCL 450.831-450.849), self-monitoring data required by a National Pollutant Discharge Elimination System (NPDES) permit may be submitted to the Michigan Department of Environmental Quality (DEQ) in an electronic format. This form is used by representatives of facilities with NPDES permits to enter into an agreement with the DEQ to electronically submit self-monitoring data required by their permit.

Submission of self-monitoring data is conducted through the Department's E2 Reporting System. For information on participating, please read the E2 Facility Participation Package. The Facility Participation Package is available from the Department's web site. This document describes how to enroll, participate and disenroll from the E2 system. For specific information on using the E2 Reporting System, please read the Facility User's Guide, also available from the Department's Web site.

An electronic submission shall be deemed to have been properly received by DEQ when it is accessible by DEQ, can be fully processed by the translator at the E2 Reporting System server, and is syntactically correct to the XML protocol as modified by DEQ. No electronic report shall satisfy any reporting requirement or be of any legal effect until it is received. The E2 Reporting System will electronically verify each electronic record that is received.

If you wish to electronically submit self-monitoring data, please read the certification below, enter the appropriate information, and return the form to the DEQ address shown below. Your PIN will be sent to you using regular mail.

I understand and agree to submit self-monitoring data required by the NPDES permit through electronic format, and I agree that the electronic signature (PIN) shall serve as a legally enforceable signature in the same manner as an original signature on a paper document pursuant to the provisions of M.C.L. 450.831 et seq.

I agree to protect the security of my password and PIN from compromise and shall take all necessary steps to prevent its loss, disclosure, modification, or unauthorized use.

Permittee Name (type or print)

Official Title (type or print)

Permittee Signature

Date

**Return Forms to: Mr. Jeffrey Jones
Michigan Department of Environmental Quality
Surface Water Permits Section
Water Division
P.O. Box 30273
Lansing, Michigan 48909-7773**

For MDEQ Use Only		
	Name	Date
Received by		
Approved by		
NMS updated		
eDMR Updated:		



**Electronic Environmental (E²) Reporting System
Activation Form**

This form is used to identify or change representatives who are authorized to either view or submit Discharge Monitoring Report (DMR) data using the Michigan Department of Environmental Quality E² Reporting System. Please provide the requested information for the facility and each individual that will view or submit DMR data. Be sure to check the appropriate boxes for Account Action and Account Type in the User Account Information boxes on the next page.

Part A. Facility Information and Registration

NPDES PERMIT NUMBER:		
Facility Name 1:		
Facility Name 2:		
Facility Name 3:		
Location Address (do not use a P.O. Box Number):		
City:	State:	ZIP Code:
Telephone (with area code):	FAX (with area code):	

I request that the facility identified above be allowed to submit DMR data using the E2 Reporting System.

Please establish or revise user accounts in accordance with the information provided in each "User Account." information block on page 2. I understand that each "Certified Account" user must submit a completed Electronic Signature Application Agreement before using the E2 Reporting System. I agree that electronic submission of DMR forms shall be conducted in accordance with procedures described in the Facility Participation Package.

_____	_____
Permittee Name (type or print)	Official Title (type or print)
_____	_____
Permittee Signature	Date

**Mail to: Mr. Jeffrey Jones
Michigan Department of Environmental Quality
Surface Water Permits Section
Water Division
P.O. Box 30273
Lansing, Michigan 48909-7773**

For MDEQ Use Only				
	Name	Date	DMR Submission	Date
Received by			Combined DMR submittal	
Approved by			eDMR only submittal	
NMS updated				
eDMR Updated:				



Electronic Environmental (E²) Reporting System

Part B: User Account Information.

Account Action: <input type="checkbox"/> Activate <input type="checkbox"/> Update <input type="checkbox"/> Deactivate			Account Type: <input type="checkbox"/> Certifier <input type="checkbox"/> Viewer		
First Name:			Last Name:		
Title:			Business:		
Address:					
City:		State:		Zip Code:	
Telephone (with area code):			e-mail address:		

Account Action: <input type="checkbox"/> Activate <input type="checkbox"/> Update <input type="checkbox"/> Deactivate			Account Type: <input type="checkbox"/> Certifier <input type="checkbox"/> Viewer		
First Name:			Last Name:		
Title:			Business:		
Address:					
City:		State:		Zip Code:	
Telephone (with area code):			e-mail address:		

Account Action: <input type="checkbox"/> Activate <input type="checkbox"/> Update <input type="checkbox"/> Deactivate			Account Type: <input type="checkbox"/> Certifier <input type="checkbox"/> Viewer		
First Name:			Last Name:		
Title:			Business:		
Address:					
City:		State:		Zip Code:	
Telephone (with area code):			e-mail address:		

Account Action: <input type="checkbox"/> Activate <input type="checkbox"/> Update <input type="checkbox"/> Deactivate			Account Type: <input type="checkbox"/> Certifier <input type="checkbox"/> Viewer		
First Name:			Last Name:		
Title:			Business:		
Address:					
City:		State:		Zip Code:	
Telephone (with area code):			e-mail address:		