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EPA Region 5 Records Ctr.
201020

Scott G. Smith
Direct Dial (616) 732-1724
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June 27, 2003

VIA FEDERAL EXPRESS

Ms. Eileen L. Furey
Associate Regional Counsel (C-14J)
United States Environmental Protection Agency; Region 5
77 West Jackson Blvd.
Chicago, IL 60604-3507

Dear Ms. Furey:

Enclosed are the responses to Ms. Loughlin's letter, dated March 28, 2003, addressed to me as the city attorney for the City of Otsego, Michigan. Should you require further information, please contact me.

Sincerely,

Scott G. Smith

/vlp

Enclosures

cc: Mr. Thad Beard, City Manager
Mr. Thomas Dunn, Wastewater Plant Superintendent
Ms. Janice S. Loughlin, Acting Section Chief

06946 (015) 203585 01

Attachment 1 - Requests for Information

1. Identify all persons consulted in the preparation of the responses to these Information Requests.

   Scott G. Smith, LAW, WEATHERS & RICHARDSON, P.C., 333 Bridge Street, NW, Suite 800, Grand Rapids, MI 49504, (616) 459-1171, City attorneys, assisted the undersigned, Thomas Dunn, Wastewater Treatment Plant Superintendent, 210 North Grant Street, Otsego, MI 49078; (269) 694-9194, in responding to these Information requests.

2. Identify all documents consulted, examined, or referred to in the preparation of the responses to these Information Requests and provide copies of all such documents.

   There are drawers and boxes full of documents that were at least cursorily perused to determine what information was available. It would be unduly burdensome to identify in detail all those documents.

   We have attached relevant documents and tables summarizing information. Other documents are available to review upon request.

3. If you have reason to believe that there may be a person(s) able to provide a more detailed or complete response to any Information Request, or who may be able to provide additional responsive documents, identify any such person(s).

   None are known to us.

<u>POTW or Other Treatment Facility Ownership</u>

4. Identify each publicly-owned treatment works or similar treatment facility (hereinafter "POTW") owned or operated by the City of Otsego at any time during the relevant period that discharged wastewaters directly or indirectly to the Kalamazoo River or tributaries thereof. Identify each POTW by current name and address, if available.

   Otsego Wastewater Treatment Plant, 210 North Grant Street, Otsego, MI

5. For each POTW identified in response to Request #4, provide a detailed history of the ownership and operation of the facility during the relevant period. The detailed history should identify: (1) each owner and operator of the POTW during the relevant period; (2) for each owner or operator, the period of ownership or operation to the nearest month; (3) any parent corporation or other authority for any period when the facility was not publicly owned and operated; and (4) the current mailing address for each owner, operator, parent corporation or other authority.

   The City of Otsego has always been the owner and operator of the plant.

<u>Paper Company Wastewaters</u>

6. During the relevant period, did any POTW under your ownership, operation or control ever accept for co-treatment with municipal wastewaters, or accept for separate treatment, process wastewaters or other material from any person engaged in the production of pulp, paper, or paperboard products ("paper products") from virgin fiber (wood pulp derived directly from trees) or from secondary fiber (reused cardboard, paper or paper products, including pre- and post-consumer recycled materials)? The term "process wastewaters" means wastewaters generated during the manufacture of pulp, paper or paperboard products, exclusive of sanitary wastewaters. (A list of persons who, U.S. EPA believes, engaged in the production of paper products at and near the Site during the relevant period is enclosed as Attachment 4, but there may be additional persons known to you that are not included on the list.)

To the best of my knowledge, Otsego has never accepted any process wastewaters from any such persons. The City accepts only domestic wastewater from such persons.

To my knowledge, the paper mills in the City have always had their own discharge points and have engaged in their own process wastewater treatment.

7. If the answer to Request #6 is "yes," identify each person engaged in the production of paper products from whom you accepted process wastewaters or other material for treatment during the relevant period. Provide, if available, the current mailing address of each person so identified.

Not applicable—the City never accepted such wastewaters or other materials, except domestic wastewater.

Other Industrial Wastewaters Containing PCBs

8. Other than the persons identified in response to Request #7, during the relevant period did any POTW under your ownership, operation or control ever accept process wastewaters or other materials containing PCBs or PCB compounds from any person, including industrial or commercial users of the sewerage system?

No. To the best of my knowledge, the City has never knowingly **accepted** any process wastewaters or other materials containing PCB's.

Without limiting the preceding statement, but by way of full disclosure, on one occasion the City became aware of PCBs in the system. It immediately traced the materials back to its likely source, identified the likely source, contacted the likely source (who was very cooperative), reviewed the operations of the likely source (finding no apparent or other reason for its entering the system) and continued to monitor for PCBs as required under the N.P.D.E.S. permit then in effect. The user was Parker Hannfin Fluid Pump Division, 100 Parker Drive, Otsego, MI 49078.

9. If your answer to Request #8 is "yes," identify each person from whom a POTW under your ownership, operation or control accepted process wastewaters or other material containing PCBs or PCB compounds for treatment during the relevant period. Provide, if available, the current mailing address of each person so identified.

Not applicable—the City never accepted such wastewaters or other materials containing PCBs.

Treatment Facilities

10. For each POTW owned or operated by you that accepted process wastewaters from any person identified in response to Request #7 or Request #9, provide the following information:

a. Identify the POTW, and its current address (if available).

b. Identify the year and month that POTW primary wastewater treatment facilities were placed in operation. Provide a simplified schematic diagram of the wastewater treatment facilities of the POTW as then configured, showing each major treatment unit of the POTW,, including sludge handling facilities and dry weather and maximum hydraulic design wastewater flow rates.

c. Identify the year and month that POTW secondary (biological) wastewater treatment facilities were placed in operation. Provide a simplified schematic diagram of the wastewater treatment facilities as then configured, showing each major treatment

unit of the POTW, including sludge handling facilities and dry weather and maximum hydraulic design wastewater flow rates.

d. Identify the year and month that POTW advanced (post-secondary) wastewater treatment facilities were placed in operation. Provide a simplified schematic diagram of the wastewater treatment facilities as then configured showing each major treatment unit, including sludge handling facilities dry weather and maximum hydraulic design wastewater flow rates.

Not applicable—the City never accepted such wastewaters or other materials containing PCBs.

However, the POTW has been at its current site for as long as I am aware. A primary/secondary trickling filter treatment facility was constructed in 1955. That facility was upgraded by construction in 1989-90 with operation beginning in August, 1990.

Effluent Flow

11. For each POTW owned or operated by you that accepted process wastewaters from any person identified in response to Request #7 or Request #9, identify the monthly average POTW effluent flow in million gallons per day (mgd) for each month during the relevant time period.

Not applicable—the City never accepted such wastewaters or other materials containing PCBs.

However, the attached Table 1 provides the requested information concerning the POTW effluent.

Total Suspended Solids

12. For each POTW owned or operated by you that accepted process wastewaters from any person identified in response to Request #7 or Request #9, identify the monthly average POTW untreated wastewater, primary effluent, secondary effluent, as well as the final effluent total suspended solids (TSS) concentration (mg/1) and mass loading (lbs/day) for each month during the relevant period.

Not applicable—the City never accepted such wastewaters or other materials containing PCBs.

However, the attached Table 1 provides the requested information concerning the POTW effluent.

POTW and Sewer System Bypassing

13. For each POTW owned or operated by you that accepted process wastewaters from any person identified in response to Request #7 or Request #9, identify, on a monthly basis during the relevant time period, all available information and data regarding bypasses to the Kalamazoo River, or tributaries thereof: (1) of untreated sewage from the sewerage system tributary to the POTW; (2) of untreated sewage at the POTW headworks; and (3) of partially treated sewage from any point within the POTW (e.g., after primary treatment). Information may be in the form of monitored bypasses where flow records are available; actual or estimated time of bypass events; engineering estimates or studies that provide information on the occurrence of bypasses during specific rainfall events (e.g., amount of bypassing expected with a rainfall of one inch in 24 hours); engineering studies for upgrade of the sewerage systems to eliminate or minimize bypasses; and, any recollections of the

frequency and extent of bypasses for discrete time periods based on dates upgrades to the sewerage system and/or POTW were made.

Otsego has always had a separated sanitary (rather than a combined storm and sanitary) sewer system. Accordingly the only by-passes would have occurred during interruptions of electrical service of some duration. Since 1986, auxiliary power has been provided to provide electrical power even when electric utility service is interrupted. The City has not tracked such by-passes because they have been very infrequent, short in duration, and minimal in effect.

PCB Data

14. For each POTW owned or operated by you that accepted process wastewaters from any person identified in response to Request #7 or Request #9, identify all data (daily, monthly and annual during the relevant period) for PCBs and PCB compounds for sewerage system and POTW bypass flows; the POTW influent flow; primary effluent flow; secondary treatment effluent flow; final effluent flow if different than the secondary effluent flow; and primary, secondary and combined wastewater sludge. Results from any historical or archived samples must be included in the response to this request.

Not applicable—the City never accepted such wastewaters or other materials containing PCBs.

However, the attached information is the extent of the City's information on PCBs.

Eighty-seven samples of media taken at the POTW have been analyzed for PCBs. In 79 of these samples, PCBs were not detected. In 8 samples of media taken at the POTW, a PCB was detected. All such samples from the POTW are summarized on the following chart. Seven of the eight samples in which a PCB was detected either consisted of sludge or of water from a secondary clarifier that was not field filtered. Because PCBs strongly adhere to solid particles, detection of PCBs in the samples of sludge or in unfiltered samples, at the concentrations detected, does not establish that PCBs were discharged from the POTW. The eighth sample in which a PCB was detected consisted of a sample of aqueous effluent taken on March 25, 1992 in which 0.93 parts per billion of Aroclor 1260 was detected. In addition, the PCBs detected in samples of media from the POTW do not establish that PCBs entered the POTW via wastewater, because such low concentrations could also have resulted from incoming rainfall (rainfall in the Great Lakes region has been documented to contain PCBs) or on airborne dust particles. All relevant analytical reports and chain of custody records (when available) are appended to this response.

Sample date	Medium sampled		Aroclor	ppB	
920325	aqueous effluent		1260	0.93	
920514	sludge	N end storage tank	1248	150.00	
920514	sludge	S end storage tank	1248	130.00	
920514	sludge	W side storage tank	1248	100.00	
920514	sludge	composite	1248	130.00	
950307	liquid sludge	water, grab, MDNR	1242	0.35	qualifiers MM, LH
960718	sec clarifier	water, composite, not field filtered	1248	0.20	
960730	secondary clarifier	water, composite, not field filtered	1248	0.10	

Sludge Data

15. Identify the monthly amount of wastewater sludge generated at the POTW (tons/month, dry weight basis) during the relevant period, and describe the disposal method and disposal location for the sludge.

No sludge generation/disposal records exist for the period prior to 1981. For the period after that, the records are attached.

Process Wastewaters

16. For each person identified in response to Request #7 or Request #9, provide the following information:

    a. Identify the name of the person, including the names of any successor owners or operators, during the entire period of time when you accepted process wastewaters from this person for discharge to the POTW;

    b. Identify, to the nearest month, the period during which each person identified in response to Request #7 or Request #9 discharged process wastewaters or other material to the POTW; the monthly average process wastewater flow from that person; the monthly average TSS concentration (mg/1) and TSS mass loading (lbs/day) discharged from that person to the POTW; and any all PCB data for the process wastewater or other material discharged from that person to the POTW. Results from any historical or archived samples must be included in the response to this request.

    c. Identify and produce all correspondence, notes of meetings, or any other documentation regarding the presence of PCBs in the wastewaters discharged to the sewerage system and any of your POTWs by each person identified in response to Request #7 or Request #9.

    Not applicable—the City never accepted such process wastewaters, or other wastewaters or materials containing PCBs.

PCB Discharge Limits

17. Identify all regulations, laws, ordinances or other regulatory controls that limited, directly or indirectly, the discharge of PCB-containing wastewaters to any of your POTWs during the relevant period.

    Since the early 1990's the City has had an industrial pretreatment program in place. That allows non-domestic wastewaters to be discharged into the City's sanitary sewer system only by a notice of intent and a permit (where a permit is required). Under 40 CFR Part 430, paper manufacturers are categorical users needing to meet federal categorical pretreatment requirements. Where any user is subject to more stringent standards, the more stringent standards apply.

    In addition, the City's sewer use ordinance, a copy of which is attached, prohibits the discharge into the sanitary sewers of petroleum oil, waste not typically discharged into a sanitary sewer system (unless permitted by the City), any substance that may cause the sludges to be unsuitable for reclamation and reuse (or that interfere with the reclamation process or make the sludge unmarketable), any motor oil, any hydraulic fluid, any cleaning solvents, any non-domestic wastewater with any constituents that would violate the user's individual permit to discharge such wastewater into the system, or any substance that would cause an interference or pass-through.

POTW Permits

18. Identify all federal, state, municipal, or local permits ever issued to you during the relevant period that address the release of any pollutants or hazardous substances, in effluents or in any other manner, to surface waters or sediments. This request includes, but is not limited to, copies of all National Pollutant Discharge Eliminations System ("NPDES") or state permits or orders, issued pursuant to the Federal Water Pollution Control Act, 33 U.S.C. §§ *1251 et seq.,* or Michigan law; U.S. Army Corps of Engineers permits. For each such issued permit, provide a copy of both the permit and the permit application.

    Copies of those still in the City's possession are attached.

Industrial User Permits

19. For each person identified in response to Request #7 or Request #9, provide copies of all industrial user permits, respective baseline monitoring reports and sewer use agreements issued or prepared for the relevant period.

    Copies of those still in the City's possession are attached.

Document Retention

20. Provide a copy of each document retention policy that has been in existence at the wastewater treatment facility during the relevant period. If no written policy exists, describe in detail the guidelines and criteria followed by you during the relevant period to determine when documents are discarded, destroyed or retained.

    The City's policy is attached.

These answers are based upon my knowledge and belief following my review of the records I have found to date and based on my current memory of events that occurred many years ago.

Thomas Dunn

Date: June 24, 2003

Thomas Dunn, Wastewater Plant Superintendent
City of Otsego, MI

06946 (015) 196040.02

ATTACHMENT 1
ALL ANALYTICAL PCB DATA
RESPONSE TO REQUEST 14

From The Desk of:
Tom Dunn
Wastewater Treatment Plant
Superintendent

City of Otsego

117 E Orleans
Otsego MI 49078
616-694-9194
Fax 616-692-2643

September 27 , 2001

Ms. Dawn Penniman , P.E.
Sr. Project Specialist II
Blasland Bouck & Lee, Inc.
6723 Towpath Road
P.O. Box 66
Syracuse , New York 13214-0066

FOIA Request

Dear Ms. Penniman :

In response to your Freedom of Information Act request I have compiled this packet containing a summary by year, from present back to 1990, of PCB monitoring data. I have also included a list of industries that currently discharge to the municipal sanitary sewer. All supporting lab analysis reports are also included . Information of this type has been provided previously to your firm . I believe that an investigator from Louisiana who was contracted by BBL visited Otsego and our facility in the early 1990's .

If you should need further information or clarification of this information please do not hesitate to contact me at 616-694-9194.

Sincerely,

Thomas W. Dunn

Thomas W. Dunn
Otsego WWTP Superintendent

PCB Monitoring Summary
OTSEGO WWTP

Year	Activity			
	Effluent monitoring for NPDES		Biosolids Monitoring	Others
2001	No monitoring no data		No Data	
2000	No monitoring no data		No Data	
1999	No monitoring		No Data	
1998	No monitoring		No Data	
1997	No monitoring		No Data	
1996	2xMonthly until July	See reports	No Data	
1995	2xMonthly	Not Detected	See Attached Report	See Report
1994	2XMonthly	Not Detected	No Data	
1993	2XMonthly begin July 1993	Not Detected	No Data	
1992	Quarterly monitoring	Not Detected	See Attached Report	
1991	Quarterly monitoring	Not Detected	No Data	See Report
1990	Quarterly monitoring	Not Detected	No Data	

MICHIGAN DEPARTMENT OF NATURAL RESOURCES
SURFACE WATER QUALITY DIVISION
POINT SOURCE MONITORING

Report of a
Municipal Wastewater Survey
Conducted at
Otsego WWTP
All Outfalls No. 030057
NPDES No. MI0023744
Allegan County
Otsego, Michigan
03/06/95

RECEIVED
MAY 22 1995

SURVEY SUMMARY

Wastewater monitoring was performed during one twenty-four hour survey period starting Monday, March 6, 1995.

The results of this survey are compared to the final limitations in the facility's National Pollutant Discharge Elimination System (NPDES) Permit, No. MI0023744, in Table 4.

The results of this survey are compared to the results reported by the facility in their March Discharge Monitoring Report in Table 4.

A grab sample from outfall 030057 (001) was split with the facility to compare laboratory analyses. The results are shown in Table 5.

The results of this survey are compared to the results of the previous survey performed in August, 1991 in Table 6.

The results of the physical, chemical, and bacteriological analyses are presented in Tables 1 & 2. The results of the organic scan analyses are presented in Table 3.

TABLE 3 Otsego WWTP TABLE 3

Scan 3-Chlorinated Hydrocarbons, PCBs & Organochlorine Pesticides

Outfall		030057 (001)		Influent
Matrix		water		water
Sample Type		composite		composite
Survey Period	from	03/06/95 0800		03/06/95 0940
	to	03/07/95 0800		03/07/95 0940
Dilution Factor		1		1
		ug/l		ug/l
1,3-Dichlorobenzene	<	.1 ND	<	.1 ND
1,4-Dichlorobenzene	<	.1 ND	<	.1 ND
1,2-Dichlorobenzene	<	.1 ND	<	.1 ND
Hexachloroethane	<	.01 ND	<	.01 ND
1,3,5-Trichlorobenzene	<	.01 ND	<	.01 ND
1,2,4-Trichlorobenzene	<	.01 ND	<	.01 ND
1,2,3-Trichlorobenzene	<	.01 ND	<	.01 ND
Hexachlorobutadiene	<	.01 ND	<	.01 ND
1,2,4,5-Tetrachlorobenzene	<	.01 ND	<	.01 ND
Hexachlorocyclopentadiene	<	.01 ND	<	.01 ND
2-Chloronaphthalene	<	.2 ND	<	.2 ND
1,2,3,4-Tetrachlorobenzene	<	.01 ND	<	.01 ND
Pentachlorobenzene	<	.01 ND	<	.01 ND
a-BHC	<	.01 ND	<	.01 ND
Hexachlorobenzene	<	.01 ND	<	.01 ND
b-BHC	<	.01 ND	<	.01 ND
g-BHC (lindane)		.013	<	.01 ND
Pentachloronitrobenzene	<	.01 ND	<	.01 ND
d-BHC	<	.01 ND	<	.01 ND
Heptachlor	<	.01 ND	<	.01 ND
Aldrin	<	.01 ND	<	.01 ND
Heptachlor epoxide	<	.01 ND	<	.01 ND
g-Chlordane	<	.01 ND	<	.01 ND
Endosulfan I	<	.01 ND	<	.01 ND
a-Chlordane	<	.01 ND	<	.01 ND
4,4'-DDE	<	.01 ND	<	.01 ND
Endrin	<	.01 ND	<	.01 ND
Dieldrin	<	.01 ND	<	.01 ND
4,4'-DDD	<	.05 ND	<	.05 ND
4,4'-DDT	<	.01 ND	<	.01 ND
Hexabromobenzene	<	.01 ND	<	.01 ND
Methoxychlor	<	.05 ND	<	.05 ND
Mirex	<	.01 ND	<	.01 ND
Aroclor 1242	<	.1 ND		.16 MM
Aroclor 1254	<	.1 ND	<	.1 ND
Aroclor 1260	<	.1 ND	<	.1 ND
*Aroclor 1016	<	.1 ND	<	.1 ND
*Aroclor 1221	<	.1 ND	<	.1 ND
*Aroclor 1232	<	.1 ND	<	.1 ND
*Aroclor 1248	<	.1 ND	<	.1 ND
*Aroclor 1262	<	.1 ND	<	.1 ND
*Aroclor 1268	<	.1 ND	<	.1 ND
BP-6 (PBB)	<	.05 ND	<	.05 ND
*Toxaphene	<	.1 ND	<	.1 ND

* Seldomly encountered, reported semi-quantitatively

TABLE 3 Otsego WWTP TABLE 3

Scan 3-Chlorinated Hydrocarbons, PCBs & Organochlorine Pesticides

Outfall		030057 (001)		030057 (001)
Matrix		water		water
Sample Type		grab		grab
Date & Time collected		03/06/95 0950		03/06/95 1930
Dilution Factor		1		1
		ug/l		ug/l
1,3-Dichlorobenzene	<	.1 ND	<	.1 ND
1,4-Dichlorobenzene	<	.1 ND	<	.1 ND
1,2-Dichlorobenzene	<	.1 ND	<	.1 ND
Hexachloroethane	<	.01 ND	<	.01 ND
1,3,5-Trichlorobenzene	<	.01 ND	<	.01 ND
1,2,4-Trichlorobenzene	<	.01 ND	<	.01 ND
1,2,3-Trichlorobenzene	<	.01 ND	<	.01 ND
Hexachlorobutadiene	<	.01 ND	<	.01 ND
1,2,4,5-Tetrachlorobenzene	<	.01 ND	<	.01 ND
Hexachlorocyclopentadiene	<	.01 ND	<	.01 ND
2-Chloronaphthalene	<	.2 ND	<	.2 ND
1,2,3,4-Tetrachlorobenzene	<	.01 ND	<	.01 ND
Pentachlorobenzene	<	.01 ND	<	.01 ND
a-BHC	<	.01 ND	<	.01 ND
Hexachlorobenzene	<	.01 ND	<	.01 ND
b-BHC	<	.01 ND	<	.01 ND
g-BHC (lindane)		.015		.012
Pentachloronitrobenzene	<	.01 ND	<	.01 ND
d-BHC	<	.01 ND	<	.01 ND
Heptachlor	<	.01 ND	<	.01 ND
Aldrin	<	.01 ND	<	.01 ND
Heptachlor epoxide	<	.01 ND	<	.01 ND
g-Chlordane	<	.01 ND	<	.01 ND
Endosulfan I	<	.01 ND	<	.01 ND
a-Chlordane	<	.01 ND	<	.01 ND
4,4'-DDE	<	.01 ND	<	.01 ND
Endrin	<	.01 ND	<	.01 ND
Dieldrin	<	.01 ND	<	.01 ND
4,4'-DDD	<	.05 ND	<	.05 ND
4,4'-DDT	<	.01 ND	<	.01 ND
Hexabromobenzene	<	.01 ND	<	.01 ND
Methoxychlor	<	.05 ND	<	.05 ND
Mirex	<	.01 ND	<	.01 ND
Aroclor 1242	<	.1 ND	<	.1 ND
Aroclor 1254	<	.1 ND	<	.1 ND
Aroclor 1260	<	.1 ND	<	.1 ND
*Aroclor 1016	<	.1 ND	<	.1 ND
*Aroclor 1221	<	.1 ND	<	.1 ND
*Aroclor 1232	<	.1 ND	<	.1 ND
*Aroclor 1248	<	.1 ND	<	.1 ND
*Aroclor 1262	<	.1 ND	<	.1 ND
*Aroclor 1268	<	.1 ND	<	.1 ND
BP-6 (PBB)	<	.05 ND	<	.05 ND
*Toxaphene	<	.1 ND	<	.1 ND

* Seldomly encountered, reported semi-quantitatively

TABLE 3 Otsego WWTP TABLE 3

Scan 3-Chlorinated Hydrocarbons, PCBs & Organochlorine Pesticides

Outfall		Lq. Sludge
Matrix		water
Sample Type		grab
Date & Time collected		03/07/95 0800
Dilution Factor		1
		ug/l
1,3-Dichlorobenzene	<	.1 ND
1,4-Dichlorobenzene	<	.1 ND
1,2-Dichlorobenzene	<	.1 ND
Hexachloroethane	<	.01 ND
1,3,5-Trichlorobenzene	<	.01 ND
1,2,4-Trichlorobenzene	<	.01 ND
1,2,3-Trichlorobenzene	<	.01 ND
Hexachlorobutadiene		.03 PI
1,2,4,5-Tetrachlorobenzene	<	.01 ND
Hexachlorocyclopentadiene	<	.01 ND
2-Chloronaphthalene	<	.2 ND
1,2,3,4-Tetrachlorobenzene	<	.01 ND
Pentachlorobenzene	<	.01 ND
a-BHC	<	.01 ND
Hexachlorobenzene	<	.01 ND
b-BHC	<	.01 ND
g-BHC (lindane)	<	.01 ND
Pentachloronitrobenzene	<	.01 ND
d-BHC	<	.01 ND
Heptachlor	<	.01 ND
Aldrin	<	.01 ND
Heptachlor epoxide	<	.01 ND
g-Chlordane	<	.01 ND
Endosulfan I	<	.01 ND
a-Chlordane	<	.01 ND
4,4'-DDE	<	.01 ND
Endrin	<	.01 ND
Dieldrin	<	.01 ND
4,4'-DDD	<	.05 ND
4,4'-DDT	<	.01 ND
Hexabromobenzene	<	.01 ND
Methoxychlor	<	.05 ND
Mirex	<	.01 ND
Aroclor 1242		.35 MM,LH
Aroclor 1254	<	.1 ND
Aroclor 1260	<	.1 ND
*Aroclor 1016	<	.1 ND
*Aroclor 1221	<	.1 ND
*Aroclor 1232	<	.1 ND
*Aroclor 1248	<	.1 ND
*Aroclor 1262	<	.1 ND
*Aroclor 1268	<	.1 ND
BP-6 (PBB)	<	.05 ND
*Toxaphene	<	.1 ND

* Seldomly encountered, reported semi-quantitatively

MICHIGAN DEPARTMENT OF NATURAL RESOURCES
SURFACE WATER QUALITY DIVISION
POINT SOURCE MONITORING

Report of a
Municipal Wastewater Survey
Conducted at
Otsego WWTP
All Outfalls No. 030057
NPDES No. MI0023744
Allegan County
Otsego, Michigan
08/26/91

SURVEY SUMMARY

Wastewater monitoring was performed during one twenty-four hour survey period starting Monday, August 26, 1991.

The results of this survey are compared to the final limitations in the facility's National Pollutant Discharge Elimination System (NPDES) Permit, No. MI0023744, in Table 4.

The results of this survey are compared to the results reported by the facility in their August Discharge Monitoring Report in Table 4.

A grab sample from outfall 030057 (001) was split with the facility to compare laboratory analyses. The results are shown in Table 5.

The results of this survey are compared to the results of the previous survey performed in November, 1989 in Table 6.

The results of the physical, chemical, and bacteriological analyses are presented in Tables 1 & 2. The results of the organic scan analyses are presented in Table 3.

TABLE 3 Otsego WWTP TABLE 3

Scan 3-Chlorinated Hydrocarbons, PCBs & Organochlorine Pesticides

Outfall		030057 (001)		Influent	
Matrix		water		water	
Sample Type		composite		composite	
Survey Period	from	08/26/91 1015		08/26/91 1015	
	to	08/27/91 1015		08/27/91 1015	
Dilution Factor		1		5	
		ug/l		ug/l	
Aldrin	<	.01 ND	<	.05 ND	
*Aroclor 1016	<	.1 ND	<	5 ND,DM	
*Aroclor 1221	<	.1 ND	<	5 ND,DM	
*Aroclor 1232	<	.1 ND	<	5 ND,DM	
Aroclor 1242	<	.1 ND	<	5 ND,DM	
*Aroclor 1248	<	.1 ND	<	5 ND,DM	
Aroclor 1254	<	.1 ND	<	5 ND,DM	
Aroclor 1260	<	.1 ND	<	5 ND,DM	
*Aroclor 1262	<	.1 ND	<	5 ND,DM	
*Aroclor 1268	<	.1 ND	<	5 ND,DM	
a-BHC	<	.01 ND	<	.05 ND	
b-BHC	<	.01 ND	<	.05 ND	
d-BHC	<	.01 ND	<	.05 ND	
g-BHC (lindane)		.084		.16	
BP-6 (PBB)	<	.05 ND	<	2 ND,DM	
a-Chlordane	<	.01 ND	<	.05 ND	
g-Chlordane	<	.01 ND	<	.05 ND	
2-Chloronaphthalene	<	.2 ND	<	1 ND	
4,4'-DDD	<	.01 ND	<	.05 ND	
4,4'-DDE	<	.01 ND	<	.05 ND	
1,4'-DDT	<	.01 ND	<	.01 ND	
4,4'-DDT	<	.02 ND	<	.1 ND	
1,2-Dichlorobenzene	<	.1 ND		.15 T	
1,3-Dichlorobenzene	<	.2 ND	<	1 ND	
1,4-Dichlorobenzene	<	2 ND		.95	
Dieldrin	<	.01 ND	<	.05 ND	
Endosulfan I	<	.01 ND	<	.05 ND	
Endrin	<	.01 ND	<	.05 ND	
Heptachlor	<	.01 ND	<	.05 ND	
Heptachlor epoxide	<	.01 ND	<	.05 ND	
Hexabromobenzene	<	.01 ND	<	.05 ND	
Hexachlorobenzene	<	.01 ND	<	.05 ND	
Hexachlorobutadiene	<	.01 ND	<	.05 ND	
Hexachlorocyclopentadiene	<	.01 ND	<	.05 ND	
Hexachloroethane	<	.01 ND	<	.05 ND	
Methoxychlor	<	.01 ND	<	.05 ND	
Mirex	<	.04 ND	<	.2 ND	
Pentachlorobenzene	<	.01 ND	<	.05 ND	
Pentachloronitrobenzene	<	.01 ND	<	.05 ND	
1,2,3,4-Tetrachlorobenzene	<	.01 ND		.014 T	
1,2,4,5-Tetrachlorobenzene	<	.01 ND	<	.05 ND	
*Toxaphene	<	.1 ND	<	5 ND,DM	
1,2,3-Trichlorobenzene	<	.01 ND	<	.05 ND	
1,2,4-Trichlorobenzene	<	.02 ND	<	.25 ND	
1,3,5-Trichlorobenzene		.011	<	.05 ND	

DM?

* Seldomly encountered, reported semi-quantitatively

ANATECH

Analytical Laboratories

ANALYTICAL REPORT
POLYCHLORINATED BIPHENYLS
EPA Method 8080

CLIENT:	Otsego WWTP		
PROJECT:	N/A	DATE SAMPLED:	05/14/92
LAB REF. NO.:	21845	DATE RECEIVED:	05/19/92
SAMPLED BY:	TD, TM	DATE EXTRACTED:	05/21/92
DESCRIPTION:	Sludge Sample	DATE ANALYZED:	05/30/92
ANALYST:	JHY	REPORT DATE:	06/12/92

LAB SAMPLE I.D. #:	8114
CLIENT SAMPLE I.D. #:	#1 NORTH END OF STORAGE TANK

AROCHLOR 1016	ND
AROCHLOR 1221	ND
AROCHLOR 1232	ND
AROCHLOR 1242	ND
AROCHLOR 1248	0.15
AROCHLOR 1254	ND
AROCHLOR 1260	ND
AROCHLOR 1262	ND
AROCHLOR 1268	ND
LIMIT OF DETECTION	0.03

ND = Non Detectable

Results are in mg/kg

James E. Fisher
Laboratory Manager

smm

ANATECH
Analytical Laboratories

ANALYTICAL REPORT
POLYCHLORINATED BIPHENYLS
EPA Method 8080

CLIENT:	Otsego WWTP		
PROJECT:	N/A	DATE SAMPLED:	05/14/92
LAB REF. NO.:	21845	DATE RECEIVED:	05/19/92
SAMPLED BY:	TD, TM	DATE EXTRACTED:	05/21/92
DESCRIPTION:	Sludge Sample	DATE ANALYZED:	05/30/92
ANALYST:	JHY	REPORT DATE:	06/12/92

LAB SAMPLE I.D. #:	8115
CLIENT SAMPLE I.D. #:	#2 SOUTH END OF STORAGE TANK

AROCHLOR 1016	ND
AROCHLOR 1221	ND
AROCHLOR 1232	ND
AROCHLOR 1242	ND
AROCHLOR 1248	0.13
AROCHLOR 1254	ND
AROCHLOR 1260	ND
AROCHLOR 1262	ND
AROCHLOR 1268	ND
LIMIT OF DETECTION	0.03

ND = Non Detectable

Results are in mg/kg

James E. Fisher
Laboratory Manager

smm

ANATECH

Analytical Laboratories

ANALYTICAL REPORT
POLYCHLORINATED BIPHENYLS
EPA Method 8080

CLIENT:	Otsego WWTP		
PROJECT:	N/A	DATE SAMPLED:	05/14/92
LAB REF. NO.:	21845	DATE RECEIVED:	05/19/92
SAMPLED BY:	TD, TM	DATE EXTRACTED:	05/21/92
DESCRIPTION:	Sludge Sample	DATE ANALYZED:	05/30/92
ANALYST:	JHY	REPORT DATE:	06/12/92

LAB SAMPLE I.D. #:	8116
CLIENT SAMPLE I.D. #:	#3 WEST SIDE OF STORAGE TANK

AROCHLOR 1016	ND
AROCHLOR 1221	ND
AROCHLOR 1232	ND
AROCHLOR 1242	ND
AROCHLOR 1248	0.10
AROCHLOR 1254	ND
AROCHLOR 1260	ND
AROCHLOR 1262	ND
AROCHLOR 1268	ND
LIMIT OF DETECTION	0.03

ND = Non Detectable

Results are in mg/kg

James E. Fisher
Laboratory Manager

smm

ANATECH

Analytical Laboratories

ANALYTICAL REPORT
POLYCHLORINATED BIPHENYLS
EPA Method 8080

CLIENT:	Otsego WWTP		
PROJECT:	N/A	DATE SAMPLED:	05/14/92
LAB REF. NO.:	21845	DATE RECEIVED:	05/19/92
SAMPLED BY:	TD, TM	DATE EXTRACTED:	05/21/92
DESCRIPTION:	Sludge Sample	DATE ANALYZED:	05/30/92
ANALYST:	JHY	REPORT DATE:	06/12/92

LAB SAMPLE I.D. #:	8117
CLIENT SAMPLE I.D. #:	#4 COMBINATION OF ABOVE

AROCHLOR 1016	ND
AROCHLOR 1221	ND
AROCHLOR 1232	ND
AROCHLOR 1242	ND
AROCHLOR 1248	0.13
AROCHLOR 1254	ND
AROCHLOR 1260	ND
AROCHLOR 1262	ND
AROCHLOR 1268	ND
LIMIT OF DETECTION	0.03

ND = Non Detectable

Results are in mg/kg

James E. Fisher
Laboratory Manager

smm

ANALYTICAL RESULTS

To: Otsego, City of WWTP

Project No: 920657
Report Date: 4/14/92

Project Desc.: Quarterly analysis of one aqueous sample.

Sample No.:920657-01 Sample type: aqueous Received on: 3/25/92
ID: **"Effluent, 3/25/92, 4:00am"**

PCB, total	*0.93 ug/L*	*Identified and quantified as Aroclor 1260.*

Unless otherwise noted, test results represent the sample(s) as they were received.

ANALYTICAL RESULTS

To: Otsego, City of WWTP

Project No: 921529
Report Date: 7/17/92

Project Desc.: Analysis of two aqueous samples.

Sample No.:921529-01 Type:aqueous Rec'd: 7/06/92 Sampled:
ID: **"Effluent 24 Hour Composite, 7/5-6/92"**

Copper, total	*<0.01*	*mg/L*
Zinc, total	*0.02*	*mg/L*
PCB, total	*<0.1*	*ug/L*

Sample No.:921529-02 Type:aqueous Rec'd: 7/06/92 Sampled: 7/06/92
ID: **"Effluent Grab, 8:00am"**

Chromium, hex., low level	*0.003*	*mg/L*

Unless otherwise noted, test results represent the sample(s) as they were received.

OTSEGO WASTEWATER TREATMENT PLANT

CHAIN OF CUSTODY RECORD

SAMPLE LOCATION: OTsego WWTP

SAMPLE DESCRIPTION: Effluent PCB analysis

COLLECTION DATE: July 5/6

COLLECTED BY: T. Dunn

RECEIVED BY: Julie Lytle 7/6/92
Date

Date

Date

Date

Laboratories, Inc.

ANALYTICAL RESULTS

To: Otsego, City of WWTP

Project No: 921364
Report Date: 6/25/92

Project Desc.: Analysis of one aqueous sample.

Sample No.:921364-01 Type:aqueous Rec'd: 6/12/92 Sampled: 6/12/92
ID: **"Effluent, 24hr composite, 6/11/92 - 6/12/92"**

PCB, total	*<0.1 ug/L*

Unless otherwise noted, test results represent the sample(s) as they were received.

P.O.# 1225

OTSEGO WASTEWATER TREATMENT PLANT
CHAIN OF CUSTODY RECORD

SAMPLE LOCATION: OTSEGO WWTP Effluent

SAMPLE DESCRIPTION: Clear Aqueous sample

COLLECTION DATE: June 11/12 24hr grab composite

COLLECTED BY: Tom Dunn

RECEIVED BY: Laura C. Evans 6-12-92 LAR 8:50am
Date

Date

Date

Date

ANATECH

Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	30084-1643	Matrix:	Water
Client Sample:	OTS-001 WWTP Secondary Clarifier		
COLLECTED:	01/06/1993 07:00	Project:	Otsego WWTP - Quarterly
RECEIVED:	01/07/1993 12:42	Sampled By:	Thomas W Dunn

Test Description	Result	Unit	Practical Quantitation Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Arochlor 1016	ND	ug/L	0.1	EPA 608	01/07/1993 JA
Arochlor 1221	ND	ug/L	0.1	"	01/07/1993 JA
Arochlor 1232	ND	ug/L	0.1	"	01/07/1993 JA
Arochlor 1242	ND	ug/L	0.1	"	01/07/1993 JA
Arochlor 1248	ND	ug/L	0.1	"	01/07/1993 JA
Arochlor 1254	ND	ug/L	0.1	"	01/07/1993 JA
Arochlor 1260	ND	ug/L	0.1	"	01/07/1993 JA
Arochlor 1262	ND	ug/L	0.1	"	01/07/1993 JA
Arochlor 1268	ND	ug/L	0.1	"	01/07/1993 JA

ND = Non Detectable

Vice President GEN. MGR.

Gerald T. Skar (DTA)

Gerald T. Skar

Reported : 01/12/1993

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record

1200 Conrad Industrial Drive, Ludington, MI 49431

Phone # 800-733-8715

Laboratory Reference #: [illegible]

Page [illegible] of

Name & Address	Note Please use permanent ink pen	(If same leave blank)
Results To: Otsego WWT 210 N Grant Street Otsego, MI 49078 Attn: Tom Dunn	Invoice To:	
Telephone # 616-694 9194	FAX # / Fax results yes / no	Telephone #

Project Name: Quarterly Wastewater Sampling

Project #:

State: MI (State in which samples were collected)

Samplers (signature): [illegible]

Sample Containers: (QTY/Size/Type/pH)			(Lab use only)		
VOA:	1	1	1	O&G HCL:	1	1	1
Amber:	1	1	1	1	Bact:	1	1	1
HNO3:	1	1	1		1	1	1
None:	1	1	1	1	1	1	1
H2SO4:	1	1	1		1	1	1

Required Completion Date & (Name): [illegible]

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	Cl2	Cu TCP	Hex Cr	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Hg C	N				✓
1645	[illegible]	[illegible] Effluent	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	✓	✓		
1645	[illegible]	Effluent Outfall	[illegible]	3:10	[illegible]	[illegible]	N			✓	

Notes / Special Request

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
[illegible]	[illegible]	[illegible]			/ /			
Relinquished by (signature)	**Date**	**Time am/pm**	**Received by (signature)**	**Relinquished by (signature)**	**Date**	**Time am/pm**	**Received for Lab by (signature)**	**Date / Time am/pm**
	/ /				/ /		[illegible]	[illegible]

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ANATECH

Analytical Laboratories

ANALYTICAL REPORT
POLYCHLORINATED BIPHENYLS
EPA Method 8080

CLIENT:	Otsego WWTP		
PROJECT:	N/A	DATE SAMPLED:	10/05-06/92
LAB REF. NO.:	23891	DATE RECEIVED:	10/07/92
SAMPLED BY:	TWN	DATE EXTRACTED:	10/08/92
DESCRIPTION:	Water Sample - Composite	DATE ANALYZED:	10/19/92
ANALYST:	TP	REPORT DATE:	10/21/92

LAB SAMPLE I.D. #:		5983
CLIENT SAMPLE I.D. #:	OT-10059201	SECONDARY CLARIFIER

AROCHLOR 1016	ND
AROCHLOR 1221	ND
AROCHLOR 1232	ND
AROCHLOR 1242	ND
AROCHLOR 1248	ND
AROCHLOR 1254	ND
AROCHLOR 1260	ND
AROCHLOR 1262	ND
AROCHLOR 1268	ND
LIMIT OF DETECTION	0.1

ND = Non Detectable

Results are in ug/L

James E. Fisher
Laboratory Manager

nel

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record

1200 Conrad Industrial Drive, Ludington, MI 49431

Phone # 800-733 8715

Laboratory Reference #: 23591

Page / of /

Name & Address	Note Please use permanent ink pen	(If same leave blank)
Results To: Otsego WWTP 210 N Grant Street Otsego, MI 49078 Attn: Tom Dunn		Invoice To: City of Otsego 117 Orleans ST Otsego MI 49078
Telephone # 616 694 7194	FAX # 616 692-2613 Fax results yes / no	Telephone # 692 3391 PO # 001329

Project Name _____ Project # _____ State MI (State in which samples were collected) Samplers (signature) Thomas Wilson

Sample Containers: (QTY./Size/Type/pH)				(Lab use only)		
VOA:	/	/	/	O&G HCL:	/	/	/
Amber:	/	/	/	Bact:	/	/	/
HNO3:	/	/	/	:	/	/	/
None:	/	/	/	:	/	/	/
H2SO4:	/	/	/	:	/	/	/

Required Completion Date & (Name): / /

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	PCBs	Test Methods	Notes / Special Request
5983	OT-10059201	Secondary Clarifier Otsego WWTP	10/5/92	8 8am				X		

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
Thomas Wilson	10/6/92	1PM			/ /			
Relinquished by (signature)	**Date**	**Time am/pm**	**Received by (signature)**	**Relinquished by (signature)**	**Date**	**Time am/pm**	**Received for Lab by (signature)**	**Date / Time am/pm**
	/ /				/ /			

Pink copy client Yellow copy Managers White copy Lab

ANATECH

Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	31255-6040	Matrix:	Water
Client Sample:	Sec Weir - Comp.	Location:	
COLLECTED:	04/06/1993 10:00	Project:	Otsego WWTP - Analysis
RECEIVED:	04/07/1993 14:19	Sampled By:	Anthony D. Misze

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Arochlor 1016	ND	ug/L	0.1	EPA 608	04/08/1993 TJ
Arochlor 1221	ND	ug/L	0.1	"	04/08/1993 TJ
Arochlor 1232	ND	ug/L	0.1	"	04/08/1993 TJ
Arochlor 1242	ND	ug/L	0.1	"	04/08/1993 TJ
Arochlor 1248	ND	ug/L	0.1	"	04/08/1993 TJ
Arochlor 1254	ND	ug/L	0.1	"	04/08/1993 TJ
Arochlor 1260	ND	ug/L	0.1	"	04/08/1993 TJ
Arochlor 1262	ND	ug/L	0.1	"	04/08/1993 TJ
Arochlor 1268	ND	ug/L	0.1	"	04/08/1993 TJ

ND = Non Detectable

Vice President GEN. MGR.

Gerald T. Skar (OM)

Gerald T. Skar

Reported : 04/14/1993

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record

1200 Conrad Industrial Drive, Ludington, MI 49431

Phone # 800-733-8715

Laboratory Reference #: 31255

Page / of

Name & Address	Note Please use permanent ink pen	(If same leave blank)
Results To: City of Otsego, 117 E. Orleans Street, Otsego, Michigan 49078	Invoice To:	
Telephone #: 616-692-3391	FAX #:	Telephone #:
	Fax results yes / no	

Project Name: [illegible] Project #: State: MI (State in which samples were collected) Samplers (signature): [illegible]

Sample Containers: (QTY./Size/Type/pH)				(Lab use only)		
VOA:	1	1	1	O&G HCL:	1	1	1
Amber:	1	1	1	Bacti:	1	1	1
HNO3:	1	1	1		1	1	1
None:	1	1	1		1	1	1
H2SO4:	1	1	1		1	1	1

Required Completion Date & (Name): / /

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	Test Methods: Nitrate	Nitrite	Ammonia	Total Phos.							Notes / Special Request
1038	#1	EFFLUENT SAMPLER	4-6	24 hr [illegible]	Comp	Hcl			X	X								
1039	#2	[illegible]	4-6	[illegible]	[illegible]	2					X							
1040	#3	[illegible]	4-6	24 hour [illegible]	Comp	C		X										
[illegible]	#4	[illegible]	4-6	24 hour [illegible]	Comp			X										

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
[illegible]	4/6/91	[illegible]			/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by (signature)	Date / Time am/pm
	/ /				/ /		[illegible]	[illegible]

Pink copy client Yellow copy Managers White copy Lab

ANATECH

Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	32887-3119	Matrix:	Water
Client Sample:	OTS070801-Effluent-Comp	Location:	
COLLECTED:	07/08/1993 :	Project:	Otsego WWTP - Analysis
RECEIVED:	07/09/1993 13:05	Sampled By:	Thomas Dunn

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
TOTAL METALS ANALYSIS					
Copper (ICAP)	0.006	mg/L	0.004	EPA 200.7	07/20/1993 GCP
Zinc (ICAP)	0.015	mg/L	0.002	"	07/20/1993 GCP
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	07/13/1993 TJ
Aroclor-1221	ND	ug/L	0.1	"	07/13/1993 TJ
Aroclor-1232	ND	ug/L	0.1	"	07/13/1993 TJ
Aroclor-1242	ND	ug/L	0.1	"	07/13/1993 TJ
Aroclor-1248	ND	ug/L	0.1	"	07/13/1993 TJ
Aroclor-1254	ND	ug/L	0.1	"	07/13/1993 TJ
Aroclor-1260	ND	ug/L	0.1	"	07/13/1993 TJ
Aroclor-1262	ND	ug/L	0.1	"	07/13/1993 TJ
Aroclor-1268	ND	ug/L	0.1	"	07/13/1993 TJ

ND = Non Detectable

Project Manager

C David Haner for

Maria G. Bissell

Reported : 07/22/1993

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800 733 8715

Laboratory Reference # [illegible] Page of

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To: City of Otsego WWTP
117 E Orleans Street
Otsego, MI 49078 Attn: Tom Dunn

Telephone # 616-692-3391 FAX # Fax results yes / no

Invoice To: Telephone #

Project Name Project # State MI (State in which samples were collected) Work Authorization * P.O. # [illegible]

Sample Containers (QTY./Size/Type/pH) (Lab use only)

VOA:	/ / /	O&G HCL:	/ / /
Amber:	[illegible]	Bacti:	/ / /
HNO3:	[illegible]	:	/ / /
None:	[illegible]	:	/ / /
H2SO4:	[illegible]	:	/ / /

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date / /

Sampled By (name) T. Dunn

Test Methods

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	PCB	[illegible]	Hex. Cr.							
[illegible]	OTS070801	Effluent	1-7/8	[illegible]	Comp	H2O		X	X								
[illegible]	OTS070802	Effluent	7/8	2 pm	Grab	"				X							

Notes / Special Request

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
[illegible]	[illegible]	2 PM			/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / Time am/pm
	/ /				/ /		[illegible]	/ / [illegible]

Pink copy client Yell [illegible]py Managers White copy Lab

ANATECH

Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	33074-3827	Matrix:	Water
Client Sample:	OT50720002	Location:	Effluent Sec. Clarrifier -Comp
COLLECTED:	07/20/1993 :	Project:	Otsego WWTP - Analysis
RECEIVED:	07/21/1993 11:20	Sampled By:	Thomas Dunn

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	07/30/1993 TJ
Aroclor-1221	ND	ug/L	0.1	"	07/30/1993 TJ
Aroclor-1232	ND	ug/L	0.1	"	07/30/1993 TJ
Aroclor-1242	ND	ug/L	0.1	"	07/30/1993 TJ
Aroclor-1248	ND	ug/L	0.1	"	07/30/1993 TJ
Aroclor-1254	ND	ug/L	0.1	"	07/30/1993 TJ
Aroclor-1260	ND	ug/L	0.1	"	07/30/1993 TJ
Aroclor-1262	ND	ug/L	0.1	"	07/30/1993 TJ
Aroclor-1268	ND	ug/L	0.1	"	07/30/1993 TJ

ND = Non Detectable

Project Manager

C. David Haven for

Maria G. Bissell

Reported : 08/02/1993

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # 35C 1-1 Page of

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To: Otsego WWTP
117 E Orleans Street
Otsego, MI 49078 Attn: Thomas Dunn
Telephone # 616 692-3391 FAX # Fax results yes / no

Invoice To: Lab picking up CFS on
Telephone #

Project Name: Keefly Project # State: MI Work Authorization * T. Dunn
(State in which samples were collected)

Sample Containers (QTY./Size/Type/pH) (Lab use only)

VOA:	/ / /	O&G HCL:	/ / /
Amber:	/ / /	Bacti:	/ / /
HNO3	/ / /	:	/ / /
None:	/ / /	:	/ / /
H2SO4:	/ / /	:	/ / /

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date: / /
Sampled By (name): Thomas Dunn

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Drinking Sample Matrix	Drinking Water Y/N	Test Methods: Recovery	Copper	Fuse								Notes / Special Request
[illegible]	0750720 01	Effluent Sec Center	7 20	11 AM	Grab	[illegible]	N		✓									
[illegible]	0750720 002	Effluent Sec Center	7-19/20	11 PM	Comp	[illegible]	N			✓								
[illegible]	0750720 003	Effluent Outfall	7 20	3 PM	Grab	[illegible]	N	✓										

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
[illegible]	07/20/13	3 PM			/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / Time am/pm
	/ /				/ /			/ /

Pink copy client ow copy Managers White copy - Lab

ANATECH

Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	33345-4781	Matrix:	Water
Client Sample:	0750804003 comp.	Location:	Efluent 24hr. comp.
COLLECTED:	08/04/1993 :	Project:	Otsego WWTP - Analysis
RECEIVED:	08/05/1993 14:01	Sampled By:	Thomas Dunn

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	SW-846 Mtd. 8080	08/09/1993 TJ
Aroclor-1221	ND	ug/L	0.1	"	08/09/1993 TJ
Aroclor-1232	ND	ug/L	0.1	"	08/09/1993 TJ
Aroclor-1242	ND	ug/L	0.1	"	08/09/1993 TJ
Aroclor-1248	ND	ug/L	0.1	"	08/09/1993 TJ
Aroclor-1254	ND	ug/L	0.1	"	08/09/1993 TJ
Aroclor-1260	ND	ug/L	0.1	"	08/09/1993 TJ
Aroclor-1262	ND	ug/L	0.1	"	08/09/1993 TJ
Aroclor-1268	ND	ug/L	0.1	"	08/09/1993 TJ

ND = Non Detectable

Project Manager

C. David Maier for

Maria G. Bissell

Reported : 08/24/1993

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

ference # 33345

Name & Address — Note: Please use permanent ink pen — (If same leave blank)

Otsego WWTP
117 E Orleans Street
Otsego, MI 49078 Attn: Thomas Dunn
616-692-3391

Invoice To:

FAX #
Fax results: yes / no

Telephone #

Weekly — Project # — State MI (State in which samples were collected) — Work Authorization * P.O. 001545

iners: (QTY/Size/Type/pH)			(Lab use only)			
1	1	1	O&G HCL	1	1	1
1	1 liter GL	1	Bacti:	1	1	1
1	1250 PL	1	:	1	1	1
1	1250 PL	1	:	1	1	1
1	1	1	:	1	1	1

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form.

Notes / Special Request

pletion Date	Sampled By (name)
/	Tom Dunn

Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp. or grab	Sample Matrix	Drinking Water Y/N	Test Methods: Hexavalent Chrome	Test Methods: Copper	Test Methods: PCBs
750804001	Effluent @ Clarifier	8/4/93		grab		N		✓	
750804002	Effluent @ Outfall	8/4/93		grab		N	✓		
750804003	Effluent 24hr Comp	8-7-93	5AM 5AM	Composite		N			✓

ignature)	Date	Time am/pm	Received by: (signature)	Relinquished by: (signature)	Date	Time am/pm	Received by: (signature)	Cooler Temp. / Cooler #
[illegible]	8/04/93	3:00			/ /			

ignature)	Date	Time am/pm	Received by: (signature)	Relinquished by: (signature)	Date	Time am/pm	Received for Lab by:	Date	Time am/pm
	/ /				/ /		[illegible]	8/5/93	210

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ANATECH
Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	33463-5179	Matrix:	Water
Client Sample:	OTS-0811003 Eff @ Clarifi	Location:	Comp
COLLECTED:	08/11/1993 :	Project:	Otsego WWTP - Analysis
RECEIVED:	08/12/1993 12:16	Sampled By:	Tom Dunn

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	08/16/1993 TJ
Aroclor-1221	ND	ug/L	0.1	"	08/16/1993 TJ
Aroclor-1232	ND	ug/L	0.1	"	08/16/1993 TJ
Aroclor-1242	ND	ug/L	0.1	"	08/16/1993 TJ
Aroclor-1248	ND	ug/L	0.1	"	08/16/1993 TJ
Aroclor-1254	ND	ug/L	0.1	"	08/16/1993 TJ
Aroclor-1260	ND	ug/L	0.1	"	08/16/1993 TJ
Aroclor-1262	ND	ug/L	0.1	"	08/16/1993 TJ
Aroclor-1268	ND	ug/L	0.1	"	08/16/1993 TJ

ND = Non Detectable

Project Manager

C Daniel Maier for
Maria G. Bissell

Reported : 08/27/1993

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington MI 49431
Phone # 800-733 8715

oratory Reference # [illegible]

Page of

Name & Address — Note Please use permanent ink pen — (If same leave blank)

esults To: Otsego WTP
117 E Orleans Street
Otsego, MI 49078 Attn: Thomas Dunn

Telephone # 616-692-3391 FAX # Fax results yes / no

Invoice To

Telephone #

Project Name [illegible] Project # State (State in which samples were collected) Work Authorization *

Sample Containers (QTY /Size/Type/pH)				(Lab use only)			
VOA				O&G HCL			
Amber				Bacti.			
HNO3							
None							
H2SO4							

Test Methods

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Notes / Special Request

Required Completion Date / /

Sampled By (name) [illegible]

Lab ID	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	grab	Aqueous	N	✓		
[illegible]	[illegible]	[illegible]	[illegible]	11 AM	grab	Aqueous	N		✓	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Comp	Aqueous	N			✓

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
[illegible]	[illegible]	[illegible]			/ /			
by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / Time am/pm
	/ /				/ /		[illegible]	[illegible]

low copy Managers White copy Lab

ANATECH
Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	33835-6728	Matrix:	Water	/ Composite
Client Sample:	OTS0902003 Clarifier	Location:		
COLLECTED:	09/02/1993 10:00	Project:	Otsego WWTP - Analysis	
RECEIVED:	09/03/1993 11:06	Sampled By:	Thomas Dunn	

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	09/09/1993 TJ
Aroclor-1221	ND	ug/L	0.1	"	09/09/1993 TJ
Aroclor-1232	ND	ug/L	0.1	"	09/09/1993 TJ
Aroclor-1242	ND	ug/L	0.1	"	09/09/1993 TJ
Aroclor-1248	ND	ug/L	0.1	"	09/09/1993 TJ
Aroclor-1254	ND	ug/L	0.1	"	09/09/1993 TJ
Aroclor-1260	ND	ug/L	0.1	"	09/09/1993 TJ
Aroclor-1262	ND	ug/L	0.1	"	09/09/1993 TJ
Aroclor-1268	ND	ug/L	0.1	"	09/09/1993 TJ

ND = Non Detectable

Project Manager

C. David Mavin for
Maria G. Bissell

Reported : 09/10/1993

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, L idington, MI 49431
Phone # 800-733-8715

Laboratory Reference # [illegible]

Page [illegible] of

Results To: Name & Addre
Otsego WWTP
117 E Orleans Street
Otsego, MI 49075 Attn: Tunn
Telephone # 616-692-[illegible]391

Note Please use permanent ink pen

Invoice To (If same leave blank): Shipping # 3 83

FAX #

Telephone #

Fax results yes / no

Project Name [illegible]

Project #

State MI (State in which samples were collected)

Work Authorization * [illegible]

Sample Containers (QTY./Size/Type/pH)

VOA:	/ / /	(Lab use only)	
Amber:	[illegible]	O&	/ / /
HNO3	[illegible]		/ / /
None:	[illegible]		/ / /
H2SO4:	/ / /		/ / /

Required Completion Date / /

Sampled By (name)

Test Methods

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Notes / Special Request

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	[illegible]	[illegible]	[illegible]							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	✓									
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]								
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			✓							

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp.
[illegible]	[illegible]	[illegible]			/ /			Cooler #
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / Time am/pm
	/ /				/ /			[illegible]

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ANATECH
Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	33956-7184	Matrix:	Water	/ Composite
Client Sample:	OTS-0909003 Clarifier	Location:		
COLLECTED:	09/09/1993 :	Project:	Otsego WWTP - Analysis	
RECEIVED:	09/10/1993 13:38	Sampled By:	Thomas Dunn	

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	09/14/1993 TJ
Aroclor-1221	ND	ug/L	0.1	"	09/14/1993 TJ
Aroclor-1232	ND	ug/L	0.1	"	09/14/1993 TJ
Aroclor-1242	ND	ug/L	0.1	"	09/14/1993 TJ
Aroclor-1248	ND	ug/L	0.1	"	09/14/1993 TJ
Aroclor-1254	ND	ug/L	0.1	"	09/14/1993 TJ
Aroclor-1260	ND	ug/L	0.1	"	09/14/1993 TJ
Aroclor-1262	ND	ug/L	0.1	"	09/14/1993 TJ
Aroclor-1268	ND	ug/L	0.1	"	09/14/1993 TJ

ND = Non Detectable

Project Manager

C. David Mauer for
Maria G. Bissell

Reported : 09/15/1993

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # 5 2 9 5 Z

Page / of /

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To [illegible]

Invoice To City of Otsego
117 E Orleans St
Otsego MI 49078-1199

Telephone # [illegible]

FAX #

Fax results yes / no

Telephone # 616-692-3391

Project Name [illegible]

Project #

State [illegible] (State in which samples were collected)

Work Authorization * #1545

Sample Containers (QTY /Size/Type/pH)		(Lab use only)	
VOA	/ / /	O&G HCL	/ / /
Amber	/ 1 [illegible] / gl /	Bact	/ / /
HNO3	/ 1 250 pl /	:	/ / /
None	/ 1 250 pl /	:	/ / /
H2SO4	/ / /	:	/ / /

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the revers side of this form

Required Completion Date / /

Sampled By (name) T. Dunn

Lab ID	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Drinking Sample Matrix	Drinking Water Y/N	Test Methods									
7182	OTS-0909001	Outfall	9-9	2pm	grab	water	1'	✓									
7183	OTS 0909002	Clarifier	9-9	11am	grab	water	1'		✓								
7184	OTS 0909003	Clarifier	9-8/9	900 to Noon	Comp	water	1'			✓							

Notes / Special Request

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
[illegible]	09/09/93	3 [illegible]			/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by (signatu	Date / Time am/pm
	/ /				/ /		[illegible]	[illegible]

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ANATECH
Analytical Laboratories
FAX: 616-845-9942
616-843-1877

Otsego Wastewater Treatment Plant

Sample:	34449-8887	Matrix:	Water / Composite
Client Sample:	OTS-1006003 Eff Secondary	Location:	Bi-monthly sampling
COLLECTED:	10/06/1993 :	Project:	Otsego WWTP - Analysis
RECEIVED:	10/07/1993 12:18	Sampled By:	Thomas W Dunn

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	10/12/1993 TJ
Aroclor-1221	ND	ug/L	0.1	"	10/12/1993 TJ
Aroclor-1232	ND	ug/L	0.1	"	10/12/1993 TJ
Aroclor-1242	ND	ug/L	0.1	"	10/12/1993 TJ
Aroclor-1248	ND	ug/L	0 1	"	10/12/1993 TJ
Aroclor-1254	ND	ug/L	0.1	"	10/12/1993 TJ
Aroclor-1260	ND	ug/L	0.1	"	10/12/1993 TJ
Aroclor-1262	ND	ug/L	0 1	"	10/12/1993 TJ
Aroclor-1268	ND	ug/L	0 1	"	10/12/1993 TJ

ND = Non Detectable

Project Manager

Maria G. Bissell

Reported · 10/13/1993

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization

1200 Conrad Industrial Drive, Ludington, MI 49431

Phone # 800-733-8715

Laboratory Reference # Page of

Name & Address Note: Please use permanent ink pen (If same leave blank)

Results To: Invoice To:

Telephone # FAX # Telephone #

Fax results: yes / no

Project Name Project # State (State in which samples were collected) Work Authorization *

Sample Containers: (QTY /Size/Type/pH)				(Lab use only)			
VOA:	/	/	/	O&G HCL:	/	/	/
Amber:	/	/	/	Bact:	/	/	/
HNO3	/	/	/	:	/	/	/
None:	/	/	/	:	/	/	/
H2SO4:	/	/	/	:	/	/	/

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the revers side of this form.

Required Completion Date / /

Sampled By (name)

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp. or grab	Sample Matrix	Drinking Water Y/N	Test Methods										Notes / Special Request

Relinquished by (signature)	Date	Time am/pm	Received by: (signature)	Relinquished by: (signature)	Date	Time am/pm	Received by: (signature)	Cooler Temp. / Cooler #
Relinquished by: (signature)	Date / /	Time am/pm	Received by: (signature)	Relinquished by: (signature)	Date / /	Time am/pm	Received for Lab by: (signatu	Date / / Time am/pm

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ANATECH
Analytical Laboratories
FAX: 616-845-9942
616-843-1877

Otsego Wastewater Treatment Plant

Sample:	34750-0007	Matrix:	Water / Composite
Client Sample:	OTS1021001 Effluent	Location:	
COLLECTED:	10/21/1993 :	Project:	Otsego WWTP - Analysis
RECEIVED:	10/22/1993 10:52	Sampled By:	Thomas Dunn

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	10/29/1993 TJ
Aroclor-1221	ND	ug/L	0.1	"	10/29/1993 TJ
Aroclor-1232	ND	ug/L	0.1	"	10/29/1993 TJ
Aroclor-1242	ND	ug/L	0.1	"	10/29/1993 TJ
Aroclor-1248	ND	ug/L	0.1	"	10/29/1993 TJ
Aroclor-1254	ND	ug/L	0.1	"	10/29/1993 TJ
Aroclor-1260	ND	ug/L	0.1	"	10/29/1993 TJ
Aroclor-1262	ND	ug/L	0.1	"	10/29/1993 TJ
Aroclor-1268	ND	ug/L	0.1	"	10/29/1993 TJ

ND = Non Detectable

Project Manager

C. David Haven for
Maria G. Bissell

Reported : 11/01/1993

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington MI 49431
Phone # 800 733 8715

Laboratory Reference # [illegible]

Page 1 of 1

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To [illegible]

Invoice To

Telephone # [illegible]

FAX #

Fax results yes / no

Telephone #

Project Name

Project #

State (State in which samples were collected)

Work Authorization * 1545

Sample Containers (QTY /Size/Type/pH) (Lab use only)

VOA	/ / /	O&G HCL	/ / /
Amber	/ 1[illegible] / pl /	Bacti:	/ / /
HNO3	/ 25[illegible] / pl /	:	/ / /
None.	/ 25[illegible] / pl /	:	/ / /
H2SO4	/ / /	:	/ / /

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the revers side of this form

Required Completion Date / /

Sampled By (name)

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Drinking Sample Matrix	Drinking Water Y/N	Test Methods									
[illegible]	OTS102/001	Effluent	10/21		Comp	H_2O				✓							
[illegible]	OTS102/002	Effluent	"	3PM	grab				✓								
[illegible]	OTS102/003	Effluent@outfall	10-21	3PM	grab			✓									

Notes / Special Request

Shipping Charge of $3.94 To be deducted from invoice

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
[illegible]	10/21/93	3PM			/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by (signatu	Date / Time am/pm
	/ /				/ /		[illegible]	[illegible]

Pink copy client [illegible]w copy Managers White copy Lab

ANATECH

Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	34997-0934	Matrix:	Water	/ Composite
Client Sample:	OTS1103001 Eff	Location:		
COLLECTED:	11/04/1993 :	Project:	Otsego WWTP - Analysis	
RECEIVED:	11/05/1993 13:10	Sampled By:	Thomas Dunn	

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	11/11/1993 TJ
Aroclor-1221	ND	ug/L	0.1	"	11/11/1993 TJ
Aroclor-1232	ND	ug/L	0.1	"	11/11/1993 TJ
Aroclor-1242	ND	ug/L	0.1	"	11/11/1993 TJ
Aroclor-1248	ND	ug/L	0.1	"	11/11/1993 TJ
Aroclor-1254	ND	ug/L	0.1	"	11/11/1993 TJ
Aroclor-1260	ND	ug/L	0.1	"	11/11/1993 TJ
Aroclor-1262	ND	ug/L	0.1	"	11/11/1993 TJ
Aroclor-1268	ND	ug/L	0.1	"	11/11/1993 TJ

ND = Non Detectable

Project Manager

C. David Haven for

Maria G. Bissell

Reported 11/15/1993

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # [illegible]

Page of

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To: [illegible] WWTP
210 [illegible] Grant Street
[illegible], MI 49078 Attn. Thomas Dunn
Telephone # 616 694-9154
FAX #
Fax results yes / no

Invoice To
Telephone #

Project Name [illegible]
Project #
State [illegible] (State in which samples were collected)
Work Authorization * [illegible]

Sample Containers (QTY./Size/Type/pH) (Lab use only)

VOA:	/ / /	O&G HCL:	/ / /
Amber:	[illegible]	Bact:	/ / /
HNO3	[illegible]	:	/ / /
None:	[illegible]	:	/ / /
H2SO4:	/ / /	:	/ / /

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date / /
Sampled By (name)

Test Methods

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Drinking Sample Matrix	Drinking Water Y/N	[illegible]	[illegible]	PCBs								Notes / Special Request
[illegible]	[illegible]	~~[illegible]~~ Sec	11/3/4	-	[illegible]	Water	[illegible]			✓								UPS [illegible] $3.74
[illegible]	[illegible] 3002	Ext [illegible] Sec	11 [illegible]	[illegible]	Grab	water	[illegible]		✓									
1736	[illegible] 3003	Ext at [illegible]	11 [illegible]	3 pm	Grab	water	[illegible]	✓										

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
[illegible]	11/04/[illegible]	3 Pm			/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / / Time am/pm
	/ /				/ /			

Pink copy client Yellow copy Managers White copy Lab

ANATECH

Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	35252-1864	Matrix:	Water	/ Composite
Client Sample:	OTS-11017003	Location:	Effluent @ Clarifier	
COLLECTED:	11/17/1993 :	Project:	Otsego WWTP - Analysis	
RECEIVED:	11/18/1993 12:14	Sampled By:	Thomas Dunn	

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	11/24/1993 TJ
Aroclor-1221	ND	ug/L	0.1	"	11/24/1993 TJ
Aroclor-1232	ND	ug/L	0.1	"	11/24/1993 TJ
Aroclor-1242	ND	ug/L	0.1	"	11/24/1993 TJ
Aroclor-1248	ND	ug/L	0.1	"	11/24/1993 TJ
Aroclor-1254	ND	ug/L	0.1	"	11/24/1993 TJ
Aroclor-1260	ND	ug/L	0.1	"	11/24/1993 TJ
Aroclor-1262	ND	ug/L	0.1	"	11/24/1993 TJ
Aroclor-1268	ND	ug/L	0.1	"	11/24/1993 TJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 12/01/1993

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington MI 49431
Phone # 800-733-8715

Laboratory Reference # [illegible]

Page of

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To: [illegible]
[illegible]
[illegible] Attn. [illegible]

Invoice To:

Telephone # 616-694-9194 — FAX # — Telephone #

Fax results yes / no

Project Name [illegible] — Project # — State [illegible] (State in which samples were collected) — Work Authorization * [illegible]

Sample Containers (QTY /Size/Type/pH)		(Lab use only)	
VOA	/ / /	O&G HCL	/ / /
Amber	/ / /	Bact	/ / /
HNO3	/ / /		/ / /
None	/ / /		/ / /
H2SO4	/ / /		/ / /

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date / / — Sampled By (name)

Test Methods

Lab ID	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Drinking Sample Matrix	Drinking Water Y/N	[illegible]	[illegible]	[illegible]							
[illegible]	OTS-11017001	Effluent 6 Outfall	[illegible]	2PM	grab	water	N	✓									
[illegible]	OTS 11017002	Effluent 6 Clarifier	[illegible]	11AM	grab	water	N		✓								
[illegible]	OTS 11017003	Effluent 6 Clarifier	[illegible]	2 hr	comp	water	N			✓							

Notes / Special Request

[illegible] charge $3.12

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
[illegible]	[illegible]	3PM			/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / / Time am/pm
	/ /				/ /			

Pink copy client Yellow copy Managers White copy Lab

ANATECH

Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	35598-3349	Matrix:	Water	/ Composite
Client Sample:	OTS012007003	Location:	Effluent @ Clarifier	
COLLECTED:	12/07/1993 :	Project:	Otsego WWTP - Analysis	
RECEIVED:	12/08/1993 11:27	Sampled By:	Thomas Dunn	

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	12/13/1993 TJ
Aroclor-1221	ND	ug/L	0.1	"	12/13/1993 TJ
Aroclor-1232	ND	ug/L	0.1	"	12/13/1993 TJ
Aroclor-1242	ND	ug/L	0.1	"	12/13/1993 TJ
Aroclor-1248	ND	ug/L	0.1	"	12/13/1993 TJ
Aroclor-1254	ND	ug/L	0.1	"	12/13/1993 TJ
Aroclor-1260	ND	ug/L	0.1	"	12/13/1993 TJ
Aroclor-1262	ND	ug/L	0.1	"	12/13/1993 TJ
Aroclor-1268	ND	ug/L	0.1	"	12/13/1993 TJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

C. David Hainer

Reported : 12/16/1993

ANATECH
Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	35789-4025	Matrix:	Water / Grab
Client Sample:	OTS-012015003	Location:	Eff @ Clarifier
COLLECTED:	12/16/1993 :	Project:	Otsego WWTP - Analysis
RECEIVED:	12/16/1993 13:03	Sampled By:	Thomas Dunn

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	12/22/1993 TJ
Aroclor-1221	ND	ug/L	0.1	"	12/22/1993 TJ
Aroclor-1232	ND	ug/L	0.1	"	12/22/1993 TJ
Aroclor-1242	ND	ug/L	0.1	"	12/22/1993 TJ
Aroclor-1248	ND	ug/L	0.1	"	12/22/1993 TJ
Aroclor-1254	ND	ug/L	0.1	"	12/22/1993 TJ
Aroclor-1260	ND	ug/L	0.1	"	12/22/1993 TJ
Aroclor-1262	ND	ug/L	0.1	"	12/22/1993 TJ
Aroclor-1268	ND	ug/L	0.1	"	12/22/1993 TJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 12/23/1993

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # [illegible]

Page [illegible] of

Name & Address	Note Please use permanent ink pen	(If same leave blank)
Results To [illegible]		Invoice To [illegible]
Telephone # [illegible]	FAX #	Telephone # [illegible]
	Fax results yes / no	

Project Name [illegible] Project # Work Authorization * [illegible]

State MI (State in which samples were collected)

Sample Containers (QTY./Size/Type/pH)		(Lab use only)	
VOA:	/ / /	O&G HCL:	/ / /
Amber:	/ / /	Bacti:	/ / /
HNO3	/ / /	:	/ / /
None:	/ / /	:	/ / /
H2SO4:	/ / /	:	/ / /

Test Methods

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Notes / Special Request

Required Completion Date	Sampled By (name)
/ /	

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	Test Methods
[illegible]								
[illegible]								
[illegible]								

Notes / Special Request: UPS shipping charge $5.8[illegible]

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
	/ /				/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / Time am/pm
	/ /				/ /			/ /

Pink copy client [illegible] copy Managers White copy Lab

ANATECH

Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	40292-0947	Matrix:	Water / Composite
Client Sample:	OTS012094004-Effluent	Location:	
COLLECTED:	01/20/1994 :	Project:	Otsego WWTP - Quarterly
RECEIVED:	01/21/1994 11:36	Sampled By:	Tom Dunn

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	01/26/1994 TJ
Aroclor-1221	ND	ug/L	0.1	"	01/26/1994 TJ
Aroclor-1232	ND	ug/L	0.1	"	01/26/1994 TJ
Aroclor-1242	ND	ug/L	0.1	"	01/26/1994 TJ
Aroclor-1248	ND	ug/L	0.1	"	01/26/1994 TJ
Aroclor-1254	ND	ug/L	0.1	"	01/26/1994 TJ
Aroclor-1260	ND	ug/L	0.1	"	01/26/1994 TJ
Aroclor-1262	ND	ug/L	0.1	"	01/26/1994 TJ
Aroclor-1268	ND	ug/L	0.1	"	01/26/1994 TJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

C. David Hainer

Reported 01/31/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization

1200 Conrad Industrial Drive, Ludington, MI 49431

Phone # 800-733-8715

Laboratory Reference # [illegible]

Page of

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To [illegible]

Telephone # [illegible] FAX # [illegible]

Fax results yes / no

Invoice To [illegible]

Telephone # [illegible]

Project Name [illegible] Project # [illegible] State [illegible] (State in which samples were collected) Work Authorization * [illegible]

Sample Containers (QTY /Size/Type/pH)		(Lab use only)	
VOA:	/ / /	O&G HCL:	/ / /
Amber:	/ / /	Bactr	/ / /
HNO3	/ / /		/ / /
None:	/ / /		/ / /
H2SO4:	/ / /		/ / /

Test Methods

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date / / — Sampled By (name)

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	Test Methods	Notes / Special Request
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
[illegible]	[illegible]	[illegible]			/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / Time am/pm
	/ /				/ /		[illegible]	/ /

Pink copy c 3r Yellow copy Managers White copy Lab

ANATECH

Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	40387-1249	Matrix:	Water	/ Composite
Client Sample:	OTS-0126001	Location:		
COLLECTED:	01/26/1994 15:00	Project:	Otsego WWTP - Weekly	
RECEIVED:	01/27/1994 10:57	Sampled By:	Thomas Dunn	

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	02/02/1994 TJ
Aroclor-1221	ND	ug/L	0.1	"	02/02/1994 TJ
Aroclor-1232	ND	ug/L	0.1	"	02/02/1994 TJ
Aroclor-1242	ND	ug/L	0.1	"	02/02/1994 TJ
Aroclor-1248	ND	ug/L	0.1	"	02/02/1994 TJ
Aroclor-1254	ND	ug/L	0.1	"	02/02/1994 TJ
Aroclor-1260	ND	ug/L	0.1	"	02/02/1994 TJ
Aroclor-1262	ND	ug/L	0.1	"	02/02/1994 TJ
Aroclor-1268	ND	ug/L	0.1	"	02/02/1994 TJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

C. David Hainer

Reported : 02/04/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # [illegible]

Page of

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To: Otsego Wtr
117 E Orleans Street
Pts [illegible], MI 49078 Attn: Thomas Dunn

Telephone # 61[illegible] 692-3391 FAX # Fax results yes / no

Invoice To: Telephone #

Project Name [illegible] Project # State [illegible] Work Authorization * 15 [illegible]
(State in which samples were collected)

Sample Containers (QTY /Size/Type/pH)		(Lab use only)	
VOA	/ / /	O&G HCL	/ / /
Amber	/ / /	Bact	/ / /
HNO3	/ / /	:	/ / /
None	/ / /	:	/ / /
H2SO4	/ / /	:	/ / /

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date / /

Sampled By (name) [illegible]

Test Methods

Lab ID	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Drinking Sample Matrix	Drinking Water Y/N	[illegible]	[illegible]	[illegible]							
[illegible]	[illegible]	[illegible]	12-14	3PM	comp	[illegible]	N			X							

Notes / Special Request

UPC Charge 3.61

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. [illegible] Cooler #
[illegible]	[illegible]	[illegible]	[illegible]		/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / / Time am/pm
	/ /				/ /			

Pink copy client, [illegible] copy Managers White copy Lab

ANATECH

Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	40863-3023	Matrix:	Water / Composite
Client Sample:	OTS-022394003	Location:	Effluent Sec Clarifier
COLLECTED:	02/23/1994 13:00	Project:	Otsego WWTP - Weekly
RECEIVED:	02/24/1994 12:30	Sampled By:	Thomas Dunn

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	03/01/1994 TJ
Aroclor-1221	ND	ug/L	0.1	"	03/01/1994 TJ
Aroclor-1232	ND	ug/L	0.1	"	03/01/1994 TJ
Aroclor-1242	ND	ug/L	0.1	"	03/01/1994 TJ
Aroclor-1248	ND	ug/L	0.1	"	03/01/1994 TJ
Aroclor-1254	ND	ug/L	0.1	"	03/01/1994 TJ
Aroclor-1260	ND	ug/L	0.1	"	03/01/1994 TJ
Aroclor-1262	ND	ug/L	0.1	"	03/01/1994 TJ
Aroclor-1268	ND	ug/L	0.1	"	03/01/1994 TJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported 03/02/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800 733 8715

Laboratory Reference # [illegible]

Page of

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To [illegible]

Telephone # [illegible] FAX # Fax results yes / no

Invoice To

Telephone #

Project Name [illegible] Project # State [illegible] (State in which samples were collected) Work Authorization * [illegible]

Sample Containers (QTY /Size/Type/pH)		(Lab use only)	
VOA:	[illegible]	O&G HCL:	[illegible]
Amber:	[illegible]	Bacti:	[illegible]
HNO3	[illegible]	:	[illegible]
None	[illegible]	:	[illegible]
H2SO4	[illegible]	:	[illegible]

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date / /

Sampled By (name) [illegible]

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	Test Methods	Notes / Special Request
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
[illegible]	[illegible]	[illegible]			/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / Time am/pm
	/ /				/ /			/ /

Pink copy [illegible]er [illegible]ellow copy Managers White copy Lab

ANATECH

Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	40769-2694	Matrix:	Water	/ Composite
Client Sample:	Secondary Clarifier	Location:		
COLLECTED:	02/17/1994 14:00	Project:	Otsego WWTP - Weekly	
RECEIVED:	02/18/1994 11:12	Sampled By:	ADM	

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	02/24/1994 TJ
Aroclor-1221	ND	ug/L	0.1	"	02/24/1994 TJ
Aroclor-1232	ND	ug/L	0.1	"	02/24/1994 TJ
Aroclor-1242	ND	ug/L	0.1	"	02/24/1994 TJ
Aroclor-1248	ND	ug/L	0.1	"	02/24/1994 TJ
Aroclor-1254	ND	ug/L	0.1	"	02/24/1994 TJ
Aroclor-1260	ND	ug/L	0.1	"	02/24/1994 TJ
Aroclor-1262	ND	ug/L	0.1	"	02/24/1994 TJ
Aroclor-1268	ND	ug/L	0.1	"	02/24/1994 TJ

ND - Non Detectable

Laboratory Manager

C. David Hainer

C. David Hainer

Reported : 02/25/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington MI 49431
Phone # 800-733-8715

Laboratory Reference # [illegible]

Page 1 of

Name & Address — Note* Please use permanent ink pen — (If same leave blank)

Results To [illegible]

Invoice To

Telephone # [illegible]

FAX #

Fax results yes / no

Telephone #

Project Name [illegible]

Project #

State [illegible] (State in which samples were collected)

Work Authorization *

Sample Containers (QTY./Size/Type/pH)		(Lab use only)	
VOA:	1 1 1	O&G HCL:	1 1 1
Amber:	[illegible]	Bact:	1 1 1
HNO3	[illegible]	:	1 1 1
None:	[illegible]	:	1 1 1
H2SO4:	1 1 1	:	1 1 1

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date / /

Sampled By (name)

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	Test Methods										Notes / Special Request
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			X										
[illegible]	[illegible]	Secondary Clarifier	[illegible]	[illegible]	[illegible]				X									
[illegible]	P.B	"	[illegible]	2:10	"					X								

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
[illegible]	[illegible]	2:30			/ /			
Relinquished by (signature)	**Date**	**Time am/pm**	**Received by (signature)**	**Relinquished by (signature)**	**Date**	**Time am/pm**	**Received for Lab by**	**Date / Time am/pm**
	/ /				/ /			

Pink copy - client Yellow copy - Managers White copy - Lab

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733 8715

Laboratory Reference # Page of

Name & Address Note Please use permanent ink pen (If same leave blank)

Results To Invoice To

Telephone # FAX # Telephone #

Fax results yes / no

Project Name Project # State Work Authorization *
(State in which samples were collected)

Sample Containers (QTY /Size/Type/pH)				(Lab use only)			
VOA				O&G HCL:			
Amber:				Bacti:			
HNO3				:			
None:				:			
H2SO4:				:			

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Notes / Special Request

Required Completion Date / /

Sampled By (name)

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Drinking Water Sample Matrix	Drinking Water Y/N	Test Methods									

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. Cooler #
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / / Time am/pm

Pink copy Cooler Yellow copy Managers White copy Lab

ANATECH
Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	41901-7206	Matrix:	Water / Composite
Client Sample:	OTS0402194003	Location:	Effluent @ Clarifier
COLLECTED:	04/21/1994 :	Project:	Otsego WWTP - Weekly
RECEIVED:	04/22/1994 10:53	Sampled By:	Tom Dunn

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	04/29/1994 JA
Aroclor-1221	ND	ug/L	0.1	"	04/29/1994 JA
Aroclor-1232	ND	ug/L	0.1	"	04/29/1994 JA
Aroclor-1242	ND	ug/L	0.1	"	04/29/1994 JA
Aroclor-1248	ND	ug/L	0.1	"	04/29/1994 JA
Aroclor-1254	ND	ug/L	0.1	"	04/29/1994 JA
Aroclor-1260	ND	ug/L	0.1	"	04/29/1994 JA
Aroclor-1262	ND	ug/L	0.1	"	04/29/1994 JA
Aroclor-1268	ND	ug/L	0.1	"	04/29/1994 JA

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 05/05/1994

ANATECH

Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	42361-9101	Matrix:	Water / Composite
Client Sample:	OTS-5173	Location:	Effluent @ Clarifier
COLLECTED:	05/17/1994 14:00	Project:	Otsego WWTP - Weekly
RECEIVED:	05/18/1994 11:19	Sampled By:	Tom Dunn

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	05/23/1994 TJ
Aroclor-1221	ND	ug/L	0.1	"	05/23/1994 TJ
Aroclor-1232	ND	ug/L	0.1	"	05/23/1994 TJ
Aroclor-1242	ND	ug/L	0.1	"	05/23/1994 TJ
Aroclor-1248	ND	ug/L	0.1	"	05/23/1994 TJ
Aroclor-1254	ND	ug/L	0.1	"	05/23/1994 TJ
Aroclor-1260	ND	ug/L	0.1	"	05/23/1994 TJ
Aroclor-1262	ND	ug/L	0.1	"	05/23/1994 TJ
Aroclor-1268	ND	ug/L	0.1	"	05/23/1994 TJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 05/25/1994

ANATECH
Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	42361-9101	Matrix:	Water	/ Composite
Client Sample:	OTS-5173	Location:	Effluent @ Clarifier	
COLLECTED:	05/17/1994 14:00	Project:	Otsego WWTP - Weekly	
RECEIVED:	05/18/1994 11:19	Sampled By:	Tom Dunn	

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	05/23/1994 TJ
Aroclor-1221	ND	ug/L	0.1	"	05/23/1994 TJ
Aroclor-1232	ND	ug/L	0.1	"	05/23/1994 TJ
Aroclor-1242	ND	ug/L	0.1	"	05/23/1994 TJ
Aroclor-1248	ND	ug/L	0.1	"	05/23/1994 TJ
Aroclor-1254	ND	ug/L	0.1	"	05/23/1994 TJ
Aroclor-1260	ND	ug/L	0.1	"	05/23/1994 TJ
Aroclor-1262	ND	ug/L	0.1	"	05/23/1994 TJ
Aroclor-1268	ND	ug/L	0.1	"	05/23/1994 TJ

ND - Non Detectable

Laboratory Manager

C. David Hainer

Reported : 05/25/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # [illegible]

Page of

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To [illegible]
[illegible]
[illegible], MI 49078 [illegible] Thomas Dunn
Telephone # 616 [illegible]
FAX #
Fax results yes / no

Invoice To [illegible]
[illegible]
[illegible]
Telephone # 616 [illegible]-3391

Project Name [illegible] Project # State MI (State in which samples were collected) Work Authorization * 1545

Sample Containers (QTY /Size/Type/pH)		(Lab use only)	
VOA	/ / /	O&G HCL:	/ / /
Amber:	/ / /	Bacti:	/ / /
HNO3	/ / /	:	/ / /
None:	/ / /	:	/ / /
H2SO4:	/ / /	:	/ / /

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date / /

Sampled By (name)

Test Methods

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	[illegible]	[illegible]	[illegible]							
[illegible]	[illegible]	[illegible]	[illegible]	2PM	[illegible]	[illegible]	N										
[illegible]	[illegible]	[illegible]	[illegible]	3PM	[illegible]	[illegible]	N										
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N										

Notes / Special Request

[illegible]

$3.90

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. [illegible]
[illegible]	3/[illegible]	3PM			/ /			Cooler #
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / / Time am/pm
	/ /				/ /		[illegible]	

Pink copy client Yellow copy Managers White copy Lab

ANATECH

Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	41148-4055	Matrix:	Water / Composite
Client Sample:	OTS031094003	Location:	Secondary Clarifier
COLLECTED:	03/10/1994 14:00	Project:	Otsego WWTP - Weekly
RECEIVED:	03/11/1994 13:13	Sampled By:	TM

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	03/16/1994 TJ
Aroclor-1221	ND	ug/L	0 1	"	03/16/1994 TJ
Aroclor-1232	ND	ug/L	0.1	"	03/16/1994 TJ
Aroclor-1242	ND	ug/L	0.1	"	03/16/1994 TJ
Aroclor-1248	ND	ug/L	0.1	"	03/16/1994 TJ
Aroclor-1254	ND	ug/L	0.1	"	03/16/1994 TJ
Aroclor-1260	ND	ug/L	0.1	"	03/16/1994 TJ
Aroclor-1262	ND	ug/L	0.1	"	03/16/1994 TJ
Aroclor-1268	ND	ug/L	0.1	"	03/16/1994 TJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported 03/17/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # [illegible]

Page 1 of

Name & Address — Note: Please use permanent ink pen — (If same leave blank)

Results To: Ottawa WTP
210 N. Grant
Saugatuck, MI 49078 Attn: Thomas Dunn
Telephone # 616-694-9194 FAX # Fax results: yes / no

Invoice To:
Telephone #

Project Name [illegible] Project # State MI (State in which samples were collected) Work Authorization *

Sample Containers (QTY/Size/Type/pH)				(Lab use only)			
VOA:	1	1	1	O&G HCL:	1	1	1
Amber:	1	1	1	Bacti:	1	1	1
HNO3	1	1	1	:	1	1	1
None:	1	1	1	:	1	1	1
H2SO4:	1	1	1	:	1	1	1

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form.

Required Completion Date / /

Sampled By (name) [illegible]

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp. or grab	Drinking Water Sample Matrix	Drinking Water Y/N	Test Methods: Pure Chem. [illegible]	Carrier [illegible]	PCBs 608							
[illegible]	OT-031094001	[illegible]	3-10-94	2:00	grab		N	X									
[illegible]	OT-031094002	Secondary Clar	3-10-94	2:00	grab		N		X								
[illegible]	OT-031094003	Secondary Clar	3-10-94	2:00	Comp		N			X							

Notes / Special Request

OPC Charge $4.25

Relinquished by: (signature)	Date	Time am/pm	Received by: (signature)	Relinquished by: (signature)	Date	Time am/pm	Received by: (signature)	Cooler Temp. / Cooler #
[illegible]	3/14/94	2:00			/ /			
Relinquished by: (signature)	Date	Time am/pm	Received by: (signature)	Relinquished by: (signature)	Date	Time am/pm	Received for Lab by:	Date / Time am/pm
	/ /				/ /		[illegible]	3/14/94

Pink copy - client Y[illegible]w copy - Managers White copy - Lab

ANATECH

Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	41240-4629	Matrix:	Water / Composite
Client Sample:	OTS031694-1	Location:	Eff @ Secondary Clarifier
COLLECTED:	03/16/1994 14:00	Project:	Otsego WWTP - Weekly
RECEIVED:	03/17/1994 12:27	Sampled By:	TM

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	03/22/1994 TJ
Aroclor-1221	ND	ug/L	0.1	"	03/22/1994 TJ
Aroclor-1232	ND	ug/L	0.1	"	03/22/1994 TJ
Aroclor-1242	ND	ug/L	0.1	"	03/22/1994 TJ
Aroclor-1248	ND	ug/L	0.1	"	03/22/1994 TJ
Aroclor-1254	ND	ug/L	0.1	"	03/22/1994 TJ
Aroclor-1260	ND	ug/L	0.1	"	03/22/1994 TJ
Aroclor-1262	ND	ug/L	0.1	"	03/22/1994 TJ
Aroclor-1268	ND	ug/L	0.1	"	03/22/1994 TJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 03/23/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # [illegible]

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To [illegible]
[illegible]
[illegible] Thomas [illegible]
Telephone # 616 [illegible] 9194 — FAX # — Fax results yes / no

Invoice To
Telephone #

Project Name Weekly — Project # — State MT (State in which samples were collected) — Work Authorization *

Sample Containers (QTY./Size/Type/pH)		(Lab use only)	
VOA:	/ / /	O&G HCL:	/ / /
Amber:	[illegible]	Bact:	/ / /
HNO3	[illegible]	:	/ / /
None:	[illegible]	:	/ / /
H2SO4:	/ / /	:	/ / /

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date / / — Sampled By (name)

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	Test Methods										Notes / Special Request
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				X								
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	X	[redacted]									[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[redacted]	X									[illegible]

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. [illegible] Cooler #
[illegible]	[illegible]	[illegible]			/ /			
Relinquished by (signature)	**Date**	**Time am/pm**	**Received by (signature)**	**Relinquished by (signature)**	**Date**	**Time am/pm**	**Received for Lab by**	**Date / Time am/pm**
	/ /				/ /			/ /

Pink copy client ow copy Managers White copy Lab

ANATECH
Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	41776-6611	Matrix:	Water	/ Composite	
Client Sample:	Eff. Clarifier	Location:			
COLLECTED:	04/14/1994 :	Project:	Otsego WWTP - Weekly		
RECEIVED:	04/15/1994 08:50	Sampled By:	Thomas Dunn		

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.2	EPA 608	04/25/1994 JA
Aroclor-1221	ND	ug/L	0.2	"	04/25/1994 JA
Aroclor-1232	ND	ug/L	0.4	"	04/25/1994 JA
Aroclor-1242	ND	ug/L	0.2	"	04/25/1994 JA
Aroclor-1248	ND	ug/L	0.2	"	04/25/1994 JA
Aroclor-1254	ND	ug/L	0.2	"	04/25/1994 JA
Aroclor-1260	ND	ug/L	0.2	"	04/25/1994 JA
Aroclor-1262	ND	ug/L	0.2	"	04/25/1994 JA
Aroclor-1268	ND	ug/L	0.2	"	04/25/1994 JA

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 04/28/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # 41776 Page 1 of 1

Name & Address — Note: Please use permanent ink pen — (If same leave blank)

Results To: [illegible] WWTP
10[illegible] Grant Street
Otsego, MI 49078 Attn. Thomas Dunn
Telephone # 616 694-9194 FAX #
Fax results yes / no

Invoice To: City of Otsego
117 E. Orleans St
Otsego MI 49078
Telephone # 1-616 692-3391

Project Name [illegible] Project # State [illegible] Work Authorization * [illegible]
(State in which samples were collected)

Sample Containers (QTY./Size/Type/pH) (Lab use only)

VOA:	/ / /	O&G HCL:	/ / /
Amber:	[illegible]	Bacti:	/ / /
HNO3	[illegible]	:	/ / /
None:	[illegible]	:	/ / /
H2SO4:	/ / /	:	/ / /

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date / / Sampled By (name)

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Drinking Sample Matrix	Drinking Water Y/N	[illegible]	Copper	Pebs							
6660	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N	✓									
6610	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N		✓								
6611	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N			✓							

Notes / Special Request

OPS 4.03

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. 4.6 Cooler #
[illegible]	11/11/94	3PM			/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / Time am/pm
	/ /				/ /		[illegible]	11/11/94 [illegible]

Pink copy client Yellow copy Managers White copy Lab

ANATECH
Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	42564-9961	Matrix:	Water / Composite
Client Sample:	OTS0526003	Location:	Plant Eff Clarifier
COLLECTED:	05/26/1994 15:00	Project:	Otsego WWTP - Weekly
RECEIVED:	05/27/1994 12:41	Sampled By:	Tony Misze

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	06/02/1994 TJ
Aroclor-1221	ND	ug/L	0.1	"	06/02/1994 TJ
Aroclor-1232	ND	ug/L	0.1	"	06/02/1994 TJ
Aroclor-1242	ND	ug/L	0.1	"	06/02/1994 TJ
Aroclor-1248	ND	ug/L	0.1	"	06/02/1994 TJ
Aroclor-1254	ND	ug/L	0.1	"	06/02/1994 TJ
Aroclor-1260	ND	ug/L	0.1	"	06/02/1994 TJ
Aroclor-1262	ND	ug/L	0.1	"	06/02/1994 TJ
Aroclor-1268	ND	ug/L	0.1	"	06/02/1994 TJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 06/03/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # 43524

Page 1 of 1

Name & Address — Note: Please use permanent ink pen — (If same leave blank)

Results To: Otsego WWTP
210 N Grant
Otsego MI 49078 Attn: Thomas Dunn

Invoice To:

Telephone # 616-694-9194 — FAX # — Telephone #

Fax results: yes / no

Project Name [illegible] Monthly — Project # — State MI Work Authorization * (State in which samples were collected)

Sample Containers: (QTY./Size/Type/pH) (Lab use only)

VOA:	/ / /	O&G HCL:	/ / /
Amber:	/ / /	Bacti:	/ / /
HNO3:	/ / /	:	/ / /
None:	/ / /	:	/ / /
H2SO4:	/ / /	:	/ / /

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form.

Required Completion Date: / /

Sampled By (name): Tony Wisze

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp. or grab	Sample Matrix	Drinking Water Y/N	Test Methods									
[illegible]	OTS0526001	Outfall EFF	5-26	3:00pm	Grab	water	N	✓									
[illegible]	OTS0526002	EFF Clarifier	5-26	3:00pm	Grab	water	N		✓								
[illegible]	OTS0526003	Plant EFF ~~Sampler~~ Clarifier	5-26	3:00pm	Comp	water	N			✓							

Notes / Special Request

UPS Charge $3.92

Relinquished by: (signature)	Date	Time am/pm	Received by: (signature)	Relinquished by: (signature)	Date	Time am/pm	Received by: (signature)	Cooler Temp. / Cooler #
[illegible]	5/26/94	3:15pm			/ /			
Relinquished by: (signature)	Date	Time am/pm	Received by: (signature)	Relinquished by: (signature)	Date	Time am/pm	Received for Lab by:	Date / Time am/pm
	/ /				/ /			[illegible]

Pink copy - client Yellow copy - Managers White copy - Lab

ANATECH
Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	42823-1042	Matrix:	Water	/ Composite
Client Sample:	OTS-0609103	Location:	Eff @ Clarifer	
COLLECTED:	06/09/1994 14:00	Project:	Otsego WWTP - Weekly	
RECEIVED:	06/10/1994 11:22	Sampled By:	Thomas Dunn	

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	06/16/1994 TJ
Aroclor-1221	ND	ug/L	0.1	"	06/16/1994 TJ
Aroclor-1232	ND	ug/L	0.1	"	06/16/1994 TJ
Aroclor-1242	ND	ug/L	0.1	"	06/16/1994 TJ
Aroclor-1248	ND	ug/L	0.1	"	06/16/1994 TJ
Aroclor-1254	ND	ug/L	0.1	"	06/16/1994 TJ
Aroclor-1260	ND	ug/L	0.1	"	06/16/1994 TJ
Aroclor-1262	ND	ug/L	0.1	"	06/16/1994 TJ
Aroclor-1268	ND	ug/L	0.1	"	06/16/1994 TJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 06/17/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733 8715

Laboratory Reference # [illegible]

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To [illegible]
[illegible]
[illegible] MI 49078 Attn. Thomas Dunn
Telephone # [illegible] FAX #
Fax results yes / no

Invoice To City of Otsego
117 E. Orleans St
Otsego MI 49078
Telephone # 616-692 3391

Project Name [illegible] Project # State MI (State in which samples were collected) Work Authorization * 13545

Sample Containers (QTY /Size/Type/pH)		(Lab use only)	
VOA	1 1 1	O&G HCL:	1 1 1
Amber:	1 1 1	Bacti:	1 1 1
HNO3	1 1 1	:	1 1 1
None:	1 1 1	:	1 1 1
H2SO4:	1 1 1	:	1 1 1

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date / /
Sampled By (name)

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Drinking Water Sample Matrix	Drinking Water Y/N	Test Methods: Coliform	Fecal Coliform	Fecal Strep							
7848	[illegible]	[illegible]	[illegible]	[illegible]	grab	water	[illegible]	✓									
7841	[illegible]	[illegible]	[illegible]	[illegible]	grab	water	[illegible]		✓								
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	water	[illegible]			✓							

Notes / Special Request
[illegible]
$4.03

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. [illegible] Cooler #
[illegible]	/ /				/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / / Time am/pm
	/ /				/ /			

Pink copy Client Yellow copy Managers White copy Lab

ANATECH
Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	42956-1547	Matrix:	Water / Composite
Client Sample:	OTS-06159403	Location:	Eff @ Secondary
COLLECTED:	06/15/1994 14:00	Project:	Otsego WWTP - Weekly
RECEIVED:	06/16/1994 14:16	Sampled By:	Thomas Dunn

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	06/22/1994 TJ
Aroclor-1221	ND	ug/L	0.1	"	06/22/1994 TJ
Aroclor-1232	ND	ug/L	0.1	"	06/22/1994 TJ
Aroclor-1242	ND	ug/L	0.1	"	06/22/1994 TJ
Aroclor-1248	ND	ug/L	0.1	"	06/22/1994 TJ
Aroclor-1254	ND	ug/L	0.1	"	06/22/1994 TJ
Aroclor-1260	ND	ug/L	0 1	"	06/22/1994 TJ
Aroclor-1262	ND	ug/L	0.1	"	06/22/1994 TJ
Aroclor-1268	ND	ug/L	0.1	"	06/22/1994 TJ

ND - Non Detectable

Laboratory Manager

C. David Hainer

Reported : 06/29/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # 42956 Page , of

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To: Otsego WWTP
210 N Grant
Otsego, MI 49078 Attn. Thomas Dunn
Telephone # 616 694-2194 FAX # Fax results yes / no

Invoice To: [illegible] Otsego
[illegible]
Otsego MI 49078
Telephone # 616 692 3391

Project Name: [illegible] Project # State: MI (State in which samples were collected) Work Authorization * #1075

Sample Containers (QTY./Size/Type/pH)		(Lab use only)	
VOA	/ / /	O&G HCL:	/ / /
Amber:	/ / /	Bact:	/ / /
HNO3	/ / /	:	/ / /
None:	/ / /	:	/ / /
H2SO4:	/ / /	:	/ / /

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date / / Sampled By (name)

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	Test Methods										Notes / Special Request
1545	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]										
1546	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]									[illegible]
1547	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]								[illegible]

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
[illegible]	[illegible]				/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / / Time am/pm
	/ /				/ /			

Pink copy client Yellow copy Managers White copy Lab

ANATECH
Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	43086-2058	Matrix:	Water	/ Composite
Client Sample:	OTS0622003	Location:	Eff @ Clarifier	
COLLECTED:	06/22/1994 12:00	Project:	Otsego WWTP - Weekly	
RECEIVED:	06/23/1994 12:14	Sampled By:	Thomas Dunn	

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	06/30/1994 SRO
Aroclor-1221	ND	ug/L	0.1	"	06/30/1994 SRO
Aroclor-1232	ND	ug/L	0.1	"	06/30/1994 SRO
Aroclor-1242	ND	ug/L	0.1	"	06/30/1994 SRO
Aroclor-1248	ND	ug/L	0.1	"	06/30/1994 SRO
Aroclor-1254	ND	ug/L	0.1	"	06/30/1994 SRO
Aroclor-1260	ND	ug/L	0.1	"	06/30/1994 SRO
Aroclor-1262	ND	ug/L	0.1	"	06/30/1994 SRO
Aroclor-1268	ND	ug/L	0.1	"	06/30/1994 SRO

ND - Non Detectable

Laboratory Manager

C. David Hainer

Reported : 07/07/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # [illegible] Page [illegible] of

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To [illegible]
[illegible]
[illegible]
Telephone # [illegible] FAX # [illegible]
Fax results yes / no

Invoice To [illegible]
[illegible]
Otsego MI [illegible]
Telephone # 1-616 672 3311

Project Name [illegible] Project # [illegible] State MI (State in which samples were collected) Work Authorization * [illegible]

Sample Containers (QTY./Size/Type/pH)				(Lab use only)			
VOA	1	1	1	O&G HCL:	1	1	1
Amber:	1	1	1	Bacti:	1	1	1
HNO3	1	1	1	:	1	1	1
None:	1	1	1	:	1	1	1
H2SO4:	1	1	1	:	1	1	1

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form.

Required Completion Date / /
Sampled By (name)

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	[illegible]	[illegible]	[illegible]								Notes / Special Request
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N	✓										[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N		✓									[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	water	[illegible]			✓								[illegible]

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
[illegible]	[illegible]	[illegible]			/ /			
Relinquished by (signature)	**Date**	**Time am/pm**	**Received by (signature)**	**Relinquished by (signature)**	**Date**	**Time am/pm**	**Received for Lab by**	**Date / Time am/pm**
	/ /				/ /			/ /

Pink copy client Yellow copy Managers White copy Lab

ANATECH
Analytical Laboratories
FAX: 616-845-9942
616-843-1877

Otsego Wastewater Treatment Plant

Sample:	43441-3548	Matrix:	Water	/ Composite
Client Sample:	OTS-0712003	Location:	Eff @ Clarifier	
COLLECTED:	07/12/1994 12:00	Project:	Otsego WWTP - Weekly	
RECEIVED:	07/13/1994 11:09	Sampled By:	Thomas Dunn	

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	07/22/1994 SRO
Aroclor-1221	ND	ug/L	0.1	"	07/22/1994 SRO
Aroclor-1232	ND	ug/L	0.1	"	07/22/1994 SRO
Aroclor-1242	ND	ug/L	0.1	"	07/22/1994 SRO
Aroclor-1248	ND	ug/L	0.1	"	07/22/1994 SRO
Aroclor-1254	ND	ug/L	0.1	"	07/22/1994 SRO
Aroclor-1260	ND	ug/L	0.1	"	07/22/1994 SRO
Aroclor-1262	ND	ug/L	0.1	"	07/22/1994 SRO
Aroclor-1268	ND	ug/L	0.1	"	07/22/1994 SRO

ND - Non Detectable

Laboratory Manager

C. David Hainer

Reported : 07/26/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # [illegible]

Page 1 of 1

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To [illegible]
[illegible]
[illegible]
Telephone # [illegible] FAX # [illegible]
Fax results yes / no

Invoice To [illegible]
[illegible]
[illegible]
Telephone # [illegible]

Project Name [illegible] Project # ____ State MI (State in which samples were collected) Work Authorization * [illegible]

Sample Containers (QTY./Size/Type/pH)				(Lab use only)			
VOA:	/	/	/	O&G HCL:	/	/	/
Amber:	/	/	/	Bact:	/	/	/
HNO3	/	/	/	:	/	/	/
None:	/	/	/	:	/	/	/
H2SO4:	/	/	/	:	/	/	/

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date / /

Sampled By (name)

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	Test Methods										Notes / Special Request
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]										[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]									Charge
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]								$4.25

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
[illegible]	[illegible]	[illegible]			/ /			

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date	Time am/pm
	/ /				/ /			/ /	

Copy client Yellow copy Managers White copy Lab

ANATECH

Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	43569-4042	Matrix:	Water	/ Composite
Client Sample:	OTS0720003	Location:	Eff @ Clarifier	
COLLECTED:	07/20/1994 14:00	Project:	Otsego WWTP - Weekly	
RECEIVED:	07/21/1994 11:13	Sampled By:	TD	

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	07/27/1994 SRO
Aroclor-1221	ND	ug/L	0.1	"	07/27/1994 SRO
Aroclor-1232	ND	ug/L	0.1	"	07/27/1994 SRO
Aroclor-1242	ND	ug/L	0.1	"	07/27/1994 SRO
Aroclor-1248	ND	ug/L	0.1	"	07/27/1994 SRO
Aroclor-1254	ND	ug/L	0.1	"	07/27/1994 SRO
Aroclor-1260	ND	ug/L	0.1	"	07/27/1994 SRO
Aroclor-1262	ND	ug/L	0.1	"	07/27/1994 SRO
Aroclor-1268	ND	ug/L	0.1	"	07/27/1994 SRO

ND - Non Detectable

Laboratory Manager

C. David Hainer

Reported : 08/03/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # [illegible] Page of

Name & Address Note Please use permanent ink pen (If same leave blank)

Results To Otsego WWTP
10 N Grant
Otsego, MI 49078 Attn Thomas Dunn

Invoice To

Telephone # 616-694-9194 FAX # Telephone #

Fax results yes / no

Project Name Bi-Monthly Project # State MI Work Authorization *
(State in which samples were collected)

Sample Containers (QTY /Size/Type/pH) (Lab use only)

VOA	/ / /	O&G HCL:	/ / /
Amber	/ / /	Bact:	/ / /
HNO3	/ / /	:	/ / /
None	/ / /	:	/ / /
H2SO4:	/ / /	:	/ / /

Test Methods

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Notes / Special Request

Required Completion Date / / Sampled By (name)

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
	/ /				/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / / Time am/pm
	/ /				/ /			

Pink copy client Yellow copy Managers White copy Lab

ANATECH
Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	44013-5724	Matrix:	Water / Composite
Client Sample:	OTS0811003	Location:	Effluent From Clarifier
COLLECTED:	08/11/1994 12:00	Project:	Otsego WWTP - Weekly
RECEIVED:	08/12/1994 11:52	Sampled By:	Tom Dunn

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	08/18/1994 SRO
Aroclor-1221	ND	ug/L	0.1	"	08/18/1994 SRO
Aroclor-1232	ND	ug/L	0.1	"	08/18/1994 SRO
Aroclor-1242	ND	ug/L	0.1	"	08/18/1994 SRO
Aroclor-1248	ND	ug/L	0.1	"	08/18/1994 SRO
Aroclor-1254	ND	ug/L	0.1	"	08/18/1994 SRO
Aroclor-1260	ND	ug/L	0.1	"	08/18/1994 SRO
Aroclor-1262	ND	ug/L	0.1	"	08/18/1994 SRO
Aroclor-1268	ND	ug/L	0.1	"	08/18/1994 SRO

ND - Non Detectable

Laboratory Manager

C. David Hainer

Reported : 08/23/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # [illegible]

Page 1 of 1

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To: Osego WWTP
[illegible] N Grant
Osego, MI 49076 Attn: Thomas Dun[illegible]

Invoice To: [illegible]

Telephone # 616-694-9194 — FAX # [illegible] — Telephone # [illegible]

Fax results yes / no

Project Name: [illegible] — Project # — State: MI (State in which samples were collected) — Work Authorization *: [illegible]

Sample Containers (QTY./Size/Type/pH)		(Lab use only)	
VOA:	/ / /	O&G HCL:	/ / /
Amber:	/ / /	Bacti:	/ / /
HNO3	/ / /	:	/ / /
None:	/ / /	:	/ / /
H2SO4:	/ / /	:	/ / /

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date: / /

Sampled By (name):

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Drinking Sample Matrix	Drinking Water Y/N	Test Methods										Notes / Special Request
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]										[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]									[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]			[illegible]								

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
	[illegible]	[illegible]			/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / Time am/pm
	/ /				/ /			/ /

Pink copy client ow copy Managers White copy - Lab

ANATECH
Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	44092-6115	Matrix:	Water / Composite
Client Sample:	OTS-0817003	Location:	Effluent @ Clarifier
COLLECTED:	08/17/1994 12:00	Project:	Otsego WWTP - Weekly
RECEIVED:	08/18/1994 12:06	Sampled By:	Thomas Dunn

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	08/28/1994 TJ
Aroclor-1221	ND	ug/L	0.1	"	08/28/1994 TJ
Aroclor-1232	ND	ug/L	0.1	"	08/28/1994 TJ
Aroclor-1242	ND	ug/L	0.1	"	08/28/1994 TJ
Aroclor-1248	ND	ug/L	0.1	"	08/28/1994 TJ
Aroclor-1254	ND	ug/L	0.1	"	08/28/1994 TJ
Aroclor-1260	ND	ug/L	0.1	"	08/28/1994 TJ
Aroclor-1262	ND	ug/L	0.1	"	08/28/1994 TJ
Aroclor-1268	ND	ug/L	0.1	"	08/28/1994 TJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 08/31/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800 733 8715

Laboratory Reference # [illegible]

Page 1 of 1

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To: [illegible] WTP
[illegible]
Otsego MI 49078 [illegible] Thomas Dunn
Telephone # 616 694 9154 — FAX # 692-2639
Fax results yes / no

Invoice To: City of Otsego
[illegible] Orleans ST
Otsego MI 49078
Telephone # 692 [illegible]

Project Name [illegible] — Project # — State MI (State in which samples were collected) — Work Authorization * 1545

Sample Containers (QTY./Size/Type/pH) (Lab use only)

VOA:	/ / /	O&G HCL:	/ / /
Amber:	/ / /	Bacti:	/ / /
HNO3	/ / /	:	/ / /
None:	/ / /	:	/ / /
H2SO4:	/ / /	:	/ / /

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date / / — Sampled By (name)

Test Methods

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Drinking Sample Matrix	Drinking Water Y/N	Copper	[illegible]	PCBs							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	✓									
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		✓								
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			✓							

Notes / Special Request

UPS $4.14

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
[illegible]	[illegible]	[illegible]			/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / / Time am/pm
	/ /				/ /			

Pink copy client [illegible] w copy Managers White copy - Lab

ANATECH

Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	44532-7886	Matrix:	Water	/ Composite
Client Sample:	OTS0908003	Location:	Eff @ Clarifier	
COLLECTED:	09/08/1994 :	Project:	Otsego WWTP - Weekly	
RECEIVED:	09/09/1994 14:24	Sampled By:	T Dunn	

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	09/16/1994 SRO
Aroclor-1221	ND	ug/L	0.1	"	09/16/1994 SRO
Aroclor-1232	ND	ug/L	0.1	"	09/16/1994 SRO
Aroclor-1242	ND	ug/L	0.1	"	09/16/1994 SRO
Aroclor-1248	ND	ug/L	0.1	"	09/16/1994 SRO
Aroclor-1254	ND	ug/L	0.1	"	09/16/1994 SRO
Aroclor-1260	ND	ug/L	0.1	"	09/16/1994 SRO
Aroclor-1262	ND	ug/L	0.1	"	09/16/1994 SRO
Aroclor-1268	ND	ug/L	0.1	"	09/16/1994 SRO

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 09/20/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # [illegible]

Page 1 of 1

Name & Address — Note Please use permanent ink pen

Results To [illegible]

Telephone # [illegible] FAX # [illegible]
Fax results yes / no

Invoice To [illegible] (If same leave blank)

Telephone # [illegible]

Project Name _____ Project # _____ State [illegible] (State in which samples were collected) Work Authorization * [illegible]

Sample Containers (QTY./Size/Type/pH)				(Lab use only)			
VOA:	1	1	1	O&G HCL:	1	1	1
Amber:	1	1	1	Bacti:	1	1	1
HNO3	1	1	1	:	1	1	1
None:	1	1	1	:	1	1	1
H2SO4:	1	1	1	:	1	1	1

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date / /

Sampled By (name)

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	Test Methods										Notes / Special Request
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		✓										[illegible]
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			✓									1392
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				✓								Please
																		Rush

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. [illegible]
[illegible]	[illegible]	[illegible]			/ /			Cooler # [illegible]

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date	Time am/pm
	/ /				/ /		[illegible]	[illegible]	

Pink copy client Yellow copy Managers White copy Lab

ANATECH
Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	44832-9127	Matrix:	Water / Composite
Client Sample:	OTS-0922003	Location:	Eff @ Secondary
COLLECTED:	09/22/1994 12:00	Project:	Otsego WWTP - Weekly
RECEIVED:	09/23/1994 11:59	Sampled By:	T Dunn

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.2	EPA 608	10/01/1994 SRO
Aroclor-1221	ND	ug/L	0.2	"	10/01/1994 SRO
Aroclor-1232	ND	ug/L	0.2	"	10/01/1994 SRO
Aroclor-1242	ND	ug/L	0.2	"	10/01/1994 SRO
Aroclor-1248	ND	ug/L	0.2	"	10/01/1994 SRO
Aroclor-1254	ND	ug/L	0.2	"	10/01/1994 SRO
Aroclor-1260	ND	ug/L	0.2	"	10/01/1994 SRO
Aroclor-1262	ND	ug/L	0.2	"	10/01/1994 SRO
Aroclor-1268	ND	ug/L	0.2	"	10/01/1994 SRO

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported · 10/06/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # [illegible]

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To [illegible]

Telephone # [illegible] FAX # Fax results yes / no

Invoice To [illegible]

Telephone # 616 612 3391

Project Name [illegible] Project # State [illegible] (State in which samples were collected) Work Authorization * [illegible]

Sample Containers (QTY./Size/Type/pH)				(Lab use only)			
VOA:	1	1	1	O&G HCL:	1	1	1
Amber:	1	1	1	Bact:	1	1	1
HNO3	1	1	1	:	1	1	1
None:	1	1	1	:	1	1	1
H2SO4:	1	1	1	:	1	1	1

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date / /

Sampled By (name)

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Drinking Sample Matrix	Drinking Water Y/N	Test Methods									Notes / Special Request
[illegible]	[illegible]	[illegible]	[illegible]	2PM	grab	W	N	✓									UPS
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	W	N		✓								
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	W	N			✓							4:28

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
[illegible]	[illegible]	[illegible]			/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / Time am/pm
	/ /				/ /		[illegible]	[illegible]

Pink copy client, Yellow copy Managers White copy Lab

ANATECH
Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	45127-0444	Matrix:	Water	/ Composite
Client Sample:	OTSE105003	Location:	Sec Clarifier	
COLLECTED:	10/06/1994 14:00	Project:	Otsego WWTP - Weekly	
RECEIVED:	10/07/1994 11:52	Sampled By:	Tony Misze	

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	10/13/1994 SRO
Aroclor-1221	ND	ug/L	0.1	"	10/13/1994 SRO
Aroclor-1232	ND	ug/L	0.1	"	10/13/1994 SRO
Aroclor-1242	ND	ug/L	0.1	"	10/13/1994 SRO
Aroclor-1248	ND	ug/L	0.1	"	10/13/1994 SRO
Aroclor-1254	ND	ug/L	0.1	"	10/13/1994 SRO
Aroclor-1260	ND	ug/L	0.1	"	10/13/1994 SRO
Aroclor-1262	ND	ug/L	0.1	"	10/13/1994 SRO
Aroclor-1268	ND	ug/L	0.1	"	10/13/1994 SRO

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 10/19/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington MI 49431
Phone # 800-733-8715

Laboratory Reference # [illegible]

Page 1 of

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To: Otsego LWTP
30 N Grant
Otsego, MI 49078 Attn: Thomas Dunn

Telephone # 616 694-9194 FAX # Fax results yes / no

Invoice To:

Telephone #

Project Name: [illegible] Project #: State: MI (State in which samples were collected) Work Authorization *

Sample Containers (QTY/Size/Type/pH)		(Lab use only)	
VOA	/ / /	O&G HCL:	/ / /
Amber	/ / /	Bacti:	/ / /
HNO3	/ / /	:	/ / /
None:	/ / /	:	/ / /
H2SO4:	/ / /	:	/ / /

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form

Required Completion Date: / /

Sampled By (name): [illegible]

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	Test Methods										
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]											
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		X									
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			X								

Notes / Special Request: [illegible]

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. [illegible] Cooler # [illegible]
[illegible]	[illegible]	[illegible]			/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / / Time am/pm
	/ /				/ /			

Pink copy client Yellow copy Managers White copy Lab

ANATECH
Analytical Laboratories

Otsego Wastewater Treatment Plant

Sample:	45591-2425	Matrix:	Water / Composite
Client Sample:	OTSE1027003	Location:	Secondary Clarifier
COLLECTED:	10/27/1994 14:00	Project:	Otsego WWTP - Weekly
RECEIVED:	10/28/1994 12:33	Sampled By:	Tony Misze

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	11/04/1994 SRO
Aroclor-1221	ND	ug/L	0.1	"	11/04/1994 SRO
Aroclor-1232	ND	ug/L	0.1	"	11/04/1994 SRO
Aroclor-1242	ND	ug/L	0.1	"	11/04/1994 SRO
Aroclor-1248	ND	ug/L	0.1	"	11/04/1994 SRO
Aroclor-1254	ND	ug/L	0.1	"	11/04/1994 SRO
Aroclor-1260	ND	ug/L	0.1	"	11/04/1994 SRO
Aroclor-1262	ND	ug/L	0.1	"	11/04/1994 SRO
Aroclor-1268	ND	ug/L	0.1	"	11/04/1994 SRO

ND - Non Detectable

Laboratory Manager

C. David Hainer

Reported : 11/09/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # [illegible]

Page 1 of 1

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To [illegible]
[illegible]
[illegible]
Telephone # [illegible]
FAX # 616-692-2643
Fax results yes / no

Invoice To
Telephone #

Project Name [illegible]
Project #
State MI (State in which samples were collected)
Work Authorization * [illegible]

Sample Containers (QTY./Size/Type/pH)				(Lab use only)			
VOA:	1	1	1	O&G HCL:	1	1	1
Amber:	1	1	1	Bact:	1	1	1
HNO3	1	1	1	:	1	1	1
None:	1	1	1	:	1	1	1
H2SO4:	1	1	1	:	1	1	1

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date / /
Sampled By (name) [illegible]

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	[illegible]	[illegible]	[illegible]							
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	X									
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N		X								
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			X							

Notes / Special Request
[illegible]

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
[illegible]	[illegible]	[illegible]			/ /			

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date	Time am/pm
	/ /				/ /			[illegible]	

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Ludington, Michigan 49431
616-843-1877
FAX 616-845-9942

ANATECH Laboratories

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Services Inc

Otsego Wastewater Treatment Plant

Sample:	46070-4676	Matrix:	Water / Composite
Client Sample:	OTSE111703	Location:	Secondary Clarifier
COLLECTED:	11/17/1994 14:00	Project:	Otsego WWTP - Weekly
RECEIVED:	11/18/1994 11:00	Sampled By:	Tony Misze

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	11/23/1994 SRO
Aroclor-1221	ND	ug/L	0.1	"	11/23/1994 SRO
Aroclor-1232	ND	ug/L	0.1	"	11/23/1994 SRO
Aroclor-1242	ND	ug/L	0.1	"	11/23/1994 SRO
Aroclor-1248	ND	ug/L	0.1	"	11/23/1994 SRO
Aroclor-1254	ND	ug/L	0.1	"	11/23/1994 SRO
Aroclor-1260	ND	ug/L	0.1	"	11/23/1994 SRO
Aroclor-1262	ND	ug/L	0.1	"	11/23/1994 SRO
Aroclor-1268	ND	ug/L	0.1	"	11/23/1994 SRO

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 12/06/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # [illegible]

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To [illegible]

Telephone # [illegible] FAX # _____ Fax results yes / no

Invoice To _____

Telephone # _____

Project Name _____ Project # _____ State [illegible] (State in which samples were collected) Work Authorization * _____

Sample Containers (QTY./Size/Type/pH)		(Lab use only)	
VOA:	/ / /	O&G HCL:	/ / /
Amber:	/ / /	Bacti:	/ / /
HNO3	/ / /	:	/ / /
None:	/ / /	:	/ / /
H2SO4:	/ / /	:	/ / /

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date / /

Sampled By (name) [illegible]

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	Test Methods										Notes / Special Request
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Comp	[illegible]	N	X										[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Grab		N		X									
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Comp	[illegible]	N			X								

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp.	
[illegible]	[illegible]	[illegible]			/ /			Cooler #	
Relinquished by (signature)	**Date**	**Time am/pm**	**Received by (signature)**	**Relinquished by (signature)**	**Date**	**Time am/pm**	**Received for Lab by**	**Date**	**Time am/pm**
	/ /				/ /			/ /	

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Ludington, Michigan 49431
616-843-1877
FAX 616-845-9942

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Services Inc.

Otsego Wastewater Treatment Plant

Sample:	46119-4890	Matrix:	Water / Composite
Client Sample:	OTSE 112103	Location:	Secondary Clarifier
COLLECTED:	11/21/1994 :	Project:	Otsego WWTP - Weekly
RECEIVED:	11/22/1994 12:16	Sampled By:	Tony Misze

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	11/29/1994 SRO
Aroclor-1221	ND	ug/L	0.1	"	11/29/1994 SRO
Aroclor-1232	ND	ug/L	0.1	"	11/29/1994 SRO
Aroclor-1242	ND	ug/L	0.1	"	11/29/1994 SRO
Aroclor-1248	ND	ug/L	0.1	"	11/29/1994 SRO
Aroclor-1254	ND	ug/L	0.1	"	11/29/1994 SRO
Aroclor-1260	ND	ug/L	0.1	"	11/29/1994 SRO
Aroclor-1262	ND	ug/L	0.1	"	11/29/1994 SRO
Aroclor-1268	ND	ug/L	0.1	"	11/29/1994 SRO

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 12/06/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington MI 49431
Phone # 800 733 8715

Laboratory Reference # Page of

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To
Telephone #
FAX #
Fax results yes / no

Invoice To
Telephone #

Project Name
Project #
State (State in which samples were collected)
Work Authorization *

Sample Containers (QTY /Size/Type/pH)		(Lab use only)	
VOA	/ / /	O&G HCL	/ / /
Amber	/ / /	Bacti	/ / /
HNO3	/ / /		/ / /
None	/ / /		/ / /
H2SO4	/ / /		/ / /

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Notes / Special Request

Required Completion Date / /
Sampled By (name)

Lab ID	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	Test Methods									

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. / Cooler #
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / Time am/pm

Pink copy client Yellow copy Managers White copy Lab

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udington, Michigan 49431
616-843-1877
FAX 616-845-9942

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Otsego Wastewater Treatment Plant

Sample:	46446-6185	Matrix:	Water / Composite
Client Sample:	OTS1208003	Location:	Secondary Clairifier
COLLECTED:	12/08/1994 :	Project:	Otsego WWTP - Weekly
RECEIVED:	12/09/1994 11:28	Sampled By:	Tony

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	12/20/1994 SRO
Aroclor-1221	ND	ug/L	0.1	"	12/20/1994 SRO
Aroclor-1232	ND	ug/L	0.1	"	12/20/1994 SRO
Aroclor-1242	ND	ug/L	0.1	"	12/20/1994 SRO
Aroclor-1248	ND	ug/L	0.1	"	12/20/1994 SRO
Aroclor-1254	ND	ug/L	0.1	"	12/20/1994 SRO
Aroclor-1260	ND	ug/L	0.1	"	12/20/1994 SRO
Aroclor-1262	ND	ug/L	0.1	"	12/20/1994 SRO
Aroclor-1268	ND	ug/L	0.1	"	12/20/1994 SRO

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 12/23/1994

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # 46446

Page 1 of 1

Name & Address — Note: Please use permanent ink pen — (If same leave blank)

Results To: Alsego WWTP
210 N Grant
Alsego Mi 49078 Attn Thomas Dunn

Invoice To:

Telephone # 616-694-9194 — FAX # — Telephone #

Fax results: yes / no

Project Name Weekly — Project # — State Mi (State in which samples were collected) — Work Authorization *

Sample Containers (QTY/Size/Type/pH) (Lab use only)

VOA:	/ / /	O&G HCL:	/ / /
Amber:	/ 1 liter / 6 /	Bacti:	/ / /
HNO3	/ 250 / pt /	:	/ / /
None:	/ 500 / pt /	:	/ / /
H2SO4:	/ / /	:	/ / /

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form.

Required Completion Date / / — Sampled By (name)

Test Methods

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp. or grab	Sample Matrix	Drinking Water Y/N	[illegible]	[illegible]	[illegible]							
6183	OTS1208001	Outfall	12-07-94	2:00	grab		N	X									
6184	OTS1208002	EFF Sampler	12-8-94	24 Hour 2:00	Comp		N		X								
6185	OTS1208003	Secondary Clarifier	12-8-94	24 Hour 2:00	Comp		N			X							

Notes / Special Request

UPS $4.03

Relinquished by: (signature)	Date	Time am/pm	Received by: (signature)	Relinquished by: (signature)	Date	Time am/pm	Received by: (signature)	Cooler Temp. 5.4 Cooler # 45
[illegible]	12 18 94	2:00			/ /			
Relinquished by: (signature)	Date	Time am/pm	Received by: (signature)	Relinquished by: (signature)	Date	Time am/pm	Received for Lab by:	Date / Time am/pm
	/ /				/ /		[illegible]	[illegible]

Pink copy - client Ye[illegible] opy - Managers White copy - Lab

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Ludington, Michigan 49431
616-843-1877
FAX 616-845-9942

ANATECH Laboratories

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Services Inc

Otsego Wastewater Treatment Plant

Sample:	46679-7338	Matrix:	Water	/ Composite
Client Sample:	OTS12209403 Secondary	Location:		
COLLECTED:	12/20/1994 :	Project:	Otsego WWTP - Weekly	
RECEIVED:	12/21/1994 14:44	Sampled By:		

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	12/23/1994 SRO
Aroclor-1221	ND	ug/L	0.1	"	12/23/1994 SRO
Aroclor-1232	ND	ug/L	0.1	"	12/23/1994 SRO
Aroclor-1242	ND	ug/L	0.1	"	12/23/1994 SRO
Aroclor-1248	ND	ug/L	0.1	"	12/23/1994 SRO
Aroclor-1254	ND	ug/L	0.1	"	12/23/1994 SRO
Aroclor-1260	ND	ug/L	0.1	"	12/23/1994 SRO
Aroclor-1262	ND	ug/L	0.1	"	12/23/1994 SRO
Aroclor-1268	ND	ug/L	0.1	"	12/23/1994 SRO

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/04/1995

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733 8715

Laboratory Reference # 46679

Page of

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To: [illegible]

Invoice To:

Telephone #

FAX #

Telephone #

Fax results yes / no

Project Name: [illegible]

Project #

State: Me (State in which samples were collected)

Work Authorization *

Sample Containers (QTY./Size/Type/pH) (Lab use only)

VOA:	/ / /	O&G HCL:	/ / /
Amber:	[illegible]	Bacti:	/ / /
HNO3	[illegible]	:	/ / /
None:	[illegible]	:	/ / /
H2SO4:	/ / /	:	/ / /

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date: / /

Sampled By (name):

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	Test Methods										Notes / Special Request
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	grab		N	x										[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		N		x									
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		N			x								

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. [illegible] Cooler #
[illegible]	[illegible]	[illegible]			/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / / Time am/pm
	/ /				/ /		[illegible]	

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udington, Michigan 49431
;1o-843-1877
FAX 616-845-9942

ANATECH Laboratories

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Services Inc

Otsego Wastewater Treatment Plant

Sample:	50216-0827	Matrix:	Water	/ Composite
Client Sample:	OTSE0112003	Location:		
COLLECTED:	01/12/1995 01:00	Project:	Otsego WWTP - Weekly	
RECEIVED:	01/13/1995 11:58	Sampled By:	Tony Misze	

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	01/18/1995 SRO
Aroclor-1221	ND	ug/L	0.1	"	01/18/1995 SRO
Aroclor-1232	ND	ug/L	0.1	"	01/18/1995 SRO
Aroclor-1242	ND	ug/L	0.1	"	01/18/1995 SRO
Aroclor-1248	ND	ug/L	0.1	"	01/18/1995 SRO
Aroclor-1254	ND	ug/L	0.1	"	01/18/1995 SRO
Aroclor-1260	ND	ug/L	0.1	"	01/18/1995 SRO
Aroclor-1262	ND	ug/L	0.1	"	01/18/1995 SRO
Aroclor-1268	ND	ug/L	0.1	"	01/18/1995 SRO

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/30/1995

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # 50216

Page 1 of 1

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To: Otsego WTP
210 N Grant
Otsego, MI 49078 Attn: Thomas Burn
Telephone # 616-694 9194
FAX #
Fax results yes / no

Invoice To:
Telephone #

Project Name: Bi-Monthly
Project #:
State: MI (State in which samples were collected)
Work Authorization *

Sample Containers (QTY./Size/Type/pH)		(Lab use only)	
VOA:	1 1 1	O&G HCL:	1 1 1
Amber:	1 1 1	Bacti:	1 1 1
HNO3:	1 1 1	:	1 1 1
None:	1 1 1	:	1 1 1
H2SO4:	1 1 1	:	1 1 1

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form.

Required Completion Date: / /
Sampled By (name): TONY WIZE

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	Test Methods			Notes / Special Request
0825	OTSEW112001	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N	X			[illegible]
0826	OTSEW112002	[illegible]	[illegible]	[illegible]	Grab	[illegible]	N		X		[illegible]
0827	OTSEW112003	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N			X	[illegible]

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp. 2.3 / Cooler #
[illegible]	[illegible]	[illegible]			/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / Time am/pm
	/ /				/ /		[illegible]	[illegible]

Pink copy client ow copy Managers White copy - Lab

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

a Division of
CT&E Environmental
Services Inc.

Otsego Wastewater Treatment Plant

Sample:	50313-1156	Matrix:	Water / Composite
Client Sample:	OTSE0117003	Location:	Secondary Clarifier
COLLECTED:	01/17/1995 :	Project:	Otsego WWTP - Weekly
RECEIVED:	01/18/1995 12:37	Sampled By:	Anthony Misze

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	01/23/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	01/23/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	01/23/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	01/23/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	01/23/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	01/23/1995 SM
Aroclor-1260	ND	ug/L	0.1	"	01/23/1995 SM
Aroclor-1262	ND	ug/L	0.1	"	01/23/1995 SM
Aroclor-1268	ND	ug/L	0.1	"	01/23/1995 SM

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/30/1995

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive, Ludington, MI 49431
Phone # 800-733-8715

Laboratory Reference # [illegible]

Page [illegible] of [illegible]

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To [illegible]
[illegible]
[illegible]
Telephone # [illegible] FAX # [illegible]
Fax results yes / no

Invoice To [illegible]
Telephone # [illegible]

Project Name [illegible] Project # [illegible] State [illegible] (State in which samples were collected) Work Authorization * [illegible]

Sample Containers (QTY./Size/Type/pH)				(Lab use only)			
VOA:	[illegible]	[illegible]	[illegible]	O&G HCL:	[illegible]	[illegible]	[illegible]
Amber:	[illegible]	[illegible]	[illegible]	Bacti:	[illegible]	[illegible]	[illegible]
HNO3	[illegible]	[illegible]	[illegible]	:	[illegible]	[illegible]	[illegible]
None:	[illegible]	[illegible]	[illegible]	:	[illegible]	[illegible]	[illegible]
H2SO4:	[illegible]	[illegible]	[illegible]	:	[illegible]	[illegible]	[illegible]

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form.

Required Completion Date / /

Sampled By (name)

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Sample Matrix	Drinking Water Y/N	Test Methods									
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]									
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]								
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]							

Notes / Special Request

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler Temp [illegible] Cooler # [illegible]
[illegible]	[illegible]	[illegible]			/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	Date / / Time am/pm
	/ /				/ /			

Pink copy clien low copy Managers White copy - Lab

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX 616-845-9942

ANATECH Laboratories

a Division of CT&E Environmental Services Inc

Otsego Wastewater Treatment Plant

Sample:	50665-2393	Matrix:	Water
Client Sample:	OTSE0295002	Location:	Sec Clarifier
COLLECTED:	02/02/1995 :	Project:	Otsego WWTP - Weekly
RECEIVED:	02/03/1995 13:21	Sampled By:	Thomas Dunn

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	02/10/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	02/10/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	02/10/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	02/10/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	02/10/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	02/10/1995 SM
Aroclor-1260	ND	ug/L	0.1	"	02/10/1995 SM
Aroclor-1262	ND	ug/L	0.1	"	02/10/1995 SM
Aroclor-1268	ND	ug/L	0.1	"	02/10/1995 SM

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 02/13/1995

Chain of Custody
ANATECH LABORATORIES - A Division of CT&E Environmental Services
1200 Conrad Industrial Drive
Ludington, MI 49431

Anatech Lab ID#: [illegible]

Page of 1

Phone: 616-843-1877 FAX 616-845-9942

Results To: Otsego WWTP
210 N Grant
Otsego MI 49078

Attention: Thomas Dunn

Telephone # 616-694-9194

FAX #

Invoice To:

Telephone #

Project Name:

Project Number:

State in which samples were collected: MI

FAX Results: YES or NO

Required Completion Date:

Sampled by: T.L.

Work Authorization Signature:

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form

Test Methods

Comment / Notes

No COC [illegible]

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N	VOC	Glass	O&G	250m PI	500m PI	1L PI	Other	pH Check
[illegible]	OTSE0295002	S.C. [illegible]				[illegible]										

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

Pink copy-Client Yellow and White copy-Lab

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616-843-1877
FAX 616-845-9942

ANATECH Laboratories

C&E Environmental Services Inc.

Otsego Wastewater Treatment Plant

Sample:	50908-3421	Matrix:	Water	/ Composite
Client Sample:	OTSE0215003 Secondary Cla	Location:		
COLLECTED:	02/15/1995 14:00	Project:	Otsego WWTP - Weekly	
RECEIVED:	02/16/1995 14:34	Sampled By:		

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.3	EPA 608	02/21/1995 SM
Aroclor-1221	ND	ug/L	0.3	"	02/21/1995 SM
Aroclor-1232	ND	ug/L	0.3	"	02/21/1995 SM
Aroclor-1242	ND	ug/L	0.3	"	02/21/1995 SM
Aroclor-1248	ND	ug/L	0.3	"	02/21/1995 SM
Aroclor-1254	ND	ug/L	0.3	"	02/21/1995 SM
Aroclor-1260	ND	ug/L	0.3	"	02/21/1995 SM
Aroclor-1262	ND	ug/L	0.3	"	02/21/1995 SM
Aroclor-1268	ND	ug/L	0.3	"	02/21/1995 SM

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 02/23/1995

Chain of Custody

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1200 Conrad Industrial Drive

Ludington, MI 49431

Phone: 616-843-1877 FAX. 616-845-9942

Anatech Lab ID#: [illegible]

Page of 1

Results To: [illegible]

Attention: [illegible]

Telephone # [illegible]

FAX #

Invoice To:

Telephone #

Project Name: [illegible]

Project Number:

State in which samples were collected [illegible]

FAX Results: YES or NO

Required Completion Date

Sampled by:

Work Authorization Signature:

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form

Test Methods

Comment / Notes

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N								VOC	Glass	O&G	250m Pl	500m Pl	1L Pl	Other	pH Check
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N	N	X							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	C	[illegible]	N	N		X						[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N	N			X					[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
[illegible]	[illegible]	[illegible]	[illegible]		
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**
[illegible]		[illegible]			

Cooler Temp #1 Cooler Temp #2 Cooler Temp #3 Cooler Temp #4

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FAX 616-845-9942

ANATECH Laboratories

a Division of CT&E Environmental Services Inc

Otsego Wastewater Treatment Plant

Sample:	51178-4415	Matrix:	Water / Composite
Client Sample:	OTSE0302003	Location:	Secondary Clairifier
COLLECTED:	03/02/1995 13:00	Project:	Otsego WWTP - Weekly
RECEIVED:	03/03/1995 12:10	Sampled By:	AM

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	03/09/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	03/09/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	03/09/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	03/09/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	03/09/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	03/09/1995 SM
Aroclor-1260	ND	ug/L	0.1	"	03/09/1995 SM
Aroclor-1262	ND	ug/L	0.1	"	03/09/1995 SM
Aroclor-1268	ND	ug/L	0.1	"	03/09/1995 SM

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 03/13/1995

ANATECH ANALYTICAL LABORATORIES

Chain of Custody Record / Work Authorization
1200 Conrad Industrial Drive Ludington MI 49431
Phone # 800 733 8715

Laboratory Reference # [illegible] Page of

Name & Address — Note Please use permanent ink pen — (If same leave blank)

Results To [illegible]
[illegible]
[illegible] 49[illegible]78 Attn Thomas [illegible]
Telephone # [illegible]-594 9194 FAX # Fax results yes / no

Invoice To
Telephone #

Project Name We [illegible] Project # State MI (State in which samples were collected) Work Authorization *

Sample Containers (QTY /Size/Type/pH) (Lab use only)

VOA	/ / /	O&G HCL:	/ / /
Amber:	/ / /	Bact:	/ / /
HNO3	/ / /	:	/ / /
None:	/ / /	:	/ / /
H2SO4:	/ / /	:	/ / /

*Authorizes Anatech to perform the work requested on this form and acknowledges the terms and conditions of payment, which are listed on the reverse side of this form

Required Completion Date / /

Sampled By (name) [illegible]

Test Methods

Notes / Special Request

Lab I.D.	Client Sample ID	Sampling Location	Collection Date	Collection Time am/pm	Method comp or grab	Drinking Sample Matrix	Drinking Water Y/N										
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N										
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N										
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N										

Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Cooler
[illegible]	[illegible]	[illegible]			/ /			
Relinquished by (signature)	Date	Time am/pm	Received by (signature)	Relinquished by (signature)	Date	Time am/pm	Received for Lab by	
	/ /				/ /		[illegible]	

Pink [illegible] Client Yellow copy Managers White copy Lab

nrad Industrial Drive
on, Michigan 49431
43-1877
FAX 616-845-9942

ANATECH Laboratories

a Division of
CT&E Environmental
Services Inc

Otsego Wastewater Treatment Plant

Sample:	51912-7294	Matrix:	Water	/ Composite
Client Sample:	OTSE040603	Location:		
COLLECTED:	04/06/1995 :	Project:	Otsego WWTP - Weekly	
RECEIVED:	04/07/1995 10:25	Sampled By:	TM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	04/12/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	04/12/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	04/12/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	04/12/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	04/12/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	04/12/1995 SM
Aroclor-1260	ND	ug/L	0.1	"	04/12/1995 SM
Aroclor-1262	ND	ug/L	0.1	"	04/12/1995 SM
Aroclor-1268	ND	ug/L	0.1	"	04/12/1995 SM

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 04/13/1995

Chain of Custody

ANATECH LABORATORIES - A Division of CT&E Environmental Services

1200 Conrad Industrial Drive

Ludington, MI 49431

Phone: 616-843-1877 FAX: 616-845-9942

Anatech Lab ID#: [illegible]

Page of

Results To:

Attention:

Telephone #

FAX #

Invoice To:

Telephone #

Project Name:

Project Number:

State in which samples were collected.

FAX Results: YES or NO

Required Completion Date

Sampled by: TONY MISZE

Work Authorization Signature:

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form

Test Methods

Comment / Notes

UPS $4.03

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N								VOC	Glass	O&G	250m Pl	500m Pl	1L Pl	Other	pH Check
7292	CTSE040601	[illegible] HALL	[illegible]	2:30	G	[illegible]	N	N	X														
7293	CTSE040602	24 HR EFFL Sampler	[illegible]	8:00 8:00	C	[illegible]	N	N		X													
7294	CTSE040603	Secondary Clarifier	[illegible]	8:00 8:00	C	[illegible]	N	N			X												

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
Tony Misze	4-6-95 3:00 pm				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**

Cooler Temp #1 Cooler Temp #2 Cooler Temp #3 Cooler Temp #4

copy-Client Yellow and White copy-Lab

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Ludington, Michigan 49431
616-843-1877
FAX 616-845-9942

ANATECH Laboratories

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CT&E Environmenta
Services Inc

Otsego Wastewater Treatment Plant

Sample:	51444-5453	Matrix:	Water	/ Composite
Client Sample:	OTSE0316003	Location:		
COLLECTED:	03/16/1995 :	Project:	Otsego WWTP - Weekly	
RECEIVED:	03/17/1995 12:57	Sampled By:	TM	

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	03/21/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	03/21/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	03/21/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	03/21/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	03/21/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	03/21/1995 SM
Aroclor-1260	ND	ug/L	0.1	"	03/21/1995 SM
Aroclor-1262	ND	ug/L	0.1	"	03/21/1995 SM
Aroclor-1268	ND	ug/L	0.1	"	03/21/1995 SM

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported · 03/24/1995

Chain of Custody

ANATECH LABORATORIES - A Division of CT&E Environmental Services

1200 Conrad Industrial Drive

Ludington, MI 49431

Anatech Lab ID# [illegible]

Page of

Phone 616-843-1877 FAX 616-845-9942

Results To [illegible]

Attention [illegible]

Telephone # [illegible]

FAX # [illegible]

Invoice To [illegible]

Telephone # [illegible]

Project Name [illegible]

Project Number [illegible]

State in which samples were collected [illegible]

FAX Results YES or NO

Required Completion Date [illegible]

Sampled by [illegible]

Work Authorization Signature

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form

Test Methods

Comment / Notes

W.P.S.

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N								VOC	Glass	O&G	250m Pl	500m Pl	1L Pl	Other	pH Check
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N	N	X							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	C	[illegible]	N	N		X						[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	C	W	N	N			X					[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
[illegible]	[illegible]				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

Client Yellow and White copy Lab

onrad Industrial Drive
gton, Michigan 49431
-843-1877
X: 616-845-9942

ANATECH
Laboratories

CT&E Environmental
Services Inc.

Otsego Wastewater Treatment Plant

Sample:	52797-1651	Matrix:	Water / Composite
Client Sample:	OTSE0517503	Location:	Secondary Clairifier
COLLECTED:	05/17/1995 :	Project:	Otsego WWTP - Weekly
RECEIVED:	05/18/1995 11:02	Sampled By:	TM

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	05/23/1995 JA
Aroclor-1221	ND	ug/L	0.1	"	05/23/1995 JA
Aroclor-1232	ND	ug/L	0.1	"	05/23/1995 JA
Aroclor-1242	ND	ug/L	0.1	"	05/23/1995 JA
Aroclor-1248	ND	ug/L	0.1	"	05/23/1995 JA
Aroclor-1254	ND	ug/L	0.1	"	05/23/1995 JA
Aroclor-1260	ND	ug/L	0.1	"	05/23/1995 JA
Aroclor-1262	ND	ug/L	0.1	"	05/23/1995 JA
Aroclor-1268	ND	ug/L	0.1	"	05/23/1995 JA

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported · 05/25/1995

Chain of Custody
ANATECH LABORATORIES - A Division of CT&E Environmental Services
1200 Conrad Industrial Drive
Ludington, MI 49431

Anatech Lab ID#. 57797

Page of

Phone 616-843-1877 FAX 616-845-9942

Results To Otsego WWTP
210 N Grant
Otsego, MI 49078

Attention Thomas Dunn

Telephone #

FAX #

Invoice To

Telephone #

Project Name Bi-Monthly

Project Number

State in which samples were collected MI

FAX Results YES or NO

Required Completion Date

Sampled by Tony Misze

Work Authorization Signature

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Test Methods

Comment / Notes

UPS 4.39

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C/G	Sample Matrix	Drinking Water Y/N	Field Filtered Y/N	Hex Cr	Copper	PCB	VOC	Glass	O&G	250m PI	500m PI	1L PI	Other	pH Check
1649	OTSEC517501	Outfall	5-17-95	2:00 pm	G	W	N	N	X										
1650	CTSE0517502	24HR EFFL Sampler	5-16 5-17	8:00 Am 8:00 Am	C	W	N	N		X									
1651	OTSE0517503	Secondary Clairifier	5-16 5-17	8:00 Am 8:00 Am	C	W	N	N			X								

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
Tony Misze	5-17-95 2:30pm				
Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)
Cooler Temp #1 4.30	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

Clic ... nd White copy Lab

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FAX. 616-845-9942

ANATECH Laboratories

A Division of
CT&E Environmental
Services Inc

Otsego Wastewater Treatment Plant

Sample:	52639-0924	Matrix:	Water	/ Composite
Client Sample:	OTSE051003	Location:		
COLLECTED:	05/11/1995 :	Project:	Otsego WWTP - Weekly	
RECEIVED:	05/12/1995 11:14	Sampled By:	TM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	05/18/1995 JA
Aroclor-1221	ND	ug/L	0.1	"	05/18/1995 JA
Aroclor-1232	ND	ug/L	0.1	"	05/18/1995 JA
Aroclor-1242	ND	ug/L	0.1	"	05/18/1995 JA
Aroclor-1248	ND	ug/L	0.1	"	05/18/1995 JA
Aroclor-1254	ND	ug/L	0.1	"	05/18/1995 JA
Aroclor-1260	ND	ug/L	0.1	"	05/18/1995 JA
Aroclor-1262	ND	ug/L	0.1	"	05/18/1995 JA
Aroclor-1268	ND	ug/L	0.1	"	05/18/1995 JA

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported · 05/22/1995

Chain of Custody
ANATECH LABORATORIES - A Division of CT&E Environmental Services
1200 Conrad Industrial Drive
Ludington, MI 49431

Anatech Lab ID#. 52639

Page 1 of 1

Phone 616-843-1877 FAX 616-845-9942

Results To OTSego WWTP

Attention

Telephone #

FAX #

Invoice To

Telephone #

Project Name

Project Number

State in which samples were collected

FAX Results YES or NO

Required Completion Date

Sampled by Tony Misze

Work Authorization Signature

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form

Test Methods

Comment / Notes

UPS
~~$3.74~~
$4.39

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N	Copper	Hex Chrome	PCB						VOC	Glass	O&G	250m PI (1 or 3)	500m PI	1L PI	Other	pH Check
0922	OTSEG051001	24 HR EFFL Samp	5-10-95 5-11-95	8:00 Am 8:00	C	W	N	N	X															
0923	OTSEG051002	Outfall	5-11-95		G	W	N	N		X														
0924	OTSEG051003	Secondary Clair	5-10-95 5-11-95	1:00 pm 1:00	C	W	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
Anthony V Misze	5-11-95 3:00pm				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**
Cooler Temp #1	**Cooler Temp #2**	**Cooler Temp #3**	**Cooler Temp #4**		

M.R. 5/12/95 11:15 a.m.

...ny Client Yellow and White copy-Lab

-rad Industrial Drive
,n, Michigan 49431
43-1877
616-845-9942

ANATECH Laboratories

a Division o-
CT&E Environmental
Services Inc

Otsego Wastewater Treatment Plant

Sample:	52137-8208	Matrix:	Water / Composite
Client Sample:	OTSE041903	Location:	Secondary Clairifier
COLLECTED:	04/19/1995 :	Project:	Otsego WWTP - Weekly
RECEIVED:	04/20/1995 12:46	Sampled By:	TM

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	04/27/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	04/27/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	04/27/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	04/27/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	04/27/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	04/27/1995 SM
Aroclor-1260	ND	ug/L	0.1	"	04/27/1995 SM
Aroclor-1262	ND	ug/L	0.1	"	04/27/1995 SM
Aroclor-1268	ND	ug/L	0.1	"	04/27/1995 SM

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported 04/28/1995

Chain of Custody

ANATECH LABORATORIES - A Division of CT&E Environmental Services

1200 Conrad Industrial Drive

Ludington, MI 49431

Phone: 616-843-1877 FAX 616-845-9942

Anatech Lab ID#: [illegible]

Page of 1

Results To: Otsego WWTP
210 W Grant
Otsego, MI 49078

Attention: [illegible]

Telephone #

FAX #

Invoice To:

Telephone #

Project Name: Bi-Monthly

Project Number

State in which samples were collected: MI

FAX Results YES or NO

Required Completion Date

Sampled by: TONY MISZE

Work Authorization Signature

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Test Methods

Comment / Notes: $4.14 UPS

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C/G	Sample Matrix	Drinking Water Y/N	Field Filtered Y/N	[illegible]	[illegible]	[illegible]	ZINC [illegible]				VOC	Glass	O&G	250m PI	500m PI	1L PI	Other	pH Check
[illegible]	[illegible] E 41901	[illegible] Effl Sampler	[illegible]	[illegible]	C	W	N	N	X			X											
[illegible]	[illegible] E041902	[illegible] Full	4-[illegible]	[illegible]	G	W	N	N		X	X												
[illegible]	[illegible] E041903	[illegible]	[illegible]	[illegible] pm	C	W	N	N			X	X											
[illegible]	[illegible] E041904	[illegible] Effl Sampler	[illegible]	[illegible]	C	W	N	N				X											

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
[illegible]	[illegible] pm		[illegible]		
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**
			[illegible]		
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

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Ludington, Michigan 49431
616-843-1877
FAX 616-845-9942

ANATECH Laboratories

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Services Inc

Otsego Wastewater Treatment Plant

Sample:	53266-3656	Matrix:	Water / Composite
Client Sample:	OTSE060703	Location:	Secondary Clarifier
COLLECTED:	06/07/1995 :	Project:	Otsego WWTP - Weekly
RECEIVED:	06/08/1995 13:45	Sampled By:	TM

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	06/13/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	06/13/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	06/13/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	06/13/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	06/13/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	06/13/1995 SM
Aroclor-1260	ND	ug/L	0.1	"	06/13/1995 SM
Aroclor-1262	ND	ug/L	0.1	"	06/13/1995 SM
Aroclor-1268	ND	ug/L	0.1	"	06/13/1995 SM

ND = Non Detectable

Project Manager

Kelly Wilson

Kelly Wilson

Reported : 06/15/1995

Chain of Custody
ANATECH LABORATORIES - A Division of CT&E Environmental Services
1200 Conrad Industrial Drive
Ludington, MI 49431

Anatech Lab ID#: [illegible]

Page of

Phone 616-843-1877 FAX. 616-845-9942

Results To [illegible]
[illegible] Grant
[illegible] MI 49076

Attention [illegible]

Telephone #

FAX #

Invoice To

Telephone #

Project Name: [illegible] Monthly

Project Number

State in which samples were collected: MI

FAX Results YES or NO

Required Completion Date

Sampled by: [illegible]

Work Authorization Signature

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Test Methods

Comment / Notes: UPS $4.39

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C/G	Sample Matrix	Drinking Water Y/N	Field Filtered Y/N	Copper 200.7	[illegible] 200.7	[illegible]						VOC	Glass	O&G	250m PI	500m PI	1L PI	Other	pH Check
[illegible]	[illegible]0701	[illegible]	[illegible]	[illegible]	C	[illegible]	N	N	X															
[illegible]	[illegible]0702	[illegible]	[illegible]	[illegible]	G	[illegible]	N	N		X														
[illegible]	[illegible]0703	[illegible]	[illegible]	[illegible]	C	[illegible]	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
[illegible]	[illegible]				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

Pink cop Client Yellow and White copy-Lab

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ANATECH Laboratories

a Division of CT&E Environmental Services Inc

Otsego Wastewater Treatment Plant

Sample:	53610-5053	Matrix:	Water	/ Composite
Client Sample:	OTSE0621003	Location:	Secondary Clarifier	
COLLECTED:	06/21/1995 :	Project:	Otsego WWTP - Weekly	
RECEIVED:	06/22/1995 10:51	Sampled By:	AM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	06/27/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	06/27/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	06/27/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	06/27/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	06/27/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	06/27/1995 SM
Aroclor-1260	ND	ug/L	0.1	"	06/27/1995 SM
Aroclor-1262	ND	ug/L	0.1	"	06/27/1995 SM
Aroclor-1268	ND	ug/L	0.1	"	06/27/1995 SM

ND = Non Detectable

Project Manager

Kelly Wilson

Reported : 06/30/1995

Chain of Custody
ANATECH LABORATORIES - A Division of CT&E Environmental Services
1200 Conrad Industrial Drive
Ludington, MI 49431

Anatech Lab ID#: [illegible]

Page of

Phone: 616-843-1877 FAX. 616-845-9942

Results To [illegible]

Attention

Telephone #

FAX #

Invoice To

Telephone #

Project Name:

Project Number:

State in which samples were collected

FAX Results. YES or NO

Required Completion Date

Sampled by [illegible]

Work Authorization Signature:

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Test Methods

Comment / Notes

UPS $4.26

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C/G	Sample Matrix	Drinking Water Y/N	Field Filtered Y/N	Cobalt	Hex Chromium	PCE						VOC	Glass	O&G	250m PI	50um PI	1L PI	Other	pH Check
[illegible]	[illegible]	4HR EFFL Sampler	6-21-95	[illegible]	C	[illegible]	N	N	X															
[illegible]	[illegible]	Outfall	6-21-95	[illegible]	G	[illegible]	[illegible]	N		X														
[illegible]	[illegible]	Secondary Clarifier	6-21-95	[illegible]	C	[illegible]	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
[illegible]	6-21-95				
Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

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ANATECH Laboratories

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Otsego Wastewater Treatment Plant

Sample:	54131-7571	Matrix:	Water / Composite
Client Sample:	OTSE07129503	Location:	Secondary Clarifier
COLLECTED:	07/12/1995 :	Project:	Otsego WWTP - Weekly
RECEIVED:	07/17/1995 10:38	Sampled By:	TM

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	07/23/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	07/23/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	07/23/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	07/23/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	07/23/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	07/23/1995 SM
Aroclor-1260	ND	ug/L	0.1	"	07/23/1995 SM
Aroclor-1262	ND	ug/L	0.1	"	07/23/1995 SM
Aroclor-1268	ND	ug/L	0.1	"	07/23/1995 SM

ND = Non Detectable

Project Manager

Kelly Wilson

Reported : 07/25/1995

Chain of Custody
ANATECH LABORATORIES - A Division of CT&E Environmental Services
1200 Conrad Industrial Drive
Ludington MI 49431

Anatech Lab ID# 5413

Page of

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Results To Otsego WWTP
210 N Grant
Otsego, MI 49078

Attention Thomas Dunn

Telephone #

FAX #

Invoice To

Telephone #

Project Name Bi-Monthly

Project Number

State in which samples were collected MI

FAX Results YES or NO

Required Completion Date

Sampled by Tony Misze

Work Authorization Signature

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Test Methods

Comment / Notes

Hex Cr Post holding time
Cancel analysis
$4.51 per Tom Dunn

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C/G	Sample Matrix	Drinking Water Y/N	Field Filtered Y/N	Hex Cr	Copper	PCB	VOC	Glass	O&G	250m PI	500m PI	1L PI	Other	pH Check
	OTSE07129501	Outfall	7-12	2.00 pm	G	W	N	N	X										
7570	OTSE07129502	24HR EFFL Samp	7-11 7-12	8.00 Am 8.00 Am	C	W	N	N		X									
7571	OTSE07129503	Secondary Clarifier	7-11 7-12	2.00 pm 3.00 pm	C	W	N	N			X								

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
Anthony D Misze	7-12-95				
Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)
[illegible]	7/17/95				
Cooler Temp [illegible]	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4	[illegible] 7/17/95	10:45 am

Pick up Client Yellow and White copy Lab

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ANATECH Laboratories

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Services Inc.

Otsego Wastewater Treatment Plant

Sample:	53904-6807	Matrix:	Water / Composite
Client Sample:	OTSE060503	Location:	Secondary Clarifier
COLLECTED:	07/05/1995 :	Project:	Otsego WWTP - Weekly
RECEIVED:	07/06/1995 14:23	Sampled By:	TM

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	07/14/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	07/14/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	07/14/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	07/14/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	07/14/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	07/14/1995 SM
Aroclor-1260	ND	ug/L	0.1	"	07/14/1995 SM
Aroclor-1262	ND	ug/L	0.1	"	07/14/1995 SM
Aroclor-1268	ND	ug/L	0.1	"	07/14/1995 SM

ND = Non Detectable

Project Manager

Kelly Wilson

Kelly Wilson

Reported : 07/18/1995

Chain of Custody

ANATECH LABORATORIES - A Division of CT&E Environmental Services
1200 Conrad Industrial Drive
Ludington, MI 49431

Anatech Lab ID#: [illegible]

Page of

Phone 616-843-1877 FAX 616-845-9942

Results To [illegible]

Attention

Telephone #

FAX #

Invoice To

Telephone #

Project Name

Project Number

State in which samples were collected

FAX Results YES or NO

Required Completion Date

Sampled by [illegible]

Work Authorization Signature

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Test Methods

Comment / Notes

UPS
$4.26

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N	Hex Chrome	Cyanide	[illegible]						VOC	Glass	O&G	250m Pl	500m Pl	1L Pl	Other	pH Check
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N	N	X												N			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N	N		X														
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
[illegible]	[illegible]				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**

Cooler Temp #1 | Cooler Temp #2 | Cooler Temp #3 | Cooler Temp #4

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616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

a Division of CT&E Environmental Services Inc.

Otsego Wastewater Treatment Plant

Sample:	54530-9161	Matrix:	Water / Composite
Client Sample:	OSTE0802503	Location:	Secondary Clairifier
COLLECTED:	08/02/1995 :	Project:	Otsego WWTP - Weekly
RECEIVED:	08/03/1995 16:08	Sampled By:	Tony Misze

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	08/09/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	08/09/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	08/09/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	08/09/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	08/09/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	08/09/1995 SM
Aroclor-1260	ND	ug/L	0.1	"	08/09/1995 SM
Aroclor-1262	ND	ug/L	0.1	"	08/09/1995 SM
Aroclor-1268	ND	ug/L	0.1	"	08/09/1995 SM

ND = Non Detectable

Project Manager

Kelly Wilson

Kelly Wilson

Reported : 08/11/1995

Chain of Custody

ANATECH LABORATORIES - A Division of CT&E Environmental Services

1200 Conrad Industrial Drive

Ludington, MI 49431

Anatech Lab ID# 511030

Page of

Phone: 616-843-1877 FAX: 616-845-9942

Results To:

Attention:

Telephone #

FAX #

Invoice To: H.I.J.

Telephone #

Project Name:

Project Number:

State in which samples were collected:

FAX Results: YES or NO

Required Completion Date:

Sampled by: Tony Misze

Work Authorization Signature:

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Test Methods

Comment / Notes

UPS $4.14

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N	Hex Chrome	Copper	PCB								VOC	Glass	O&G	250m Pl	500m Pl	1L Pl	Other	pH Check
9159	OTSE0802501	Outfall	8-2-95	2:00 pm	G	W	N	N	X																	
9160	OTSE0802502	24 HR EFFL. Sampler	8-1-95 8-2-95	8:00 Am 8:00 Am	C	W	N	N		X												1				
9161	OTSE0802503	Secondary Clairifier	8-1-95 8-2-95	1:00 pm 1:00 pm	C	W	N	N			X									1						

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
Tony Misze	8-2-95 2:30 pm				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**

Cooler Temp #1 [illegible] Cooler Temp #2 Cooler Temp #3 Cooler Temp #4

Pink copy-Client Yellow and White copy-Lab

'00 Conrad Industrial Drive
ington, Michigan 49431
5-843-1877
FAX 616-845-9942

ANATECH Laboratories

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Services Inc

Otsego Wastewater Treatment Plant

Sample:	54736-9798	Matrix:	Water	/ Composite
Client Sample:	OTS081095-003 24hr Sample	Location:		
COLLECTED:	08/10/1995 :	Project:	Bi-Monthly	
RECEIVED:	08/11/1995 10:26	Sampled By:	TD	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	08/18/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	08/18/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	08/18/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	08/18/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	08/18/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	08/18/1995 SM
Aroclor-1260	ND	ug/L	0.1	"	08/18/1995 SM
Aroclor-1262	ND	ug/L	0.1	"	08/18/1995 SM
Aroclor-1268	ND	ug/L	0.1	"	08/18/1995 SM

ND = Non Detectable

Project Manager

Kelly Wilson

Kelly Wilson

Reported : 08/22/1995

Anatech Lab ID# [illegible]

Chain of Custody
ANATECH LABORATORIES - A Division of CT&E Environmental Services
1200 Conrad Industrial Drive
Ludington, MI 49431

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Page of 1

Results To Otsego WWTP
210 N Grant
Otsego MI 49078

Attention Thomas Dunn

Telephone # 616-694-9194

FAX #

Invoice To

Telephone #

Project Name Be Monthly

Project Number

State in which samples were collected Mi

FAX Results YES or NO

Required Completion Date

Sampled by T. Dunn

Work Authorization Signature Thomas W. Dunn

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Test Methods

Comment / Notes

U.P.S Charge 4.26

Please Credit Shipping

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N	Hex Cr	Cu	Pb						VOC	Glass	O&G	250m PI	500m PI	1L PI	Other	pH Check
9796	OTS081095-001	Effluent Outfall	8 10 95	2PM	G	water	N	N	X															
9797	OTS081095-002	Effluent 24hr Sample	8-10-95	7am	C	water	N	N		X														
9798	OTS081095-003	Effluent 24hr Sampler	8-10-95	7am	C	water	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
Thomas Dunn	8/10/95 2PM				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**

Cooler Temp #1 [illegible] 5°C | Cooler Temp #2 | Cooler Temp #3 | Cooler Temp #4

M.L. 1 hr 25am

Client Yellow and White copy Lab

...rac Industrial Drive
...gior Michigan 4943...
...-843-1877
...616-845-9942

ANATECH Laboratories

a Division o
CT&E Environmental
Services Inc

Otsego Wastewater Treatment Plant

Sample:	55282-1794	Matrix:	Water / Composite
Client Sample:	OTSE096503 Sec. Clarifier	Location:	
COLLECTED:	09/06/1995 :	Project:	Otsego WWTP - Weekly
RECEIVED:	09/07/1995 13:40	Sampled By:	TM

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	09/22/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	09/22/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	09/22/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	09/22/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	09/22/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	09/22/1995 SM
Aroclor-1260	ND	ug/L	0.1	"	09/22/1995 SM
Aroclor-1262	ND	ug/L	0.1	"	09/22/1995 SM
Aroclor-1268	ND	ug/L	0.1	"	09/22/1995 SM

ND = Non Detectable

Project Manager

Tamela M Johnson

Tamela M. Johnson

Reported : 09/25/1995

P

Chain of Custody
ANATECH LABORATORIES - A Division of CT&E Environmental Services
1200 Conrad Industrial Drive
Ludington, MI 49431

Anatech Lab ID# 55282

Page of

Phone 616-843-1877 FAX 616-845-9942

Results To OTS-20 MWTP

Attention

Telephone #

FAX #

Invoice To

Telephone #

Project Name

Project Number

State in which samples were collected

FAX Results YES or NO

Required Completion Date

Sampled by Tony Misze

Work Authorization Signature

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form

Test Methods

Comment / Notes

Hex [illegible]

UPS $4.39

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C/G	Sample Matrix	Drinking Water Y/N	Field Filtered Y/N	Hex Chrome	Copper	PCB						VOC	Glass	O&G	250m PI	500m PI	1L PI	Other	pH Check
	OTSE0906501	Outfall	9-6-95	1:30 pm	G	W	N	N	X															
1793	OTSE0906502	24 HR EFFL Sampler	9-6-95	8:00 Am 8:00 Am	C	W	N	N		X														
1794	OTSE0906503	Secondary ~~Sludge~~ Chiffer	9-6-95	1:00 pm 1:00 pm	C	W	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
Tony Misze	2:00 pm 9-6-95				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**

Cooler Temp #2 Cooler Temp #3 Cooler Temp #4

[illegible]

Client Yellow and White copy Lab

1200 Conrad Industrial Drive
Ludington, Michigan 49431
(6-843-1877
FAX· 616-845-9942

ANATECH Laboratories

a Division of
CT&E Environmental
Services Inc.

Otsego Wastewater Treatment Plant

Sample:	55565-7823	Matrix:	Water	/ Composite
Client Sample:	OTSE09195003 Secondary	Location:		
COLLECTED:	09/19/1995 :	Project:	Otsego WWTP - Weekly	
RECEIVED:	09/20/1995 10:37	Sampled By:	TM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	09/27/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	09/27/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	09/27/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	09/27/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	09/27/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	09/27/1995 SM
Aroclor-1260	ND	ug/L	0.1	"	09/27/1995 SM
Aroclor-1262	ND	ug/L	0.1	"	09/27/1995 SM
Aroclor-1268	ND	ug/L	0.1	"	09/27/1995 SM

ND = Non Detectable

Project Manager

Tamela M. Johnson

Tamela M. Johnson

Reported : 09/27/1995

Chain of Custody

ANATECH LABORATORIES - A Division of CT&E Environmental Services

1200 Conrad Industrial Drive

Ludington, MI 49431

Phone: 616-843-1877 FAX: 616-845-9942

Anatech Lab ID#: 55565

Page of

Results To: Otsego WWTP

Attention:

Telephone #

FAX #

Invoice To:

Telephone #

Project Name:

Project Number:

State in which samples were collected:

FAX Results: YES or NO

Required Completion Date:

Sampled by: Tony Misze

Work Authorization Signature:

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form.

Comment / Notes

UPS $4.26

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N	Hex Chrome	Copper	PCB					VOC	Glass	O&G	250m Pl	500m Pl	1L Pl	Other	pH Check
7821	OTSE09195001	Outfall	9-19-95	1:00 pm	G	W	N	N	X										1				
7822	OTSE09195002	24 HR EFFL. Sampler	9-18 95 9-19	8:00 AM 8:00 AM	C	W	N	N		X									1				
7823	OTSE09195003	Secondary Clarifier	9-18 95 9-19	1:00 pm 1:00 pm	C	W	N	N			X												

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
Anthony D Misze	9-19-95 2:00pm				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**
Cooler Temp #1	**Cooler Temp #2**	**Cooler Temp #3**	**Cooler Temp #4**		

Pink copy Client Yellow and White copy Lab

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Ludington, Michigan 49431
616-843-1877
FAX 616-845-9942

ANATECH Laboratories

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Services Inc

Otsego Wastewater Treatment Plant

Sample:	55905-9075	Matrix:	Water	/ Composite
Client Sample:	OTSE10045003 Sec Clarif.	Location:		
COLLECTED:	10/04/1995 :	Project:	Otsego WWTP - Weekly	
RECEIVED:	10/05/1995 12:35	Sampled By:	TM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	10/14/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	10/14/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	10/14/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	10/14/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	10/14/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	10/14/1995 SM
Aroclor-1260	ND	ug/L	0.1	"	10/14/1995 SM
Aroclor-1262	ND	ug/L	0.1	"	10/14/1995 SM
Aroclor-1268	ND	ug/L	0.1	"	10/14/1995 SM

ND = Non Detectable

Project Manager

Tamela M. Johnson

Tamela M. Johnson

Reported : 10/16/1995

Chain of Custody
ANATECH LABORATORIES - A Division of CT&E Environmental Services
1200 Conrad Industrial Drive
Ludington, MI 49431

Anatech Lab ID# 55905

Page of

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Results To OTsgo WWTP

Attention

Telephone #

FAX #

Invoice To

Telephone #

Project Name

Project Number

State in which samples were collected

FAX Results YES or NO

Required Completion Date

Sampled by Tony Mieze

Work Authorization Signature

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Test Methods

Comment / Notes

UPS
$4.08

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C/G	Sample Matrix	Drinking Water Y/N	Field Filtered Y/N	Hex Chrome	Copper	PCB						VOC	Glass (NP)	O&G	250m PI (Hno3 NP)	500m PI	1L PI	Other	pH Check
9073	OTSE10045001	Outfall	10-4-95	1:00 pm	G	W	N	N	X															
9074	OTSE10045002	EFFL Sampler	10-3 10-4 95	8:00 Am 8:00 Am	C	W	N	N		X														
9075	OTSE10045003	Secondary Clarifier	10-3 10-4 95	1:00 pm 1:00 pm	C	W	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
Tony Mieze	10-4-95 2:00 pm				
Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4	10/3/95	

Pink copy Client Yellow and White copy Lab

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616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

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Otsego Wastewater Treatment Plant

Sample:	56239-0471	Matrix:	Water	/ Composite
Client Sample:	OTSE10185003 Sec. Clarfie	Location:		
COLLECTED:	10/18/1995 :	Project:	Otsego WWTP - Weekly	
RECEIVED:	10/19/1995 12:05	Sampled By:	TM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	10/29/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	10/29/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	10/29/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	10/29/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	10/29/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	10/29/1995 SM
Aroclor-1260	ND	ug/L	0.1	"	10/29/1995 SM
Aroclor-1262	ND	ug/L	0.1	"	10/29/1995 SM
Aroclor-1268	ND	ug/L	0.1	"	10/29/1995 SM

ND = Non Detectable

Project Manager

Tamela M. Johnson

Tamela M. Johnson

Reported : 10/30/1995

Chain of Custody

ANATECH LABORATORIES - A Division of CT&E Environmental Services

1200 Conrad Industrial Drive

Ludington, MI 49431

Anatech Lab ID#: [illegible]

Page of

Phone: 616-843-1877 FAX. 616-845-9942

Results To [illegible]

Attention

Telephone #

FAX #

Invoice To:

Telephone #

Project Name:

Project Number:

State in which samples were collected

FAX Results: YES or NO

Required Completion Date

Sampled by. [illegible]

Work Authorization Signature:

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form

Test Methods

Comment / Notes

UPS ($4.28)

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N									VOC	Glass	O&G	250m PI	500m PI	1L PI	Other	pH Check
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N	[illegible]	X												X			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		X														
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

Pink copy-Client Yellow and White copy-Lab

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616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

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Services Inc.

Otsego Wastewater Treatment Plant

Sample:	56732-2406	Matrix:	Water	/ Composite
Client Sample:	OTSE11065003	Location:	Secondary Sampler	
COLLECTED:	11/07/1995 :	Project:	Bi-Monthly	
RECEIVED:	11/08/1995 12:00	Sampled By:	TM\	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	11/10/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	11/10/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	11/10/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	11/10/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	11/10/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	11/10/1995 SM
Aroclor-1260	ND	ug/L	0.1	"	11/10/1995 SM
Aroclor-1262	ND	ug/L	0.1	"	11/10/1995 SM
Aroclor-1268	ND	ug/L	0.1	"	11/10/1995 SM

ND = Non Detectable

Project Manager

Tamela M. Johnson

Reported : 11/13/1995

Chain c[illegible]ustody

ANATECH LABORATORIES - A Division of CT&E Environmental Services

1200 Conrad Industrial Drive

Ludington, MI 49431

Phone: 616-843-1877 FAX 616-845-9942

Anatech Lab ID#: [illegible]

Page of

Results To: Otsego WWTP
[illegible]
[illegible], MI 49078

Attention: [illegible]

Telephone # 616-[illegible]-9111

FAX #

Invoice To:

Telephone #

Project Name: Bi-Monthly Sampling

Project Number:

State in which samples were collected

FAX Results: YES or NO

Required Completion Date

Sampled by: TONY [illegible]

Work Authorization Signature:

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Test Methods

Comment / Notes

4/14

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C/G	Sample Matrix	Drinking Water Y/N	Field Filtered Y/N	Hexavalent Chromium	Copper	PCBs						VOC	Glass	O&G	250m PI	500m PI	1L PI	Other	pH Check
[illegible]	[illegible]E11065001	[illegible]	[illegible]	[illegible]	G	W	N	N	X															
[illegible]	[illegible]E11065002	[illegible] Sampler	[illegible]	[illegible]	C	W	N	N		X														
[illegible]	[illegible]E11065003	[illegible] Sampler	[illegible]	[illegible]	C	W	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
[illegible]	11-7-[illegible] 2:30 pm				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

Pink copy Client Yellow and White copy Lab

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

a Division of CT&E Environmental Services Inc.

Otsego Wastewater Treatment Plant

Sample:	56976-3344	Matrix:	Water	/ Composite
Client Sample:	OTSE11165003	Location:		
COLLECTED:	11/16/1995 :	Project:	Otsego WWTP - Weekly	
RECEIVED:	11/17/1995 11:12	Sampled By:	TM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	11/28/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	11/28/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	11/28/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	11/28/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	11/28/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	11/28/1995 SM
Aroclor-1260	ND	ug/L	0.1	"	11/28/1995 SM
Aroclor-1262	ND	ug/L	0.1	"	11/28/1995 SM
Aroclor-1268	ND	ug/L	0.1	"	11/28/1995 SM

ND = Non Detectable

Project Manager

Tamela M. Johnson

Reported : 11/29/1995

Chain o[illegible]ustody

ANATECH LABORATORIES - A Division of CT&E Environmental Services

1200 Conrad Industrial Drive

Ludington, MI 49431

Phone: 616-843-1877 FAX: 616-845-9942

Anatech Lab ID#: [illegible]

Page of

Results To: Otsego WWTP
210 N. Grant
Otsego, MI 49078

Attention: Thomas Dunn

Telephone # 616-694-9194

FAX #

Invoice To:

Telephone #

Project Name: Weekly Monitoring

Project Number:

State in which samples were collected:

FAX Results: YES or NO

Required Completion Date.

Sampled by: Tony [illegible]

Work Authorization Signature:

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Test Methods

Comment / Notes

UPS 1.4.39

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N	Hexavalent Chromium	Copper	PCB's						VOC	Glass	O&G	250m PI	500m PI	1L PI	Other	pH Check
[illegible]	[illegible]E116 5001		11-16-95	[illegible]	G	W	N	N	X															
[illegible]	CTSE116 5002		11-16-95	[illegible] Am	C	W	N	N		X														
[illegible]	[illegible]E116 5003		11-16-95	[illegible] Am	C	W	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
[illegible]	11-16-95 [illegible]				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**
	[illegible]				
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

Pink copy-Client Yellow and White copy-Lab

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Ludington, Michigan 49431
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FAX. 616-845-9942

ANATECH Laboratories

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Services Inc

Otsego Wastewater Treatment Plant

Sample:	57048-3868	Matrix:	Water	/ Composite
Client Sample:	OTSE11205003	Location:	Sec. Clairifier	
COLLECTED:	11/20/1995 :	Project:	Bi-Monthly	
RECEIVED:	11/21/1995 11:38	Sampled By:	TM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	12/04/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	12/04/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	12/04/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	12/04/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	12/04/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	12/04/1995 SM
Aroclor-1260	ND	ug/L	1.0	"	12/04/1995 SM
Aroclor-1262	ND	ug/L	1.0	"	12/04/1995 SM
Aroclor-1268	ND	ug/L	1.0	"	12/04/1995 SM

ND = Non Detectable

Project Manager

for

Tamela M. Johnson

Reported : 12/05/1995

Chain of Custody

ANATECH LABORATORIES - A Division of CT&E Environmental Services

1200 Conrad Industrial Drive

Ludington, MI 49431

Phone: 616-843-1877 FAX: 616-845-9942

Anatech Lab ID#: [illegible]

Page of

Results To: Otsego WWTP
210 N. Grant
Otsego, MI 49078

Attention: Thomas Dunn

Telephone # 616-694-9194

FAX #

Invoice To:

Telephone #

Project Name: Bi-Monthly Sampling

Project Number:

State in which samples were collected

FAX Results: YES or NO

Required Completion Date

Sampled by: Tony [illegible]

Work Authorization Signature:

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Test Methods

Comment / Notes

UPS
1451

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N	Hexavalent Chromium	Phosphorus	[illegible]							VOC	Glass	O&G	250m Pl	500m Pl	1L Pl	Other	pH Check
[illegible]	CT&E 20ETC01	[illegible]	11-20-15	[illegible]	G	W	N	N	X																
[illegible]	[illegible] 20ETC02	[illegible]	11-20	[illegible]	C	W	N	N		X															
[illegible]	CT&E 20ETC03	[illegible]	11-20	[illegible]	C	W	N	N			X														

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
[illegible]	[illegible]				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**
[illegible]	[illegible]				
Cooler Temp #1	**Cooler Temp #2**	**Cooler Temp #3**	**Cooler Temp #4**		

Pink copy - Client Yellow and White copy-Lab

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

a Division of CT&E Environmental Services Inc.

Otsego Wastewater Treatment Plant

Sample:	57371-5114	Matrix:	Water	/ Composite
Client Sample:	OTSE12065003	Location:	Secondary Clarifier	
COLLECTED:	12/06/1995 :	Project:	Bi-Monthly	
RECEIVED:	12/07/1995 10:04	Sampled By:	TM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	12/15/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	12/15/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	12/15/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	12/15/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	12/15/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	12/15/1995 SM
Aroclor-1260	ND	ug/L	0.1	"	12/15/1995 SM
Aroclor-1262	ND	ug/L	0.1	"	12/15/1995 SM
Aroclor-1268	ND	ug/L	0.1	"	12/15/1995 SM

ND = Non Detectable

Project Manager

Tamela M. Johnson

Tamela M. Johnson

Reported : 12/18/1995

Chain c[illegible]ustody

ANATECH LABORATORIES - A Division of CT&E Environmental Services

1200 Conrad Industrial Drive

Ludington, MI 49431

Phone: 616-843-1877 FAX: 616-845-9942

Anatech Lab ID#: [illegible]

Page of

Results To: Otsego WWTP
210 N Grant
Otsego, MI 49078

Attention: Thomas Dunn

Telephone # 616-694-9194

FAX #

Invoice To:

Telephone #

Project Name: Bi-Monthly Sampling

Project Number:

State in which samples were collected:

FAX Results: YES or NO

Required Completion Date:

Sampled by: Tony Mitsze

Work Authorization Signature:

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form.

Test Methods

Comment / Notes

UPS 4.28

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C/G	Sample Matrix	Drinking Water Y/N	Field Filtered Y/N	Hex. Chromium	Copper	PCB's						VOC	Glass	O&G	250m PI	500m PI	1L PI	Other	pH Check
[illegible]	OTSE 12065001	Cattail	12-6-95	2:00 pm	G	W	N	N	X															
[illegible]	OTSE 12065002	24HR EFFL. Sampler	12-5 12-6	8:00 AM 8:00 AM	C	W	N	N		X														
[illegible]	OTSE 12065003	Secondary Clarifier	12-5 12-6	[illegible]	C	W	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
[illegible]	12-6-95 2:30 pm				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**
MM					
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

Pink copy-Client Yellow and White copy-Lab

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX 616-845-9942

ANATECH Laboratories

a Division of
CT&E Environmental
Services Inc

Otsego Wastewater Treatment Plant

Sample:	57646-6119	Matrix:	Water	/ Composite
Client Sample:	OTSE12195003 Sec. Clar.	Location:		
COLLECTED:	12/19/1995 :	Project:	Otsego WWTP - Weekly	
RECEIVED:	12/20/1995 10:55	Sampled By:	TM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	12/28/1995 SM
Aroclor-1221	ND	ug/L	0.1	"	12/28/1995 SM
Aroclor-1232	ND	ug/L	0.1	"	12/28/1995 SM
Aroclor-1242	ND	ug/L	0.1	"	12/28/1995 SM
Aroclor-1248	ND	ug/L	0.1	"	12/28/1995 SM
Aroclor-1254	ND	ug/L	0.1	"	12/28/1995 SM
Aroclor-1260	ND	ug/L	0 1	"	12/28/1995 SM
Aroclor-1262	ND	ug/L	0.1	"	12/28/1995 SM
Aroclor-1268	ND	ug/L	0.1	"	12/28/1995 SM

ND = Non Detectable

Project Manager

Tamela M. Johnson

Reported : 12/29/1995

Chain c ustody

ANATECH LABORATORIES - A Division of CT&E Environmental Services

1200 Conrad Industrial Drive

Ludington, MI 49431

Phone: 616-843-1877 FAX 616-845-9942

Anatech Lab ID# [illegible]

Page of

Results To. Otsego WWTP
210 N Grant
Otsego, MI 49078

Attention: Thomas Dunn

Telephone #

FAX #

Invoice To.

Telephone #

Project Name:

Project Number.

State in which samples were collected

FAX Results: YES or NO

Required Completion Date

Sampled by: Tony Wisze

Work Authorization Signature:

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form

Test Methods

Comment / Notes

UPS $4.14

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C/G	Sample Matrix	Drinking Water Y/N	Field Filtered Y/N	Hex Chromium	[illegible]	PCB						VOC	Glass	O&G	250m PI	500m PI	1L PI	Other	pH Check
[illegible]	[illegible]	Outfall	[illegible]	1:30 pm	G	W	N	N	X															
[illegible]	[illegible]	Erie Jumper	12-13 12-14	7:00 AM 7:00 AM	C	W	N	N		X														
[illegible]	[illegible]	Secondary Chamber	12-13 12-14	1:00 pm 1:00 pm	C	W	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
[illegible]	12 [illegible] 95				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**
[illegible]	[illegible]				
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

Pink copy-Client Yellow and White copy-Lab

CT&E Environmental Services Inc.

Otsego Wastewater Treatment Plant

Sample:	64006-4055	Matrix:	Water / Composite
Client Sample:	OTSE0730603	Location:	Secondary Clarifier
COLLECTED:	07/30/1996 :	Project:	Otsego WWTP - Weekly
RECEIVED:	07/31/1996 11:16	Sampled By:	Tony

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor Extraction	-	-	-	EPA 608	08/02/1996 SAJ
Aroclor-1016	ND	ug/L	0.1	"	08/05/1996 SM
Aroclor-1221	ND	ug/L	0.1	"	08/05/1996 SM
Aroclor-1232	ND	ug/L	0.1	"	08/05/1996 SM
Aroclor-1242	ND	ug/L	0.1	"	08/05/1996 SM
Aroclor-1248	0.1	ug/L	0.1	"	08/05/1996 SM
Aroclor-1254	ND	ug/L	0.1	"	08/05/1996 SM
Aroclor-1260	ND	ug/L	0.1	"	08/05/1996 SM
Aroclor-1262	ND	ug/L	0.1	"	08/05/1996 SM
Aroclor-1268	ND	ug/L	0.1	"	08/05/1996 SM

Note: This sample is a resample from 7-18-96.
Results confirm sample from 7-18-96.

ND = Non Detectable

Project Manager

Jacob Bialik

Reported : 08/06/1996

Lab ID# 64006

Chain of Custody

CT&E Environmental Services Inc.

Anatech Division 1200 Conrad Industrial Dr Ludington MI 49431 2685

Page

Phone 616-843-1877 FAX 616-845-9942

Results To Otsego WWTP
210 N Grant
Otsego, MI 49078

Attention Thomas Dinn

Telephone #

FAX ? Yes No FAX #

Invoice To

Telephone #

Project Name

Project Number

State in which samples were collected MI

REQUIRED COMPLETION DATE

Sampled by TONY MISZE

Work Authorization Signature

This signature authorizes CT&E to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form

Test Methods

Comment/Notes

Quote # UPS $4.50

*PCB - Resample For July 18 1996

Sample ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C/G	Sample Matrix	Drinking Water Y/N	Field Filtered Y/N	Hex. Chrom	Copper	PCB *							VOC	Glass	O&G	250ml Pl	500ml Pl	1L Pl	Other	pH Check
4053	OTSE0730601	OutFall	7-30-96	1:30 pm	G	W	N	N	X										1		1	1			
4054	OTSE0730602	EFFL Sampler	7-29 7-30	8:00 8:00 am	C	W	N	N		X															
4055	OTSE0730603	Secondary Clarifier	7-29 7-30	1:00 1:00 pm	C	W	N	N			X														

Relinquished by	Date Time am pm	Relinquished by	Date Time am pm	Relinquished by	Date Time am pm
Tony Misze	7-30-96 2:00pm				
Received by	Date Time am pm	Received by	Date Time am pm	Received by	Date Time am pm
	7-31-96				7-31-96 11:03

Cooler Temp #1 6°C Cooler Temp #2 Cooler Temp #3 Cooler Temp #4

ANATECH LAB 16168459942 08 21 08/07/1996

CT&E Environmental Services Inc.

Otsego Wastewater Treatment Plant

Sample:	63798-3308	Matrix:	Water	/ Composite
Client Sample:	OTSE0718603 Sec Clarifier	Location:		
COLLECTED:	07/18/1996 :	Project:	Otsego WWTP - Weekly	
RECEIVED:	07/19/1996 09:54	Sampled By:	TM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor Extraction	-	-	-	EPA 608	07/24/1996 SAJ
Aroclor-1016	ND	ug/L	0.1	"	07/26/1996 SM
Aroclor-1221	ND	ug/L	0.1	"	07/26/1996 SM
Aroclor-1232	ND	ug/L	0.1	"	07/26/1996 SM
Aroclor-1242	ND	ug/L	0.1	"	07/26/1996 SM
Aroclor-1248	0.2	ug/L	0.1	"	07/26/1996 SM
Aroclor-1254	ND	ug/L	0.1	"	07/26/1996 SM
Aroclor-1260	ND	ug/L	0.1	"	07/26/1996 SM
Aroclor-1262	ND	ug/L	0.1	"	07/26/1996 SM
Aroclor-1268	ND	ug/L	0.1	"	07/26/1996 SM

ND = Non Detectable

Project Manager

Jacob Bialik

Reported : 07/29/1996

Chain Custody

ANATECH LABORATORIES - A Division of CT&E Environmental Services

1200 Conrad Industrial Drive

Ludington, MI 49431

Phone: 616-843-1877 FAX. 616-845-9942

Anatech Lab ID#

Page of

Results To: [illegible]

[illegible]

[illegible] 49078

Attention: [illegible]

Telephone #

FAX #

Invoice To:

Telephone #

Project Name:

Project Number:

State in which samples were collected [illegible]

FAX Results: YES or NO

Required Completion Date

Sampled by: TONY [illegible]

Work Authorization Signature:

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form

Test Methods

Comment / Notes

[illegible]

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C/G	Sample Matrix	Drinking Water Y/N	Field Filtered Y/N	[illegible]	[illegible]	[illegible]						VOC	Glass	O&G	250m PI	500m PI	1L PI	Other	pH Check
	[illegible]	[illegible]	7-18-96	1:00 pm	G	W	N	N	X															
	[illegible]	EFFL Sample [illegible]	[illegible]	[illegible]	C	W	N	N		X														
	[illegible]	Secondary [illegible]	[illegible]	[illegible]	C	W	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
[illegible]	[illegible]				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**
	[illegible]				
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

Pink copy-Client Yellow and White copy-Lab

CT&E Environmental Services Inc.

Otsego Wastewater Treatment Plant

Sample:	63503-2301	Matrix:	Water / Composite
Client Sample:	OTSE0702603	Location:	Secondary Clairifier
COLLECTED:	07/02/1996 :	Project:	Otsego WWTP - Weekly
RECEIVED:	07/03/1996 11:21	Sampled By:	TM

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor Extraction	-	-	-	EPA 608	07/09/1996 LJ
Aroclor-1016	ND	ug/L	0.1	"	07/12/1996 SM
Aroclor-1221	ND	ug/L	0.1	"	07/12/1996 SM
Aroclor-1232	ND	ug/L	0.1	"	07/12/1996 SM
Aroclor-1242	ND	ug/L	0.1	"	07/12/1996 SM
Aroclor-1248	ND	ug/L	0.1	"	07/12/1996 SM
Aroclor-1254	ND	ug/L	0.1	"	07/12/1996 SM
Aroclor-1260	ND	ug/L	0.1	"	07/12/1996 SM
Aroclor-1262	ND	ug/L	0.1	"	07/12/1996 SM
Aroclor-1268	ND	ug/L	0.1	"	07/12/1996 SM

ND = Non Detectable

Project Manager

Jacob Bialik

Reported : 07/17/1996

Chain of Custody
ANATECH LABORATORIES - A Division of CT&E Environmental Services
1200 Conrad Industrial Drive
Ludington, MI 49431

Anatech Lab ID#:

Page of

Phone: 616-843-1877 FAX: 616-845-9942

Results To: Otsego WWTP
210 N Grant
Otsego, MI 49078

Attention: Thomas Dunn

Telephone #

FAX #

Invoice To:

Telephone #

Project Name:

Project Number:

State in which samples were collected: MI

FAX Results: YES or NO

Required Completion Date:

Sampled by: TONY MISZE

Work Authorization Signature:

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form.

Test Methods

Comment / Notes

UPS $4.38

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C/G	Sample Matrix	Drinking Water Y/N	Field Filtered Y/N	Hex. Chromium	Copper	PCB						VOC	Glass	O&G	~~250m~~ 500 PI	500m PI	1L PI	Other	pH Check
	OTSE0702601	OUTFALL	7-2-96	1130	G	W	N	N	X															
	OTSE0702602	EFFL. Sampler	7-1 7-2	2:00 AM 8:00	C	W	N	N		X														
	OTSE0702603	Secondary Chlorifier	7-1 7-2	1:00 pm 1:00	C	W	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
Tony Misze	7-2-96 2:00 pm				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**
[signature]	7-3-96				
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

Pink copy-Client Yellow and White copy-Lab

CT&E Environmental Services Inc.

Otsego Wastewater Treatment Plant

Sample:	63084-0871	Matrix:	Water / Composite
Client Sample:	OTSE0612603	Location:	Secondary Clarifier
COLLECTED:	06/12/1996 :	Project:	Otsego WWTP - Weekly
RECEIVED:	06/13/1996 10:54	Sampled By:	Tony

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	06/20/1996 SM
Aroclor-1221	ND	ug/L	0.1	"	06/20/1996 SM
Aroclor-1232	ND	ug/L	0.1	"	06/20/1996 SM
Aroclor-1242	ND	ug/L	0.1	"	06/20/1996 SM
Aroclor-1248	ND	ug/L	0.1	"	06/20/1996 SM
Aroclor-1254	ND	ug/L	0.1	"	06/20/1996 SM
Aroclor-1260	ND	ug/L	0.1	"	06/20/1996 SM
Aroclor-1262	ND	ug/L	0.1	"	06/20/1996 SM
Aroclor-1268	ND	ug/L	0.1	"	06/20/1996 SM

ND = Non Detectable

Project Manager

Tamela M. Johnson

Tamela M. Johnson

Reported : 06/21/1996

Chain ,ustody

ANATECH LABORATORIES - A Division of CT&E Environmental Services

1200 Conrad Industrial Drive

Ludington, MI 49431

Phone: 616-843-1877 FAX: 616-845-9942

Anatech Lab ID#: 63084

Page of

Results To: Otsego WWTP
210 N Grant
Otsego, MI 49078

Attention: Thomas Dunn

Telephone #

FAX #

Invoice To:

Telephone #

Project Name:

Project Number:

State in which samples were collected MI

FAX Results: YES or NO

Required Completion Date

Sampled by: Tony Misze

Work Authorization Signature:

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form

Test Methods

Comment / Notes

Total $1.26

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N	Hex. Chromium	Copper	PCP						VOC	Glass	O&G	250m PI	500m PI	1L PI	Other	pH Check
[illegible]	OTSE0612601	Outfall	6-12-96	2:00 pm	G	W	N	N	X									1		1	1			
[illegible]	OTSE0612602	Effl. Sample R	6-11 6-12	8:00 am 2:00	C	W	N	N		X														
[illegible]	OTSE0612603	Secondary Clarifier	6-11 6-12	1:00 pm 1:00	C	W	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
Tony Misze	6-12-96 2:30 pm				
Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

Pink copy-Client Yellow and White copy-Lab

CT&E Environmental Services Inc.

Otsego Wastewater Treatment Plant

Sample:	62903-0210	Matrix:	Water	/ Composite
Client Sample:	OTSE0603603 Sec Clarifier	Location:		
COLLECTED:	06/04/1996 :	Project:	Otsego WWTP - Weekly	
RECEIVED:	06/05/1996 10:38	Sampled By:	TM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	06/10/1996 SM
Aroclor-1221	ND	ug/L	0.1	"	06/10/1996 SM
Aroclor-1232	ND	ug/L	0.1	"	06/10/1996 SM
Aroclor-1242	ND	ug/L	0.1	"	06/10/1996 SM
Aroclor-1248	ND	ug/L	0.1	"	06/10/1996 SM
Aroclor-1254	ND	ug/L	0.1	"	06/10/1996 SM
Aroclor-1260	ND	ug/L	0.1	"	06/10/1996 SM
Aroclor-1262	ND	ug/L	0.1	"	06/10/1996 SM
Aroclor-1268	ND	ug/L	0.1	"	06/10/1996 SM

ND = Non Detectable

Project Manager

Tamela M. Johnson

Reported : 06/21/1996

Chain c ustody

ANATECH LABORATORIES - A Division of CT&E Environmental Services

1200 Conrad Industrial Drive

Ludington, MI 49431

Phone 616-843-1877 FAX 616-845-9942

Anatech Lab ID# [illegible]

Page of

Results To [illegible]

[illegible] Grant

[illegible] MI 49[illegible]

Attention

Telephone #

FAX #

Invoice To

Telephone #

Project Name

Project Number

State in which samples were collected MI

FAX Results YES or NO

Required Completion Date

Sampled by TONY [illegible]

Work Authorization Signature

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form

Test Methods

Comment / Notes

(UPS + $4.26)

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C/G	Sample Matrix	Drinking Water Y/N	Field Filtered Y/N	Hex. Chromium	Copper	PCB's						VOC	Glass	O&G	250m PI	500m PI	1L PI	Other	pH Check
[illegible]	[illegible]	Outfall	6-4-96	[illegible]	G	W	N	N	X															
[illegible]	[illegible]	Effl. Sampler	6-3 6-4-96	[illegible]	C	W	N	N		X														
[illegible]	[illegible]	Secondary Clarifier	6-3 6-4-96	[illegible]	C	W	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
[illegible]	6-4-96 2:00 PM				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**
[illegible]	[illegible]			[illegible]	
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

Pink Client Yellow and White copy-Lab

CT&E Environmental Services Inc.

Otsego Wastewater Treatment Plant

Sample:	62564-8864	Matrix:	Water	/ Composite
Client Sample:	OTSE0515603 Sec Clarifier	Location:		
COLLECTED:	05/15/1996 :	Project:	Otsego WWTP - Weekly	
RECEIVED:	05/16/1996 10:11	Sampled By:	TM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	05/22/1996 SM
Aroclor-1221	ND	ug/L	0.1	"	05/22/1996 SM
Aroclor-1232	ND	ug/L	0.1	"	05/22/1996 SM
Aroclor-1242	ND	ug/L	0.1	"	05/22/1996 SM
Aroclor-1248	ND	ug/L	0.1	"	05/22/1996 SM
Aroclor-1254	ND	ug/L	0.1	"	05/22/1996 SM
Aroclor-1260	ND	ug/L	0.1	"	05/22/1996 SM
Aroclor-1262	ND	ug/L	0.1	"	05/22/1996 SM
Aroclor-1268	ND	ug/L	0.1	"	05/22/1996 SM

ND = Non Detectable

Project Manager

Tamela M. Johnson

Reported : 05/23/1996

Chain of Custody
ANATECH LABORATORIES - A Division of CT&E Environmental Services
1200 Conrad Industrial Drive
Ludington, MI 49431

Anatech Lab ID#: [illegible]

Page of

Phone: 616-843-1877 FAX: 616-845-9942

Results To: Otsego [illegible]
210 N Grant
Otsego, MI 49078

Attention: Thomas Dunn

Telephone #

FAX #

Invoice To:

Telephone #

Project Name:

Project Number:

State in which samples were collected: MI

FAX Results: YES or NO

Required Completion Date:

Sampled by: TONY MISZE

Work Authorization Signature:

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form.

Test Methods

Comment / Notes

$6.26
UPS man adds an extra charge because containers are stiller form / not incased in cardboard. Not every UPS man [illegible]

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C/G	Sample Matrix	Drinking Water Y/N	Field Filtered Y/N	Hex Chromium	Copper	PCB						VOC	Glass	O&G	250m PI	500m PI	1L PI	Other	pH Check
[illegible]	OTSE0515601	Outfall	5-15-96	1:30 pm	G	W	N	N	X															
[illegible]	OTSE0515602	EFTC Sampler	5-14 5-15	8:00 AM 8:00	C	W	N	N		X														
[illegible]	OTSE0515603	Secondary Clarifier	5-14 5-15	1:00 pm 1:00	C	W	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
Tony Misze	5-15-96 2:00 pm				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**
[illegible]	[illegible]			[illegible]	

Cooler Temp #1 Cooler Temp #2 Cooler Temp #3 Cooler Temp #4

y-Client Yellow and White copy-Lab

CT&E Environmental Services Inc.

Otsego Wastewater Treatment Plant

Sample:	62451-8563	Matrix:	Water	/ Composite
Client Sample:	OTSE0508603 Sec.Clarifier	Location:		
COLLECTED:	05/08/1996 :	Project:	Otsego WWTP - Weekly	
RECEIVED:	05/09/1996 11:12	Sampled By:	TM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	05/15/1996 SM
Aroclor-1221	ND	ug/L	0.1	"	05/15/1996 SM
Aroclor-1232	ND	ug/L	0.1	"	05/15/1996 SM
Aroclor-1242	ND	ug/L	0.1	"	05/15/1996 SM
Aroclor-1248	ND	ug/L	0.1	"	05/15/1996 SM
Aroclor-1254	ND	ug/L	0.1	"	05/15/1996 SM
Aroclor-1260	ND	ug/L	0.1	"	05/15/1996 SM
Aroclor-1262	ND	ug/L	0.1	"	05/15/1996 SM
Aroclor-1268	ND	ug/L	0.1	"	05/15/1996 SM

ND = Non Detectable

Project Manager

Tamela M. Johnson

Reported : 05/16/1996

Chain o ustody

ANATECH LABORATORIES - A Division of CT&E Environmental Services

1200 Conrad Industrial Drive

Ludington, MI 49431

Phone 616-843-1877 FAX 616-845-9942

Anatech Lab ID# [illegible]

Page of

Results To Otsego WWTP
210 N Grant
Otsego, MI 49078

Attention Thomas Dunn

Telephone # [illegible]

FAX #

Invoice To

Telephone #

Project Name

Project Number

State in which samples were collected MI

FAX Results YES or NO

Required Completion Date

Sampled by [illegible]

Work Authorization Signature

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form

Test Methods

Comment / Notes

[illegible] $4.26

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C/G	Sample Matrix	Drinking Water Y/N	Field Filtered Y/N	Hex Chromium	[illegible]	[illegible]						VOC	Glass	O&G	250m PI	500m PI	1L PI	Other	pH Check
[illegible]	[illegible]	outfall	[illegible]	[illegible]	G	W	N	N	X															
[illegible]	[illegible]	EFFS ampler	[illegible]	[illegible]	C	W	N	N																
[illegible]	[illegible] 603	secondary Clarifier	[illegible]	[illegible]	C	W	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
[illegible]	[illegible]				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

Pink copy Client Yellow and White copy Lab

CT&E Environmental Services Inc.

Otsego Wastewater Treatment Plant

Sample:	61934-6709	Matrix:	Water	/ Composite
Client Sample:	OTSE0410603	Location:	Secondary Clarifier	
COLLECTED:	04/10/1996 :	Project:	Bi-Monthly	
RECEIVED:	04/11/1996 10:37	Sampled By:	Tony	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	04/17/1996 SM
Aroclor-1221	ND	ug/L	0.1	"	04/17/1996 SM
Aroclor-1232	ND	ug/L	0.1	"	04/17/1996 SM
Aroclor-1242	ND	ug/L	0.1	"	04/17/1996 SM
Aroclor-1248	ND	ug/L	0.1	"	04/17/1996 SM
Aroclor-1254	ND	ug/L	0.1	"	04/17/1996 SM
Aroclor-1260	ND	ug/L	0.1	"	04/17/1996 SM
Aroclor-1262	ND	ug/L	0.1	"	04/17/1996 SM
Aroclor-1268	ND	ug/L	0.1	"	04/17/1996 SM

ND = Non Detectable

Project Manager

Tamela M. Johnson

Tamela M. Johnson

Reported : 04/18/1996

Chain of Custody
ANATECH LABORATORIES - A Division of CT&E Environmental Services
1200 Conrad Industrial Drive
Ludington, MI 49431

Anatech Lab ID# [illegible]

Page of

Phone 616-843-1877 FAX 616-845-9942

Results To Otsego WWTP
210 N Grant
Otsego, MI 49078

Attention Thomas Dunn

Telephone #

FAX #

Invoice To:

Telephone #

Project Name: Bi-Monthly

Project Number

State in which samples were collected MI

FAX Results. YES or NO

Required Completion Date

Sampled by. Tony Wisza

Work Authorization Signature

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form

Test Methods

Comment / Notes

[illegible] $4.26

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C/G	Sample Matrix	Drinking Water Y/N	Field Filtered Y/N	Hex Chrom	[illegible]	[illegible]						VOC	Glass	O&G	250m PI	500m PI	1L PI	Other	pH Check
[illegible]	[illegible]	Cut Fall	[illegible]	[illegible]	G	W	N	N	X															
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	C	W	N	N		X														
[illegible]	[illegible]	Secondary Clarifier	[illegible]	[illegible]	C	W	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
Tony Wisza	4-10-96 2:00 pm				
Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)
[illegible]	4-10-96				
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

Pink copy Client Yellow and White copy-Lab

CT&E Environmental Services Inc.

Otsego Wastewater Treatment Plant

Sample:	61792-6341	Matrix:	Water	/ Composite
Client Sample:	OTSE0402603 Sec Clarifier	Location:		
COLLECTED:	04/02/1996 :	Project:	Bi-Monthly	
RECEIVED:	04/04/1996 11:23	Sampled By:	TM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	04/10/1996 SM
Aroclor-1221	ND	ug/L	0.1	"	04/10/1996 SM
Aroclor-1232	ND	ug/L	0.1	"	04/10/1996 SM
Aroclor-1242	ND	ug/L	0.1	"	04/10/1996 SM
Aroclor-1248	ND	ug/L	0.1	"	04/10/1996 SM
Aroclor-1254	ND	ug/L	0.1	"	04/10/1996 SM
Aroclor-1260	ND	ug/L	0.1	"	04/10/1996 SM
Aroclor-1262	ND	ug/L	0.1	"	04/10/1996 SM
Aroclor-1268	ND	ug/L	0.1	"	04/10/1996 SM

ND = Non Detectable

Project Manager

Tamela M. Johnson

Tamela M. Johnson

Reported : 04/11/1996

Chain of Custody
ANATECH LABORATORIES - A Division of CT&E Environmental Services
1200 Conrad Industrial Drive
Ludington, MI 49431

Anatech Lab ID# [illegible]

Page of

Phone: 616-843-1877 FAX: 616-845-9942

Results To: Otsego WWTP
210 N Grant
Otsego, MI 49078

Attention: Thomas Dunn

Telephone # 616 674-9194

FAX #

Invoice To:

Telephone #

Project Name: Bi-monthly

Project Number:

State in which samples were collected MI

FAX Results: YES or NO

Required Completion Date

Sampled by: TONY MISZE

Work Authorization Signature:

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Test Methods

Comment / Notes

[illegible]

UPS
$4.38

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N	Hex. Chromium	[illegible]	PCB						VOC	Glass	O&G	250m PI	500m PI	1L PI	Other	pH Check
[illegible]	CTSE0402601	Cottage	4-2-96	1:30 pm	G	W	N	N	X															
[illegible]	CTSE0402602	Effl Sampler	4-2-96	1:00 pm	C	W	N	N		X														
[illegible]	CTSE0402603	Secondary Clarifier	4-2-96	1:00 pm	C	W	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
[illegible]	4-2-96 [illegible]				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**
[illegible]	[illegible]				
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

Pink copy Client Yellow and White copy-Lab

CT&E Environmental Services Inc.

Otsego Wastewater Treatment Plant

Sample:	61540-5467	Matrix:	Water	/ Composite
Client Sample:	OTSE0320603 Sec Clarifier	Location:		
COLLECTED:	03/20/1996 :	Project:	Bi-Monthly	
RECEIVED:	03/21/1996 10:17	Sampled By:	TM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	03/26/1996 SM
Aroclor-1221	ND	ug/L	0.1	"	03/26/1996 SM
Aroclor-1232	ND	ug/L	0.1	"	03/26/1996 SM
Aroclor-1242	ND	ug/L	0.1	"	03/26/1996 SM
Aroclor-1248	ND	ug/L	0.1	"	03/26/1996 SM
Aroclor-1254	ND	ug/L	0.1	"	03/26/1996 SM
Aroclor-1260	ND	ug/L	0.1	"	03/26/1996 SM
Aroclor-1262	ND	ug/L	0.1	"	03/26/1996 SM
Aroclor-1268	ND	ug/L	0.1	"	03/26/1996 SM

ND = Non Detectable

Project Manager

Tamela M. Johnson

Tamela M. Johnson

Reported : 03/28/1996

Cha[illegible] Custody

ANATECH LABORATORIES - A Division of CT&E Environmental Services

1200 Conrad Industrial Drive

Ludington, MI 49431

Phone: 616-843-1877 FAX: 616-845-9942

Anatech Lab ID# [illegible]

Page of

Results To: [illegible]

[illegible]

[illegible]

Attention: [illegible]

Telephone # [illegible]

FAX # [illegible]

Invoice To: [illegible]

[illegible]

[illegible]

Telephone # [illegible]

Project Name: Bi-Monthly

Project Number:

State in which samples were collected [illegible]

FAX Results: YES or NO

Required Completion Date

Sampled by: [illegible]

Work Authorization Signature.

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form

Test Methods

Comment / Notes

[illegible]

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N	[illegible]	[illegible]	[illegible]							VOC	Glass	O&G	250m Pl	500m Pl	1L Pl	Other	pH Check
	[illegible]	[illegible]	[illegible]	[illegible]	G	W	N	N																	
	[illegible]	[illegible]	[illegible]	[illegible]	C	W	N	N		X															
	[illegible]	[illegible]	[illegible]	[illegible]	C	W	N	N			X														

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)

Cooler Temp #1 Cooler Temp #2 Cooler Temp #3 Cooler Temp #4

Pink copy-Client Yellow and White copy-Lab

CT&E Environmental Services Inc.

Otsego Wastewater Treatment Plant

Sample:	61420-5107	Matrix:	Water	/ Composite
Client Sample:	OTSE0313603 Sec Clarifier	Location:		
COLLECTED:	03/13/1996 :	Project:	Bi-Monthly	
RECEIVED:	03/14/1996 11:09	Sampled By:	TM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	03/20/1996 SM
Aroclor-1221	ND	ug/L	0.1	"	03/20/1996 SM
Aroclor-1232	ND	ug/L	0.1	"	03/20/1996 SM
Aroclor-1242	ND	ug/L	0.1	"	03/20/1996 SM
Aroclor-1248	ND	ug/L	0.1	"	03/20/1996 SM
Aroclor-1254	ND	ug/L	0.1	"	03/20/1996 SM
Aroclor-1260	ND	ug/L	0.1	"	03/20/1996 SM
Aroclor-1262	ND	ug/L	0.1	"	03/20/1996 SM
Aroclor-1268	ND	ug/L	0.1	"	03/20/1996 SM

ND = Non Detectable

Project Manager

Kelly Wilson for

Tamela M. Johnson

Reported 03/21/1996

Chain of Custody

ANATECH LABORATORIES - A Division of CT&E Environmental Services
1200 Conrad Industrial Drive
Ludington, MI 49431

Anatech Lab ID#: [illegible]

Page of

Phone: 616-843-1877 FAX. 616-845-9942

Results To: Otsego WWTP
210 N Grant
Otsego, MI 49078

Attention: Thomas Lunn

Telephone #

FAX #

Invoice To:

Telephone #

Project Name: Bi-monthly

Project Number

State in which samples were collected: MI

FAX Results: YES or NO

Required Completion Date

Sampled by: Tom Moes

Work Authorization Signature:

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form

Test Methods

Comment / Notes

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N	[illegible]	[illegible]	[illegible]	VOC	Glass	O&G	250m Pl	500m Pl	1L Pl	Other	pH Check
	OTSEW0336-01	Cut Fall	[illegible]	[illegible] pm	G	[illegible]	N	N	X										
	OTSEW0336-02	[illegible] sampler	[illegible]	[illegible] am	C	[illegible]	N	N		X									
	OTSEW0336-03	Excessive Discharge	[illegible]	[illegible] pm	C	[illegible]	N	N			X								

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
[illegible]	[illegible]				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**

Cooler Temp #1 | Cooler Temp #2 | Cooler Temp #3 | Cooler Temp #4

Pink copy-Client Yellow and White copy-Lab

CT&E Environmental Services Inc.

Otsego Wastewater Treatment Plant

Sample:	61032-3785	Matrix:	Water	/ Composite
Client Sample:	OTSE0221603	Location:	Sec. Clairifier	
COLLECTED:	02/21/1996 :	Project:	Otsego WWTP - Weekly	
RECEIVED:	02/22/1996 11:48	Sampled By:	AM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	02/28/1996 SM
Aroclor-1221	ND	ug/L	0.1	"	02/28/1996 SM
Aroclor-1232	ND	ug/L	0.1	"	02/28/1996 SM
Aroclor-1242	ND	ug/L	0.1	"	02/28/1996 SM
Aroclor-1248	ND	ug/L	0.1	"	02/28/1996 SM
Aroclor-1254	ND	ug/L	0.1	"	02/28/1996 SM
Aroclor-1260	ND	ug/L	0.1	"	02/28/1996 SM
Aroclor-1262	ND	ug/L	0.1	"	02/28/1996 SM
Aroclor-1268	ND	ug/L	0.1	"	02/28/1996 SM

ND = Non Detectable

Project Manager

Tamela M. Johnson

Reported : 02/29/1996

Chain c ustody

ANATECH LABORATORIES - A Division of CT&E Environmental Services

1200 Conrad Industrial Drive

Ludington, MI 49431

Phone: 616-843-1877 FAX: 616-845-9942

Anatech Lab ID#:

Page of

Results To: Tom DUNN
City of OTSEGO
117 E Orleans ST
OTSEGO MI 49078

Attention:

Telephone # 616-694-9191

FAX #

Invoice To:

Telephone #

Project Name:

Project Number:

State in which samples were collected

FAX Results: YES or NO

Required Completion Date:

Sampled by:

Work Authorization Signature:

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form.

Test Methods

Comment / Notes

OPs

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N								VOC	Glass	O&G	250m Pl	500m Pl	1L Pl	Other	pH Check
	OTSEGO21601	Outfall					N	N															
	OTSEGO21602	PFC Sampler					N	N															
	OTSEGO21603	Secondary Kettles					N	N															

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

Pink copy-Client Yellow and White copy-Lab

CT&E Environmental Services Inc.

Otsego Wastewater Treatment Plant

Sample:	60806-2918	Matrix:	Water	/ Composite
Client Sample:	OTSE0207603 Sec Clarifier	Location:		
COLLECTED:	02/07/1996 :	Project:	Bi-Monthly	
RECEIVED:	02/09/1996 11:45	Sampled By:	TM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	02/19/1996 SM
Aroclor-1221	ND	ug/L	0.1	"	02/19/1996 SM
Aroclor-1232	ND	ug/L	0.1	"	02/19/1996 SM
Aroclor-1242	ND	ug/L	0.1	"	02/19/1996 SM
Aroclor-1248	ND	ug/L	0.1	"	02/19/1996 SM
Aroclor-1254	ND	ug/L	0.1	"	02/19/1996 SM
Aroclor-1260	ND	ug/L	0.1	"	02/19/1996 SM
Aroclor-1262	ND	ug/L	0.1	"	02/19/1996 SM
Aroclor-1268	ND	ug/L	0.1	"	02/19/1996 SM

ND = Non Detectable

Project Manager

Kelly Wilson for
Tamela M Johnson

Reported : 02/21/1996

Chain c ustody

ANATECH LABORATORIES - A Division of CT&E Environmental Services

1200 Conrad Industrial Drive

Ludington, MI 49431

Phone. 616-843-1877 FAX 616-845-9942

Anatech Lab ID# [illegible]

Page of

Results To Otsego WWTP
[illegible] C Grant
Otsego, MI 49078

Attention Thomas Dunn

Telephone # 616-694-[illegible]

FAX # [illegible]

Invoice To

Telephone #

Project Name: Bi-Monthly Sampling

Project Number.

State in which samples were collected [illegible]

FAX Results: YES or NO

Required Completion Date

Sampled by: [illegible]

Work Authorization Signature

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form

Test Methods

Comment / Notes

[illegible]

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C/G	Sample Matrix	Drinking Water Y/N	Field Filtered Y/N	Hex. [illegible]	[illegible]	[illegible]						VOC	Glass	O&G	250m PI	500m PI	1L PI	Other	pH Check
[illegible]	[illegible]	Cut Fall	[illegible]	[illegible]	G	W	N	N	X															
[illegible]	[illegible]	EFFL. Sampler	[illegible]	[illegible]	C	W	N	N		X														
[illegible]	[illegible]	Secondary Clarifier	[illegible]	[illegible]	C	W	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
[illegible]	2-7-96 [illegible]				
Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)	Received by	Date / Time (am / pm)
[illegible]	[illegible]				
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

Pink copy-Client Yellow and White copy Lab

CT&E Environmental Services Inc.

Otsego Wastewater Treatment Plant

Sample:	60368-1396	Matrix:	Water	/ Composite
Client Sample:	OTSE01176003	Location:	Secondary Clairifier	
COLLECTED:	01/17/1996 :	Project:	Otsego WWTP - Weekly	
RECEIVED:	01/18/1996 11:42	Sampled By:	TM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	01/26/1996 SM
Aroclor-1221	ND	ug/L	0.1	"	01/26/1996 SM
Aroclor-1232	ND	ug/L	0.1	"	01/26/1996 SM
Aroclor-1242	ND	ug/L	0.1	"	01/26/1996 SM
Aroclor-1248	ND	ug/L	0.1	"	01/26/1996 SM
Aroclor-1254	ND	ug/L	0.1	"	01/26/1996 SM
Aroclor-1260	ND	ug/L	0.1	"	01/26/1996 SM
Aroclor-1262	ND	ug/L	0.1	"	01/26/1996 SM
Aroclor-1268	ND	ug/L	0.1	"	01/26/1996 SM

ND = Non Detectable

Project Manager

Kelly Wilson for

Tamela M. Johnson

Reported : 01/26/1996

Chain of Custody

ANATECH LABORATORIES - A Division of CT&E Environmental Services

1200 Conrad Industrial Drive

Ludington, MI 49431

Anatech Lab ID#

Page of

Phone: 616-843-1877 FAX: 616-845-9942

Results To: OTSEGO WWTP
210 N Grant
OTSEGO, MI 49078

Attention: Thomas Dunn

Telephone #

FAX #

Invoice To:

Telephone #

Project Name: B. Monthly

Project Number:

State in which samples were collected

FAX Results: YES or NO

Required Completion Date

Sampled by: Tony Wilson

Work Authorization Signature.

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form

Test Methods

Comment / Notes

See file

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N	[illegible]	[illegible]	[illegible]						VOC	Glass	O&G	250m Pl	500m Pl	1L Pl	Other	pH Check
	[illegible]	[illegible]	[illegible]	[illegible]	G	[illegible]	N	N	X															
	[illegible]	EFFLUENT Sampler	[illegible]	[illegible]	C	[illegible]	N	N		X														
	[illegible]	[illegible]	[illegible]	[illegible]	C	[illegible]	N	N			X													

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
[illegible]	[illegible]				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**
Cooler Temp #1	Cooler Temp #2	Cooler Temp #3	Cooler Temp #4		

Pink copy-Client Yellow and White copy-Lab

CT&E Environmental Services Inc.

Otsego Wastewater Treatment Plant

Sample:	60065-0198	Matrix:	Water	/ Composite
Client Sample:	OTSE01036003	Location:	Secondary Clairfier	
COLLECTED:	01/03/1996 :	Project:	Bi-Monthly	
RECEIVED:	01/04/1996 11:40	Sampled By:	TM	

Test Description	Result	Unit	Reporting Detection Limit	Method	Date/Analyst
POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor-1016	ND	ug/L	0.1	EPA 608	01/09/1996 SM
Aroclor-1221	ND	ug/L	0.1	"	01/09/1996 SM
Aroclor-1232	ND	ug/L	0.1	"	01/09/1996 SM
Aroclor-1242	ND	ug/L	0.1	"	01/09/1996 SM
Aroclor-1248	ND	ug/L	0.1	"	01/09/1996 SM
Aroclor-1254	ND	ug/L	0 1	"	01/09/1996 SM
Aroclor-1260	ND	ug/L	0.1	"	01/09/1996 SM
Aroclor-1262	ND	ug/L	0.1	"	01/09/1996 SM
Aroclor-1268	ND	ug/L	0.1	"	01/09/1996 SM

ND = Non Detectable

Project Manager

Kelly Wilson for

Tamela M. Johnson

Reported : 01/16/1996

Chain of Custody

ANATECH LABORATORIES - A Division of CT&E Environmental Services

1200 Conrad Industrial Drive

Ludington, MI 49431

Phone: 616-843-1877 FAX: 616-845-9942

Anatech Lab ID#: [illegible]

Page of

Results To: Otsego WWTP
210 N Grant
Otsego, MI 49078

Attention: Thomas Dunn

Telephone #

FAX #

Invoice To:

Telephone #

Project Name: Bi-Monthly

Project Number:

State in which samples were collected:

FAX Results: YES or NO

Required Completion Date:

Sampled by: TONY WIGZE

Work Authorization Signature:

This signature authorizes ANATECH to perform the work requested on this form and acknowledges the terms and conditions of payment which are listed on the reverse side of this form.

Test Methods

Comment / Notes

UPS
$4.14

ANATECH Lab ID	Client Sample ID	Sampling Location	Date	Time am / pm	Comp Grab C / G	Sample Matrix	Drinking Water Y / N	Field Filtered Y / N	Hex. Chromium	Cyanide	PCB					VOC	Glass	O&G	250m Pl	500m Pl	1L Pl	Other	pH Check
	OTSE0103600 1	Outfall	1-3-95	2:00 pm	G	W	N	N	X														
	OTSE0103600 2	Grab Sampler	1-3-95	8:00 AM	C	W	N	N		X													
	OTSE0103600 3	Secondary Clarifier	1-3-95	11:00 AM	C	W	N	N			X												

Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)	Relinquished by	Date / Time (am / pm)
[illegible]	1-3-95 2:30 pm				
Received by	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**	**Received by**	**Date / Time (am / pm)**

Cooler Temp #1 Cooler Temp #2 Cooler Temp #3 Cooler Temp #4

Pink copy-Client Yellow and White copy-Lab

KAR Laboratories, Inc.
4425 Manchester Road
Kalamazoo, MI 49002

(616) 381-9666

ANALYTICAL REPORT

To: Otsego, City of WWTP
117 E. Orleans
Otsego, MI 49078

Attn: Mr. Tom Dunn

Proj. No.:	920657
Client No.:	1060
Date Activated:	3/25/92
Date Promised:	4/15/92
Date Reported:	4/14/92
PO#:	1181

Project Desc.: Quarterly analysis of one aqueous sample.

Dear Client:

Attached you will find test results for Project No. 920657. Please refer to this Project No. if you have any questions regarding this work.

Respectfully submitted,
KAR Laboratories, Inc.

William H. Bouma

William H. Bouma, Ph.D.
Director

WHB/sm

ANALYTICAL RESULTS

To: Otsego, City of WWTP

Project No: 920657
Report Date: 4/14/92

Project Desc.: Quarterly analysis of one aqueous sample.

Sample No.:920657-01 Sample type: aqueous Received on: 3/25/92
ID: **"Effluent, 3/25/92, 4:00am"**

PCB, total	*0.93 ug/L*	*Identified and quantified as Aroclor 1260.*

Unless otherwise noted, test results represent the sample(s) as they were received.

KAR Laboratories, Inc.
4425 Manchester Road
Kalamazoo, MI 49002

(616) 381-9666

ANALYTICAL REPORT

To: Otsego, City of WWTP
117 E. Orleans
Otsego, MI 49078

Attn: Mr. Tom Dunn

Proj. No.:	921364
Client No.:	1060
Date Activated:	6/12/92
Date Promised:	7/06/92
Date Reported:	6/25/92
PO#:	1225

Project Desc.: Analysis of one aqueous sample.

Dear Client:

Attached you will find test results for Project No. 921364. Please refer to this Project No. if you have any questions regarding this work.

Respectfully submitted,
KAR Laboratories, Inc.

William H. Bouma

William H. Bouma, Ph.D.
Director

WHB/sm

KAR Laboratories, Inc.
4425 Manchester Road
Kalamazoo, MI 49002

(616) 381-9666

ANALYTICAL REPORT

To: Otsego, City of WWTP
117 E. Orleans
Otsego, MI 49078

Attn: Mr. Tom Dunn

Proj. No.:	921529
Client No.:	1060
Date Activated:	7/06/92
Date Promised:	7/27/92
Date Reported:	7/17/92
PO#:	1235

Project Desc.: Analysis of two aqueous samples.

Dear Client:

Attached you will find test results for Project No. 921529. Please refer to this Project No. if you have any questions regarding this work.

Respectfully submitted,
KAR Laboratories, Inc.

William H. Bouma

William H. Bouma, Ph.D.
Director

WHB/kb

CITY OF OTSEGO
117 E.Orleans St.
Otsego , Michigan 49078
(616)692-3391
fax (616)692-2643

fax

to:	Ms. Dawn E. Perriman Blasland Bouck & Lee Inc.
fax #:	(315)-449-0017
from:	Thomas W. Dunn Otsego WWTP Supt.
date:	September 27, 2001
subject:	FOIA Request
pages:	1
NOTES:	This acknowledges receipt of FOIA request and is our required response within 5 business days per the FOIA. The information you requested is currently being compiled and will be sent to you by October 5 ,2001.

FAX TRANSMISSION

BLASLAND, BOUCK & LEE, INC.
6723 TOWPATH ROAD, BOX 66
SYRACUSE, NY 13214
PHONE 315-446-9120
FAX 315-445-9161

To:	Tom Dunn Otsego Wastewater Treatment Plant (c/o City Hall)	**Fax #:**	616-692-2643
Date:	September 25, 2001	**Pages:**	_2_, including cover page.
From:	Dawn E. Penniman, P.E.	**cc:**	
Subject:	FOIA Request - WWTP Project #: 645.02.100 #2		

COMMENTS: Please see the attached.

IN CASE OF TRANSMISSION PROBLEMS, PLEASE CONTACT TRACI DARBY @ 315-446-2570, EXT. 438

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BBL®
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Transmitted Via Fax

September 25, 2001

Mr. Tom Dunn, Superintendent
Otsego Wastewater Treatment Plant
210 N. Grant St.
Otsego, MI 49078

Re: FOIA Request - WWTP
BBL Project #: 645.02.100 #2

Dear Mr. Dunn:

Under the Freedom of Information Act, I am requesting a copy of all information generated since 1990 regarding PCB monitoring at the Otsego Wastewater Treatment Plant. The information I am requesting includes, but is not limited to, the following: all data and reports related to any PCB analyses performed on influent, in plant, and effluent waters, all data related to any PCB analyses performed on sludge and other solids, all supporting field and laboratory information related to these data, current and historical PCB-related monitoring plans for the facility, and the list of industries that currently discharge to the facility.

Please call me if you have any questions or would like to discuss this request.

Sincerely,

BLASLAND, BOUCK & LEE, INC.

Dawn Penniman

Dawn E. Penniman, P.E.
Sr. Project Specialist II

DEP/tld

cc: Cynthia V. Bailey, Esq., Georgia-Pacific Corporation
Bonnie A. Barnett, Esq., Drinker, Biddle & Reath
J. Michael Davis, Esq., Georgia-Pacific Corporation
Kathy E.B. Robb, Esq., Hunton & Williams
Andrew E. Skroback, Esq., Hunton & Williams
Mark P. Brown, Ph.D., Blasland, Bouck & Lee, Inc.

6723 Towpath Road • P.O. Box 66 • Syracuse, NY 13214-0066
Tel (315) 446-9120 • Fax (315) 449-0017 • www.bbl-inc.com • offices nationwide

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TABLE I
CITY OF OTSEGO WWTP
DATA FOR REQUESTS 11 AND 12
INFLUENT/EFFLUENT FLOW, TSS mg/l and TSS lbs/day

MONTH/YEAR	FLOW MGD	INFLUENT TSS mg/l	INFLUENT TSS lbs/day	EFFLUENT TSS mg/l	EFFLUENT TSS lbs/day
January 1956	No flow record	N/A	N/A	N/A	N/A
February	No flow record	N/A	N/A	N/A	N/A
March	No flow record	295	N/A	50	N/A
April	0.494	200	N/A	77	N/A
May	0.538	N/A	N/A	N/A	N/A
June	0.459	N/A	N/A	N/A	N/A
July	0.39	N/A	N/A	N/A	N/A
August	0.386	312	1004	53	171
September	0.366	331	1010	40	122
October	0.386	311	1001	48	155
November	0.446	287	1066	58	214
December 1956	No flow record	258	N/A	53	N/A
January 1957	No flow record	297	N/A	73	N/A
February	0.485	461	1865	91	367
March	0.493	204	837	55	228
April	0.63	220	1156	56	294
May	0.651	248	1348	54	292
June	0.631	262	1379	48	253
July	0.631	331	1742	80	421
August	0.613	363	1856	51	261
September	0.599	N/A	N/A	N/A	N/A
October	0.578	303	1461	72	347
November	0.586	236	1153	59	288
December 1957	0.589	282	1385	55	270
January 1958	0.575	228	1093	49	235
February	0.56	259	1210	109	509
March	0.596	277	1377	62	310
April	0.598	204	1017	65	324
May	0.593	267	1320	63	312
June	0.555	500	2314	91	421
July	0.58	309	1495	65	314
August	0.517	385	1660	53	229
September	0.422	291	1024	44	155
October	0.425	245	868	53	188
November	0.445	269	998	61	226
December 1958	0.448	327	1222	110	411
January 1959	0.447				
February					
March	0.45	332	1246	85	341
April	0.531	302	1337	85	376
May	0.561	306	1461	59	322
June	0.514	209	940	68	350
July	0.473	324	1360	64	273
August	0.513	250	1080	61	265
September	0.469	253	980	80	310
October	0.468	344	1410	94	390
November	0.462	276	1020	104	420
December 1959	0.458	273	1050	95	360

MONTH/YEAR	FLOW MGD	INFLUENT TSS mg/l	INFLUENT TSS lbs/day	EFFLUENT TSS mg/l	EFFLUENT TSS lbs/day
January 1960	0.552	256	1180	80	373
February	0.609	No Data	No Data	No Data	No Data
March	0.52	256	1180	80	373
April	No flow record	No Data	No Data	No Data	No Data
May					
June					
July					
August					
September					
October					
November					
December 1960					
January 1961					
February					
March					
April					
May					
Jue					
July					
August					
September					
October					
November					
December 1961					
January 1962	No flow record	No Data	No Data	No Data	No Data
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December 1962					
January 1963	No flow record	No Data	No Data	No Data	No Data
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December 1963					

MONTH/YEAR	FLOW MGD	INFLUENT TSS mg/l	INFLUENT TSS lbs/day	EFFLUENT TSS mg/l	EFFLUENT TSS lbs/day
January 1964	0.3	367	885	211	535
February	0.28	354	917	134	352
March	0.3	332	782	139	354
April	0.24	363	832	146	320
May	0.35	354	965	127	313
June	0.39	333	1080	104	373
July	0.41	241	947	64	251
August	0.41	312	1090	70	254
September	0.36	448	1352	74	248
October	0.36	no data	n.d.	n.d.	n.d.
November	0.317	280	760	58	161
December 1964	0.36	350	1110	108	336
January 1965	0.36	305	1016	121	404
February	0.4	340	1075	134	442
March	0.44	286	1175	125	442
April	0.48	296	1225	125	501
May	0.467	267	1116	86	343
June	0.45	no data	n.d.	n.d.	n.d.
July	0.47	264	910	75	259
August	0.48	289	1231	108	456
September	0.496	242	920	83	34
October	0.49	250	972	99	384
November	0.445	321	1305	131	510
December 1965	0.45	213	1102	100	388
January 1966	0.395	246	827	105	347
February	0.422	235	644	111	410
March	0.426	273	985	108	390
April	0.44	266	1047	57	224
May	0.49	210	905	92	395
June	0.52	168	760	111	461
July	0.516	186	885	63	291
August	0.61	no data	n.d.	n.d.	n.d.
September	0.55	209	1000	74	405
October					
November					
December 1966					
January 1967					
February					
March					
April	0.57	227	1000	234	1055
May	0.5	241	1018	121	535
June	0.63	237	1220	61	310
July	0.57	203	965	76	358
August	0.49	282	1181	46	211
September	0.46	316	1282	65	312
October	0.44	237	900	85	328
November	0.4	234	830	63	216
December 1967	0.41	344	1230	75	270

MONTH/YEAR	FLOW MGD	INFLUENT TSS mg/l	INFLUENT TSS lbs/day	EFFLUENT TSS mg/l	EFFLUENT TSS lbs/day
January 1968	0.47	272	1002	104	390
February	NO DATA				
March	NO DATA				
April	NO DATA				
May	NO DATA				
June	NO DATA				
July	0.54	249	1160	53	249
August	0.59	249	1280	64	330
September	0.58	317	1575	44	245
October	0.49	252	1147	79	362
November	0.47	221	925	91	490
December 1968	0.49	234	1020	102	457
January 1969	0.56	242	1154	148	787
February	0.65	196	1030	119	626
March	0.63	187	105	19	610
April	0.67	201	1075	111	615
May	0.58	174	982	98	505
June	0.63	190	1035	93	532
July	0.62	200	1085	89	437
August	0.58	235	1250	85	448
September	0.59	177	810	72	325
October	0.48	178	720	61	258
November	0.44	189	774	72	284
December 1969	0.49	254	1040	73	291
January 1970	0.56	269	1370	71	420
February	0.54	231	1085	122	575
March	0.54	241	1110	115	530
April	0.56	186	775	104	495
May	0.59	237	1245	90	428
June	0.64	218	1235	74	400
July	0.63	No Data	No Data	NoData	No Data
August	0.59	No data	No Data	No Data	No Data
September	0.55	171	860	56	273
October	0.49	181	805	64	285
November	0.51	169	735	72	329
December 1970	0.5	217	925	88	360
January 1971	0.49	232	964	98	407
February	0.5	192	850	112	491
March	0.56	274	1320	160	764
April	0.53	223	1005	80	418
May	0.55	235	1120	65	305
June	0.61	209	1060	65	326
July	0.6	180	1005	51	293
August	0.64	195	1075	77	426
September	0.61	255	1435	176	700
October	NO DATA				
November	0.61	190	1000	66	352
December 1971	0.6	217	1203	74	407

MONTH/YEAR	FLOW MGD	INFLUENT TSS mg/l	INFLUENT TSS lbs/day	EFFLUENT TSS mg/l	EFFLUENT TSS lbs/day
January 1972	0.65	221	1300	89	515
February	0.61	161	972	70	424
March	0.62	240	1200	108	328
April	0.63	211	1320	84	526
May	0.74	182	1190	91	592
June	0.76	193	1280	69	460
July	0.74				
August	0.77	179	1185	59	370
September	0.72	154	876	67	426
October	0.67	172	1040	55	348
November	0.67	202	1085	85	540
December 1972	0.7	128	770	53	321
January 1973	0.71	143	914	74	475
February	0.68	182	1095	78	470
March	0.7	228	1352	70	410
April	0.75	252	1570	73	458
May	0.74	174	1070	72	445
June	0.83	160	1110	76	525
July	0.8	152	1010	57	384
August	0.8	151	1010	49	322
September	0.72	146	879	46	277
October	0.71	160	945	47	276
November	0.68	193	1090	43	432
December 1973	0.67	222	1240	70	390

MONTH/YEAR	FLOW MGD	INFLUENT TSS mg/l	INFLUENT TSS lbs/day	EFFLUENT TSS mg/l	EFFLUENT TSS lbs/day
January 1974	NO DATA				
February	0.75	143	895	79	492
March	0.88	130	755	77	560
April	0.92	167	1275	86	660
May	0.83	197	1360	68	475
June	0.69	148	850	43	250
July	0.562	190	922	66	296
August	0.81	183	1225	44	299
September	0.712	166	1075	51	341
October	0.678	191	1082	65	369
November	0.673	174	978	64	278
December 1974	0.61	215	1097	77	392
January 1975	0.65	237	1289	70	447
February	0.389	182	658	64	236
March	0.528	220	972	57	207
April	0.628	202	1060	51	269
May	0.71	180	1066	40	240
June	0.59	203	1000	34	168
July	0.52	254	1104	45	196
August	0.477	328	1308	31	125
September	0.41	250	856	24	81
October	0.395	315	1040	27	90
November	0.38	257	816	32	100
December 1975	0.57	280	1330	41	194
January 1976	0.7	341	1995	67	396
February	0.723	229	1380	63	379
March	0.88	209	1534	40	295
April	0.82	228	1561	64	435
May	0.84	256	1797	47	333
June	0.852	268	1898	38	269
July	0.83	256	1772	34	237
August	0.79	243	1599	33	214
September	0.77	219	1406	21	134
October	0.77	210	1349	49	314
November	0.75	214	1338	48	304
December 1976	0.71	186	1102	55	327
January 1977	0.72	216	1295	64	386
February	0.82	185	1268	70	479
March	0.84	199	1398	37	259
April	0.75	301	1886	55	346
May	0.82	245	1675	31	214
June	0.72	260	1560	25	151
July	0.699	230	1339	30	173
August	0.66	190	1050	27	150
September	0.56	209	976	31	136
October	0.69	172	992	22	129
November	0.536	208	929	40	166
December 1977	0.509	202	1001	51	218

MONTH/YEAR	FLOW MGD	INFLUENT TSS mg/l	INFLUENT TSS lbs/day	EFFLUENT TSS mg/l	EFFLUENT TSS lbs/day
January 1978	0.516	188	811	60	260
February	0.491	215	972	54	223
March	0.549	154	772	41	190
April	0.583	156	831	34	167
May	0.611	211	1056	30	151
June	0.742	203	1393	28	172
July	0.787	195	1367	33	219
August	0.697	169	1058	22	126
September	0.62	171	964	24	135
October	0.562	167	853	32	163
November	0.567	142	720	28	137
December 1978	0.567	149	784	28	147
January 1979	0.582	154	802	43	225
February	0.591	137	702	43	220
March	0.676	154	929	32	186
April	0.696	129	804	33	205
May	0.655	172	1010	31	188
June	0.602	229	1244	29	160
July	0.549	220	1127	23	129
August	0.519	220	984	29	134
September	0.5	198	946	27	128
October	0.522	211	989	27	127
November	0.483	188	835	31	138
December 1979	0.476	216	1001	40	182
January 1980	0.487	202	919	40	177
February	0.505	188	875	50	232
March	0.498	190	834	60	278
April	0.529	218	1041	40	193
May	0.496	282	1290	43	199
June	0.582	220	1139	30	157
July	0.566	199	1028	21	109
August	0.635	140	790	24	141
September	0.557	168	828	20	98
October	0.523	218	1030	22	102
November	0.451	243	1023	23	96
December 1980	0.472	325	1383	27	116
January 1981	0.448	258	1038	33	133
February	0.476	277	1190	38	166
March	0.492	232	1013	29	126
April	0.504	314	1373	30	129
May	0.59	323	1738	29	154
June	0.641	249	1428	29	164
July	0.573	251	1331	26	137
August	0.591	229	1242	21	113
September	0.504	227	1037	24	110
October	0.488	239	1031	21	91
November	0.458	289	1182	31	129
December 1981	0.46	277	1181	26	110

MONTH/YEAR	FLOW MGD	INFLUENT TSS mg/l	INFLUENT TSS lbs/day	EFFLUENT TSS mg/l	EFFLUENT TSS lbs/day
January 1982	0.468	227	961	40	167
February	0.522	239	1143	31	150
March	0.576	265	1367	43	220
April	0.562	225	1135	35	176
May	0.582	289	1556	27	148
June	0.571	282	1463	26	135
July	0.555	254	1345	20	107
August	0.59	232	1272	28	155
September	0.536	229	1130	21	107
October	0.454	239	994	25	100
November	0.42	268	1019	22	85
December 1982	0.419	228	872	25	94
January 1983	0.42	228	867	26	100
February	0.465	214	865	31	132
March	0.544	213	1033	40	192
April	0.531	327	1552	39	186
May	0.602	300	1640	43	234
June	0.53	314	1519	36	173
July	0.507	256	1208	27	125
August	0.531	256	1247	23	115
September	0.445	235	982	18	75
October	0.414	275	1061	31	119
November	0.41	264	993	32	21
December 1983	0.465	242	1064	34	150
January 1984	0.524	232	1120	41	195
February	0.484	254	1124	43	187
March	0.474	273	1140	44	182
April	0.446	249	1001	44	180
May	0.403	227	846	30	110
June	0.461	162	689	28	119
July	0.436	173	659	24	99
April	0.481	142	613	27	118
September	0.457	161	683	26	111
October	0.436	174	687	24	95
November	0.381	169	581	21	72
December 1984	0.355	219	722	26	87
January 1985	0.398	158	559	34	120
February	0.393	168	577	31	107
March	0.53	133	605	25	115
April	0.551	123	587	21	98
May	0.364	167	540	26	84
June	0.331	182	540	29	86
July	0.292	174	474	26	71
August	0.327	164	477	25	73
September	0.272	164	411	28	71
October	0.268	189	467	26	65
November	0.314	160	450	18	50
December 1985	0.343	173	482	19	52

MONTH/YEAR	FLOW MGD	INFLUENT TSS mg/l	INFLUENT TSS lbs/day	EFFLUENT TSS mg/l	EFFLUENT TSS lbs/day
January 1986	0.421	164	600	18	67
February	0.45	160	620	29	114
March	0.505	146	645	26	112
April	0.508	166	722	18	79
May	0.497	166	729	26	117
June	0.549	154	751	21	101
July	0.625	121	669	26	143
August	0.563	143	729	20	104
September	0.629	154	821	23	126
October	1.003	113	886	25	197
November	0.64	137	767	19	105
December 1986	0.468	155	664	24	103
January 1987	0.489	155	662	26	110
February	0.472	163	670	40	163
March	0.506	171	733	26	114
April	0.514	178	786	23	103
May	0.513	183	821	30	132
Jue	0.51	158	701	27	118
July	0.542	158	752	22	106
August	0.506	170	729	24	104
September	0.476	168	703	29	123
October	0.463	165	660	23	92
November	0.456	173	697	28	111
December 1987	0.425	181	662	23	84
January 1988	0.438	216	812	28	104
February	0.495	149	615	30	123
March	0.488	185	763	30	126
April	0.473	176	698	25	98
May	0.477	162	671	35	141
June	0.433	185	675	19	72
July	0.425	173	659	15	58
August	0.448	164	646	26	101
September	0.391	157	531	19	65
October	0.392	161	545	22	73
November	0.413	178	634	23	82
December 1988	0.399	176	628	22	78
January 1989	0.412	185	655	36	126
February	0.407	175	601	30	104
March	0.422	186	670	33	119
April	0.49	179	756	25	105
May	0.53	163	750	17	78
June	0.688	140	816	19	108
July	0.483	172	751	15	65
August	0.453	171	683	12	50
September	0.414	159	584	19	71
October	0.355	181	560	23	74
November	0.341	212	629	19	56
December 1989	0.317	254	734	22	65

MONTH/YEAR	FLOW MGD	INFLUENT TSS mg/l	INFLUENT TSS lbs/day	EFFLUENT TSS mg/l	EFFLUENT TSS lbs/day
January 1990	0.407	160	562	25	87
February	0.42	177	641	30	108
March	0.42	155	569	29	107
April	0.47	251	888	27	113
May	0.52	146	659	43	191
June	0.524	230	1048	52	235
July	0.484	154	655	32	136
August	0.463	218	880	16	64
September	0.42	157	616	9	35
October	0.403	171	583	15	51
November	0.377	155	497	17	55
December 1990	0.387	191	625	14	44
January 1991	0.399	142	482	16	54
February	0.358	146	437	14	43
March	0.446	158	574	14	52
April	0.602	120	612	13	65
May	0.513	178	771	15	63
June	0.391	132	449	10	35
July	0.368	135	427	10	30
August	0.354	137	405	8	23
September	0.372	107	336	7	22
October	0.366	137	417	11	34
November	0.367	144	449	18	54
December 1991	0.43	162	129	17	60
January 1992	0.418	126	440	19	65
February	0.413	150	514	18	61
March	0.44	138	509	18	67
April	0.406	174	608	15	50
May	0.406	139	474	15	51
June	0.369	133	405	15	45
July	0.387	130	433	12	39
August	0.391	128	425	8	26
September	0.401	144	482	9	29
October	0.372	171	543	13	40
November	0.367	158	502	17	54
December 1992	0.352	341	992	18	54
January 1993	0.395	294	987	16	54
February	0.367	281	874	19	61
March	0.39	234	798	19	66
April	0.512	360	1483	17	75
May	0.501	148	629	10	44
June	0.431	182	669	12	43
July	0.403	220	777	6	22
August	0.431	219	771	6	21
September	0.413	154	536	6	20
October	0.406	161	553	8	27
November	0.383	121	391	11	34
December 1993	0.34	127	380	10	29

MONTH/YEAR	FLOW MGD	INFLUENT TSS mg/l	INFLUENT TSS lbs/day	EFFLUENT TSS mg/l	EFFLUENT TSS lbs/day
January 1994	0.333	121	335	17	46
February	0.349	113	330	18	55
March	0.379	136	436	14	43
April	0.401	164	561	16	53.9
May	0.388	166	549	13.5	44.7
June	0.388	153	494	7.3	23.4
July	0.397	127	432	7.1	23.9
August	0.406	151	515	7.6	26.1
September	0.405	172	584	6.2	21.2
October	0.396	142	469	7.3	24.5
November	0.4	149	510	8.1	27.7
December 1994	0.385	148	480	11.3	37
January 1995	0.38	158	498	9.5	30.1
February	0.352	167	489	15.8	46.7
March	0.386	157	513	13.86	45.2
April	0.389	147	478	10.75	35.2
May	0.389	161	532	12.23	40.3
June	0.391	144	472	9.86	32.2
July	0.384	137	437	6.24	19.9
August	0.413	133	458	5.74	19.7
September	0.388	215	708	10.53	34.5
October	0.376	164	511	13.13	41.1
November	0.36	1625	497	15.75	48.1
December 1995	0.33	150	416	23.8	67
January 1996	0.328	186	511	23.17	64.1
February	0.359	155	470	23.67	70.7
March	0.377	141	462	22.43	71.9
April	0.348	172	533	17.1	53
May	0.365	153	494	14.48	46.8
June	0.425	147	541	12.19	44.7
July	0.416	102	364	13.14	45.5
August	0.41	130	474	5.62	20.3
September	0.308	150	393	4.76	12.4
October	0.26	165	366	5.96	13.3
November	0.218	175	324	7.67	14.1
December 1996	0.256	155	330	13.84	29.1
January 1997	0.259	161	348	15.45	33.9
February	0.345	144	426	14.2	40.4
March	0.456	143	550	13.29	52.4
April	0.363	164	505	10.59	32.5
May	0.332	171	483	9.8	27.6
June	0.354	133	385	9.18	27
July	0.309	134	355	7.41	19.3
August	0.285	160	393	8.3	20.5
September	0.297	175	443	11.48	29.2
October	0.291	195	476	14.45	35.4
November	0.27	215	499	10	22.8
December 1997	0.268	167	378	11.26	25.6

MONTH/YEAR	FLOW MGD	INFLUENT TSS mg/l	INFLUENT TSS lbs/day	EFFLUENT TSS mg/l	EFFLUENT TSS lbs/day
January 1998	0.296	158	395	13.1	32.6
February	0.3	164	418	14.6	36.7
March	0.313	170	445	12.6	32.7
April	0.357	139	417	10.95	32.9
May	0.312	169	444	8.25	21.9
June	0.287	162	392	9.18	22.2
July	0.276	219	502	7.42	16.9
August	0.275	194	449	6.14	14.4
September	0.39	207	681	6.1	19.9
October	0.384	190	624	7.6	25.1
November	0.371	209	668	11.45	36
December 1998	0.346	192	581	12.3	37
January 1999	0.339	153	437	10.6	30.5
February	0.365	194	604	7.6	23.7
March	0.35	179	533	9.1	27.3
April	0.395	182	613	11.9	39.7
May	0.399	225	772	8.4	29.2
June	0.392	188	623	8.3	27.4
July	0.395	1836	616	7.6	25.6
August	0.406	177	614	5.65	19.5
September	0.39	214	706	6.2	20.6
October	0.393	215	710	5.8	19.2
November	0.383	192	625	6.7	21.8
December 1999	0.37	168	537	7.8	25
January 2000	0.35	185	551	8.8	25.8
February	0.366	172	532	7.7	23.8
March	0.374	181	576	11.6	36.9
April	0.386	185	592	13.4	42.8
May	0.416	166	571	9.4	33.3
June	0.405	169	586	5.4	18.5
July	0.396	141	475	5.52	18.5
August	0.401	179	602	6.9	23
September	0.396	194	638	5.4	17.9
October	0.385	183	596	6.7	21.8
November	0.373	158	503	6.7	21.4
December 2000	0.332	166	468	8.2	22.8
January 2001	0.349	169	497	9.45	27.9
February	0.399	181	599	10.9	36.1
March	0.419	152	536	10.43	36.6
April	0.404	161	540	13.95	47
May	0.448	167	627	14.59	53.5
June	0.457	129	492	8	31.5
July	0.383	153	489	5.2	16.8
August	0.383	142	459	7.2	23.4
September	0.378	178	566	6.4	20.2
October	0.416	172	593	6.1	21.4
November	0.393	188	628	6.32	21
December 2001	0.361	188	583	8.1	24.8

MONTH/YEAR	FLOW MGD	INFLUENT TSS mg/l	INFLUENT TSS lbs/day	EFFLUENT TSS mg/l	EFFLUENT TSS lbs/day
January 2002	0.368	175	545	8	24.3
February	0.385	177	572	8.7	28
March	0.459	150	575	11.1	42.3
April	0.438	157	569	11.6	42.3
May	0.47	165	662	11.1	44.4
June	0.411	153	537	8.6	30.1
July	0.381	161	512	7.7	25
August	0.419	178	639	7.2	25.2
September	0.385	175	561	7.2	23.5
October	0.391	176	573	7.7	25
November	0.4	227	7382	8.2	27.9
December 2002	0.335	155	434	8.8	24.5
January 2003	0.319	163	433	8.5	22.5
February	0.318	150	393	12.45	32.8
March	0.355	145	420	12.95	38.3
April	0.425	149	529	14.2	50.4
May					
June					
July					
August					
September					
October					
November					
December 2003					

ATTACHMENT 2
BIOSOLIDS DATA
RESPONSE TO REQUEST 15

BIOSOLIDS GENERATED FROM OTSEGO WWTP

Date and Year	Quantity Dry Tons	Disposal Method	Disposal Location
August 2002	40.74	Subsurface Injection	Lat. 42:30:58 Long. 85:46:31
August 2001	66.58	Subsurface Injection	Lat. 42:30:55 Long. 85:43:39
September 2000	63.61	Subsurface Injection	Lat. 42:30:427 Long.85:43:740
July 1999	68.04	Subsurface Injection	Lat. 42:26 Long.85:49
December 1998	58.4 Metric Ton	Subsurface Injection	Section 3 Watson Twp. Allegan County MI
October 1997	44.94 Metric Ton	Subsurface Injection	Section 10 Alamo Twp. Kalamazoo County MI
September 1996	45.78 Metric Ton	Subsurface Injection	Section 10 Alamo Twp. Kalamazoo Co. MI
September 1995	85.9 Dry Ton	Subsurface Injection	Section 10 Alamo Twp. Kalamazoo County MI
May 1995	47.15 Dry Ton	Subsurface Injection	Section 10 Alamo Twp. Kalamazoo Co. MI
November 1993	48.43 Metric Ton	Subsurface Injection	Section 10 Alamo Twp. Kalamazoo County MI
May 1993	59.98 Dry Metric Tons	Subsurface Injection	Section 10 Alamo Twp. Kalamazoo County MI

August 1992	44.8 Dry Ton	Subsurface Injection	Section 10 Alamo Twp. Kalamazoo Co. MI
April 1992	18.0	Subsurface Injection	Section 10 Alamo Twp. Kalamazoo Co. MI
June 1991	15.0 dryton	Subsurface Injection	Section 9 OtsegoTwp. Allegan County MI
December 1990	12.7 Dry Ton	Subsurface Injection	Section 12 Otsego Twp. Allegan Co. MI
October 1989	22.14 Dry Ton	Subsurface Injection	Section 9 Otsego Twp. Allegan Co. MI
April 1989	12.3 Dry Ton	Subsurface Injection	Section 9 Otsego Twp. Allegan Co. MI
November 1988	11.9 Dry Ton	Subsurface Injection	Section 9Otsego Twp. Allegan Co. MI
May 1988	64.08	Subsurface Injection	Section 10 Watson Twp. Allegan Co. MI
August 1986 May 1986	7.4 7.0	Subsurface injection Same	Section 9 Otsego Twp. Allegan Co. MI
November 1985 August 1985 July 1985 May 1985 April 1985	9.5 D.T. 1.3 10.2 6.9 3.7	Subsurface Injection	Section3Otsego Twp. Allegan Co. MI
November 1984 August 1984 July 1984 May 1984 April 1984	9.4 3.3 4.8 6.1 1.8	Subsurface Injection	Section 3 Otsego Twp. Allegan Co. MI

December 1983 3.98 Subsurface Injection Section3Ots Twp
November 1983 3.92 Allegan CO MI
September 1983 1.56
August 1983 2.44
July 1983 2.72June 1983 4.37May 1983 1.6

September 1982 158.7 Subsurface Injection TrowbridgeTwp
August 1982 9.8 Allegan Co. MI

August 1982	3.76	Spreader and Plowed	Section3Otsego Twp. Allegan Co. MI
August 1982	4.08	Spread and Incorporated	Section 28 Otsego Twp. Allegan Co. MI
July 1982	8.0	Incorporated	Section 3Otsego Twp. Allegan Co. MI
May 1982	1.8	Incorporated	Section28Otsego Twp. Allegan Co. MI
May 1982	1.6	Incorporated	Section 3 Otsego Twp. Allegan Co. MI
April 1982	10.4	Incorporated	Section 3 Otsego Twp. Allegan Co. MI
December 1981	5.6	Subsurface Injection	Section Polkton Twp. Ottawa County MI
November 1981	4.4	Subsurface Injection	Section 3 Otsego Twp. Allegan Co. MI
October 1981	1.84	Subsurface Injection	Section 3 Otsego Twp. Allegan Co. MI
August 1981	3.68	Subsurface Injection	Section 3 Otsego Twp. Allegan Co. MI
July 1981	0.78	Incorporated	Section 28 Otsego Twp. Allegan Co.MI

July 1981	4.56	Incorporated	Section 3 Otsego Twp. Allegan Co. MI
June 1981	5.64	Incorporated	Section 28 Otsego Twp. Allegan Co.MI

ATTACHMENT 4
NPDES PERMITS
RESPONSE TO REQUEST 18

City of Otsego

117 EAST ORLEANS STREET OTSEGO, MICHIGAN 49078 PHONE: (616) 692-3391

September 17, 1987

Mr. Eugene Zelmanski
Plant Engineer
Parker Hannifin Corporation
FluidPower Pump Division
100 Parker Drive
Otsego, Michigan 49078

Dear Mr. Zelmanski:

Enclosed please find one (1) copy of the anlaytical report for the recent comprehensive annual sample for your facility. This report also includes results for the ploychlorinated biphenyls (PCB) sampling.

The monitoring of your facility's wastewater discharge is required by the City of Otsego Industrial Pretreatment Program. The PCB testing is part of a PCB source detection plan that has been developed as a result of the PCB levels present in the Otsego wastewater effluent. The plan simply states that all significant industrial discharges will be analyzed for PCB in an effort to pinpoint the source or sources. Upon discovery of the source, efforts will then be made to eliminate the PCB discharge.

Please review the enclosed analytical report. Upon review of this report it should be noted that significant amounts of the following chemicals were detected:

TABLE I

PCB's	0.24 ug/l	Identified as Aroclor 1254
Grease & Oil	76 mg/l	
1,1-Dichloroethane	36 ug/l	
1,1,1-Trichloroethane	42 ug/l	
Toluene	8.5 ug/l	

Other chemicals that were detected are:

TABLE II

Chloroform	1.3 ug/l
Cis-1,2-Dichloroethene	2.4 ug/l
Tetrachloroethene	1.0 ug/l

It is apparent that your facility is a source of PCB's that has been entering the Otsego sewer system. The other chemicals listed in Table I are at significantly high levels to cause concern. Please review your plant processes to determine how these chemicals are entering your facility's waste stream. Elimination of detectable amounts of PCB in your discharge should be of highest priority. The reduction of levels of chemicals in Table I to the lowest practicable levels should also be undertaken as soon as possible.

Please conduct a study on this problem and submit a report on your findings to the Otsego Wastewater Treatment Plant within thrity (30) days of receipt of this letter.

If you should have any questions concerning this letter please do not hesitate to call 694-9194.

Sincerely,
Thomas W. Dunn

Thomas W. Dunn, Supt.
Wastewater Treatment Plant

Encl.

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION V
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

RECEIVED AUG 13 1984

REPLY TO ATTENTION OF:
5HT-16

08 AUG 1984

Bronislaw Kochanczyk, Area Safety Engineer
Industrial Hydraulics Division
Parker Hannifin Corporation
100 Parker Drive
Otsego, Michigan 49078

Re: PCB Compliance Inspection

Dear Mr. Kochanczyk:

On April 26, 1984, Michigan Department of Natural Resources (MDNR), under contract to the United States Environmental Protection Agency (U.S. EPA), conducted a PCB compliance inspection of the Industrial Hydraulics Division, Parker Hannifin Corporation, 100 Parker Drive, Otsego, Michigan. Based upon the data collected during that inspection, the U.S. EPA has determined that no violations of the Federal PCB regulations, 40 CFR Part 761 et. seq., were evident at the time of inspection.

A copy of the inspection report is enclosed for your information. If you have any questions, please do not hesitate to contact Sheldon Simon, Regional PCB Coordinator, at (312) 353-2291.

Sincerely,

for Karl E. Bremer
Mitchell J. Wrich, Chief
Toxic Materials Branch

Enclosure

cc: E. Hall
E. Zelmanski

REPORT ON INSPECTION TO DETERMINE COMPLIANCE WITH THE PCB DISPOSAL AND MARKING REGULATIONS

PARKER HANNIFIN CORP.
INDUSTRIAL HYDRAULICS DIVISION
100 Parker Drive
Otsego, Michigan 49078

PCB INSPECTION # 03019
April 26, 1984

Performed by:

MICHIGAN DEPARTMENT OF NATURAL RESOURCES
HAZARDOUS WASTE DIVISION
P. O. Box 30028
LANSING, MICHIGAN 48909

I COMPANY IDENTIFICATION

Parker Hannifin Corp.
Industrial Hydraulics Division
100 Parker Drive
Otsego, Michigan 49078
616-694-9411

Responsible Official

Mr. Bronislaw Kochanczyk, Area Safety Engineer

II DATE OF INSPECTION

April 26, 1984

III PARTICIPANTS

Company

Mr. Bronislaw Kochanczyk, Area Safety Engineer

Michigan Dept. of Natural Resources

Mr. Ben Hall, Water Quality Specialist (Author)

IV OBJECTIVES

The inspection was conducted to document the company's handling, storage and disposal practices and to determine its compliance with the PCB Disposal and Marking Regulations, 40 CFR Part 761, as published in the Federal Register.

V COMPANY BACKGROUND

Production - Industrial hydraulic pumps and controls
Sic Number - 3490
Distribution - Nationwide
Plant size - 68,000 sq. feet of building space with 144 employees
Location - South side of the City of Otsego
Home Company - Parker Hannifin Corp.
300 Parker Drive, Otsego
Basis for selection - Neutral inspection scheme

Manufacturing Processes - This facility machines and assembles hydraulic pumps and controls. Most machines used in operations are hydraulic and use Mobil DTE 24 fluid

VI INSPECTION SUMMARY

A. Opening Conference

The inspector presented his credentials along with the Notice of Inspection and the Confidentiality Form to the company representative. The scope and objectives of the inspection were explained, which included PCB records review, marking, storage and disposal compliance as well as sampling of various oil systems.

B. Electrical Equipment

At the time of the inspection, this facility had four PCB transformers in service and non-leaking. Transformer inspections were completed by company personnel but all servicing was done by Blair Electric from Kalamazoo, Michigan.

C. Hydraulic Systems

This facility operates a large number of different types of hydraulic machines with fluid capacity of over 5 gallons. No hot processes were observed and all fluids were reported to be petroleum based. Samples were taken at random machines and one from a drip pan under a hydraulic unit. A sample was also taken from the waste oil storage tank.

D. Heat Transfer Systems

None reported.

E. Storage

None reported.

F. Disposal

None reported.

G. Recordkeeping

This facility maintained an adequate annual record on PCBs and PCB items.

Quarterly transformer inspection records were kept with all maintenance records on the PCB transformers.

H. Marking/Labeling

All four PCB transformers were labeled with the M_L label.

I. Oils

All oils used in this facility are virgin oils supplied by Mobil Oil Company listed as DTE-Z4. Waste oils and cleaning water from floor scrubbers is bulk stored in an underground tank. Waste oils are picked up by Stoddard & Sons Co. from Wayland, Michigan.

J. Drainage and Water Systems

The major use of water at this facility is for domestic uses and is discharged to the city sanitary system. Floor washing water is the only process water observed during the inspection. Wash water is bulk stored in the waste oil storage tank and is picked up with the waste oil by Stoddard & Sons Co. from Wayland, Michigan.

K. Spills

None reported.

L. Closing Conference

The company representative was given a receipt for the samples taken.

VII PHOTOGRAPHS

None taken.

VIII SAMPLES

Sample ID	Source	Results
03019A	Hydraulic oil - from hydraulic unit #2402 (50 gal.)	ND*
03019B	Hydraulic oil - from hydraulic unit #1603 (35 gal.)	ND
03019C	Oil sample - Hydraulic unit #2514 (35 gal.)	ND
03019D	Oil & water - Waste oil tank (3/4 full) (2000 gal.)	ND

*ND - Not detected

A

EPA United States Environmental Protection Agency NOTICE OF INSPECTION	Name of Firm: PARKER HANNIFIN CORP.
	Firm Address: INDUSTRIAL HYDRAULICS DIVISION 100 PARKER DR
Inspector Name and Address: BEN HALL MDNR HAZARDOUS WASTE DIV. P.O. BOX 30028 LANSING	Date: Tsego, MI — Time: 9 00 AM
Inspector's Signature: Ben Hall	Name and Title of Recipient: 1/26/84
Title: WATER Quality Specialist	Signature of Recipient: B. Kochowitz

REASON FOR INSPECTION

PCB INSPECTION

Under the authority of Section 11 of the Toxic Substances Control Act

[X] For the purpose of inspecting (including taking samples, photographs, statements, and other inspection activities) an establishment, facility, or other premises in which chemical substances or mixtures or articles containing same are manufactured, processed or stored, or held before or after their distribution in commerce (including records, files, papers, processes, controls, and facilities) and any conveyance being used to transport chemical substances, mixtures, or articles containing same in connection with their distribution in commerce (including records, files, papers, processes, controls and facilities) bearing on whether the requirements of the Act applicable to the chemical substances, mixtures, or articles within or associated with such premises or conveyance have been compiled with.

[ ] In addition, this inspection extends to (circle appropriate letters).

(A) Financial data
(B) Sales data
(C) Pricing data
(D) Personnel data
(E) Reserach data

The nature and extent of inspection of such data specified in A through E above as follows:

United States Environmental Protection Agency

TSCA INSPECTION CONFIDENTIALITY NOTICE

Facility: PARKER HANNIFIN CORP.

Facility Address: INDUSTRIAL HYDRAULICS DIV, 100 PARKER DR, OSTEGO, MI

Inspector Name: BEN HALL

Inspector Address: MDNR HAZARDOUS WASTE DIV, P.O. BOX 30028, LANSING, MI

Chief Executive Officer of Firm:

Title:

Name of Individual to Whom Notice Given:

Title:

It is possible that EPA will receive public requests for release of the information obtained during inspection of the facility above. Such requests will be handled by EPA in accordance with provisions of the Freedom of Information Act (FOIA), 5 U.S.C. 552; EPA regulations issued thereunder, 40 CFR Part 2; and the Toxic Substances Control Act, Section 14. EPA is required to make inspection data available in response to FOIA requests unless the Administrator of the Agency determines that the data contains information entitled to confidential treatment.

Any or all the information collected by EPA during the inspection may be claimed confidential if it relates to trade secrets or commercial or financial matters that you consider to be confidential. If you make claims of confidentiality, EPA will disclose the information only to the extent, and by means of the procedures, set forth in the regulations (cited above) governing EPA's treatment of confidential information. Among other things, the regulations require that EPA notify you in advance of publicly disclosing any information you have claimed and certified confidential.

To Claim Confidential Information

To claim information confidential, you must certify that each claimed item meets all of the following criteria:

1. Your company has taken measures to protect the confidentiality of the information, and it intends to continue to take such measures.
2. The information is not, and has not been, reasonably obtainable without your company's consent by other persons (other than governmental bodies) by use of legitimate means (other than discovery based on a showing of special need in a judicial or quasi-judicial proceeding).
3. The information is not publicly available elsewhere.
4. Disclosure of the information would cause substantial harm to your company's competitive position.

At the completion of the inspection, you will be given a receipt for all documents, samples, and other materials collected. At that time, you may make claims that some or all of the information is confidential and meets the four criteria listed above.

If you are not authorized by your company to make confidentiality claims, this notice will be sent by certified mail, along with the receipt for documents, samples, and other materials to the Chief Executive Officer of your firm within two days of this date. The Chief Executive Officer must return a statement specifying any information which should receive confidential treatment.

The statement from the Chief Executive Officer should be addressed to: Paul Meriage
U.S. EPA 5HT-TUB
Toxic Materials Branch
230 S. Dearborn
Chicago, IL 60604

and mailed by registered, return-receipt-requested mail within seven (7) calendar days of receipt of this Notice.

Failure by your firm to submit a written request that information be treated as confidential, either at the completion of the inspection or by the Chief Executive Officer within the seven-day period, will be treated by EPA as a waiver by your company of any claims for confidentiality regarding the inspection data.

To be completed by facility official receiving this notice

I have received and read this Notice.

Name: B. KOCHANCZYK

Title: AREA SAFETY ENGINEER

Signature: B. Kochanczyk

Date: April 26th 1984.

If there is no one on the premises of the facility who is authorized to make business confidentiality claims for the firm, a copy of this Notice and other inspection materials will be sent to the company's chief executive officer. If there is another company official who should also receive this information, please designate below.

Name:

Title:

Address:

United States Environmental Protection Agency

RECEIPT FOR SAMPLES AND DOCUMENTS

Name of Firm: PARKER HANNIFIN CORP.	
Firm Address: Industrial Hydraulics Div. 100 Parker Dr. Otsego, MI	
Inspector Name: Ben Hall	
Inspector Address: MDNR Hazardous Waste Div. P.O. Box 30028 Lansing, MI	Name of Individual:
	Title:
Date Collected: 4/26/84	Duplicate Samples Requested and Received: ( ) Yes (✓) No
Sample Numbers: 03019	

The documents and samples of chemical substances and/or mixtures described below were collected in connection with the administration and enforcement of the Toxic Substances Control Act.

Receipt for the document(s) and/or sample(s) described is hereby acknowedged:

03019A - Hydraulic oil sample
03019B - Hydraulic oil sample
03019C - oil sample - cooling oil
03019D - Oil sample - waste oil storage

Signature of Inspector: Ben Hall	Signature of Owner, Operator, or Agent: B. Kochanowski
Title: Water Quality Specialist	Title: Area Safety Eng.

[illegible] Park, Illinois [illegible]

TUSB 359

Project Date: 05/04/84

DATASET TUSB 359

ANALYTICAL REPORT

Date: May 18, 1984

GCL NO.	SAMPLE IDENTITY	AROCLOR 1242	AROCLOR 1016	AROCLOR 1248	AROCLOR 1254	AROCLOR 1260	TOTAL PCBs
48752	84TS96S01 OIL	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
48753	84TS96S02 OIL	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg
48754	84TS96S03 OIL	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg
48755	84TS96S04 OIL*	<35 mg/kg	<35 mg/kg	<35 mg/kg	<35 mg/kg	<35 mg/kg	< 5 mg/kg
[illegible]	[illegible]	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg
[illegible]	[illegible]	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg

*THIS SAMPLE CONTAINED INTERFERRING PEAKS WHICH DO NOT APPEAR TO BE PCBS. IF THE PEAK AREAS ARE CALCULATED AS PCBS THEY WOULD BE BELOW THE DETECTION LIMIT INDICATED ABOVE.

ANALYST _____ DATE May 18, 1984

APPROVED [signature]

HAZARDOUS WASTE DIV.

JUN 13 1984

RECEIVED

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

TRANSMITTAL OF EVIDENCE AND LABORATORY ANALYSIS

CASE NUMBER 03019

Location:

- ☐ Michigan State Police Crime Laboratory
- ☐ Michigan Dept. of Public Health
- ☐ DNR Pathologist EPA
- ☐ DNR Environmental Laboratory Region V

From: Ben Hall MDNR Hazardous Waste Div Conservation Officer
P.O. Box 30028 Lansing MI Address & Phone No.

Description of Evidence — Describe Fully: Manufacturer's Model No., Serial No., Officer's Marks, Tag or Seal Numbers

03019A - Hydraulic oil - from hydraulic unit #2402 9:10
03019B - Hydraulic oil - from hydraulic unit #1603 (35gal) 9:15
03019C - Oil - hydraulic unit #2514 9:20
03019D - Oil & Water - waste oil tank 9:25

Type of Analysis Requested:

PCB'S

Name and Address of Person(s) From Whom Property Seized: (If Known)

Received By: Signature & Badge No.	Date	Time	Received by: Signature & Badge No.	Date	Time
Ben Hall	4/26/84	9 AM			
[illegible] (U.S. EPA)	5/2/84	2:30			
[illegible]	5/4/84	9 am			

Final Disposition of Property: Date

Returned to Owner By:	
Received By: (Signature of Owner)	
Confiscated By: (Signature and Badge No.)	
Destroyed By: Witnessed:	
How Destroyed:	

White — Retain with evidence
Canary — Investigating Officer
Pink — Lab
Goldenrod — District Office with Prosecution Report

R 9103
Rev. 6/81

[illegible], Park, Illinois [illegible]

TOSB 359

Project Date: 05/[illegible]/84

DATASET TOSB 359

ANALYTICAL REPORT

Date: May 18, 1984

GCL NO.	SAMPLE IDENTITY	AROCLOR 1242	AROCLOR 1016	AROCLOR 1248	AROCLOR 1254	AROCLOR 1260	TOTAL PCBS
48752	84TS96S01 OIL	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]				
48753	84TS96S02 OIL	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg
48754	84TS96S03 OIL	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg
48755	84TS96S04 OIL*	<35 mg/kg	<35 mg/kg	<35 mg/kg	<35 mg/kg	<35 mg/kg	< 5 mg/kg
[illegible]	[illegible]	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg
[illegible]	[illegible]	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg	< 5 mg/kg

*THIS SAMPLE CONTAINED INTERFERRING PEAKS WHICH DO NOT APPEAR TO BE PCBS. IF THE PEAK AREAS ARE CALCULATED AS PCBS THEY WOULD BE BELOW THE DETECTION LIMIT INDICATED ABOVE.

ANALYST _____ DATE May 18, 1984

APPROVED Donald Lipple

HAZARDOUS WASTE DIV

JUN 13 1984

RECEIVED

NATURAL RESOURCES COMMISSION
LARRY DEVUYST
PAUL EISELE
MARLENE J. FLUHARTY
GORDON E. GUYER
DAVID HOLLI
O. STEWART MYERS
RAYMOND POUPORE

STATE OF MICHIGAN

JOHN ENGLER, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T. MASON BUILDING
P.O. BOX 30028
LANSING, MI 48909

ROLAND HARMES, Director

RECEIVED
NOV 20 1991
CITY OF OTSEGO
MICHIGAN

November 15, 1991

CERTIFIED MAIL

Ms. Jane Tice, Clerk
City of Otsego
117 East Orleans
Otsego, Michigan 49078

Dear Ms. Tice:

SUBJECT: NPDES Permit No. MI0023744
Wastewater Treatment Plant

Your National Pollutant Discharge Elimination System (NPDES) Permit has been processed in accordance with appropriate state and federal regulations. It contains the requirements necessary for you to comply with state and federal water pollution control laws.

REVIEW THE PERMIT EFFLUENT LIMITS AND COMPLIANCE SCHEDULES CAREFULLY. These are subject to the criminal and civil enforcement provisions of both state and federal law. Permit violations are audited by the Michigan Department of Natural Resources and the United States Environmental Protection Agency and may appear in a published quarterly noncompliance report made available to agencies and the public.

Your monitoring and reporting responsibilities must be complied with in accordance with this permit. If applicable, Discharge Monitoring Report forms will be transmitted to you in the near future. These reports are to be submitted monthly or otherwise as required by your NPDES permit.

Any reports, notifications, or questions regarding the attached permit or NPDES program should be directed to the following address:

Fred Morley, District Supervisor
621 North Tenth Street
P.O. Box 355
Plainwell, Michigan 49080
Telephone: (616) 685-9886

NOTE: All references within this permit made to the Water Quality Division or Chief of the Water Quality Division are to refer to the Surface Water Quality Division or Chief of the Surface Water Quality Division, respectively.

Sincerely,

William E. McCracken

William E. McCracken, P.E.
Chief, Permits Section
Surface Water Quality Division
517-373-8088

Enclosure: Permit

cc: EPA-Region V (2)
208 Agency - West Michigan Regional Planning Commission
Wastewater Treatment Facility Superintendent
Planning and Special Programs Section, SWQD
Mr. Fred Morley - Plainwell District, SWQD (2)
Mr. Paul Blakeslee, Regional Supervisor, Region III, SWQD
Compliance and Enforcement, SWQD
Data Entry, SWQD
Point Source Studies (Grand Rapids District Office), SWQD
Files

PERMIT NO. MI0023744

MICHIGAN WATER RESOURCES COMMISSION
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), Michigan Act 98, Public Acts of 1913, as amended, being sections 325.201 through 325.214 of the Compiled Laws of Michigan, and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, being sections 323.1 through 323.13 of the Compiled Laws of Michigan, the "Michigan Act"),

City of Otsego
117 East Orleans Street
Otsego, Michigan 49078

is authorized to discharge from a facility located at

117 East Orleans Street
Otsego, Michigan 49078

designated as the Otsego WWTP

to the receiving water named the Kalamazoo River in accordance with effluent limitations, monitoring requirements and other conditions set forth in this permit.

This permit takes effect on February 1, 1992. Any person who feels aggrieved by this permit may file a sworn petition with the Executive Secretary of the Michigan Water Resources Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested terms shall be stayed until the Commission takes its final action. If a contested condition is a requirement placed on wastewater covered by a new or increased discharge authorization, such increased discharge authorization shall be stayed until the Commission takes final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight October 1, 1995. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission to the Permits Section of the Surface Water Quality Division no later than 180 days prior to the date of expiration.

This permit is based on an application submitted on May 14, 1990. On its effective date this permit shall supersede NPDES Permit No. MI0023744, expiring September 30, 1989.

Issued this 17th day of October, 1991, by the Michigan Water Resources Commission.

Paul D. Zugger
Executive Secretary

PART I

Section A.1.a. (continued)

*The sampling procedures, preservation and handling, and analytical protocol for compliance monitoring for PCBs shall be in accordance with EPA Method 608. The detection limit shall not exceed 0.1 ug/l for PCBs, unless higher levels are appropriate because of sample matrix interference. Other methods may be used upon approval of the Chief of the Surface Water Quality Division.

The water quality-based effluent limitations for PCBs are less than the level of detection using the specified analytical methods. Any discharge of PCBs at or above the level of detection is a specific violation of this permit. If all the samples in any monthly reporting period are less than the level of detection, the Water Resources Commission will consider the permittee to be in compliance with the final effluent limitations for these pollutants for that reporting period, provided that the permittee is also in full compliance with the PCB minimization program set forth in Part I.A.6. This paragraph does not authorize the discharge of PCBs at levels which are injurious to the designated uses of the waters of the state or which constitute a threat to the public health or welfare. [Total PCBs shall be defined as the sum of Aroclors 1242, 1254, and 1260. In addition, any detected Aroclor-specific measurements shall be reported.]

b. Sampling Frequency - The effluent characteristics shall be measured at the following frequency: Copper and Total Phosphorus shall be sampled weekly. PCB shall be sampled twice monthly. Total Residual Chlorine shall be sampled daily during chlorination. From the effective date until March 1, 1993, Hexavalent Chromium and Total Copper shall be sampled quarterly. On and after March 1, 1993, Hexavalent Chromium and Total Copper shall be sampled weekly. On the effective date Total Zinc shall be sampled quarterly. PCB shall be sampled quarterly from the effective date until June 1, 1993, and twice monthly thereafter. All other parameters shall be sampled 5x weekly. Quarterly sampling shall be in January, April, July, and October.

c. Sampling Type and Location

(1) The sampling for $CBOD_5$, Total Suspended Solids, Ammonia Nitrogen, Copper, Zinc, PCBs, and Total Phosphorus shall be 24-hour composites taken prior to disinfection. The sampling for Dissolved Oxygen, Fecal Coliform Bacteria, Hexavalent Chromium, Total Residual Chlorine and pH shall be grab samples taken of the effluent.

(2) Compliance with the Total Residual Chlorine limit shall be determined on the basis of one or more grab samples. If more than one sample per day is taken, the additional samples shall be collected in near equal intervals over at least 8 hours. The samples shall be analyzed immediately upon collection and the average reported as the daily maximum. The level of detection shall be determined for the analytical method used by following the procedures prescribed in 40 CFR 136 Appendix B. The reported level of detection shall not exceed 0.036 mg/l unless a higher level is appropriate because of sample matrix interference.

d. During the period that Fecal Coliform Bacteria limitations are in effect, the permittee shall provide adequate control and facilities to ensure continuous disinfection.

e. In addition to the $CBOD_5$ and Total Suspended Solids limitations above, the 30-day average effluent $CBOD_5$ and Total Suspended Solids concentrations shall not exceed 25 percent of the average influent concentrations for approximately the same period.

PART I

Section A.2.d. (continued)

ii. If the toxicity requirements of Rule 82 are close to being exceeded, upon written notification by the Plainwell District Supervisor, the permittee shall conduct quarterly acute toxicity tests on the effluent from outfall 001 for the life of the permit. After 1 year the monitoring frequency may be reduced upon approval of the Plainwell District Supervisor if the test data indicate that the toxicity requirements of Rule 82 are consistently being met. The acute toxicity tests shall be performed using the more sensitive species selected from the acute toxicity database produced in item 2.c., above. If a more sensitive species cannot be identified, the acute toxicity tests shall be performed with both species.

The Surface Water Quality Division will review the toxicity data submitted by the permittee to determine if the toxicity requirements of Rule 82 are being satisfied. If the toxicity requirements of Rule 82 are not being met, upon written notification by the Plainwell District Supervisor, the conditions of item 2.e.i., above, apply.

f. This permit may be modified in accordance with Part II.D.4. to include additional whole effluent toxicity requirements as necessary.

3. Special Condition - Notification Requirement

The permittee shall notify the Plainwell District Supervisor of the Surface Water Quality Division, in writing, within 10 days of knowing, or having reason to believe, that any activity or change has occurred or will occur which would result in the discharge of:

a. Detectable levels* of chemicals on the current Michigan Critical Materials Register or priority pollutants or hazardous substances set forth in 40 CFR 122.21, Appendix D, which were not acknowledged in the application** or listed in the application at less than detectable levels.

b. Detectable levels* of any other chemical not listed in the application or listed at less than detection, for which the application specifically requested information.

c. Any chemical at levels greater than five times the average level reported in the application**.

Any other monitoring results obtained as a requirement of this permit shall be reported in accordance with the schedule of compliance.

*The detectable level shall be defined as the Method Detection Limit (MDL) as given in Appendix B to Part 136, Federal Register, Vol. 49, No. 209, October 26, 1984, pp. 43430-31.

**The application submitted on May 14, 1990.

PART I

Section A.

6 . Special Condition - PCB Minimization Program

This special condition establishes the program necessary for proceeding toward compliance with the final effluent limitations for PCB. The goal is to reduce all sources of PCB entering the wastewater collection system to less than the level of detection as identified in Part I.A.1. The permittee shall establish and implement a Minimization Program in accordance with the following schedule:

On or before June 1, 1992, the permittee shall submit to the Plainwell District Supervisor of the Surface Water Quality Division an approvable PCB Minimization Program. The Minimization Program shall, as a minimum, include the following:

a. Identification of all potential PCB sources entering the wastewater collection system.

b. A program for assessing the concentrations and mass loadings of PCB in all of the identified potential sources.

c. A program for monitoring of influent and sludge for PCB.

d. A control strategy designed to achieve the goal of eliminating all detectable PCB entering the wastewater collection system by June 1, 1993.

e. Appropriate control measures to be implemented when detectable discharges of PCB are discovered.

The Minimization Program shall be implemented upon approval by the Plainwell District Supervisor of the Surface Water Quality Division.

On or before January of each year following approval of the PCB Minimization Program, the permittee shall submit a Program Update to the Plainwell District Supervisor of the Surface Water Quality Division that includes (1) the monitoring results for the previous year, (2) an updated list and assessments of inputs of potential PCB, and (3) a summary of actions taken to eliminate PCB discharges.

PART I

Section B.7. (continued)

a. A listing of nondomestic users whose discharge is regulated by the conditions of the approved pretreatment program, to include:

(1) Additions or deletions to the nondomestic user survey, including users with significantly increased discharges;

(2) Additions or deletions to the list of toxic chemicals that potentially could be discharged to the sewer;

(3) The names of users with permits or contracts for discharge;

(4) The names of users audited for compliance during the reporting period, and the status of compliance for each; and

(5) The names of users which were in significant noncompliance of applicable pretreatment standards or other pretreatment requirements during the reporting period, and proof of publication pursuant to 40 CFR 403.8(f)(2)(vii).

b. A summary of the enforcement actions taken and status of compliance by nondomestic users to include:

(1) Names of nondomestic users not in compliance with categorical standards and/or local pretreatment discharge limitations, and

(2) Status of enforcement actions taken to return these facilities to compliance.

c. A summary of any changes proposed or made to the approved program including those resulting from the annual review conducted under Paragraph 6 (above), changes in legal authority, any procedures which were previously approved by the Department of Natural Resources (including those used to establish local limits), service areas, monitoring programs, staffing, or funding.

PART I

D. SCHEDULE OF COMPLIANCE

1. Schedule of Compliance for Meeting New Toxicant Effluent Limitations

a. On or before March 1, 1992, the permittee shall complete and submit to the Plainwell District Supervisor of the Surface Water Quality Division, a plan for complying with the effluent limitations for copper and hexavalent chromium, which become effective on June 1, 1993. The plan shall consider additional influent, effluent, and sludge monitoring; reevaluation of local limits; notification of nondomestic users; additional nondomestic user monitoring; availability of pretreatment technologies for achieving proposed new local limits; promulgation of new local limits; and time needed for accomplishment of needed tasks by the permittee and affected nondomestic users.

b. On or before May 1, 1992, the permittee shall commence implementation of its plan for complying with the new toxicant effluent limitations.

2.. The permittee shall achieve compliance with the Short Term Waste Characterization Study requirements specified in Part I.A.5., in accordance with the following schedule. All submittals shall be to the Plainwell District Supervisor of the Surface Water Quality Division.

a. On or before May 1, 1992, the permittee shall implement the study.

b. On or before October 1, 1992, the permittee shall have completed all monitoring as required.

c. On or before December 1, 1992, the permittee shall submit the analytical results of such monitoring.

2. Reapplication

If the discharges authorized by this permit are expected to continue beyond the expiration date of this permit, the permittee is required to submit an application for reissuance to the Chief of the Permits Section of the Surface Water Quality Division on or before April 4, 1995.

3. Written Report Required

Within 14 days following each date specified in Part I.D., Schedule of Compliance, the permittee shall submit written notification to the Plainwell District Supervisor of the Surface Water Quality Division regarding its compliance or noncompliance with each schedule requirement. If a requirement was not met, the permittee's written notification shall include an explanation of the failure to meet the requirement, actions taken or planned by the permittee to correct the situation, and an estimate of when the requirement will be met. If the requirement involves submittal of a written report and the written report was submitted in accordance with the schedule date, separate written notification is not required.

PART II

Section A.2. (continued)

g. 24-Hour Composite Sample

24-hour composite sample is defined as a flow proportioned composite sample consisting of hourly or more frequent portions.

h. Grab Sample

Grab sample is defined as a single sample of wastewater taken at neither set time nor flow.

i. Nondomestic User

A nondomestic user is defined as any discharger to the permittee's treatment works that discharges wastes other than or in addition to water-carried wastes from toilet, kitchen, laundry, bathing or other facilities used for household purposes.

j. Major User

A major user is defined as a nondomestic user that:

(1) discharges more than 10,000 gallons per average working day to the permittee's treatment works; or

(2) discharges any toxic or hazardous materials such as, but not limited to, those listed on the Federal EPA List of Priority Pollutants and Michigan Critical Materials Register (for a copy of either list, contact the Surface Water Quality Division); or

(3) discharges any substance that may cause interference with the operation of the treatment works, and is considered to be of significance to the overall treatment and disposal processes.

k. Interference

Interference is defined as a discharge which, alone or in conjunction with a discharge or discharges from other sources, both:

(1) Inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and

(2) Therefore is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent State or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including State regulations contained in any State sludge management plan prepared pursuant to Subtitle D of the SWDA), the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act.

PART II

Section A. (continued)

5. Additional Monitoring by Permittee

If the permittee monitors any pollutant more frequently than required by this permit, using approved analytical methods as specified above, the results shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report.

6. Records Retention

All records and information resulting from the monitoring activities required by this permit, including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation, shall be retained for a minimum of three (3) years or longer if requested by the Surface Water Quality Division or the Regional Administrator.

B. PERMIT PROGRAM ADMINISTRATION

1. Michigan Water Resources Commission

The Michigan Water Resources Commission has been designated the authority to administer the NPDES permit program in the State of Michigan.

2. Regional Administrator

Where used within this permit, the term Regional Administrator shall mean the Administrator, U.S. Environmental Protection Agency-Region V, 230 South Dearborn Street, Chicago, Illinois, 60604.

3. N.P.D.E.S.

NPDES is defined as the National Pollutant Discharge Elimination System pursuant to Section 402 of the Federal Water Pollution Control Act as amended (33 U.S.C. 1251 et seq, P.L. 92-500, 95-217).

4. Surface Water Quality Division

The Surface Water Quality Division of the Michigan Department of Natural Resources provides the staff for the administration of the NPDES program by the Michigan Water Resources Commission. Reports, notifications, and questions regarding this permit or the NPDES program should be addressed to the Plainwell District Supervisor of the Surface Water Quality Division.

PART II

Section C.5. (continued)

c. Maintenance of treatment facilities shall not result in degradation of effluent quality.

d. Under no circumstances shall the permittee allow introduction of the following wastes into the waste treatment system:

(1) Wastes which create or can create a fire or explosion hazard - defined as being greater than 20% of the lower explosive limit (LEL) for the substance;

(2) Wastes which create or cause corrosive structural damage;

(3) Wastes with a pH lower than 5.0 or greater than 11.0;

(4) Solid or viscous substances in amounts which cause obstructions to the flow in collecting or intercepting sewers or interference with the proper operation of the treatment works;

(5) Any pollutant, including oxygen demanding substances released in a discharge of such volume or strength which causes interference in the treatment works; or

(6) Heat in such amounts that biological activity is inhibited at the treatment works resulting in interference. The discharge of heat must be regulated so that the temperature at the treatment works influent does not exceed 40°C (104°F).

6. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to waters of the state resulting from noncompliance with this permit. Such steps may include accelerated or additional monitoring as necessary to determine the nature and impact of the noncompliance.

7. Waste Treatment Residues

Solids, sludges, ashes, filter backwash, scrubber water, or other pollutants resulting from the treatment or control of wastewaters shall be disposed in an environmentally compatible manner. Such disposal shall not result in any unlawful pollution of the air, surface waters or groundwaters of the state. Additional monitoring may be required to confirm the adequacy of disposal.

8. By-passing or Accidental Losses

Any diversion from or by-pass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited, except (i) where unavoidable to prevent loss of life, severe property damage, extended duration process upset, or (ii) where excessive flow would damage any facilities necessary for compliance with the effluent limitations of this permit. The permittee shall promptly notify the Surface Water Quality Division of any such by-pass, or any accidental loss of pollution materials by telephone at 1-800-292-4706. Such notice shall be supplemented by a written report submitted within five (5) days to the Plainwell District Supervisor of the Surface Water Quality Division, detailing the cause of such diversion, by-pass, or loss, and the corrective actions taken to minimize adverse impacts and eliminate the cause for future diversion, by-pass or loss.

PART II

Section D. (continued)

4. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

a. violation of any terms or conditions of this permit;

b. obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;

c. a change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge; or

d. the establishment of a toxic effluent standard or prohibition under Section 307(a) of the Act more stringent than any limitation in this permit.

5. Civil and Criminal Liability

Except as provided in permit conditions on "By-passing" (Part II.C.8.), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

6. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor infringement of Federal, State or local laws or regulations.

7. Facility Construction

This permit does not authorize or approve the construction or modification of any physical structures or facilities. Approval for such construction must be by permit issued under Act 98, Public Acts of 1913, as amended.

8. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

NATURAL RESOURCES COMMISSION
THOMAS J. ANDERSON
MARLENE J. FLUHARTY
KERRY KAMMER
O. STEWART MYERS
DAVID D. OLSON
RAYMOND POUPORE

STATE OF MICHIGAN

JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T. MASON BUILDING
BOX 30028
LANSING, MI 48909

GORDON E. GUYER, Director

January 14, 1988

CERTIFIED MAIL

Ms. Jane Tice, Clerk
City of Otsego
117 East Orleans
Otsego, Michigan 49078

Re: NPDES Permit No. MI 0023744
Wastewater Treatment Plant

Dear Ms. Tice:

Your National Pollutant Discharge Elimination System (NPDES) Permit has been processed in accordance with appropriate state and federal regulations.

It contains the requirements necessary for you to comply with state and federal water pollution control laws.

REVIEW THE PERMIT EFFLUENT LIMITS AND PERFORMANCE SCHEDULES CAREFULLY. These are subject to the criminal and civil enforcement provisions of both state and federal law. Permit violations are audited by the United States Environmental Protection Agency and may appear in a published quarterly noncompliance report made available to agencies and the public.

Your monitoring and reporting responsibilities must be complied with in accordance with this permit. If applicable, monthly operating report forms will be transmitted to you in the near future. These reports are to be submitted monthly or otherwise as required by your NPDES permit.

Any reports, notifications, and questions regarding the attached permit or NPDES program should be sent to the following address:

Fred Morley, District Supervisor
621 North Tenth Street
P.O. Box 355
Plainwell, Michigan 49080
Telephone: (616) 685-9886

NOTE: All references within this permit made to the Water Quality Division or Chief of the Water Quality Division are to refer to the Surface Water Quality Division or Chief of the Surface Water Quality Division, respectively.

Sincerely,

William E. McCracken

William E. McCracken, P.E.
Chief, Permits Section
Surface Water Quality Division
517-373-8088

Enclosure: Permit

cc: EPA-Region V (2)
Files
Mr. Steve Buda, Planning and Special Programs Section
Mr. Fred Morley - Plainwell District (2)
Mr. Paul Blakeslee, Regional Supervisor, Region III
Compliance and Enforcement, SWQD
Land Application Unit
208 Agency - West Michigan Regional Planning Commission
Data Entry, SWQD
Point Source Studies (Grand Rapids District Office)
Wastewater Treatment Facility Superintendent

Permit No. MI0023744

MICHIGAN WATER RESOURCES COMMISSION
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), Michigan Act 98, Public Acts of 1913, as amended, being sections 325.201 through 325.214 of the Compiled Laws of Michigan, and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended being sections 323.1 through 323.13 of the Compiled Laws of Michigan, the Michigan Act")

the City of Otsego

is authorized to discharge from a facility located at 310 North Grant Street, Otsego, Michigan

designated as the Otsego WWTP

to the receiving water named the Kalamazoo River in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit modification takes effect immediately upon the date of modification. Any person who feels aggrieved by the modifications herein may file a sworn petition with the Commission setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after modification as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested terms shall be stayed until the Commission takes its final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight, September 30, 1989. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application dated March 31, 1982, and shall supersede any and all Orders of Determination, Stipulations, Final Orders of Determination, or NPDES Permits previously adopted by the Michigan Water Resources Commission concerning the described discharge(s).

Issued this 17th day of January 1985, and modified this 20th day of March 1986, and modified this 17th day of December 1987, by the Michigan Water Resources Commission.

Paul D. Zugger
Executive Secretary

PERMIT CONDITIONS

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Interim Effluent Limitations

a. During the period beginning on the date of issuance and lasting until June 30, 1988, the permittee is authorized to discharge treated municipal wastewaters from the Otsego wastewater treatment plant through outfall 001 to the Kalamazoo River. Such discharges shall be limited and monitored by the permittee as follows:

EFFLUENT CHARACTERISTICS	DATES IN EFFECT	EFFLUENT LIMITATIONS				TESTING FREQUENCY
		Minimum	Maximums			
		Daily	Daily	30-Day Avg.	7-Day Avg.	
5-Day 20°C Biochemical Oxygen Demand	All Year	---	---	60 mg/l 118 kg/day 260 lb/day	75 mg/l 147 kg/day 325 lb/day	5 x weekly
Suspended Solids	All Year	---	---	40 mg/l 79 kg/day 173 lb/day	55 mg/l 108 kg/day 239 lb/day	5 x weekly
Total Phosphorus (as P)	All Year	---	---	3.5 mg/l	---	5 x weekly
Fecal Coliform Bacteria	All Year	---	---	200/100 ml	400/100 ml	5 x weekly
pH	All Year	6.0	9.0	---	---	5 x weekly
Dissolved Oxygen	All Year	---	---	---	---	5 x weekly

PART I, Section A-1

b. All samples shall be 24-hour composite samples taken prior to disinfection except Fecal Coliform Bacteria, Total Residual Chlorine, Dissolved Oxygen, and pH which shall be grab samples of the effluent.

c. The total daily effluent flow shall be measured daily.

d. During the period that Coliform Bacteria limitations are in effect, the permittee shall provide adequate control and facilities to ensure continuous disinfection.

PERMIT CONDITIONS

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS.

2. Final Effluent Limitations

a. During the period beginning July 1, 1988 and lasting until date of expiration the permittee is authorized to discharge treated municipal wastewaters from the Otsego wastewater treatment plant through outfall 001 to the Kalamazoo River. Such discharges shall be limited and monitored by the permittee as follows:

EFFLUENT CHARACTERISTICS	DATES IN EFFECT	EFFLUENT LIMITATIONS				TESTING FREQUENCY
		Minimum	Maximums			
		Daily	Daily	30 Day Avg.	7 Day Avg.	
5-Day 20°C Biochemical Oxygen Demand	All Year	---	---	45 mg/l 153 kg/day 338 lb/day	65 mg/l 221 kg/day 488 lb/day	5 x weekly
Suspended Solids	All Year	---	---	40 mg/l 136 kg/day 300 lb/day	50 mg/l 170 kg/day 375 lb/day	5 x weekly
Total Phosphorus (as P)	All Year	---	---	1.0 mg/l	---	5 x weekly
Fecal Coliform Bacteria	May 1 to Oct. 31	---	---	200/100 ml	400/100 ml	5 x weekly
pH	All Year	6.0	9.0	---	---	5 x weekly
Dissolved Oxygen	All Year	4.0 mg/l	---	---	---	5 x weekly
Total Residual Chlorine	All Year	beginning 1-1-91	0.036 mg/l	---	---	Daily during periods of disinfection

The following design flows were used in determining the above limitations, but are not to be considered limitations or actual capacities themselves: Annual Average Design Flow 0.9 MGD.

FF1

PART I, Section A-2

b. All samples shall be 24 hour composite samples taken prior to disinfection except Fecal Coliform Bacteria, Total Residual Chlorine, Dissolved Oxygen, and pH which shall be grab samples of the effluent.

c. The total daily effluent flow shall be measured daily.

d. During the period that Coliform Bacteria Limitations are in effect, the permittee shall provide adequate control and facilities to ensure continuous disinfection.

e. Demonstration Opportunity Regarding Total Residual Chlorine

(1) Final Acute Value - The permittee may demonstrate to the Michigan Water Resources Commission that a total residual chlorine limitation greater than the final acute value of 0.036 mg/l is acceptable under the Water Quality Standards. Such demonstration may establish that: a) fish cannot physically inhabit the zone where concentrations of total residual chlorine are greater than 0.036 mg/l, b) toxicity tests, using species and/or water more representative of the discharge point, result in a higher final acute value, c) there is extremely high and immediate dilution, or d) other rationale warrants a less restrictive limitation for total residual chlorine.

(2) Compliance Deadline - The permittee may demonstrate to the Michigan Water Resources Commission that it is necessary and appropriate to postpone the effective date of the total residual chlorine limitation considering the present efficiency of disinfection, age of chlorination equipment and the economic and technical feasibility of compliance.

(3) Demonstration Notification - The permittee shall notify the Surface Water Quality Division if a demonstration under (1) or (2) above will be attempted. The notification shall include a work plan for completion of the demonstration. The effective date of the total residual chlorine limitation shall not be stayed pending the demonstration project.

f. In addition to the BOD_5 and Total Suspended Solids limitations above, the 30-day average effluent BOD_5 and Total Suspended Solids concentrations shall not exceed 25 percent of the average influent concentrations for approximately the same period.

g. Compliance with the Total Residual Chlorine limit shall be determined on the basis of one or more grab samples. If more than one sample per day is taken, the additional samples shall be collected in near equal intervals over at least 8 hours. The samples shall be analyzed immediately upon collection and the average reported as the daily maximum. The level of detection shall be determined for the analytical method used by following the procedures prescribed in 40 CFR 136 Appendix B. The reported level of detection shall not exceed 0.036 mg/l unless a higher level is appropriate because of sample matrix interference.

PART I, Section A-2

h. The December 17, 1987 modifications to this permit are intended to provide the permittee sufficient time to both (1) perform a demonstration pursuant to the "Demonstration Opportunity Regarding Total Residual Chlorine" above, and (2) if necessary following the demonstration, design, construct, and place into operation facilities needed to comply with the effluent limitation for Total Residual Chlorine. It is expected that, if a demonstration is to be attempted, it will be completed within approximately one year, thus leaving approximately two years for Chlorine Control facility design and construction. The permittee shall submit Progress Reports that detail the status of the permittee's demonstration efforts and the status of chlorine control facility design, construction, and operation. Such Progress Reports shall be submitted to the Chief of the Surface Water Quality Division on or before December 31, 1988 and December 31, 1989.

PART I, Section A

3. Special Condition - Long-Term Water Quality Based Effluent Limits

a. This special condition establishes the mechanism for proceeding toward achievement of water quality based effluent limits which are not presently achievable or detectable but are needed to protect the receiving water. These limits shall be defined as long-term water quality based effluent limits (LTWQBEL) and are as follows:

EFFLUENT CHARACTERISTIC	DATES IN EFFECT	30-DAY AVERAGE
PCB	All Year	1.2×10^{-5} ug/l

The permittee shall develop and submit to the Chief of the Surface Water Quality Division a long-term compliance plan on or before August 31, 1986. The plan shall include a schedule to minimize the discharge of these substances and an evaluation by the permittee as to what reasonable progress can be made toward compliance with the LTWQBEL within the term of this permit and beyond. The plan should also include a proposed method of determining compliance with the LTWQBEL. The proposed method may be an improved analytical technique for directly measuring the effluent concentration, an indirect technique for estimating the effluent concentration, or a comprehensive source detection and control program. After review of the plan, this permit may be modified by the Water Resources Commission in accordance with Part II, Section D-4 to incorporate requirements for proceeding toward achievement of the LTWQBEL.

b. In addition to the above requirements, the following interim limitations shall apply to outfall 001:

EFFLUENT CHARACTERISTIC	DATES IN EFFECT	MONITORING METHOD	30-DAY AVERAGE	MONITORING FREQUENCY
PCB	All Year	EPA 608	0.5 ug/l	Once quarterly

c. The permittee may request a modification of this permit to change or eliminate this condition if it can be demonstrated that all potential sources of these substances are not present or have been removed from the collection system. All effluent analyses performed within a period of at least one year must confirm that these substances are not present at detectable levels.

PERMIT CONDITIONS

PART I

B. INDUSTRIAL WASTE CONTROL PROGRAM

1. In accordance with its pretreatment program approved on September 27, 1985, the permittee shall assure that pollutant discharges from nondomestic sources do not:

a. Cause, in whole or in part, the permittee's failure to comply with the effluent limitations found in Part I, Section A of this permit;

b. Restrict, in whole or in part, the permittee's approved Program for Effective Residuals Management (PERM) required by Part I, Section C of this permit;

c. Cause, in whole or in part, operational problems at the treatment facility or in its collection system;

d. Exceed local limits established in accordance with the approved pretreatment program; or

e. Exceed Federal Pretreatment Standards as identified in the Federal Pretreatment Regulations (40 CFR 403.5, 1984) and in regulations pursuant to Section 307(b) and (c) of the Act.

The Department of Natural Resources retains the right to require modifications in the approved pretreatment program which are necessary to maintain the above program capabilities.

2. The permittee shall not change or modify its approved pretreatment program without prior approval of the Director.

3. The permittee shall develop and maintain for a minimum of three years all records and information resulting from monitoring and enforcement activities necessary to determine nondomestic user compliance with the pretreatment standards, local limits, and conditions of the approved program.

4. The permittee is required to submit to Chief of the Surface Water Quality Division, beginning on July 31, 1986, and annually thereafter, a summary report on the status of program implementation and enforcement activities. This report shall contain:

a. A listing of nondomestic users whose discharge is regulated by the conditions of the approved pretreatment program, to include:

(1) Additions or deletions to the nondomestic user survey, including users with significantly increased discharges;

(2) Additions or deletions to the list of toxic chemicals that potentially could be discharged to the sewer;

(3) The names of users with permits or contracts for discharge;

(4) The names of users audited for compliance during the reporting period, and the status of compliance for each; and

PART I, Section B-4a

(5) The names of users which were in significant violation of applicable pretreatment standards or other pretreatment requirements during the reporting period, and proof of publication pursuant to 40 CFR 403.8(f)(2)(vii).

b. A summary of the enforcement actions taken and status of compliance by non-domestic users to include:

(1) Names of nondomestic users not in compliance with categorical standards and/or local pretreatment discharge limitations, and

(2) Status of enforcement actions taken to return these facilities to compliance.

c. A summary of any changes proposed or made to the approved program including changes in legal authority; any procedures which were previously approved by the Department of Natural Resources, including those used to establish local limits; service areas; monitoring programs; staffing; or funding.

5. The City of Otsego shall implement the approved pretreatment program in accordance with the following requirements. (All submittals shall be sent to the Surface Water Quality Division, District Supervisor's office unless otherwise stated).

a. The City shall provide sufficient data to verify the pollutant removal rates used in ordinance limit development according to the following schedule:

(1) On or before May 31, 1986, submit a monitoring, sampling and analysis plan.

(2) On or before August 31, 1986, complete all monitoring.

(3) On or before September 30, 1986, submit the results of the monitoring and sampling program.

(4) If the monitoring fails to verify the removal rates used in ordinance limit development, on or before September 30, 1986, submit for approval, modified ordinance limits based on the measured pollutant removal rates with supporting monitoring results.

b. The City shall cause all nondomestic users to be brought into compliance with the City's pretreatment requirements according to the following schedule:

PART I, Section B-5b.1.

(1) On or before July 31, 1986, submit a complete list of nondomestic users that are not currently meeting the City's pretreatment requirements.

(2) On or before September 30, 1986, submit a schedule to bring all nondomestic users into compliance.

(3) On or before January 31, 1987, verify that all nondomestic users identified in 5.b.1 are under an enforceable schedule to meet the City's pretreatment requirements.

(4) On or before March 31, 1988, verify that all nondomestic users identified in 5.b.1 are in compliance with the City's pretreatment requirements.

PERMIT CONDITIONS

PART I

C. PROGRAM FOR EFFECTIVE RESIDUALS MANAGEMENT

In addition to the requirements in Part II, Section C-8, herein, the permittee shall provide for the effective management and/or disposal of residuals, i.e., solids, sludges, ash, grit and other substances removed from or resulting from treatment of the wastewater. Residuals disposal shall be accomplished in such manner and at such locations that the disposal practices shall not result in unlawful pollution of the air, surface waters or ground waters of the state nor create nuisance conditions. Such management and/or disposal program shall be set forth in a "Program for Effective Residuals Management" prepared by the permittee.

The program shall include:

1.) a management plan (treatment, transportation, storage, disposal, contingency plans);

2.) an inventory of residuals production, storage, and disposal for a period of at least one year;

3.) an analysis of the residuals;

4.) a monitoring program;

5.) if land application is proposed, site maps, soil analyses, application rates, proposed vegetation, and other pertinent information; and

6.) if ground water degradation potential exists, a hydrogeologic study.

The program shall be submitted to and receive the approval of the Chief of the Surface Water Quality Division on or before May 31, 1985.

Subsequent to approval, disposal of residuals resulting from treatment of wastewater shall be in accordance with the program. If the permittee desires to make any substantial changes in the program, such proposed changes shall be submitted to and approved by the Chief of the Surface Water Quality Division prior to implementation. Substantial changes shall include but not be limited to: a change in disposal method or site; a change in treatment method; a change in storage method or site; a change in monitoring parameters or monitoring frequency; an increase in application rate; or a change in residuals quantity or characteristics. Any residual disposal inconsistent with the approved program shall be considered a violation of this permit.

PART I

D. SCHEDULE OF COMPLIANCE

1. Facility Construction

In accordance with Section 301(i)(1) of the Act, it has been demonstrated that an extension to achieve compliance with limitations under 301(b)(1)(B) or 301(b)(1)(C) should be granted. Therefore, the following Schedule of Compliance for achieving the final effluent limitations is established.

The permittee shall achieve compliance with the Final Effluent Limitations specified in this permit for outfall(s) 001 in accordance with the following:

a. Submit final plans and specifications for construction of the proposed facilities to the Chief of ths Surface Water Quality Division and receive his approval on or before June 1, 1985.

b. Commence construction on or before September 1, 1986.

c. Construction shall be completed on or before March 1, 1988.

d. Facilities shall achieve operational level on or before July 1, 1988.

e. Submit a status report on the progress of project planning, design and construction at intervals not to exceed nine months beginning on March 1, 1985 and continuing until full compliance with the Final Effluent Limitations is achieved.

PART I

D. SCHEDULE OF COMPLIANCE

2. Alternative Power Sources

a. The permittee shall submit an Alternative Power Source Report to the Chief of the Surface Water Quality Division for approval documenting compliance with the requirements of Part II, Section C-9 (Power Failures) of this permit on or before May 31, 1985.

The report shall (1) identify all essential treatment equipment and pumping stations utilized for transportation and treatment of wastes collected within the service area of the facility governed by this permit, and (2) document the alternative power source, or other means of providing continuity of service during periods of power failures, for each essential item identified.

b. If notified by the Surface Water Quality Division that the Alternative Power Source Report submitted by the permittee indicates a lack of adequate alternative power at the permittee's facilities, then the permittee shall submit to the Chief of the Surface Water Quality Division an approvable plan and schedule for providing adequate alternative power within three (3) months after being so notified. The approved plan and schedule shall become an enforceable part of this permit.

PERMIT CONDITIONS

PART I

D. SCHEDULE OF COMPLIANCE

3. Written Report Required

Within 14 days of every program requirement date specified in this permit the permittee shall submit a written report to the Chief of the Surface Water Quality Division stating whether or not the particular task was accomplished. If the task was not accomplished, the report shall also include: an explanation of the failure to accomplish the task, actions taken by the permittee to correct the situations, and an estimate of when the task will be accomplished.

If the task requires submission of a written report and the task was accomplished, a separate written report is not required.

PERMIT CONDITIONS

PART II

A. REPORTING, DEFINITIONS, AND MONITORING

1. Reporting

The permittee shall effectively monitor the operation of all processes comprising the treatment and control facilities. Monitoring data required by this permit and other data required by the Surface Water Quality Division shall be tabulated and summarized on a calendar month basis. Monthly reports, on forms or format supplied by the Surface Water Quality Division, shall be mailed to the address below, postmarked no later than the tenth (10th) of the first month following the report period.

Department of Natural Resources
Data Center
P.O. Box 30028
Lansing, Michigan 48909

2. Definitions

a. 30-Day Average Concentration

The 30-day average concentration other than for fecal or total coliform bacteria, is defined as the sum of the concentrations of the individual samples divided by the number of samples taken during a calendar month. The 30-day average concentration for fecal or total coliform bacteria is the geometric mean of the samples collected in a calendar month.

b. 7-Day Average Concentration

The 7-day average concentration other than for fecal or total coliform bacteria, is defined as the sum of the concentrations of the individual samples divided by the number of samples taken during any 7 consecutive day period of a calendar month. The 7-day average concentration for fecal or total coliform bacteria is the geometric mean of the samples collected in any 7 consecutive day period of a calendar month.

c. 30-Day Average Load

The 30-day average load is defined as the sum of the weights of pollutants discharged on sampling days divided by the number of sampling days during a calendar month.

d. 7-Day Average Load

The 7-day average load is defined as the sum of the weights of pollutants discharged on sampling days divided by the number of sampling days during any 7 consecutive days in a calendar month.

e. Maximum Concentration

The maximum concentration limitation is defined as the permissible maximum concentration of a pollutant in any individual sample.

f. Maximum Load

The maximum load limitation is defined as the permissible maximum weight of a pollutant discharged in any single day.

PART II, Section A-2

g. 24-Hour Composite Sample

24-hour composite sample is defined as a flow proportioned composite sample consisting of hourly or more frequent portions.

h. Grab Sample

Grab sample is defined as a single sample of wastewater taken at neither set time nor flow.

i. Nondomestic User

A nondomestic user is defined as any discharger to the permittee's treatment works that discharges wastes other than or in addition to water-carried wastes from toilet, kitchen, laundry, bathing or other facilities used for household purposes.

j. Major User

A major user is defined as a nondomestic user that:

(1) discharges more than 10,000 gallons per average working day to the permittee's treatment works;
(2) discharges any toxic or hazardous materials such as, but not limited to, those listed in Attachment B; or
(3) discharges any substance that may cause interference with the operation of the treatment works, and is considered to be of significance to the overall treatment and disposal processes.

k. Interference

Interference is defined as any inhibition or disruption of the permittee's sewer system, treatment process, operations, or residuals management program, which may contribute to a violation of the NPDES permit.

l. National Pretreatment Standards

National Pretreatment Standards are defined as the regulations promulgated by or to be promulgated by the Federal Environmental Protection Agency pursuant to Section 307(b) and (c) of the Act. The standards establish nationwide limits for specific industrial categories for discharge to Publicly Owned Treatment Works.

m. Pretreatment

Pretreatment is defined as reducing the amount of pollutants, eliminating pollutants, or altering the nature of pollutant properties to a less harmful state prior to discharge into a public sewer. The reduction or alteration can be by physical, chemical, or biological processes, process changes, or by other means. Dilution is not considered pretreatment unless expressly authorized by an applicable National Pretreatment Standard for a particular industrial category.

PART II, Section A-2

n. Water Quality Standards

The Water Quality Standards are defined as Part 4 of the General Rules of the Michigan Water Resources Commission promulgated by authority of Sections 2 and 5 of the Michigan Act.

3. Monitoring

a. The analytical test procedures used shall conform to the rules and regulations promulgated under Section 304(h) of the "Act" (Title 40, Chapter 1, Subchapter D., Part 136-Guidelines Establishing Test Procedures for the Analysis of Pollutants). Copies are available from the Surface Water Quality Division on request. For parameters not covered by the regulations, test procedures shall be approved by the Surface Water Quality Division.

b. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to ensure accuracy of measurements.

c. Fecal or Total Coliform analyses, at facilities using chlorine for disinfection, shall be performed on "grab" samples collected at varying times during an operating day. Information derived therefrom shall be correlated with chlorine residual levels, flow rate, and loading variations for the purpose of minimizing chlorine use, while maintaining compliance with the effluent limitations.

4. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

a. the exact place, date, and time of sampling;

b. the dates the analyses were performed;

c. the person(s) who performed the analyses;

d. the analytical techniques or methods used; and

e. the results of all required analyses.

5. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Monthly Operating Report.

6. Records Retention

All records and information resulting from the monitoring activities required by this permit, including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation, shall be retained for a minimum of three (3) years or longer if requested by the Surface Water Quality Division or the Regional Administrator.

PART II, Section B

B. PERMIT PROGRAM ADMINISTRATION

1. Michigan Water Resources Commission

The Michigan Water Resources Commission has been designated the authority to administer the NPDES permit program in the State of Michigan.

2. Regional Administrator

Where used within this permit, the term Regional Administrator shall mean the Administrator, Region V, U.S. Environmental Protection Agency, 230 South Dearborn Street, Chicago, Illinois, 60604.

3. N.P.D.E.S.

NPDES is defined as the National Pollutant Discharge Elimination System pursuant to Section 402 of the Federal Water Pollution Control Act as amended (33 U.S.C. 1251 et seq, P.L. 92-500, 95-217).

4. Surface Water Quality Division

The Surface Water Quality Division of the Michigan Department of Natural Resources provides the staff for the administration of the NPDES program by the Michigan Water Resources Commission. Reports, notifications, and questions regarding this permit or the NPDES program should be addressed to the appropriate district office of the Surface Water Quality Division.

C. MANAGEMENT REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than, or at a level in excess of that authorized, shall constitute a violation of the permit. Any anticipated significant loading increase, facility expansions, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the Surface Water Quality Division of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

2. Containment Facilities

The permittee shall provide facilities approved under Act 98, Public Acts of 1913, as amended, and in accordance with the requirements of the Michigan Water Resources Commission Rules, Part 5, for containment of any accidental losses of concentrated solutions, acids, alkalies, salts, oils, or other polluting materials.

PART II, Section C

3. Operator Certification

The permittee shall have the waste treatment facilities under the direct supervision of an operator certified by the Michigan Department of Natural Resources as required by Regulations Governing the Certification of Sewage Treatment Works Operators in accordance with Act 98, Public Acts of 1913, as amended (R 299.2911 - R 299.2927).

4. Noncompliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any condition specified in this permit, the permittee shall provide the Surface Water Quality Division and the Regional Administrator with the following information, in writing, at the time of submittal of the monthly operating data:

a. a description of the circumstances and cause of noncompliance; and

b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncompliance.

5. Facilities Operation

All waste collection, control, treatment and disposal facilities shall be operated in a manner consistent with the following:

a. At all times, all facilities shall be operated and maintained in an efficient and responsible manner.

b. The permittee shall provide an adequate operating staff which is qualified to carry out the operation, maintenance and testing functions required to ensure compliance with this permit.

c. Maintenance of treatment facilities shall not result in degradation of effluent quality.

d. Under no circumstances shall the permittee allow introduction of the following wastes into the waste treatment system:

(1) Wastes which create or can create a fire or explosion hazard - defined as being greater than 20% of the lower explosive limit (LEL) for the substance.

(2) Wastes which create or cause corrosive structural damage.

(3) Wastes with pH lower than 5.0 or greater than 11.0.

(4) Solid or viscous substances in amounts which cause obstructions to the flow in collecting or intercepting sewers or interference with the proper operation of the treatment works.

PART II, Section C-5d

(5) Any pollutant, including oxygen demanding substances released in a discharge of such volume or strength which causes interference in the treatment works.

(6) Heat in such amounts that biological activity is inhibited at the treatment works resulting in interference. The discharge of heat must be regulated so that the temperature at the treatment works influent does not exceed 40°C (104°F).

6. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to waters of the state resulting from noncompliance with this permit. Such steps may include accelerated or additional monitoring as necessary to determine the nature and impact of the noncompliance.

7. By-passing or Accidental Losses

Any diversion from or by-pass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited, except (i) where unavoidable to prevent loss of life, severe property damage, extended duration process upset, or (ii) where excessive flow would damage any facilities necessary for compliance with the effluent limitations of this permit. The permittee shall promptly notify the Surface Water Quality Division of any such by-pass, or any accidental loss of pollution materials by telephone at 1-800-292-4706. Such notice shall be supplemented by a written report within five (5) days detailing the cause of such diversion, by-pass, or loss, and the corrective actions taken to minimize adverse impacts and eliminate the cause for future diversion, by-pass or loss.

8. Waste Treatment Residues

Solids, sludges, ashes, filter backwash, scrubber water, or other pollutants resulting from the treatment or control of wastewaters shall be disposed in an environmentally compatible manner. Such disposal shall not result in degradation of any surface waters or groundwaters of the state. Additional monitoring may be required to confirm the adequacy of disposal.

9. Power Failures

In order to maintain compliance with the effluent limitations and prevent unauthorized discharges the permittee shall:

a. provide alternative power or equipment sufficient to operate essential facilities utilized by permittee to comply with this permit in accordance with Design Criteria for Mechanical, Electric, and Fluid System and Component Reliability published by the Federal Environmental Protection Agency (EPA - 430-99-74-001), or

b. upon the reduction, loss, or failure of one or more of the primary sources of power to facilities utilized by the permittee to maintain compliance with this permit, the permittee shall halt, reduce or otherwise control all discharges in order to maintain compliance with the effluent limitations and conditions of this permit.

PART II, SEction D

D. RESPONSIBILITIES

1. Right of Entry

The permittee shall allow the Michigan Water Resources Commission, the Regional Administrator and/or their authorized representatives, upon presentation of credentials:

a. to enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and

b. at reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

2. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharge emanates, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Surface Water Quality Division and the Regional Administrator 30 days prior to the actual transfer of control or ownership.

3. Availability of Reports

All reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Surface Water Quality Division and the Regional Administrator. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act, Sections 7 and 10 of the Michigan Act, and Sections 8 and 13 of Act 98, Public Acts of 1913, as amended.

4. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

a. violation of any terms or conditions of this permit;

b. obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;

c. a change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge; or

d. the establishment of a toxic effluent standard or prohibition under Section 307(a) of the Act more stringent than any limitation in this permit.

PART II, Section D

5. Civil and Criminal Liability

Except as provided in permit conditions on "By-passing" (Part II, C-7), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

6. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor infringement of Federal, State or local laws or regulations.

7. Facility Construction

This permit does not authorize or approve the construction or modification of any physical structures or facilities. Approval for such construction must be by permit issued under Act 98, Public Acts of 1913, as amended.

8. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

Permit No. MI 0023744

MIXING ZONE

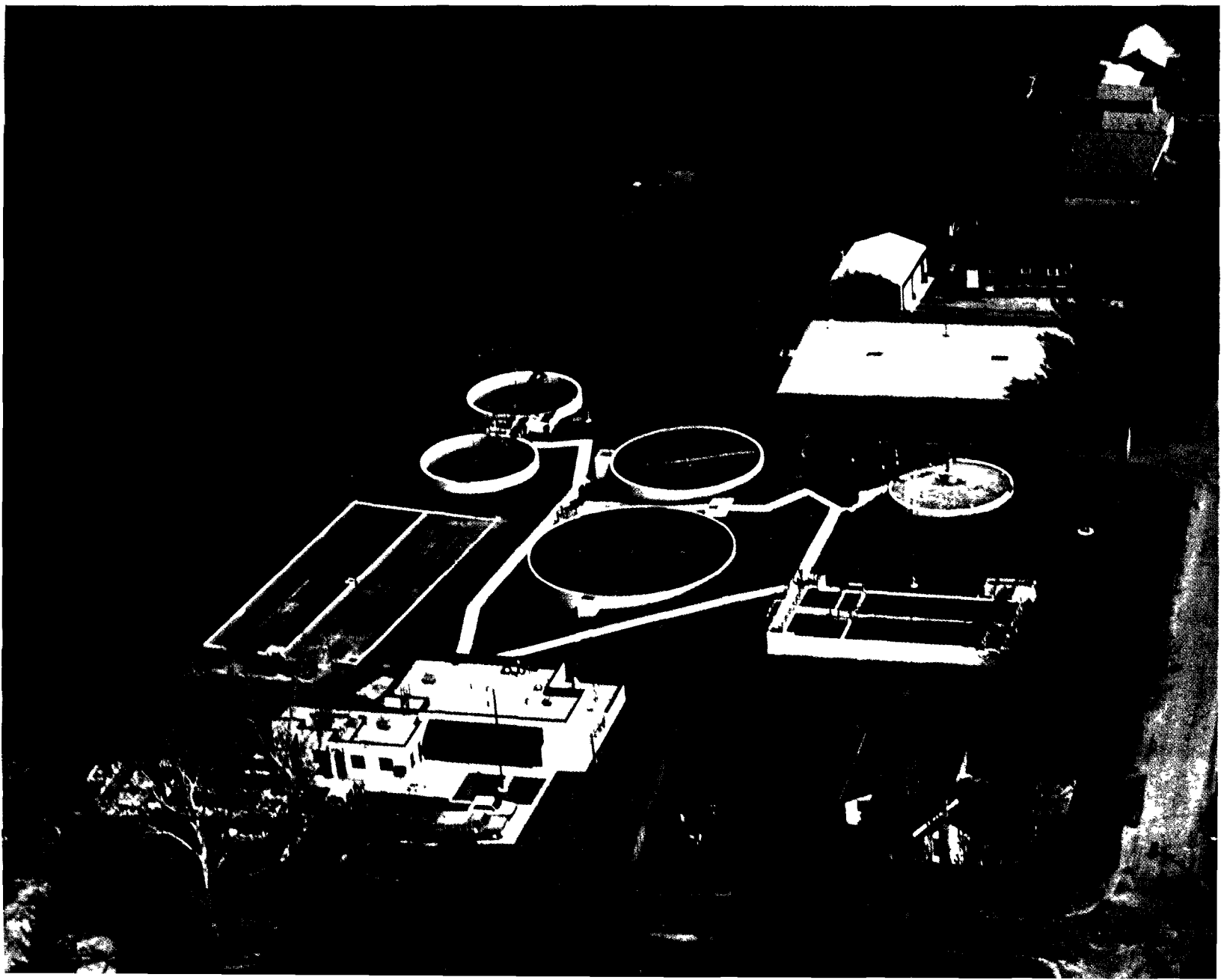
Facility: City of Otsego Wastewater Treatment Plant

Outfall Number	Receiving Water	Discharge Location
001	Kalamazoo River	Section 22, T1N, R12W

For toxic pollutants, the volume of receiving water used in assuring that effluent limitations are sufficiently stringent to meet Water Quality Standards is 25% of the design flow of the receiving stream.

For other pollutants, the volume of receiving water used in assuring that effluent limitations are sufficiently stringent to meet Water Quality Standards is the design flow of the receiving stream.

CITY OF OTSEGO WASTEWATER TREATMENT PLANT



CITY OF OTSEGO WASTEWATER TREATMENT PLANT

The City of Otsego has provided wastewater treatment services to local residents and industrial users since 1955. Improvements to the wastewater treatment plant were implemented in response to the Clean Water Act requirements set by the Environmental Protection Agency. The original 0.50 million gallon per day (mgd) plant was expanded to treat an annual average flow of 0.75 mgd to serve the City's future needs and to comply with more stringent National Pollutant Discharge Elimination System (NPDES) Permit requirements. The City of Otsego has successfully met its goal to meet more stringent state requirements and to ensure the opportunity for positive community growth while protecting the Kalamazoo River water quality for future generations.

THE NEW FACILITY

The expanded trickling filter wastewater treatment facility features preliminary, primary, and secondary biological treatment, disinfection, and sludge processing. The improvements include phosphorus removal by chemical precipitation, disinfection by chlorination, and effluent dechlorination by sulfur dioxide. Many of the existing components of the original facility were utilized to expand the new facility, resulting in a cost savings to the community.

The expanded trickling filter facility design is based on a future population of 5,300 and an allowance of 40 percent growth in commercial and industrial flows. An average wastewater flow of 750,000 gallons per day with a capacity for peak rates of 3 million gallons per day can be treated with the improved facility.

TRICKLING FILTER TREATMENT PROCESS

Preliminary Treatment

Untreated wastewater enters the facility through two horizontal, controlled-velocity grit channels to remove heavy inorganic solids. Provisions have been made downstream of the grit channels for accurate wastewater flow measurement to meet the State of Michigan reporting requirements. The wastwater also passes through a shredding device to reduce the size of organic solids, allowing more efficient processing of the wastewater.

Primary Treatment

Primary treatment involves the settling of organic solids to enhance the performance of biological treatment facilities which follow this process. Phosphorus removal by chemical addition is provided during the primary treatment phase to meet state discharge requirements.

Secondary Biological Treatment

The trickling filter biological treatment process reduces the Biochemical Oxygen Demand (BOD) of the wastewater and provides further suspended solids removal. The trickling filter process consists of a fixed bed of plastic media over which wastewater is applied. Biological growth forms on the plastic media which consumes organic substances in the wastewater. The wastewater is applied by a rotary distributor system, and the treated wastewater is collected by an underdrain system. Plastic media was selected for the project because it offers a larger surface for biological growth, thereby promoting improved treatment efficiency.

The original trickling filter facility and the rotary distributor have been modified. A trickling filter recycle pump station allows recycling of the treated wastewater to the trickling filters to increase treatment efficiency. Trickling filter effluent is diverted to two circular final clarifiers to reduce effluent suspended solids and to remove any floating material prior to discharge.

Disinfection

The treated effluent is disinfected using chlorine and then dechlorinated using sulfur dioxide before discharge to the Kalamazoo River. The disinfection process reduces bacteria which may be present in the wastewater, and dechlorination reduces residual chlorine levels to non-toxic levels for aquatic organisms in the Kalamazoo River.

SLUDGE HANDLING

Solids generated during the primary and secondary treatment are processed using the existing high-rate primary digester facility. The stabilized solids provide a by-product that is injected into agricultural lands as a soil conditioner and fertilizer supplement.

LABORATORY

The laboratory is an integral part of daily operations at the treatment facility, and a fully equipped laboratory has been provided to perform daily chemical and biological tests of the treatment process. Tests are performed for each phase of treatment to verify that the treatment process is working effectively. Monthly test results are reported to the Michigan Department of Natural Resources to demonstrate that the treated water complies with current NPDES Permit requirements.

COST OF THE NEW FACILITY

The final project cost for the upgrade and expansion of the Otsego WWTP was $2.8 million, which was funded through a $1.4 million U.S. EPA construction grant and locally issued bonds.

CONCLUSION

The treatment process selected has enabled the City of Otsego to accommodate future community growth while providing flexibility to meet future water quality objectives, protect the environment, and achieve a superior quality of life for local residents.

CITY OF OTSEGO
WASTEWATER TREATMENT PLANT

Mayor
Russell Hover

Commissioners
Richard Bagwell
Richard Delong
Robert Eaton
Joel Thompson

City Manager
Curtis Holt

City Clerk
Jane Tice

City Treasurer
Matthew Storbeck

Past Commissioners Involved with the Project
Kenneth Bleeker
Robert Fergusson
Judith Ketchum

Architect/Engineers
McNamee, Porter & Seeley, Inc.

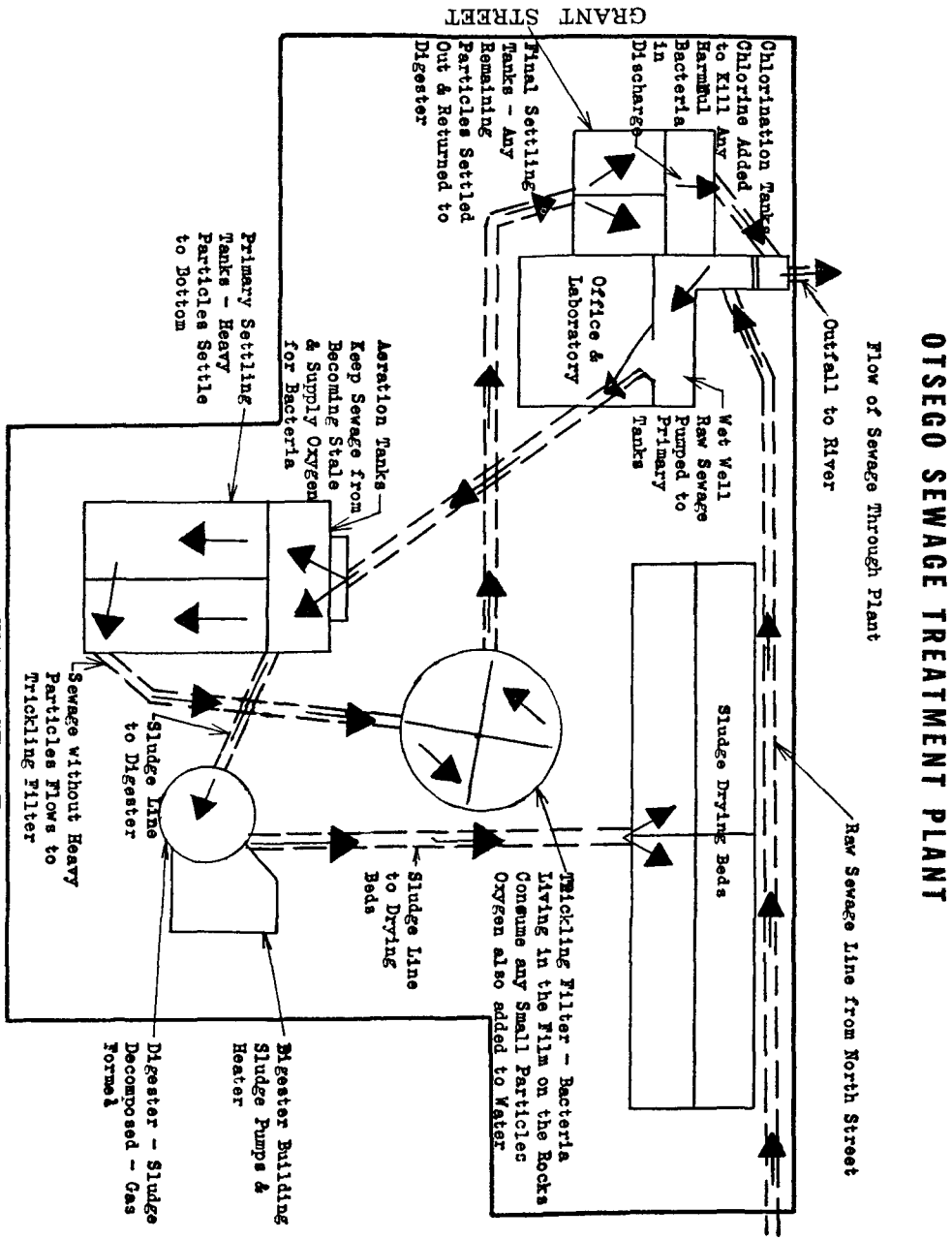
General Contractor
Erhardt Construction Company

Mechanical Contractor
Hertel Plumbing & Heating

Electrical Contractor
Feyen-Zylstra

McNAMEE
COMMITTED TO ENGINEERING EXCELLENCE SINCE 1914

McNAMEE, PORTER & SEELEY, INC.



CITY OF OTSEGO MICHIGAN

Dedication Day and Open House at New Sewage Treatment Plant

Saturday, September 24, 1955

1:00 PM to 6:00 PM

* City of Otsego
Sewage Treatment Plant

Contracts Signed – September 22, 1954
Ground Broken – September 23, 1954
In Operation – June 1, 1955
Dedication Date – September 24, 1955

City Officials –

R. C. Tubbs	Mayor
George McConney	Mayor Pro-Tem
Charles Barton	
Harrison Kindig	
Lester Moore	
Adelbert Smith *	Commissioners
Harry Johnson	City Clerk
James R. Stelt	City Manager

Engineering –

Williams & Works — Grand Rapids
Marvin Church — City Engineering Staff

Construction –

Barnes Construction Co. — Grand Rapids

Operation –

Thomas Murray — Plant Operator
Homer Earl — Water & Street Supervisor

* Term ended 12-31-54

The official dedication of the Otsego Sewage Treatment Plant mark the completion of the first phase of the program started in 1954 to provide for treatment of sanitary sewage, an interceptor sanitary sewer to serve the SE and SW section of the city, and a storm trunk sewer system to serve portions of the west and SW section of the city. With the connection of the North Street sanitary sewer to the interceptor which runs along the Kalamazoo River in May of this year over 90% of the sewerage flow which formerly went into the river was directed to the treatment plant. Plans have been prepared and work will start in the near future on the pumping station and interceptor line to be built on the North side of the river to bring that flow to the treatment plant. Contracts have already been let for the connecting of the small sanitary sewer in Grant street to the treatment plant.

The City Commission is proud of the fact that the plant was in operation in time to meet the Water Resources Commission deadline of June 1, 1955. The people of Otsego can be sure that their city has and is doing its part to clean up the Kalamazoo River.

The contract construction cost for the plant was $204,679.00. Added to this was $1,184.06 in necessary extra work, making a total of $205,863.06. It can be seen from these figures that it was necessary to increase the contract cost by just over ½ of 1%, a very modest amount for this type of construction.

The plant is at the present time treating an average of 315,000 gallons of sewage per day. Capacity of the plant is over 800,000 gallons per day so that Otsego's sewage treatment needs are taken care of for some years ahead. First tests on B. O. D. reduction showed over 90% effectiveness of treatment, an excellent figure for any sewage plant.

The diagram on the back of this program shows the flow of sewage through the plant and the function of each section of the plant.

City of Otsego
117 EAST ORLEANS STREET OTSEGO, MICHIGAN 49078 PHONE: (616) 692-3391

HISTORY OF OTSEGO WASTEWATER TREATMENT PLANT

This facilities original construction date was 1954. It became operational in early 1955. The original plant consisted of the following;the headworks consisting of grit chambers bar screen , comminutor and wet well followed by influent sewage pumps. Influent was pumped to the primary clarifiers (2) for the settling of primary organic solids which in turn are pumped to the anaerobic digestor. The primary effluent exits the primary tanks to flow to the trickling filter for secondary biological treatment from there the flow entered two rectangular secondary clarifiers for additional clarification and solids removal prior to chlorine disinfection. The plant remained as such for thirty five years until 1989 when a major expansion was undertaken. The plant expansion of 1989-1990 utilized existing facilities as a base to add additional treatment units for more capacity and improved performance. An additional trickling filter with crossflow plastic media rather than rock was added with a trickling filter recycle pump station , which allows for either parallel or series operation of the filters. Two circular secondary clarifiers were constructed to replace the old rectangular clarifiers. The old clarifiers are now utilized as chlorine contact tanks followed by dechlorination with sulfur dioxide. A storage tank in excess of 400,000 gallons capacity was also added for the plants biosolids. All plant equipment was replaced or rebuilt during this expansion and a new service building and laboratory were constructed. This upgrade is serving the community very well and there are no immmediate future plans for further upgrades.

STATE OF MICHIGAN

JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

INTERNET www deq state mi us

RUSSELL J. HARDING, Director

COPY

REPLY TO

SURFACE WATER QUALITY DIVISION
KNAPPS CENTRE
PO BOX 30273
LANSING MI 48909-7773

RECEIVED
JUL 10 2001
CITY OF OTSEGO

July 9, 2001

CERTIFIED MAIL -- 7000 0520 0016 5014 0199

Ms. Paula Baker, Clerk
City of Otsego
117 East Orleans Street
Otsego, Michigan 49078

Dear Ms. Baker:

SUBJECT: NPDES Permit No. MI0023744 -- Otsego WWTP, 210 North Grant Street, Otsego

Your National Pollutant Discharge Elimination System (NPDES) Permit has been processed in accordance with appropriate state and federal regulations. It contains the requirements necessary for you to comply with state and federal water pollution control laws.

REVIEW THE PERMIT EFFLUENT LIMITS AND COMPLIANCE SCHEDULES CAREFULLY. These are subject to the criminal and civil enforcement provisions of both state and federal law. Permit violations are audited by the Michigan Department of Environmental Quality and the United States Environmental Protection Agency and may appear in a published quarterly noncompliance report made available to agencies and the public.

Your monitoring and reporting responsibilities must be complied with in accordance with this permit. If applicable, Discharge Monitoring Report forms will be transmitted to you in the near future. These reports are to be submitted monthly or otherwise as required by your NPDES permit.

Any reports, notifications, or questions regarding the attached permit or NPDES program should be directed to the following address:

Mr. Frederick Morley, District Supervisor
Kalamazoo District Office, SWQD, DEQ
7953 Adobe Road
Kalamazoo, Michigan 49009-5026
Telephone: 616-567-3500

Sincerely,

William E. McCracken

William E. McCracken, P.E.
Chief, Permits Section
Surface Water Quality Division
517-373-8088

Attachment: Permit
cc: EPA-Region 5
208 Agency - West Michigan Regional Planning Commission
Wastewater Treatment Facility Superintendent
Mr. Frederick Morley, Kalamazoo District Supervisor, SWQD (2)
PCS Unit, SWQD
Point Source Studies (Grand Rapids District Office), SWQD
Industrial Pretreatment Program Unit, SWQD
Files

PERMIT NO. MI0023744

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Federal Act"), Michigan Act 451, Public Acts of 1994, as amended (the "Michigan Act"), Parts 31 and 41, and Michigan Executive Orders 1991-31, 1995-4 and 1995-18,

City of Otsego
117 East Orleans Street
Otsego, Michigan 49078

is authorized to discharge from the Otsego Wastewater Treatment Plant located at

210 North Grant Street
Otsego, Michigan 49078

designated as Otsego WWTP

to the receiving water named the Kalamazoo River in accordance with effluent limitations, monitoring requirements and other conditions set forth in this permit.

This permit takes effect on October 1, 2001. Any person who is aggrieved by this permit may file a sworn petition with the Office of Administrative Hearings of the Michigan Department of Environmental Quality, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Department may reject any petition filed more than 60 days after issuance as being untimely. If any condition of this permit is administratively challenged, the entire challenged permit is stayed and the previous permit will remain in effect until the Department takes final action after the Administrative Hearing.

This permit and the authorization to discharge shall expire at midnight, October 1, 2005. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit an application which contains such information and forms as are required by the Michigan Department of Environmental Quality to the Kalamazoo District Supervisor of the Surface Water Quality Division by April 1, 2005.

In accordance with R323.2416 of the Michigan Administrative Code, an annual biosolids land application fee shall be paid by each biosolids generator that land applies biosolids. Remittance of the fee to the Department by the permittee shall be postmarked no later than January 31 of each year.

This permit is based on a complete application submitted on March 30, 2000. The provisions of this permit are severable. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term in accordance with applicable laws and rules. On its effective date this permit shall supersede NPDES Permit No. MI0023744, expiring October 1, 2000.

Issued June 29, 2001.

William E. McCracken
Chief, Permits Section
Surface Water Quality Division

PART I

Section A. Limitations and Monitoring Requirements

1. Final Effluent Limitations, Monitoring Point 001A

During the period beginning on the effective date of this permit and lasting until the expiration date of this permit, the permittee is authorized to discharge treated municipal wastewaters from the City of Otsego wastewater treatment plant from Monitoring Point 001A through Outfall 001 to the Kalamazoo River. Such discharges shall be limited and monitored by the permittee as follows:

	Maximum Limits for Quantity or Loading				Maximum Limits for Quality or Concentration					
Parameter	Monthly	7-Day	Daily	Units	Monthly	7-Day	Daily	Units	Frequency of Analysis	Sample Type
Flow	(report)	---	(report)	MGD	---	---	---	---	Daily	Report Total Daily Flow
Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)										
May 1 – Sept. 30	160	250	---	lbs/day	25	40	---	mg/l	5XWeek	24-Hr Composite
Oct. 1 – April 30	250	380	---	lbs/day	40	60	---	mg/l	5XWeek	24-Hr Composite
Total Suspended Solids										
May 1 – Sept. 30	190	280	---	lbs/day	30	45	---	mg/l	5XWeek	24-Hr Composite
Oct. 1 – April 30	250	310	---	lbs/day	40	50	---	mg/l	5XWeek	24-Hr Composite
Ammonia Nitrogen (as N)	(report)	---	(report)	lbs/day	(report)	---	(report)	mg/l	Weekly	24-Hr Composite
Total Phosphorus (as P)	6.3	---	---	lbs/day	1.0	---	---	mg/l	5XWeek	24-Hr Composite
Fecal Coliform Bacteria	---	---	---	---	200	400	---	cts/100 ml	5XWeek	Grab
Total Residual Chlorine	---	---	---	---	---	---	0.038	mg/l	Daily	Grab
					Minimum Monthly					
$CBOD_5$ Minimum % Removal										
May 1 – Sept. 30	---	---	---	---	85	---	---	%	Monthly	Calculation
Oct. 1 – April 30	---	---	---	---	75	---	---	%	Monthly	Calculation
Total Suspended Solids Minimum % Removal										
May 1 – Sept. 30	---	---	---	---	85	---	---	%	Monthly	Calculation
Oct. 1 – April 30	---	---	---	---	75	---	---	%	Monthly	Calculation
					Minimum Daily		Maximum Daily			
pH	---	---	---	---	6.5	---	9.0	S.U.	Daily	Grab
Dissolved Oxygen	---	---	---	---	3.0	---	---	mg/l	Daily	Grab

The following design flow was used in determining the above limitations, but is not to be considered a limitation or actual capacity: 0.75 MGD

PART I

Section A. Limitations and Monitoring Requirements

a. Narrative Standard
The receiving water shall contain no unnatural turbidity, color, oil films, floating solids, foams, settleable solids, or deposits as a result of this discharge.

b. Sampling Locations
Samples for $CBOD_5$, Total Suspended Solids, Ammonia Nitrogen and Total Phosphorus shall be taken prior to disinfection. Samples for Dissolved Oxygen, Fecal Coliform Bacteria, Total Residual Chlorine and pH shall be taken after disinfection. The Kalamazoo District Supervisor of the Surface Water Quality Division may approve alternate sampling locations which are demonstrated by the permittee to be representative of the effluent.

c. Total Residual Chlorine
Compliance with the Total Residual Chlorine limit shall be determined on the basis of one or more grab samples. If more than one (1) sample per day is taken, the additional samples shall be collected in near equal intervals over at least eight (8) hours. The samples shall be analyzed immediately upon collection and the average reported as the daily concentration. EPA Method 330.1 or the Orion 97-70 electrode shall be used for analysis.

d. Percent Removal Requirements
These requirements shall be calculated based on the monthly (30-day) effluent $CBOD_5$ and Total Suspended Solids concentrations and the monthly influent concentrations for approximately the same period.

e. Reduction of Total Phosphorus in the Kalamazoo River/Lake Allegan Watershed
The Department has developed a Total Maximum Daily Load (TMDL) for Total Phosphorus in Lake Allegan. The TMDL is established to protect Lake Allegan from high nutrient levels which has resulted in violations of water quality standards. In addition to establishing the TMDL, the Department is signatory to a "Cooperative Agreement to Meet Total Maximum Daily Load (TMD) for Phosphorus" (cooperative agreement). Signatories to the cooperative agreement include point source dischargers of phosphorus and other stakeholders including nonpoint source contributors. The signatories to the cooperative agreement have agreed to participate with other point and nonpoint contributors in the watershed to reduce phosphorus as necessary to meet the goals of the TMDL. This will be accomplished by the development of phosphorus reduction implementation plans and other activities as specified in the cooperative agreement.

If it is determined that commitments under the cooperative agreement are not met, this permit may be modified to include the appropriate phosphorus requirements in accordance with applicable laws and rules.

f. Water Quality Trading
The permittee may participate in Michigan's Water Quality Trading Program in accordance with applicable laws and rules.

PART I

Section A. Limitations and Monitoring Requirements

Preventing Pollution is the Best Solution

The Michigan Department of Environmental Quality (DEQ) encourages you to consider pollution prevention alternatives. In some cases pollution prevention may allow you to avoid the need to discharge pollutants which would otherwise require permit limitations -- or even avoid the need for permits altogether! Pollution prevention can:

- ☑ Save Money
- ☑ Reduce Waste
- ☑ Aid Permit Compliance
- ☑ Protect Our Environment
- ☑ Improve Corporate Image
- ☑ Reduce Liability

The DEQ is helping Michigan's industries save money, reduce waste and protect our environment through pollution prevention. DEQ staff can provide pollution prevention assistance through telephone consultations, technical workshops and seminars, and informational publications. They can also put you directly in touch with local support networks and national pollution prevention resources. For more information, contact the Michigan Department of Environmental Quality, Environmental Assistance Division, at 1-800-662-9278 or visit our homepage at http://www.deq.state.mi.us

PART I

Section B. Schedule of Compliance

This section (Section B: Schedule of Compliance) is not needed for this permit.

PART I

Section C. Industrial Waste Pretreatment Program

1. Michigan Industrial Pretreatment Program

a. The permittee shall implement the Michigan Industrial Pretreatment Program approved on September 27, 1985, and modifications thereto, which upon approval are incorporated as enforceable requirements of this permit.

b. The permittee shall comply with Rules 323.2301 through 323.2317 of the Michigan Administrative Code (Part 23 Rules) and the approved Michigan Industrial Pretreatment Program.

c. The permittee shall have the legal authority and necessary interjurisdictional agreements that provide the basis for the implementation and enforcement of the approved Michigan Industrial Pretreatment Program throughout the service area. The legal authority and necessary interjurisdictional agreements shall include, at a minimum, the authority to carry out the activities specified in Rule 323.2306(a).

d. The permittee shall develop procedures which describe, in sufficient detail, program commitments which enable implementation of the approved Michigan Industrial Pretreatment Program and the Part 23 Rules in accordance with Rule 323.2306(c).

e. The permittee shall establish an interjurisdictional agreement (or comparable document) with all tributary governmental jurisdictions. Each interjurisdictional agreement shall contain, at a minimum, the following:

1) identification of the agency responsible for the implementation and enforcement of the approved Michigan Industrial Pretreatment Program within the tributary governmental jurisdiction's boundaries; and

2) the provision of the legal authority which provides the basis for the implementation and enforcement of the approved Michigan Industrial Pretreatment Program within the tributary governmental jurisdiction's boundaries.

f. The permittee shall prohibit discharges that:

1) cause, in whole or in part, the permittee's failure to comply with any condition of this permit or the Michigan Act;

2) restrict, in whole or in part, the permittee's management of biosolids.

3) cause, in whole or in part, operational problems at the treatment facility or in its collection system;

4) violate any of the general or specific prohibitions identified in Rule 323.2303(1) and (2);

5) violate categorical standards identified in Rule 323.2311; and

6) violate local limits established in accordance with Rule 323.2303(4).

g. The permittee shall maintain a list of its nondomestic users that meet the criteria of a significant industrial user as identified in Rule 323.2302(cc).

h. The permittee shall develop an enforcement response plan which describes, in sufficient detail, program commitments which will enable the enforcement of the approved Michigan Industrial Pretreatment Program and the Part 23 Rules in accordance with Rule 323.2306(g).

i. The District Supervisor of the Surface Water Quality Division may require modifications to the approved Michigan Industrial Pretreatment Program which are necessary to ensure compliance with the Part 23 Rules in accordance with Rule 323.2309.

j. The permittee shall not implement changes or modifications to the approved Michigan Industrial Pretreatment Program without notification to the District Supervisor of the Surface Water Quality Division.

PART I

Section C. Industrial Waste Pretreatment Program

k. The permittee shall maintain an adequate revenue structure and staffing level for effective implementation of the approved Michigan Industrial Pretreatment Program.

l. The permittee shall develop and maintain, for a minimum of three (3) years, all records and information necessary to determine nondomestic user compliance with the Part 23 Rules and the approved Michigan Industrial Pretreatment Program. This period of retention shall be extended during the course of any unresolved enforcement action or litigation regarding a nondomestic user or when requested by the Department or the United States Environmental Protection Agency. All of the aforementioned records and information shall be made available upon request for inspection and copying by the Department and the United States Environmental Protection Agency.

m. The permittee shall evaluate the approved Michigan Industrial Pretreatment Program for compliance with the Part 23 Rules and the prohibitions stated in item f (above). Based upon this evaluation, the permittee shall propose to the District Supervisor of the Surface Water Quality Division all necessary changes or modifications to the approved Michigan Industrial Pretreatment Program no later than the next Industrial Pretreatment Program Annual Report due date (see item o below).

n. The permittee shall develop and enforce local limits to implement the prohibitions listed in item f above. Local limits shall be based upon data representative of actual conditions demonstrated in a maximum allowable headworks loading analysis.

o. On or before April 1st of each year, the permittee shall submit, as required by Rule 323.2310(8) an Industrial Pretreatment Program Annual Report on the status of program implementation and enforcement activities. The reporting period shall begin on January 1st and end on December 31st. The Industrial Pretreatment Program Annual Report shall be submitted to the District Supervisor of the Surface Water Quality Division and may be submitted on forms provided by the Department. At a minimum, the Industrial Pretreatment Program Annual Report shall contain the following items:

1) additions, deletions, and any other modifications to the permittee's previously submitted nondomestic user inventory (Rule 323.2306(c)(i));

2) additions, deletions, and any other modifications to the permittee's approved Significant Industrial User List (Rule 323.2306(h));

3) a listing of the names of Significant Industrial Users not inspected by the permittee at least once during the reporting period or at the frequency committed to in the approved Michigan Industrial Pretreatment Program;

4) a listing of the names of Significant Industrial Users not sampled for all required pollutants by the permittee at least once during the reporting period or at the frequency committed to in the approved Michigan Industrial Pretreatment Program;

5) a listing of the names of Significant Industrial Users without a permit at any time during the reporting period;

6) a listing of the names of categorical industrial users in significant noncompliance for each of the criteria defined in Rule 323.2302(dd)(i)-(viii);

7) proof of publication of all categorical industrial users in significant noncompliance in the largest daily newspaper in the municipality in which the permittee is located;

PART I

Section C. Industrial Waste Pretreatment Program

8) a summary of the enforcement activities by the permittee during the report period. This Summary shall include:

a) a listing of the names of nondomestic users which were the subject of an enforcement action;

b) the enforcement action taken and the date the action was taken; and

c) whether the nondomestic user returned to compliance by the end of the reporting period (include date nondomestic user returned to compliance).

9) a listing of the names of Significant Industrial Users who did not submit pretreatment reports in accordance with requirements specified in their permit during the reporting period.

10) a listing of the names of Significant Industrial Users who did not self-monitor in accordance with requirements specified in their permit during the reporting period;

11) A summary of results of all the sampling and analyses performed of the wastewater treatment influent, effluent, and sludge conducted in accordance with approved methods during the reporting period; and

12) any other relevant information as requested by the Department.

PART I

Section D. Residuals Management Program

1. Residuals Management Program for Land Application of Biosolids

The permittee is authorized to land apply bulk biosolids or prepare bulk biosolids for land application in accordance with the requirements established in R323.2401 through R323.2418 of the Michigan Administrative Code (Part 24 Rules). The permittee has developed and implemented a Residuals Management Program (RMP) which complies with the requirements of the Part 24 Rules. Incineration, landfilling and other residual disposal activities shall be conducted in accordance with Part II.D.7. of this permit.

The permittee shall continue to implement the Residuals Management Program approved on (PENDING), and modifications thereto. The permittee shall certify that current residuals management practices are in accordance with the approved RMP, or propose modifications to the approved RMP. The program certification or proposed modifications shall be submitted to the Kalamazoo District Supervisor of the Surface Water Quality Division on or before November 1, 2001. The approved RMP, and any modifications thereto, are enforceable requirements of this permit.

a. Residuals Management Program Description
At a minimum, the program includes:

1) a description of the type and size of facility generating the biosolids;
2) a description of the biosolids treatment processes including the volume of biosolids generated from each process;
3) storage volume provided, if applicable;
4) transportation methods and spill prevention plan;
5) a description of the land application method;
6) a listing of the required information on all land application sites, information on initial application notifications required by R323.2408 and class B biosolids site restriction notifications, if applicable, as specified in R323.2414(3)(f);
7) a land application plan which shows compliance with the applicable management requirements identified in R323.2410 and the loading rates and limitations as specified in R323.2408, R323.2409 and R323.2417;
8) a description of the pathogen reduction method used to comply with R323.2411, R323.2414 and R323.2418;
9) a description of the vector attraction reduction method used to comply with R323.2415; and
10) information on monitoring program, monitoring frequencies pursuant to R323.2412, and one year of records representing the volume and concentrations of pollutants in the biosolids.

b. Modifications to the Approved RMP
The permittee shall submit proposed modifications to its RMP to the Kalamazoo District Supervisor of the Surface Water Quality Division for approval. The approved modification shall become effective upon the date of approval. Upon written notification, the Kalamazoo District Supervisor may impose additional requirements and/or limitations to the approved RMP, as necessary to protect public health and the environment from any adverse effect of a pollutant in the biosolids.

c. Recordkeeping
Records required by R323.2413 shall be kept for a minimum of five years. However, the records documenting cumulative loading for sites subject to cumulative pollutant loading rates shall be kept as long as the site receives biosolids.

d. Annual Report
The permittee shall report the number of dry tons of biosolids generated that were applied to the land in the State of Michigan in the state fiscal year (October 1 through September 30). The annual report shall include information required in R323.2413(2)(h) and R323.2413 (3) to (8), except R323.2413 (6)(b), (7)(b), and (8)(b). The report shall be submitted to the Kalamazoo District Supervisor of the Surface Water Quality Division on or before October 30 of each year.

PART II

Section A. Definitions

This list of definitions may include terms not applicable to this permit.

Acute toxic unit (TU_a) means $100/LC_{50}$ where the LC_{50} is determined from a whole effluent toxicity (WET) test which produces a result that is statistically or graphically estimated to be lethal to 50% of the test organisms.

Bioaccumulative chemical of concern (BCC) means a chemical which, upon entering the surface waters, by itself or as its toxic transformation product, accumulates in aquatic organisms by a human health bioaccumulation factor of more than 1000 after considering metabolism and other physiochemical properties that might enhance or inhibit bioaccumulation. The human health bioaccumulation factor shall be derived according to R 323.1057(5). Chemicals with half-lives of less than 8 weeks in the water column, sediment, and biota are not BCCs. The minimum bioaccumulation concentration factor (BAF) information needed to define an organic chemical as a BCC is either a field-measured BAF or a BAF derived using the biota-sediment accumulation factor (BSAF) methodology. The minimum BAF information needed to define an inorganic chemical as a BCC, including an organometal, is either a field-measured BAF or a laboratory-measured bioconcentration factor (BCF). The BCCs to which these rules apply are identified in Table 5 of R 323.1057 of the Water Quality Standards.

Biosolids are the solid, semisolid, or liquid residues generated during the treatment of sanitary sewage or domestic sewage in a treatment works. This includes, but is not limited to, scum or solids removed in primary, secondary, or advanced wastewater treatment processes and a derivative of the removed scum or solids.

Bulk biosolids means biosolids that are not sold or given away in a bag or other container for application to a lawn or home garden.

Chronic toxic unit (TU_c) means 100/MATC or $100/IC_{25}$, where the maximum acceptable toxicant concentration (MATC) and IC_{25} are expressed as a percent effluent in the test medium.

Class B Biosolids refers to material that has met the Class B pathogen reduction requirements or equivalent treatment by a Process to Significantly Reduce Pathogens (PSRP) in accordance with the Part 24 Rules. Processes include aerobic digestion, composting, anaerobic digestion, lime stabilization and air drying.

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 quantification limit, regard that value as zero when calculating the daily concentration. The daily concentration will be used to determine compliance with any maximum and minimum daily concentration limitations (except for pH and dissolved oxygen). When required by the permit, report the maximum calculated daily concentration for the month in the "MAXIMUM" column under "QUALITY OR CONCENTRATION" on the Discharge Monitoring Reports (DMRs).

For pH, report the maximum value of any individual sample taken during the month in the "MAXIMUM" column under "QUALITY OR CONCENTRATION" on the DMRs and the minimum value of any individual sample taken during the month in the "MINIMUM" column under "QUALITY OR CONCENTRATION" on the DMRs. For dissolved oxygen, report the minimum concentration of any individual sample in the "MINIMUM" column under "QUALITY OR CONCENTRATION" on the DMRs.

Daily loading is the total discharge by weight of a parameter discharged during any calendar day. This value is calculated by multiplying the daily concentration by the total daily flow and by the appropriate conversion factor. The daily loading will be used to determine compliance with any maximum daily loading limitations. When required by the permit, report the maximum calculated daily loading for the month in the "MAXIMUM" column under "QUANTITY OR LOADING" on the DMRs.

Department means the Michigan Department of Environmental Quality.

Detection Level means 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.

District Supervisor: The Kalamazoo District Supervisor of the Surface Water Quality Division is located at the Kalamazoo District Office-DEQ, Surface Water Quality Division, 7953 Adobe Road, Kalamazoo, Michigan 49009-5026, telephone: 616-567-3500 (fax: 616-567-9440).

PART II

Section A. Definitions

Division of Health Facility Services -- Health Facility Evaluation Section, Michigan Department of Consumer and Industry Services mailing address is P.O. Box 30195, Lansing, Michigan 48909.

Drinking Water and Radiological Protection Division -- Environmental Health, Michigan Department of Environmental Quality mailing address is P.O. Box 30630, Lansing, Michigan 48909-8130.

EC_{50} means a statistically or graphically estimated concentration that is expected to cause 1 or more specified effects in 50% of a group of organisms under specified conditions.

Fecal coliform bacteria monthly is the geometric mean of the samples collected in a calendar month (or 30 consecutive days). The calculated monthly value will be used to determine compliance with the maximum monthly fecal coliform bacteria limitations. When required by the permit, report the calculated monthly value in the "AVERAGE" column under "QUALITY OR CONCENTRATION" on the DMRs.

Fecal coliform bacteria 7-day is the geometric mean of the samples collected in any 7-day period. The calculated 7-day value will be used to determine compliance with the maximum 7-day fecal coliform bacteria limitations. When required by the permit, report the maximum calculated 7-day concentration for the month in the "MAXIMUM" column under "QUALITY OR CONCENTRATION" on the DMRs.

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

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

IC_{25} means the toxicant concentration that would cause a 25% reduction in a nonquantal biological measurement for the test population.

Interference is a discharge which, alone or in conjunction with a discharge or discharges from other sources, both:
1) inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and
2) therefore, is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or, of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent state or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including state regulations contained in any state sludge management plan prepared pursuant to Subtitle D of the SWDA), the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act. [This definition does not apply to sample matrix interference.]

Land Application means spraying or spreading biosolids or a biosolids derivative onto the land surface, injecting below the land surface, or incorporating into the soil so that the biosolids or biosolids derivative can either condition the soil or fertilize crops or vegetation grown in the soil.

LC_{50} means a statistically or graphically estimated concentration that is expected to be lethal to 50% of a group of organisms under specified conditions.

Maximum acceptable toxicant concentration (MATC) means the concentration obtained by calculating the geometric mean of the lower and upper chronic limits from a chronic test. A lower chronic limit is the highest tested concentration that did not cause the occurrence of a specific adverse effect. An upper chronic limit is the lowest tested concentration which did cause the occurrence of a specific adverse effect and above which all tested concentrations caused such an occurrence.

PART II

Section A. Definitions

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. The calculated monthly concentration will be used to determine compliance with any maximum monthly concentration limitations. When required by the permit, report the calculated monthly concentration in the "AVERAGE" column under "QUALITY OR CONCENTRATION" on the DMRs.

For minimum percent removal requirements, the monthly influent concentration and the monthly effluent concentration shall be determined. The calculated monthly percent removal, which is equal to 100 times the quantity [1 minus the quantity (monthly effluent concentration divided by the monthly influent concentration)], shall be reported in the "MINIMUM" column under "QUALITY OR CONCENTRATION" on the DMRs.

Monthly loading is the sum of the daily loadings of a parameter divided by the number of daily loadings determined in the reporting month (or 30 consecutive days). The calculated monthly loading will be used to determine compliance with any maximum monthly loading limitations. When required by the permit, report the calculated monthly loading in the "AVERAGE" column under "QUANTITY OR LOADING" on the DMRs.

National Pretreatment Standards are the regulations promulgated by or to be promulgated by the Federal Environmental Protection Agency pursuant to Section 307(b) and (c) of the Federal Act. The standards establish nationwide limits for specific industrial categories for discharge to a POTW.

NOAEL means the highest tested dose or concentration of a substance that results in no observed adverse effect in exposed test organisms where higher doses or concentrations result in an adverse effect.

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.

Nondomestic user is any discharger to a POTW that discharges wastes other than or in addition to water-carried wastes from toilet, kitchen, laundry, bathing or other facilities used for household purposes.

Pretreatment is reducing the amount of pollutants, eliminating pollutants, or altering the nature of pollutant properties to a less harmful state prior to discharge into a public sewer. The reduction or alteration can be by physical, chemical, or biological processes, process changes, or by other means. Dilution is not considered pretreatment unless expressly authorized by an applicable National Pretreatment Standard for a particular industrial category.

POTW is a publicly owned treatment works.

Quantification level means 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 of the contaminant.

Regional Administrator is the Region 5 Administrator, U.S. EPA, located at R-19J, 77 W. Jackson Blvd., Chicago, Illinois 60604.

7-day concentration is the sum of the daily concentrations determined during any 7 consecutive days in a reporting month divided by the number of daily concentrations determined. The calculated 7-day concentration will be used to determine compliance with any maximum 7-day concentration limitations. When required by the permit, report the maximum calculated 7-day concentration for the month in the "MAXIMUM" column under "QUALITY OR CONCENTRATION" on the DMRs.

7-day loading is the sum of the daily loadings of a parameter divided by the number of daily loadings determined during any 7 consecutive days in a reporting month. The calculated 7-day loading will be used to determine compliance with any maximum 7-day loading limitations. When required by the permit, report the maximum calculated 7-day loading for the month in the "MAXIMUM" column under "QUANTITY OR LOADING" on the DMRs.

PART II

Section A. Definitions

Significant industrial user is a nondomestic user that: 1) is subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N; or 2) discharges an average of 25,000 gallons per day or more of process wastewater to a POTW (excluding sanitary, noncontact cooling and boiler blowdown wastewater); contributes a process wastestream which makes up five (5) percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or is designated as such by the permittee as defined in 40 CFR 403.12(a) on the basis that the industrial user has a reasonable potential for adversely affecting the POTW's treatment plant operation or violating any pretreatment standard or requirement (in accordance with 40 CFR 403.8(f)(6)).

Tier I value means a value for aquatic life, human health or wildlife calculated under R 323.1057 of the Water Quality Standards using a tier I toxicity database.

Tier II value means a value for aquatic life, human health or wildlife calculated under R 323.1057 of the Water Quality Standards using a tier II toxicity database.

Toxicity Reduction Evaluation (TRE) means a site-specific study conducted in a stepwise process designed to identify the causative agents of effluent toxicity, isolate the sources of toxicity, evaluate the effectiveness of toxicity control options, and then confirm the reduction in effluent toxicity.

Water Quality Standards means the Part 4 Water Quality Standards developed under Part 31 of Act No. 451 of the Public Acts of 1994, as amended, being Rules 323.1041 through 323.1117 of the Michigan Administrative Code.

3-Portion Composite sample is a sample consisting of three equal volume grab samples collected at equal intervals over an 8-hour period.

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.

PART II

Section B. Monitoring Procedures

1. Representative Samples

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

2. Test Procedures

Test procedures for the analysis of pollutants shall conform to regulations promulgated pursuant to Section 304(h) of the Federal Act (40 CFR Part 136 - Guidelines Establishing Test Procedures for the Analysis of Pollutants). For parameters not specified in the permit or covered by the regulations, test procedures shall be submitted for approval to the Kalamazoo District Supervisor of the Surface Water Quality Division.

The permittee shall periodically calibrate and perform maintenance procedures on all analytical instrumentation at intervals to ensure accuracy of measurements. The calibration and maintenance shall be performed as part of the permittee's laboratory Quality Control/Quality Assurance program.

3. Instrumentation

The permittee shall periodically calibrate and perform maintenance procedures on all monitoring instrumentation at intervals to ensure accuracy of measurements.

4. Recording Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information: 1) the exact place, date, and time of measurement or sampling; 2) the person(s) who performed the measurement or sample collection; 3) the dates the analyses were performed; 4) the person(s) who performed the analyses; 5) the analytical techniques or methods used; 6) the date of and person responsible for equipment calibration; and 7) the results of all required analyses.

5. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, or longer if requested by the Regional Administrator or the Michigan Department of Environmental Quality.

PART II

Section C. Reporting Requirements

1. Start-up Notification

If the permittee will not discharge during the first 60 days following the effective date of this permit, the permittee shall notify the Kalamazoo District Supervisor of the Surface Water Quality Division within 14 days following the effective date of this permit, and then 60 days prior to the commencement of the discharge.

2. Submittal Requirements for Self-Monitoring Data

Unless instructed on the effluent limits page to conduct "retained self-monitoring," the permittee shall submit self-monitoring data on the Environmental Protection Agency's Discharge Monitoring Report (DMR) forms (monthly summary information) and the Department's Daily Discharge Monitoring Report forms (daily information) to PCS-Data Entry, Surface Water Quality Division, Michigan Department of Environmental Quality, P.O. Box 30273, Lansing, Michigan, 48909-7773, for each calendar month of the authorized discharge period(s). The forms shall be postmarked no later than the 10th day of the month following each month of the authorized discharge period(s).

Alternative Daily Discharge Monitoring Report formats may be used if they provide equivalent reporting details and are approved by the Kalamazoo District Supervisor of the Surface Water Quality Division. For information on electronic submittal of this information, contact the Kalamazoo District Supervisor.

3. Retained Self-Monitoring Requirements

If instructed on the effluent limits page to conduct retained self-monitoring, the permittee shall maintain a year-to-date log of retained self-monitoring results and, upon request, provide such log for inspection to the staff of the Surface Water Quality Division, Michigan Department of Environmental Quality (in the case of Type I or Type II public water supplies, mobile home parks, campgrounds, and marinas, to the staff of the Drinking Water and Radiological Protection Division -- Environmental Health, Michigan Department of Environmental Quality, or, in the case of hospitals, nursing homes and extended care facilities, to the staff of the Division of Health Facility Services -- Health Facility Evaluation Section, Michigan Department of Consumer and Industry Services). Retained self-monitoring results are public information and shall be promptly provided to the public upon request.

The permittee shall certify, in writing, to the Kalamazoo District Supervisor of the Surface Water Quality Division, on or before January 10th of each year, that: 1) all retained self-monitoring requirements have been complied with and a year-to-date log has been maintained; and 2) the application on which this permit is based still accurately describes the discharge.

4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report. Such increased frequency shall also be indicated.

Monitoring required pursuant to Part 41 of the Michigan Act or Rule 35 of the Mobile Home Park Commission Act (Act 96 of the Public Acts of 1987) for assurance of proper facility operation shall be submitted as required by the Department.

5. Compliance Dates Notification

Within 14 days of every compliance date specified in this permit, the permittee shall submit a written notification to the Kalamazoo District Supervisor of the Surface Water Quality Division indicating whether or not the particular requirement was accomplished. If the requirement was not accomplished, the notification shall include an explanation of the failure to accomplish the requirement, actions taken or planned by the permittee to correct the situation, and an estimate of when the requirement will be accomplished. If a written report is required to be submitted by a specified date and the permittee accomplishes this, a separate written notification is not required.

PART II

Section C. Reporting Requirements

6. Noncompliance Notification

Compliance with all applicable requirements set forth in the Federal Act, Parts 31 and 41 of the Michigan Act, and related regulations and rules is required. All instances of noncompliance shall be reported as follows:

a. 24-hour reporting - Any noncompliance which may endanger health or the environment (including maximum daily concentration discharge limitation exceedances) shall be reported, verbally, within 24 hours from the time the permittee becomes aware of the noncompliance. A written submission shall also be provided within five (5) days.

b. other reporting - The permittee shall report, in writing, all other instances of noncompliance not described in a. above at the time monitoring reports are submitted; or, in the case of retained self-monitoring, within five (5) days from the time the permittee becomes aware of the noncompliance.

Written reporting shall include: 1) a description of the discharge and cause of noncompliance; and 2) the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and the steps taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

7. Spill Notification

The permittee shall immediately report any spill or loss of any product, by-product, intermediate product, oils, solvents, waste material, or any other polluting substance which occurs to the surface waters or groundwaters of the state by calling the Kalamazoo District Supervisor of the Surface Water Quality Division at 616-567-3500, or if the notice is provided after regular working hours call the Department of Environmental Quality's 24-hour Pollution Emergency Alerting System telephone number, 1-800-292-4706 (calls from out-of-state dial 1-517-373-7660); and within ten (10) days of the spill or loss, the permittee shall submit to the Kalamazoo District Supervisor of the Surface Water Quality Division a full written explanation as to the cause and discovery of the spill or loss, clean-up and recovery measures taken, preventative measures to be taken, and schedule of implementation.

8. Upset Noncompliance Notification

If a process "upset" (defined as an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee) has occurred, the permittee who wishes to establish the affirmative defense of upset shall notify the Kalamazoo District Supervisor of the Surface Water Quality Division by telephone within 24 hours of becoming aware of such conditions; and within five (5) days, provide in writing, the following information:

a. that an upset occurred and that the permittee can identify the specific cause(s) of the upset;

b. that the permitted wastewater treatment facility was, at the time, being properly operated; and

c. that the permittee has specified and taken action on all responsible steps to minimize or correct any adverse impact in the environment resulting from noncompliance with this permit.

In any enforcement proceedings, the permittee, seeking to establish the occurrence of an upset, has the burden of proof.

PART II

Section C. Reporting Requirements

9. Bypass Prohibition and Notification

a. Bypass Prohibition - Bypass is prohibited unless:

1) bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

2) there were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass; and

3) the permittee submitted notices as required under 9.b. or 9.c. below.

b. Notice of Anticipated Bypass - If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Kalamazoo District Supervisor of the Surface Water Quality Division, if possible at least ten (10) days before the date of the bypass, and provide information about the anticipated bypass as required by the Kalamazoo District Supervisor. The Kalamazoo District Supervisor may approve an anticipated bypass, after considering its adverse effects, if it will meet the three conditions listed in 9.a. above.

c. Notice of Unanticipated Bypass - The permittee shall submit notice to the Kalamazoo District Supervisor of the Surface Water Quality Division of an unanticipated bypass by telephone at 616-567-3500 (if the notice is provided after regular working hours, use the following number: 1-800-292-4706) as soon as possible, but no later than 24 hours from the time the permittee becomes aware of the circumstances.

d. Written Report of Bypass - A written submission shall be provided within five (5) working days of commencing any bypass to the Kalamazoo District Supervisor of the Surface Water Quality Division, and at additional times as directed by the Kalamazoo District Supervisor. The written submission shall contain a description of the bypass and its cause; the period of bypass, including exact dates and times, and if the bypass has not been corrected, the anticipated time it is expected to continue; steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass; and other information as required by the Kalamazoo District Supervisor.

e. Bypass Not Exceeding Limitations - The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of 9.a., 9.b., 9.c., and 9.d., above. This provision does not relieve the permittee of any notification responsibilities under Part II.C.10. of this permit.

f. Definitions

1) Bypass means the intentional diversion of waste streams from any portion of a treatment facility.

2) Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

PART II

Section C. Reporting Requirements

10. Notification of Changes in Discharge

The permittee shall notify the Kalamazoo District Supervisor of the Surface Water Quality Division, in writing, within 10 days of knowing, or having reason to believe, that any activity or change has occurred or will occur which would result in the discharge of: 1) detectable levels of chemicals on the current Michigan Critical Materials Register, priority pollutants or hazardous substances set forth in 40 CFR 122.21, Appendix D, or the Pollutants of Initial Focus in the Great Lakes Water Quality Initiative specified in 40 CFR 132.6, Table 6, which were not acknowledged in the application or listed in the application at less than detectable levels; 2) detectable levels of any other chemical not listed in the application or listed at less than detection, for which the application specifically requested information; or 3) any chemical at levels greater than five times the average level reported in the complete application submitted on March 30, 2000. Any other monitoring results obtained as a requirement of this permit shall be reported in accordance with the compliance schedules.

11. Changes in Facility Operations

Any anticipated action or activity, including but not limited to facility expansion, production increases, or process modification, which will result in new or increased loadings of pollutants to the receiving waters must be reported to the Kalamazoo District Supervisor of the Surface Water Quality Division by a) submission of an increased use request (application) and all information required under Rule 323.1098 (Antidegradation) of the Water Quality Standards <u>or</u> b) by notice if the following conditions are met: 1) the action or activity will not result in a change in the types of wastewater discharged or result in a greater quantity of wastewater than currently authorized by this permit; 2) the action or activity will not result in violations of the effluent limitations specified in this permit; 3) the action or activity is not prohibited by the requirements of Part II.C.12.; and 4) the action or activity will not require notification pursuant to Part II.C.10. Following such notice, the permit may be modified according to applicable laws and rules to specify and limit any pollutant not previously limited.

12. Bioaccumulative Chemicals of Concern (BCC)

Consistent with the requirements of Rules 323.1098 and 323.1215 of the Michigan Administrative Code, the permittee is prohibited from undertaking any action that would result in a lowering of water quality from an increased loading of a BCC unless an increased use request and antidegradation demonstration have been submitted and approved by the Department.

13. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharge emanates, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Kalamazoo District Supervisor of the Surface Water Quality Division 30 days prior to the actual transfer of ownership or control.

PART II

Section D. Management Responsibilities

1. Duty to Comply

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit.

It is the duty of the permittee to comply with all the terms and conditions of this permit. Any noncompliance with the Effluent Limitations, Special Conditions, or terms of this permit constitutes a violation of the Michigan Act and/or the Federal Act and constitutes grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of an application for permit renewal.

2. Operator Certification

The permittee shall have the waste treatment facilities under direct supervision of an operator certified at the appropriate level for the facility certification by the Michigan Department of Environmental Quality, as required by Sections 3110 and 4104 of the Michigan Act.

3. Facilities Operation

The permittee shall, at all times, properly operate and maintain all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes adequate laboratory controls and appropriate quality assurance procedures.

4. Power Failures

In order to maintain compliance with the effluent limitations of this permit and prevent unauthorized discharges, the permittee shall either:

a. provide an alternative power source sufficient to operate facilities utilized by the permittee to maintain compliance with the effluent limitations and conditions of this permit; or

b. upon the reduction, loss, or failure of one or more of the primary sources of power to facilities utilized by the permittee to maintain compliance with the effluent limitations and conditions of this permit, the permittee shall halt, reduce or otherwise control production and/or all discharge in order to maintain compliance with the effluent limitations and conditions of this permit.

5. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to the surface waters or groundwaters of the state resulting from noncompliance with any effluent limitation specified in this permit including, but not limited to, such accelerated or additional monitoring as necessary to determine the nature and impact of the discharge in noncompliance.

6. Containment Facilities

The permittee shall provide facilities for containment of any accidental losses of concentrated solutions, acids, alkalies, salts, oils, or other polluting materials in accordance with the requirements of the Part 5 Rules (Rules 323.1151 through 323.1169 of the Michigan Administrative Code). For a Publicly Owned Treatment Work (POTW), these facilities shall be approved under Part 41 of the Michigan Act.

PART II

Section D. Management Responsibilities

7. Waste Treatment Residues

Residuals (i.e. solids, sludges, biosolids, filter backwash, scrubber water, ash, grit or other pollutants) removed from or resulting from treatment or control of wastewaters, shall be disposed of in an environmentally compatible manner and according to applicable laws and rules. These laws may include, but are not limited to, the Michigan Act, Part 31 for protection of water resources, Part 55 for air pollution control, Part 111 for hazardous waste management, Part 115 for solid waste management, Part 121 for liquid industrial wastes, Part 301 for protection of inland lakes and streams, and Part 303 for wetlands protection. Such disposal shall not result in any unlawful pollution of the air, surface waters or groundwaters of the state.

8. Treatment System Closure

In the event that discharges from a treatment system are planned to be eliminated, the permittee shall submit a closure plan to the Kalamazoo District Supervisor for approval. The closure plan shall include characterization of any wastewater and residuals which will remain on-site after the discharges are eliminated, along with disposal methods, proposed schedule, and any other relevant information as required by the Kalamazoo District Supervisor. Closure activities involving waste treatment residuals shall be consistent with Part II.D.7. of this permit.

The permittee shall implement the closure activities in accordance with the approved plan. Any wastewater or residual disposal inconsistent with the approved plan shall be considered a violation of this permit. After proper closure of the treatment system, this permit may be terminated.

9. Right of Entry

The permittee shall allow the Michigan Department of Environmental Quality, any agent appointed by the Department or the Regional Administrator, upon the presentation of credentials:

a. to enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and

b. at reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect process facilities, treatment works, monitoring methods and equipment regulated or required under this permit; and to sample any discharge of pollutants.

10. Availability of Reports

Except for data determined to be confidential under Section 308 of the Federal Act and Rule 2128 (Rule 323.2128 of the Michigan Administrative Code), all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department and the Regional Administrator. As required by the Federal Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Federal Act and Sections 3112, 3115, 4106 and 4110 of the Michigan Act.

PART II

Section E. Activities Not Authorized by This Permit

1. Discharge to the Groundwaters

This permit does not authorize any discharge to the groundwaters. Such discharge may be authorized by a groundwater discharge permit issued pursuant to the Michigan Act.

2. Facility Construction

This permit does not authorize or approve the construction or modification of any physical structures or facilities. Approval for such construction for a POTW must be by permit issued under Part 41 of the Michigan Act. Approval for such construction for a mobile home park, campground or marina shall be from the Drinking Water and Radiological Protection Division -- Environmental Health, Michigan Department of Environmental Quality. Approval for such construction for a hospital, nursing home or extended care facility shall be from the Division of Health Facility Services -- Health Facility Evaluation Section, Michigan Department of Consumer and Industry Services upon request.

3. Civil and Criminal Liability

Except as provided in permit conditions on "Bypass" (Part II.C.9. pursuant to 40 CFR 122.41(m)), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance, whether or not such noncompliance is due to factors beyond the permittee's control, such as accidents, equipment breakdowns, or labor disputes.

4. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee may be subject under Section 311 of the Federal Act except as are exempted by federal regulations.

5. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by Section 510 of the Federal Act.

6. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize violation of any federal, state or local laws or regulations, nor does it obviate the necessity of obtaining such permits or approvals from other units of government as may be required by law.

State of Michigan

National Pollutant Discharge Elimination System Permit Application For Discharges To Surface Waters

General Instructions	Pages i - iv
Section I - General Facility Information	Pages 1 - 4
Section II - Sanitary Wastewater Facilities	Pages 5 - 21
Section III - Industrial and Commercial Wastewater Facilities	Pages 22 - 31

SURFACE WATER QUALITY DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

EQP 4659 (Rev 1/00)

PURPOSE

The National Pollutant Discharge Elimination System (NPDES) program protects the surface waters of the state by assuring that domestic and industrial discharges to those waters comply with state and federal requirements. Anyone discharging or proposing to discharge wastewater to the surface waters of the state shall make application for and obtain a valid NPDES permit. The permit is required under Section 402 of the Federal Clean Water Act, as amended (33 U.S.C. 1251 et seq, P.L. 92-500, 95-217), and under Michigan Act 451, Public Acts of 1994, as amended. The Michigan Department of Environmental Quality (DEQ) may issue either an individual permit or Certificate of Coverage (COC) under a valid General Permit, dependent on the nature of the proposed discharge.

This application applies to facilities that discharge treated or untreated wastewater to the surface waters of the State of Michigan. Completion and submittal of this application by the discharger is required at least 180 days prior to commencing a discharge or expiration of the discharger's current NPDES permit.

AUTHORITY

The Part 21 Rules of Michigan Act 451, Public Acts of 1994, as amended, and Part 31 of the Act, provide authority to issue permits for wastewater discharges and the beneficial use of biosolids generated in the wastewater treatment process.

The DEQ administers the NPDES permit program in the State of Michigan.

PENALTIES

Federal and State statutes provide penalties for submitting false application information:

Michigan Act 451, Public Acts of 1994, as amended, Part 31, Section 15(2) states: "A person who at the time of the violation knew or should have known that he or she discharged a substance contrary to this part, or contrary to a permit, order, rule, or stipulation of the department, or who intentionally makes a false statement, representation, or certification in an application form pertaining to a permit or in a notice or report required by the terms and conditions of an issued permit, or who intentionally renders inaccurate a monitoring device or record required to be maintained by the department, is guilty of a felony and shall be fined not less than $2,500.00 or more than $25,000.00 for each violation. The court may impose an additional fine of not more than $25,000.00 for each day during which the unlawful discharge occurred. If the conviction is for a violation committed after a first conviction of the person under this subsection, the court shall impose a fine of not less than $25,000.00 per day and not more than $50,000.00 per day of violation. Upon conviction, in addition to a fine, the court in its discretion may sentence the defendant to imprisonment for not more than 2 years or impose probation upon a person for a violation of this part. With the exception of the issuance of criminal complaints, issuance of warrants, and the holding of an arraignment, the circuit court for the county in which the violation occurred has exclusive jurisdiction. However, the person shall not be subject to the penalties of this subsection if the discharge of the effluent is in conformance with and obedient to a rule, order, or permit of the department. In addition to a fine, the attorney general may file a civil suit in a court of competent jurisdiction to recover the full value of the injuries done to the natural resources of the state and the costs of surveillance and enforcement by the state resulting from the violation."

The Federal Clean Water Act of 1977 (P.L. 95-217), as amended, Section 309(c)(4), states: "Any person who knowingly makes false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under this act or who knowingly falsifies, tampers with, or renders inaccurate any monitoring device or method required to be maintained under this act, shall upon conviction, be punished by a fine not more than $10,000, or by imprisonment for not more than 2 years, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment shall be a fine of not more than $20,000 per day of violation, or by imprisonment of not more than 4 years, or by both."

The Michigan Department of Environmental Quality (DEQ) will not discriminate against any individual or group on the basis of race, sex, religion, age, national origin, color, marital status, disability, or political beliefs. Questions or concerns should be directed to the Office of Personnel Services, PO Box 30473, Lansing MI 48909.

GENERAL PROVISIONS

COMPLETION OF FORMS

1 There are three sections in this application form·

- **Section I** (pages 1-4) -- General Information to be provided by all applicants
- **Section II** (pages 5-14) -- Information to be provided by applicants that discharge domestic sanitary wastewater These facilities include both publicly owned treatment works (POTWs) and privately owned treatment facilities such as mobile home parks, campgrounds, condominiums, etc
- **Section III** (pages 15-25) -- Information to be provided by applicants that discharge from industrial and commercial facilities, including process, cooling and sanitary wastewaters

2. An appendix to the application is included. The appendix contains information that will assist the applicant in completion of the application **The appendix should not be returned with the application.**

3 The applicant should provide all requested information, unless otherwise specified **If a particular item or choice of answers does not fit the circumstances or characteristics of this application, enter "NA" for "Not Applicable" to indicate that the particular item was considered and not inadvertently omitted** It is the applicant's responsibility to adequately characterize the discharge or proposed discharge If the information requested by this application will not adequately characterize the discharge or proposed discharge, then additional information shall be provided by the applicant and attached to this application Additional information may consist of narrative information describing a unique situation, additional monitoring performed by the applicant, etc

4 When there are both existing facilities and proposed expansions of wastewater treatment facilities, provide information for both Make an extra copy of each application page where there are differences between the existing and the proposed facility (Include the "proposed facility" information only if the proposed facility is expected to be constructed and discharging within the next five years)

5. For assistance on completing this application, contact the appropriate DEQ, Surface Water Quality Division District Office (see Pages 2 and 3 of the appendix)

6 After completing this application, **return Section I, and any other completed section(s) to the appropriate District Office** (see Pages 2 and 3 of the appendix)

DEFINITIONS

7-Day Concentration is the sum of the daily concentrations determined during any seven (7) consecutive days in a calendar month divided by the number of daily concentrations determined If any daily concentration is less than the method detection level, regard that value as the detection level when calculating the monthly concentration, and indicate that the result is "less than" the value reported.

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.

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

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 detection level, regard that value as the detection level when calculating the daily concentration, and indicate that the result is "less than" the value reported.

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

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

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

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 detection level, regard that value as the detection level when calculating the monthly concentration, and indicate that the result is "less than" the value reported.

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 2 of the appendix.

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

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).

Storm Water - Regulated is a "storm water discharge associated with industrial activity" as defined at 40 CFR 122.26 (b) (14), including any storm water subject to effluent guidelines as defined below.

Storm Water Subject to Effluent Guidelines is a 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.

Preventing Pollution is the Best Solution

The Michigan Department of Environmental Quality (DEQ) encourages you to consider pollution prevention alternatives. In some cases pollution prevention may allow you to avoid the need to discharge pollutants which would otherwise require permit limitations -- or even avoid the need for permits altogether! Pollution prevention can:

- ☑ Save Money
- ☑ Reduce Waste
- ☑ Aid Permit Compliance
- ☑ Protect Our Environment
- ☑ Reduce Liability

The DEQ is helping Michigan's industries save money, reduce waste and protect our environment through pollution prevention. DEQ staff can provide pollution prevention assistance through telephone consultations, technical workshops and seminars, and informational publications. They can also put you directly in touch with local support networks and national pollution prevention resources. For more information, contact the DEQ, Environmental Assistance Division, at 1-800-662-9278 or visit our homepage at **http://www.deq.state.mi.us**.

INSTRUCTIONS FOR COMPLETING SECTION I, PAGES 1 AND 2

Applicants should provide the following information on page one of the application Where an address telephone number or e-mail address is duplicate indicate by writing the number from the appropriate box

1) NPDES PERMIT OR CERTIFICATE OF COVERAGE (COC) NUMBER This item applies to permit or COC reissuances **only** Enter NA if the application is for a new discharge

2) APPLICANT NAME AND MAILING ADDRESS
   - For industrial facilities - provide the parent company name and the division name
   - For federal and state facilities - provide the department name and the division or bureau name
   - For commercial facilities - provide both the owner's name and business's name
   - For publicly owned facilities - identify the legal owner of the facility and their mailing address

3) APPLICATION CONTACT Please provide the name, mailing address, telephone number and where appropriate the fax number and e-mail address of the person who should be contacted with questions concerning the application

4) FACILITY MAILING ADDRESS Provide the mailing address for the facility

5) FACILITY CONTACT Provide the name, title, address, telephone number and where appropriate the fax number and the e-mail address of the authorized contact person for the facility This person should be thoroughly familiar with the facts reported on these forms in the event that contact regarding the permit application or permit issues must be made

6) FACILITY NAME AND LOCATION Provide the name of the facility or plant Provide the physical location of the facility or plant **DO NOT USE** P O Box numbers

7) DISCHARGE MONITORING REPORTS (DMR) Provide the name and address, telephone number and where appropriate, the fax number and e-mail address of the person who will be responsible for completion and return of the facility's Discharge Monitoring Reports

8) BIOSOLIDS BILLING Provide the name and address, telephone number and where appropriate, the fax number and e-mail address of the person who will be responsible for payment of the land application fee required by Section 324 3132 of Michigan Act 451, Public Acts of 1997, Part 31

9) STORM WATER BILLING Provide the name and address, telephone number and where appropriate, the fax number and e-mail address of the person who will be responsible for payment of the facility storm water permit fee required in accordance with Section 324 3118 of Michigan Act 451, Public Acts of 1994, Part 31

1 PERMIT ACTION REQUESTED Indicate what type of permit action is being requested If you are from out of state or have a valid Groundwater discharge permit and are applying to land apply biosolids please complete Section I and Section II Parts D, E and F

11 RULE 1098 DEMONSTRATION If this facility has never discharged wastewater to the surface waters (New Use), or the facility is discharging but has never been issued an NPDES permit (existing unpermitted), or the facility has previously been issued an NPDES permit, but the facility is increasing the loading of pollutants to the receiving water, then check yes in this section and provide an antidegradation demonstration

1. ADDITIONAL FACILITY INFORMATION Provide the county and where appropriate the township where the facility is located Also provide the location of the facility in State Planar Coordinates (e g NE 1/4, SE 1/4, Section 34, T1N, R12E) and the facility latitude and longitude

13) CERTIFIED OPERATOR Provide the operator's name, certification number, and the facility classification (if known, based on type of treatment) **NOTE** Act 451 requires that all dischargers to the surface waters of the State of Michigan obtain a certified operator If you have any questions regarding operator certification, please contact the Environmental Assistance Division, Operator Training Unit at 517-373-4755

14) OTHER ENVIRONMENTAL PERMITS Follow instructions on page two

Michigan Department of Environmental Quality- Surface Water Quality Division

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION I - General Information

(This information is required by the Part 21 Rules of Michigan Act 451, Public Acts of 1994, as amended, Part 31. A municipality, business, or industry which violates the Part 21 Rules may be enjoined by action commenced by the Attorney General in a court of competent jurisdiction.)

See the facing page for instructions on completing pages 1 & 2

DEQ USE ONLY	
Permit ID #	Supplication #

PLEASE TYPE OR PRINT

Where addresses are duplicate you may indicate so (e.g. facility address is the same as the application mailing address).

1 NPDES PERMIT or COC NUMBER: MI0023744

2. APPLICANT ADDRESS

Company Name: City of OTSEGO

Street Address or P.O. Box: 117 E. Orleans ST

City: OTSEGO | State: MI | ZIP Code: 49078

Telephone (with area code): 616-692-3391 | FAX (with area code): 616-692-2643

e-mail address:

3. APPLICATION CONTACT

Contact Name: Thomas W. Dunn

Street Address or P.O. Box: 117 E. Orleans ST

City: Otsego | State: MI | ZIP Code: 49078

Telephone (with area code): 616-694-9194 | FAX (with area code): (616) 692-2643

e-mail address:

4. FACILITY MAILING ADDRESS

Facility Name: OTSEGO WWTP

Street Address or P.O. Box: 117 E. Orleans ST.

City: OTSEGO | State: MI | ZIP Code: 49078

Telephone (with area code): (616)-694-9194 | FAX (with area code): (616) 692-2643

e-mail address:

5. FACILITY CONTACT

Contact Name: Thomas W. Dunn

Street Address or P.O. Box: 117 E. Orleans ST

City: Otsego | State: MI | ZIP Code: 49078

Telephone (with area code): 616-694-9194 | FAX (with area code): (616) 692-2643

e-mail address:

6. FACILITY LOCATION ADDRESS

Facility Name: OTSEGO WWTP

Street Address: 210 N. Grant ST.

City: Otsego | State: MI | ZIP Code: 49078

Telephone (with area code): 616-694-9194 | FAX (with area code): 616-692-2643

e-mail address:

7. DISCHRGE MONITORING REPORTS

Contact Name: Thomas W. Dunn

Street Address or P.O. Box: 117 E. Orleans ST.

City: OTSEGO | State: MI | ZIP Code: 49078

Telephone (with area code): 616-694-9194 | FAX (with area code): (616) 692-2643

e-mail address:

8. BIOSOLIDS BILLING

Contact Name: Thomas Dunn

Street Address or P.O. Box: 117 E. Orleans ST

City: Otsego | State: MI | ZIP Code: 49078

Telephone (with area code): 616-692-3391 | FAX (with area code): (616) 692-2643

e-mail address:

9. STORM WATER BILLING

Contact Name:

Street Address or P.O. Box:

City: | State: | ZIP Code: 49078

Telephone (with area code): | FAX (with area code):

e-mail address:

Michigan Department of Environmental Quality- Surface Water Quality Division

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION I - General Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT or COC NUMBER
OTSEGO WWTP	MI0023744

10 PERMIT ACTION REQUESTED (Check one box only) (see instructions page iv)

- ☐ **NEW** proposed discharge ("New Use" OR an "Existing" discharge currently unpermitted)
- ☒ **REISSUANCE** of current permit
  - ☐ Check here if the permit reissuance proposes an increased loading of pollutants to the receiving water ("Increased Use") Attach a description of the proposed "increased use"
- ☐ **MODIFICATION** of current permit
  - ☐ Check here if the request includes an increased loading of pollutants to the receiving water ("Increased Use") Attach a description of the proposed modification
- ☐ **GENERAL PERMIT COVERAGE** Check here if you wish to be considered for coverage under a general permit (see appendix Table 10)
  - ☐ Check here if you are applying to land apply biosolids in Michigan Out of state and Groundwater discharger's see instructions on page iv

11 RULE 1098 DEMONSTRATION (see instructions page iv)

In accordance with Rule 323 1098 of the Part 4 Rules, the permittee must submit a Rule 323 1098 Demonstration for any new or increased loading of pollutants to the surface waters of the state Has the "New", "Existing Unpermitted", "Reissuance" (with increased use) or "Modification (with increased use) box in question 10 above, been checked? (see appendix for information)

- ☐ Yes, Submit a Rule 323 1098 demonstration (refer to Rule 323 1098, page 4 in the appendix for instructions) Questions should be directed to the appropriate district office (see page 2 and 3 in the appendix)
- ☐ No, Continue with Item 12

12 ADDITIONAL FACILITY LOCATION INFORMATION (see instructions on page iv)

A County / Township	County: Allegan			Township: OTSEGO	
B State Planar Coordinates	¼, ¼: NW	¼: SE	Section: 22	Town: T 1 N	Range: 1 2 W
C Latitude / Longitude (to the nearest 15 seconds)	Latitude: ~~85°42'30"~~ 42°27'45"			Longitude: ~~42°27'46"~~ 85°42'30"	

13 CERTIFIED OPERATOR (see instructions on page iv)

Does the facility have a certified operator? (Yes) No

Operator's Name Thomas W. Dunn

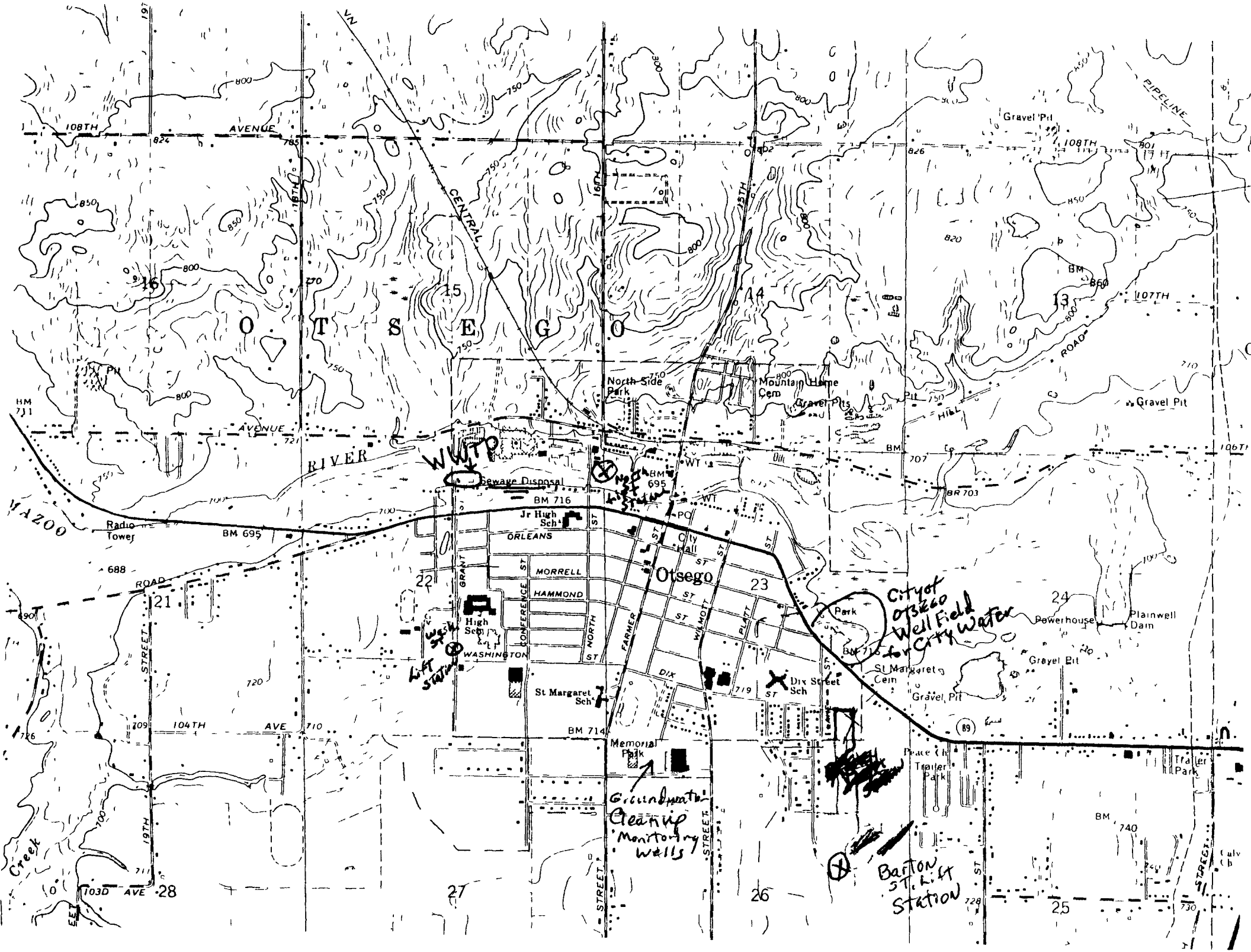
Certification Number Class A #1953

Certification Classification(s) Facility Classification B

14 OTHER ENVIRONMENTAL PERMITS

Provide the information requested below for any other federal, state or local environmental permits in effect or applied for at the time of submittal of this application form, including, but not limited to, permits issued under any of the following programs Air Pollution Control, Hazardous Waste Management, Wetlands Protection, Soil Erosion and Sedimentation Control, and other NPDES permits Include any additional information on 8 1/2" x 11" paper as an attachment to this application

Issuing Agency	Permit or COC Number	Permit Type



O T S E G O
108TH AVENUE
CENTRAL
PIPELINE
Gravel Pit
North Side Park
Mountain Home Cem
Gravel Pits
HILL ROAD
107TH
106TH
AVENUE
RIVER
MAZOO
Radio Tower
BM 695
Sewage Disposal
BM 716
Jr High Sch
ORLEANS
MORRELL
HAMMOND
WASHINGTON
City Hall
Otsego
GRANT
CONFERENCE
NORTH
FARMER
WILMOTT
PLATT
DIX
High Sch
St Margaret Sch
Dix Street Sch
Park
St Margaret Cem
Gravel Pit
Powerhouse
Plainwell Dam
Memorial Park
Peace Ch
Trailer Park
104TH AVE
103D AVE
19TH STREET
STREET
Creek
BM 714
BM 707
BM 740
BR 703
WWTP
North St Lift Station
Lift Station
City of Otsego Well Field for City Water
Groundwater Cleanup Monitoring Wells
Barton St. Lift Station

Michigan Department of Environmental Quality- Surface Water Quality Division

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION I - General Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT or COC NUMBER
City of OTSEGO WWTP	MI0023744

15. WATER FLOW DIAGRAM AND NARRATIVE DESCRIPTION

Provide a flow diagram (using 8 1/2" x 11" paper **if possible**) showing the wastewater flow through the facility including all treatment units, processes and bypass piping, and a narrative description of the water flow through the facility from intake to discharge. Show all operations contributing wastewater and the locations of flow meters, chemical feeds and discharge points. The water balance shall show daily average flow rates at intake and discharge points and approximate daily flow rates between treatment units including influent and treatment rates. Use actual *measurements whenever available, otherwise use your best estimate. Show all significant losses of water to products, atmosphere and discharge.*

Municipal Facilities - Include a narrative that briefly describes the history of the wastewater treatment facility. Include information describing when it was first constructed, what improvements have been made, future plans for upgrade, and other pertinent information.

Industrial and Commercial Facilities - The line diagram shall include all operations contributing wastewater including process and production areas, sanitary flows, cooling water and storm water runoff. **Include a narrative** which provides a brief description of the manufacturing processes.

ATTACH THIS INFORMATION TO THIS APPLICATION PLEASE DO NOT BIND THIS INFORMATION

16. MAP OF FACILITY AND DISCHARGE LOCATION

Provide a detailed map on 8 1/2" x 11" paper showing the location of the existing or proposed facility, wastewater and biosolid treatment system(s), and wastewater discharge points into receiving waters (including bypasses). Include the exact location of the wastewater discharge point(s) and all areas through which the discharge flows (e.g. wetlands, open drains, storm sewers), if applicable, between the discharge point and the receiving water. If the discharge is to a storm sewer, label the storm sewer and show its flow path to the receiving water. Also include the location of any water supply wells and groundwater monitoring wells. This map shall be a United States Geological Survey Quadrangle (7.5 minute series) or other map of comparable detail, scale and quality (which shows surface waterbodies, roads, and other pertinent landmarks). The minimum area this map shall encompass is approximately one mile beyond property boundaries.

ATTACH THIS INFORMATION TO THIS APPLICATION

17. LIST ADJACENT PROPERTY OWNERS

List the names and addresses of all property owners adjacent to the facility, treatment systems, and discharge locations. List this information in the space provided below or include the information as an attachment on 8 1/2" x 11" paper. If additional space is necessary, copy this blank page and attach this information to this application.

Name	Address	City	State	ZIP Code
Mr. + Mrs. Earl Holmes	208 N. Grant ST	OTSEGO	MI	49078
Mr + Mrs Ken Holmes	Nicholson	Otsego	MI	49078
Mr. Steve Norris	110 N. Grant ST.	OTSEGO	MI	49078
Mr. Tom Covault	518 Water ST.	OTSEGO	MI	49078
Mr. Wayne Backlund	519 Water ST P.O. Box 11	OTSEGO	MI	49078
Ms. Jessica Miller	521 Water ST	OTSEGO	MI	49078
Dwayne Meewen	511 Water ST	OTSEGO	MI	49078
Melissa Oxford	517 Water ST	OTSEGO	MI	49078

Michigan Department of Environmental Quality- Surface Water Quality Division

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION I - General Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT or COC NUMBER
OTSEGO WWTP	MI 0023744

18. ALTERNATE POWER SOURCE

If you are applying for a New or Existing Unpermitted discharge, continue to Section II or Section III.

Applicants with an approved Alternate Power Source Report shall indicate any changes that have been made to the alternate power source serving the facility in the past five years Submit the new information with the application and provide specific information regarding the appropriate pump station or treatment unit the alternate power source serves.

A. Indicate if the facility has a back-up source of power and if emergency procedures have been developed in case of a power outage to the facility.

☒ Yes, Continue to B. ☐ No. ☐ Not Applicable

B. Has an Alternate Power Source Report been approved by the DEQ?

☒ Yes, Continue to C. ☐ No.

C. Have changes been made that have not been reported to DEQ since the Report was approved?

☒ Yes, Submit the information as an attachment to this application. ☐ No.

This completes Section I. Facilities requesting authorization to only discharge sanitary wastewaters continue with Section II. Other facilities requesting authorization to discharge wastewater continue with Section III. Section I shall be accompanied by either Section II or Section III of this application. If you need assistance in determining the appropriate Sections to complete, contact the district office (see Pages 2 and 3 in the appendix for district office addresses and a map of district boundaries).

Michigan Department of Environmental Quality- Surface Water Quality Division

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION II - Sanitary Wastewater

A Facility Information

Section II is to be completed by Publicly Owned Treatment Works discharging treated or untreated sanitary and industrial wastewater to the surface waters Section II is also to be completed by all privately owned treatment facilities discharging treated sanitary wastewater to the surface waters The privately owned treatment facilities in this category generally include Mobile Home Parks, Campgrounds, Condominiums, Hotels and Motels, Nursing Homes, etc

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT or COC NUMBER
OTSEGO WWTP	MI0023744

1 SERVICE AREA INFORMATION

A Enter the source(s) of water supply serving the sewered service area Identify groundwater wells, surface water intakes and the name(s) of any surface water(s) from which intake water is drawn

City of Otsego Wellfields City Wells #3, #4, #5

Publicly Owned Treatment Works shall provide the following information:

B List the governmental jurisdictions (cities, townships, villages, etc) that this facility serves

Name	Population Served	Type of Collection System	Ownership
City of Otsego	4000	Gravity	City of Otsego
Township of Otsego	20	Gravity	City of Otsego

C Enter the total population served by this facility 4020

Privately Owned Treatment Works shall provide the following information:

D Enter the number of residential units served by this facility _____

E Describe the service area (mobile home park, condominium, nursing home, industrial facility, etc)

2 BIOMONITORING FOR ACUTE AND CHRONIC TOXICITY

Publicly Owned Treatment Works (POTWs) with facility design flows of one (1) million gallons per day or greater, POTWs with approved Federal Industrial Pretreatment Programs (FIPP), and POTWs required to develop Federal Pretreatment Programs (FIPP), shall include whole-effluent toxicity (WET) test data with this application

The WET testing requirement can be met by conducting chronic toxicity tests on two test species for at least four sampling periods and submitting the test results with the application Sampling periods shall be quarterly for a 12-month period prior to this application, or annually in the four and one-half years prior to this application Test species shall include fathead minnows **and** Ceriodaphnia dubia unless alternative species are approved by the Department Testing and reporting shall follow procedures contained in EPA 40 CFR Part 136 (Federal Register, 53529 October 16, 1995) unless alternative methods are approved by the Department Current methods are contained in EPA/600/4-91/002, "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" The chronic toxicity tests shall be conducted and reported such that the acute toxicity of the effluent to the two test species can be determined Acute toxicity test data and respective median lethal concentration (LC_{50}) values at 96 hours (fathead minnow) and 48 hours (Ceriodaphnia) shall be included in the reporting of the chronic toxicity test results

The applicant may request approval to reduce this application requirement to acute toxicity testing only based on high receiving water dilution or other site-specific factors An 80 1 or greater dilution ratio of the receiving water 95% exceedance drought flow to facility design flow may justify reduction to acute testing only Such requests, with supporting rationale, shall be made in writing to the appropriate District Supervisor of the Surface Water Quality Division (see pages 2 and 3 of the appendix)

The biomonitoring described above will meet the whole-effluent biological testing requirement of the federal regulation under 40 CFR 122 21 for municipal applicants If you need assistance in determining if this facility shall submit WET data, or if acute toxicity testing only may be allowable, contact the appropriate district office (see pages 2 and 3 of the appendix)

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION II - Sanitary Wastewater

B Outfall Information

INSTRUCTIONS FOR COMPLETING SECTION II, ITEM 3.

This item requests detailed information about flow variation of the facility and the location(s) of the outfall(s), frequency of discharge and volume of effluent discharged Outfall refers to any discharge of treated or untreated wastewater Outfalls include discharges from the treatment facility, retention basins, equalization treatment basins, underdrains, CSO's, etc Please provide the information below for each individual outfall from which wastewater discharges (main outfall(s), retention basins, underdrains, etc) Fill in the Outfall Number in the top right hand box, identify 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 numbers identification)

A WATERSHED Identify the receiving stream's watershed Each receiving stream will eventually discharge into one of the Great Lakes or one of the connecting waters (i e Detroit River, St Mary's River, St Clare River) Indicate from which river the discharge eventually discharges to the Great Lakes For example Sycamore Creek is tributary to the Red Cedar River, which is tributary to the Grand River, which discharges to Lake Michigan Therefore a discharge to the Sycamore Creek is a discharge to the Grand River Watershed

B RECEIVING STREAM Identify the exact location of the wastewater discharge point(s) and all areas through which the discharge flows (e g storm sewers, open drains, wetlands), if applicable, between the discharge point and the receiving water Examples of receiving waters are rivers, creeks, drains, etc

C COUNTY / TOWNSHIP Provide the county and township where the point of discharge is located

D STATE PLANAR COORIDINATES Provide the location of the discharge to the receiving water in State Planar Coordinates Report State Planar Coordinates using quarter-quarter section, quarter section, section, town and range (e g , NE 1/4, SE 1/4, Section 34, T1N, R12E)

E LATITUDE / LONGITUDE Provide the latitude and longitude of the discharge to the nearest 15 seconds (e g , Latitude = 42°27'15", Longitude = 83°02'30")

F SEASONAL DISCHARGE If the treatment facility discharges from one to seven days per week throughout the year, check "No" and continue with Item G If the facility stores wastewater that accumulates throughout the year and discharges it a few weeks or months a year, after treatment, check "YES" and provide the dates the facility discharges (e g , October 15 through November 10)

G DISCHARGE DURATION AND FREQUENCY Enter the approximate hours per day and the number of days per year that the discharge occurs from this outfall Sequencing Batch Reactors (SBRs) shall enter the number of discharges per day and the duration of each discharge (in hours per day)

H FACILITY DESIGN FLOW Enter the annual average design flow in millions of gallons per day (MGD) that the facility is designed to treat Seasonal dischargers shall enter the total volume (million gallons per year, MGY) of wastewater the facility is designed to treat and discharge per year. This number will be used in determination of appropriate effluent limitations

I EXPECTED DISCHARGE FLOWS Provide the information requested regarding the expected or measured variability of flow from this facility, if available This information shall be representative of what you expect to discharge during the next five years

Michigan Department of Environmental Quality- Surface Water Quality Division

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION II - Sanitary Wastewater

B. Outfall Information

Complete a separate Section II. B. Outfall Information (pages 7 - 14) for each outfall at the facility. Make copies of this blank section of the application if necessary.

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT or COC NUMBER	OUTFALL NUMBER
City of OTSEGO WWTP	MI0023744	001

3. OUTFALL INFORMATION (see page 6 for instruction on completion of this page)

A.	Watershed: Kalamazoo River				
B.	Receiving Water: Kalamazoo River				
C.	County: Allegan		Township: OTSEGO		
D.	¼, ¼: NW	¼: SE	Section: 22	Town: T1N	Range: 12W
E.	Latitude (to nearest 15 seconds): 42°27'45"		Longitude (to nearest 15 seconds): 85°42'30"		

F. Is this a Seasonal Discharge?

☐ Yes, List the discharge periods (by month) in the space provided below. ☑ No, Continue with item G.

From	Through	From	Through
From	Through	From	Through

G. How often is there a discharge from this outfall (on the average)?

Hours/Day	Days/Year	Number of Discharges / Day (Sequencing Batch Reactors)
24 hours/day	365 days/year	

H. Facility Design Flows:

Annual Average Design Flow (MGD) 0.75 MGD Annual Total - Seasonal Dischargers Only (MGY) _____

I. Expected Discharge Flow (provide what you know or can obtain in the spaces below):

Annual Average	Weekly Maximum	Daily Maximum	2-Hour Maximum	Maximum Dry Weather	Maximum Wet Weather
0.381 MGD	MGD	0.515 MGD	MGD	MGD	MGD

Flow in Million Gallons per Day (MGD)

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Continuous Dischargers Daily Average	.339	.365	.350	.395	.399	.392	.395	.406	.390	.393	.383	.370
Seasonal Dischargers Daily Maximum												

Michigan Department of Environmental Quality- Surface Water Quality Division

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION II - Sanitary Wastewater

B. Outfall Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT or COC NUMBER	OUTFALL NUMBER
City of OTSEGO WWTP	MI0023744	001

4. EFFLUENT CHARACTERISTICS – CONVENTIONAL POLLUTANTS

Report existing or projected discharge data for the listed parameters. Existing facilities shall provide effluent analytical data for the following parameters. However, applicants for new uses need only report either Carbonaceous BOD_5 or BOD_5. Data that is available for parameters not specifically listed in this page shall be provided in the blank areas of this page or included as an attachment on 8 1/2" x 11" paper. Analytical methods approved pursuant to 40 CFR Part 136, shall be used for analysis of all parameters. (See pages ii and iii for sampling definitions, including "daily concentration" and "monthly concentration".)

Check this box if additional information is included as an attachment.

Parameter	Maximum Daily Concentration	Maximum Monthly Concentration	Units	Number of Analyses	Sample Type
Biochemical Oxygen Demand - five day (BOD_5)	N.A.	N.A.	mg/l		☐ Grab ☐ 24 Hr Comp
BOD_5, % Removal	Do Not Use	N.A.	%		☐ Grab ☐ 24 Hr Comp
Carbonaceous BOD_5 ($CBOD_5$)	21	13	mg/l	245	☐ Grab ☒ 24 Hr Comp
Carbonaceous BOD_5, % Removal	Do Not Use	97	%	245	☐ Grab ☒ 24 Hr Comp
Ammonia Nitrogen (as N)	45	19	mg/l	52	☐ Grab ☒ 24 Hr Comp
Total Suspended Solids	24	12	mg/l	245	☐ Grab ☒ 24 Hr Comp
Total Suspended Solids, % Removal	Do Not Use	97	%	245	☐ Grab ☒ 24 Hr Comp
Total Dissolved Solids	N.A	N.A	mg/l		☐ Grab ☐ 24 Hr Comp
Total Phosphorus (as P)	2.9	0.72	mg/l	245	☐ Grab ☒ 24 Hr Comp
Fecal Coliform Bacteria (report geometric means)	max. 7-day 35	4	counts/100 ml	250	Grab
Total Residual Chlorine	.032	.002	☐ µg/l ☒ mg/l	360	Grab
Dissolved Oxygen	min. daily 5.6	Do Not Use	mg/l	-	Grab
pH (report maximum and minimum of individual samples)	minimum 7.1	maximum 7.9	Standard Units	365	Grab
Total Copper	22	N/A	ug/l	4	☐ Grab ☒ 24 Hr Comp
					☐ Grab ☐ 24 Hr Comp
					☐ Grab ☐ 24 Hr Comp
					☐ Grab ☐ 24 Hr Comp
					☐ Grab ☐ 24 Hr Comp
					☐ Grab ☐ 24 Hr Comp
					☐ Grab ☐ 24 Hr Comp
					☐ Grab ☐ 24 Hr Comp

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION II - Sanitary Wastewater

B. Outfall Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT or COC NUMBER	OUTFALL NUMBER

5 EXPANDED EFFLUENT TESTING DATA Not Required per District Office

Publicly Owned Treatment Works (POTWs) with a design flow greater than or equal to 1.0 mgd or POTWs with an approved Federal Industrial Pretreatment Program (FIPP), or POTWs required to develop a Federal Industrial Pretreatment Program (FIPP) or POTWs otherwise required by the permitting authority to provide the information, must provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old. (Complete once for each outfall discharging effluent to waters of the state.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML / MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS											
ANTIMONY											
ARSENIC											
BERYLLIUM											
CADMIUM											
CHROMIUM											
COPPER											
LEAD											
MERCURY											
NICKEL											
SELENIUM											
SILVER											
THALLIUM											
ZINC											
CYANIDE											
TOTAL PHENOLIC COMPOUNDS											
HARDNESS (AS CACO 3)											
USE THIS SPACE (OR SEPARATE SHEET) TO PROVIDE INFORMATION ON OTHER METALS REQUESTED BY THE PERMIT WRITER											

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION II - Sanitary Wastewater

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT OR COC NUMBER	OUTFALL NUMBER

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML / MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number Of Samples		
VOLATILE ORGANIC COMPOUNDS											
ACROLEIN											
ACRYLONITRILE											
BENZENE											
BROMOFORM											
CARBON TETRACHLORIDE											
CLOROBENZENE											
CHLORODIBROMO-METHANE											
CHLOROETHANE											
2-CHLORO-ETHYLVINYL											
ETHER											
CHLOROFORM											
DICHLOROBROMO-METHANE											
1,1-DICHLOROETHANE											
1,2-DICHLOROETHANE											
TRANS-1,2-DICHLORO-ETHYLENE											
1,1-DICHLOROETHYLENE											
1,2-DICHLOROPROPANE											
1,3-DICHLORO-PROPYLENE											
ETHYLBENZENE											
METHYL BROMIDE											
METHYL CHLORIDE											
METHYLENE CHLORIDE											
1,1,2,2-TETRACHLORO-ETHANE											
TETRACHLORO-ETHYLENE											
TOLUENE											
1,1,1-TRICHLOROETHANE											
1,1,2-TRICHLOROETHANE											
TRICHLORETHYLENE											

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION II - Sanitary Wastewater

B. Outfall Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT OR COC NUMBER	OUTFALL NUMBER

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML / MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number Of Samples		
VINYL CHLORIDE											
USE THIS SPACE (OR SEPARATE SHEET) TO PROVIDE INFORMATION ON OTHER VOLATILE ORGANIC COMPOUNDS REQUESTED BY THE PERMIT WRITER											
ACID-EXTRACTABLE COMPOUNDS											
P-CHLORO-M-CRESOL											
2-CHLOROPHENOL											
2,4-DICHLOROPHENOL											
2,4-DIMETHYLPHENOL											
4,6-DINITRO-O-CRESOL											
2,4-DINITROPHENOL											
2-NITROPHENOL											
4-NITROPHENOL											
PENTACHLOROPHENOL											
PHENOL											
2,4,6-TRICHLOROPHENOL											
USE THIS SPACE (OR SEPARATE SHEET) TO PROVIDE INFORMATION ON OTHER ACID-EXTRACTABLE COMPOUNDS REQUESTED BY THE PERMIT WRITER											
BASE-NEUTRAL COMPOUNDS											
ACENAPHTHENE											
ACENAPHTHYLENE											
ANTHRACENE											
BENZIDINE											
BENZO(A)ANTHRACENE											
3,4 BENZO-FLUORANTHENE											
BENZO(GHI)PERYLENE											
BENZO(K)FLUORANTHENE											
BIS (2-CHLOROETHOXY) METHANE											
BIS (2-CHLOROETHYL)-ETHER											
BIS (2-CHLOROISO-PROPYL)											

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION II - Sanitary Wastewater

B. Outfall Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT OR COC NUMBER	OUTFALL NUMBER

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML / MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number Of Samples		
ETHER											
BIS (2-ETHYLHEXYL) PHTHALATE											
4-BROMOPHENYL PHENYL ETHER											
BUTYL BENZYL PHTHALATE											
2-CHLORONAPHTHALENE											
4-CHLORPHENYL PHENYL ETHER											
CHRYSENE											
DI-N-BUTYL PHTHALATE											
DI-N-OCTYL PHTHALATE											
DIBENZO(A,H) ANTHRACENE											
1,2-DICHLOROBENZENE											
1,3-DICHLOROBENZENE											
1,4-DICHLOROBENZENE											
3,3-DICHLOROBENZIDINE											
DIETHYL PHTHALATE											
DIMETHYL PHTHALATE											
2,4-DINITROTOLUENE											
2,6-DINITROTOLUENE											
1,2-DIPHENYLHYDRAZINE											
FLUORANTHENE											
FLUORENE											
HEXACHLOROBENZENE											
HEXACHLOROBUTADIENE											
HEXACHLOROCYCLO-PENTADIENE											
HEXACHLOROETHANE											
ISOPHORONE											
NAPHTHALENE											
NITROBENZENE											

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION II - Sanitary Wastewater

B. Outfall Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT OR COC NUMBER	OUTFALL NUMBER

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML / MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number Of Samples		
N-NITROSODI-N-PROPYLAMINE											
N-NITROSODI- METHYLAMINE											
N-NITROSODI-PHENYLAMINE											
PHENANTHRENE											
PYRENE											
1,2,4-TRICHLOROBENZENE											
USE THIS SPACE (OR SEPARATE SHEET) TO PROVIDE INFORMATION ON OTHER BASE-NEUTRAL COMPOUNDS REQUESTED BY THE PERMIT WRITER											

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION II - Sanitary Wastewater

B. Outfall Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT OR COC NUMBER	OUTFALL NUMBER

6. EFFLUENT CHARACTERISTICS - TOXIC POLLUTANTS

This worksheet is to be used by applicants to record information on any Michigan Critical Material, EPA Priority Pollutant, or hazardous substance for which this application requires that data be provided. This includes any substance from Table 3 which lists Organic Toxic Pollutants, Table 4, Other Toxic Pollutants, Table 5, Conventional and Nonconventional Pollutants, Table 6, Toxic Pollutants and Hazardous Substances, Table 7 the Michigan Critical Materials Register, or Table 8 the EPA Priority Pollutant Listing (in the appendix). If the applicant believes a pollutant may be present in the effluent that is not included in these lists, data shall be provided for that pollutant with this application. This information may also be included as an attachment to this application on 8 1/2" x 11" paper. Page 12 of the appendix is a list of minimum testing requirements for various dischargers. As a minimum applicants for those types of discharge must provide analytical data based on that list.

Applicants shall use EPA approved analytical methods when conducting sampling (40 CFR 136). For each parameter provide the name of the parameter as listed in the Tables, the maximum daily and monthly discharge concentrations, units, the number of analyses performed, and the sample type. If analytical results for a composite sample are being provided and the sample is not a 24-hour composite, include a description of the sample collection technique used as an attachment to this application on 8 1/2" x 11" paper. When calculating an average where some values are detectable and others are nondetectable, either provide the actual data, or regard each nondetectable value as the detection level when calculating concentrations and indicate that the result is "less than" the value reported. (See definitions of "daily concentration" and "monthly concentration" in the general provisions at the front of this form.) Please include an explanation if "Pollution Prevention" is expected to provide reductions of pollutants. (See page ii and iii for sampling definitions, including, "daily concentration", and "monthly concentration".) See Table 12 in the appendix for acceptable "Levels of Quantification".

In addition to the maximum daily and maximum monthly concentrations required above the applicant must provide individual sample data to determine if Water Quality Based Effluent Limits (WQBELs) are necessary. If more than 10 individual samples results are available please provide this data in an attachment to the application. WQBELs for toxic pollutants are incorporated into an NPDES permit when the DEQ has determined that a substance is or may be discharged into the receiving waters at a level that has a reasonable potential to exceed the substance's water quality value. The determination is made using the procedure described in the Part 8 Rules of Act 451, Public Acts of 1994 as amended. (See page 7 in the appendix)

☐ Check this box if additional information is included as an attachment.

Toxic Pollutant	Maximum Daily Concentration (µg/l)	Maximum Monthly Concentration (µg/l)	Quantification Level Used (µg/l)	Number of Analyses	Sample Type
Individual Samples (ug/l)					
					☐ Grab ☐ 24 Hr Comp
1 2 3 4 5 6 7 8 9 10					
					☐ Grab ☐ 24 Hr Comp
1 2 3 4 5 6 7 8 9 10					
					☐ Grab ☐ 24 Hr Comp
1 2 3 4 5 6 7 8 9 10					

Are any of the above listed toxic pollutants present in the facility's supply water?

☐ No, Continue to question 7. ☐ Yes, Please read below.

In accordance with Rule 1211(7), facilities whose supply water contains toxic pollutants that are withdrawn from and discharged to the same body of water may qualify for intake credits for those toxic pollutants. See Rule 1211(7) for qualification and demonstration requirements.

Michigan Department of Environmental Quality- Surface Water Quality Division

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION II - Sanitary Wastewater

C. Combined Sewer Overflow Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT or COC NUMBER
OTSEGO WWTP	MI 0023744

6 BYPASSES AND COMBINED SEWER OVERFLOWS

Complete this item if there are outfalls at the treatment facility or along the collection system from which discharges of untreated, or partially treated wastewater occur This includes outfalls from which bypasses of sewage to receiving waters occurs during mechanical or power failures at pump stations or the treatment facility Other examples include outfalls for combined sewer overflows (CSO) If additional space is needed, make copies of page 16

A Indicate if the sanitary sewer system is totally separated from the storm sewer system or if they are combined

☒ Separated

☐ Combined - Estimate what percentage of the sanitary sewer system is combined _____ %

B Are there any bypass outfalls or combined sewer overflows (either at the facility or along the collection system)?

☐ No, Go to Item 8

☐ Yes, Provide the requested information below Make additional copies of the next page, if necessary.

For each outfall provide the following information:

A Identify the outfall by number (e g 001, 002, etc) Applicants with existing NPDES permits should refer to their current NPDES permit for outfall number identification, provide the name of the receiving water to which this outfall discharges

B Enter the street location and county in which the outfall is located

C Provide the location in State Planar Coordinates

D Describe the location using latitude and longitude (to the nearest 15 seconds)

E Describe the type of discharge (pump station, bypass, CSO, etc)

F Describe the conditions that result in a discharge from the outfall (examples are power failures, wet weather events, etc)

G Approximate the number of days per year, hours per day, and gallons per hour the discharge occurs

A	Outfall Number 002	Receiving Water Kalamazoo River			
B	County Allegan		Township Otsego		
C	¼,¼ NW	¼ SE	Section 23	Town T 1 N	Range 1 2 W
D	Latitude (to nearest 15 seconds) 42° 27'45"		Longitude (to nearest 15 seconds) 85°42'30"		
E	Type of Discharge Pump Station				
F	Discharge Conditions Lift Station Failure				
G	Discharge Frequency 0 Days/year	0 Hours/day	0 MGD		

A	Outfall Number	Receiving Water			
B	County		Township		
C	¼,¼	¼	Section	Town	Range
D	Latitude		Longitude		
E	Type of Discharge				
F	Discharge Conditions				
G	Discharge Frequency Days/year	Hours/day	MGD		

Michigan Department of Environmental Quality- Surface Water Quality Division

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION II - Sanitary Wastewater

C. Combined Sewer Overflow Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT or COC NUMBER
OTSEGO WWTP	MI 0023744

BYPASSES AND COMBINED SEWER OVERFLOWS - Continued.

Use this sheet to describe additional bypass or CSO outfalls . Make additional copies of this page if necessary.

A.	Outfall Number	Receiving Water			
B.	County		Township		
C.	¼,¼	¼	Section	Town	Range
D.	Latitude		Longitude		
E.	Type of Discharge				
F.	Discharge Conditions				
G.	Discharge Frequency Days/year	Hours/day	MGD		

A.	Outfall Number	Receiving Water			
B.	County		Township		
C.	¼,¼	¼	Section	Town	Range
D.	Latitude		Longitude		
E.	Type of Discharge				
F.	Discharge Conditions				
G.	Discharge Frequency Days/year	Hours/day	MGD		

A.	Outfall Number	Receiving Water			
B.	County		Township		
C.	¼,¼	¼	Section	Town	Range
D.	Latitude		Longitude		
E.	Type of Discharge				
F.	Discharge Conditions				
G.	Discharge Frequency Days/year	Hours/day	MGD		

Michigan Department of Environmental Quality- Surface Water Quality Division

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION II - Sanitary Wastewater

E. Biosolids Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT NUMBER
OTSEGO WWTP	MI0023744

8. RESIDUALS HANDLING

Provide total English dry tons per 365-day period of biosolids handled under the following practices:

Amount generated at the facility:	68.0	Amount applied to land in bulk form:	68.0
Amount received from off site:	—	Amount fired in biosolids incinerator:	—
Amount treated on site (including blending):		Amount sent to municipal solid waste landfill:	—
Amount of bulk biosolids shipped off site for *treatment or for sale/give-away in a bag or other* container for application to the land:	—	Amount sold or given away in a bag or other *container for application to the land:*	—
Amount used or disposed by another practice:	—	Describe:	

9. RESIDUALS STORAGE

Enter the volume of residual storage capacity at this facility. 0.568 ☒ million gallons **or** ☐ cubic feet

10. BIOSOLIDS CHARACTERISTICS

Report one year biosolids monitoring data, and in no case less than three sampling events for the following Part 24 Rules required parameters. Provide the actual analytical data sheets as an attachment. All sampling shall be representative of the biosolids being proposed to be applied to the land. Analytical methods shall be in accordance with R 323.2406 (2) Methods for Biosolids. See Appendix C. Data that is available for parameters not specifically listed on this page shall be provided on the adjoining page.

Parameter	Average Concentration	Maximum Concentration	Units	Number of Analyses	Sample Type	Analytical Method	Method Detection Level (As Received)
Total Solids	7.5	11.6	%	3	☒ Grab ☐ Composite	160.3	.01
Total Arsenic	1.35	2.52	Mg/kg	3	☒ Grab ☐ Composite	7740	.005
Total Cadmium	2.88	3.24	Mg/kg	3	☒ Grab ☐ Composite	200.7 / 6010A	.020
Total Copper	758	1000	Mg/kg	3	☒ Grab ☐ Composite	200.7 / 6010A	.020
Total Lead	340	380	Mg/kg	3	☒ Grab ☐ Composite	200.7 / 6010A	0.150
Total Mercury	3.11	5.27	Mg/kg	3	☒ Grab ☐ Composite	7470	.02
Total Molybdenum	7.76	12.7	Mg/kg	3	☒ Grab ☐ Composite	200.7 / 6010A	0.1
Total Nickel	16.23	27.0	Mg/kg	3	☒ Grab ☐ Composite	200.7 / 6010A	0.1
Total Selenium	.150	.266	Mg/kg	3	☒ Grab ☐ Composite	7740	.005
Total Zinc	1230	1390	Mg/kg	3	☒ Grab ☐ Composite	200.7 / 6010A	.01
Total Kjeldahl Nitrogen	28608	31223	Mg/kg	3	☒ Grab ☑ Composite	351.4	0.1
Ammonium Nitrogen	11243	14628	Mg/kg	3	☒ Grab ☐ Composite	350.3	1.0
Total Phosphorus	35,885	43,300	Mg/kg	3	☒ Grab ☐ Composite	365.3	5.0
Total Potassium	1028	1668	Mg/kg	3	☒ Grab ☐ Composite	200.7 / 6010A	5.0

Apply Biosolids once per year
Averaged last 3 years Analysis.

Michigan Department of Environmental Quality- Surface Water Quality Division

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION II - Sanitary Wastewater

D. Industrial Pretreatment Program Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT or COC NUMBER
OTSEGO WWTP	MI 0023744

7 INDUSTRIAL AND COMMERCIAL SOURCES

A Does this facility receive any nondomestic wastewater from any industrial or commercial facilities? (Nondomestic wastewater refers to water-carried wastes other than human and household wastes)

☐ No, - Continue with Item 9

☒ Yes, - Continue with B below

B Is an Industrial Pretreatment Program (IPP) currently required by the DEQ? If you are unsure if the facility is required to submit an IPP contact the appropriate district office (see pages 2 and 3 of the appendix)

☐ No, - Continue with Item 9

☒ Yes, - Which program ?

☒ Michigan Industrial Pretreatment Program?

☐ Federal Industrial Pretreatment Program? Submit a written technical evaluation with this application on the need to revise local limits

The technical evaluation is a determination of whether the POTW's current local limits need to be revised Changes to the local limits would be made only when the evaluation indicates it is necessary, or when otherwise required by applicable provisions of the NPDES permit The technical evaluation also requires a determination of the Maximum Allowable Headworks Loading (MAHL) for the following

- Pollutants that are subject to limits or monitoring requirements in the current permit
- The following inorganic priority pollutants Arsenic, Cadmium, Chromium, Copper, Cyanide, Lead, Mercury, Nickel, Silver and Zinc
- All pollutants for which there are local limits contained in an approved IPP
- All other pollutants of concern which would be reasonably expected to be discharged or transported by truck or rail or otherwise introduced to the POTW in quantities which could pass through, cause interference, or jeopardize health or safety
- Any new pollutant proposed to be discharged or transported by truck or rail or otherwise introduced to the POTW prior to "acceptance"

C Provide the following information

1) Estimate the average volume of non-sanitary wastewater received by this facility 40,000 gallons/day

2) Describe the type of nondomestic wastewater(s) received by this facility in the space provided below Include industrial process wastewaters, contact cooling waters, noncontact cooling waters, Resource Conservation and Recovery Act (RCRA) or Comprehensive Environmental Response and Liability Act (CERCLA) wastes received, or other wastes received from remediation or clean-up efforts If additional space is necessary, provide the information as an attachment to this application on 8 1/2" x 11" paper

Process wastewater & non-contact cooling water from 3 separate divisions of Parker Hanifin Corporation

3) Describe what is known about the quality of the nondomestic wastewater in the space provided below (include sampling results if available) This information may also be provided as an attachment to this application on 8 1/2" x 11" paper

Quality of non-domestic wastewater is in line with local limits & pretreatment standards.

Michigan Department of Environmental Quality- Surface Water Quality Division

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION II - Sanitary Wastewater

E. Biosolids Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT NUMBER
OTSEGO WWTP	MI 0023744

11. POLLUTANTS OF CONCERN

Is there currently or is there potential for pollutants (other than parameters listed on the previous page) to be present in the biosolids at concentrations that would make them unsuitable for land application?

☐ Yes - Describe the circumstances below and provide representative analytical data for those Pollutants of Concern in Item 3.

☒ No - Continue with Item 12.

12. ADDITIONAL BIOSOLIDS MONITORING DATA

Report any biosolids monitoring data from the last permit cycle for parameters not specifically listed on the previous page. Include the actual analytical data sheets as an attachment. *Upon submittal review, additional monitoring may be required if SWQD has reason(s) to suspect that* the information provided (or not provided) does not adequately characterize the residuals proposed to be land applied. For assistance on completing this section or determining the necessity for completing this section, you may contact the appropriate DEQ Surface Water Quality Division (SWQD) Office (see pages 2 and 3 of the Appendix).

Parameter	Average ~~Monthly~~ Concentration	Maximum Concentration	Units	Number of Analyses	Sample Type	Analytical Method	Method Detection Level
Barium	559	660	mg/kg	3	☒ Grab ☐ Composite	6010A	.01
Chloride	3520	5319	mg/kg	3	☒ Grab ☐ Composite	SM4110B	1.0
Calcium	29404	32713	mg/kg	3	☒ Grab ☐ Composite	200.7 / 6010A	.02
Nitrogen Nitrate as N	69	184	mg/kg	3	☒ Grab ☐ Composite	9056	1.0
Sulfate	42	43	mg/kg	2	☒ Grab ☐ Composite	9056	1.0
Sodium	2396	3617	mg/kg	3	☒ Grab ☐ Composite	200.7 / 6010A	.01
Silver	9.9	12.8	mg/kg	3	☒ Grab ☐ Composite	200.7 / 6010A	.03
Magnesium	3696	4069	mg/kg	3	☒ Grab ☐ Composite	200.7 / 6010A	.05
Chromium	139	195	mg/kg	3	☒ Grab ☐ Composite	200.7 / 6010A	.04
Total Volatile Solids	49.5	54.9	%	3	☒ Grab ☐ Composite	160.4	1.0
Density	8.59	8.77	lbs/gal	3	☒ Grab ☐ Composite	SM2710F	1.0
pH	7.2	7.34	S.U	3	☒ Grab ☐ Composite	150.1	1.0
					☐ Grab ☐ Composite		
					☐ Grab ☐ Composite		
					☐ Grab ☐ Composite		
					☐ Grab ☐ Composite		

Michigan Department of Environmental Quality- Surface Water Quality Division

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION II - Sanitary Wastewater

E. Biosolids Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT NUMBER
City of Otsego WWTP	MI 0023744

13. Land Application Site List

Provide the following information for every new or existing site that you intend to use in the next five years (biosolids permit cycle). Each listed site should either have had a Site Identification Form with attachments submitted to the MDEQ since January 1, 1998, or that information should be included with this form. Additional sites may be added to the Land Application Site List during the biosolids permit cycle by submitting a completed Site Identification Form with the appropriate attachments and waiting the required ten day notification period. Use additional pages as necessary.

Site Identification Number	Latitude (dd,mm,ss)	Longitude (dd,mm,ss)	Acres	Owners Last Name	New Site? (check if yes)	CPLR* Site? (check if yes)
01N 13W27-JK01			80	Kempker	☐	☐
02N 12W03-GT01			40	Timmer	☐	☐
					☐	☐
					☐	☐
					☐	☐
					☐	☐
					☐	☐
					☐	☐
					☐	☐
					☐	☐
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					☐	☐
					☐	☐
					☐	☐

* see definitions

ALTERNATE POWER SOURCE MODIFICATIONS
for CITY OF OTSEGO WASTEWATER PLANT

During 1999 in an effort to better prepare for possible Y2K problems or any other power failure events the City of Otsego revamped their emergency operations capabilities. The following equipment was purchased and or installed :

1. One Portable Diesel Generator 150KW equipped with a 200KW rated Alternator. This generator set was purchased jointly by the Water and Sewer Departments to be used at either the wellfield or at sewer lift stations (North St or Washington St.). A receptacle was installed at the WWTP to accomodate this generator set in the event the permanent mounted generator at the plant failed.

2, One 10 KW Military Surplus Diesel Generator which the city mounted on a trailer for portability. This generator is dedicated to the newest lift station located at Barton St.

3. A 400 Amp Automatic Transfer Switch at the WWTP which replaced a smaller switch . The plant can now operate more equipment during a power failure , essentially all processes, whereas before only certain necessary equipment operated off the emergency panel.

As you can see these modifications have greatly improved the City of Otsego's ability to provide alternate power during power failures and emergency conditions.

Delivery Group 1999 0001777
Customer Name Synagro Technologies
Address 323 Martindale Street

Sparta, MI 49345

Project Name Otsego WWTP

Project # 990300L 7/12/99
Contact Name Mr Don Popma
323 Martindale Street

Sparta, MI 49345

Sampled By Client

Prein&Newhof
Engineers • Surveyors • Environmental & Soils Laboratory
3260 Evergreen NE Grand Rapids MI 49525 Telephone 616-364-7600 Fax 616-364-4222 lab@preinnewhof.com

Lab Log #: 1999 0001777-1 **Client Sample ID:** Sludge Storage Tank Sample Received 6/30/99 Sample Date 6/28/99

Parameter	Units	As Received	Dry Wt Basis	Analyst	Method #	Analysis Date	TABLE 3 LIMITS	As Rcvd MDL
Prep Mercury				BYLSMA		7/ 1/99		
Prep Metals Digestion				BYLSMA		7/ 1/99		
Prep TKN Digestion/Distillation				AXDORFF		7/ 2/99		
Density	lb/gal	8 77		SIMONS	SM2710F	7/ 9/99		1 00
Mercury	mg/kg	0 380	5.27	BYLSMA	7470	7/ 2/99	17	0 020
Nitrogen, Ammonia as N	mg/kg	760	10000	AXDORFF	350 3	7/ 1/99		1 0
Nitrogen, Total	mg/kg	2210	30600	HOCH	Calculation	7/ 6/99		1 00
Nitrogen, Total Available	lb/ton	1 28	17.8	HOCH	Calculation	7/ 6/99		0 100
Nitrogen, Total Kjeldahl	mg/kg	2200	31000	AXDORFF	351 4	7/ 2/99		0 1
pH	S U	7 15		SIMONS	150 1	6/30/99		1 00
Phosphate, Total as P	mg/kg	3120	43300	SIMONS	365 3	7/ 1/99		5 00
Chloride	mg/kg	238	3300	HOCH	9056	7/ 1/99		1 00
Nitrogen, Nitrate as N	mg/kg	<1 00	<13 9	HOCH	9056	7/ 1/99		1 00
Sulfate	mg/kg	3 00	41 6	HOCH	9056	7/ 1/99		1 00
Barium	mg/kg	40 8	565	BYLSMA	200 7/6010A	7/ 7/99		0 010
Cadmium	mg/kg	0 218	3.02	BYLSMA	200 7/6010A	7/ 7/99	39	0 020
Calcium	mg/kg	2280	31600	BYLSMA	200 7/6010A	7/ 7/99		0 020
Chromium	mg/kg	14 0	195	BYLSMA	200 7/6010A	7/ 7/99	1200	0 040
Copper	mg/kg	72 1	1000	BYLSMA	200 7/6010A	7/ 7/99	1500	0 020
Lead	mg/kg	25 6	355	BYLSMA	200 7/6010A	7/ 7/99	300	0 150
Magnesium	mg/kg	246	3410	BYLSMA	200 7/6010A	7/ 7/99		0 050
Molybdenum	mg/kg	0 336	4 66	BYLSMA	200 7/6010A	7/ 7/99	75	0 100
Nickel	mg/kg	1 95	27 0	BYLSMA	200 7/6010A	7/ 7/99	420	0 100
Potassium	mg/kg	52 8	733	BYLSMA	200 7/6010A	7/ 7/99		5 00
Silver	mg/kg	0 744	10 3	BYLSMA	200 7/6010A	7/ 7/99		0 030
Sodium	mg/kg	164	2270	BYLSMA	200 7/6010A	7/ 7/99		0 100
Zinc	mg/kg	100	1390	BYLSMA	200 7/6010A	7/ 7/99	2800	0 010
Arsenic	mg/kg	0 182	2 52	BYLSMA	7740	7/ 9/99	41	0 005
Selenium	mg/kg	0 006	0 082	BYLSMA	7740	7/ 9/99	36	0 005
Solids, Total (TS)	%	7 21		HOCH	160 3	7/ 1/99		0 010
Solids, Total Volatile (TVS)	%	50 6		SIMONS	160 4	7/ 6/99		1 00

Table 3 "High Quality Pollutant Concentration Limits" (monthly averages)

Robert Erickson, Laboratory Director

Delivery Group 1998:0002538

Customer Name: Michigan Organic Resources
Address: 2675 44th Street SW
Suite 303
Wyoming, MI 49509-4191

Project Name: Biosolids Land Application

Project #: 91122L 9/25/98

Contact Name: Mr. Don Popma
: 2675 44th Street SW
Suite 303
: Wyoming, MI 49509-4191

Sampled By : Client

Lab Log #: 1998:0002538-1 **Client Sample ID:** City of Otsego WWTP--4th Quarter Sample Received: 9/17/98 Sample Date: 9/16/98

Parameter	Units	As Received	Dry Wt. Basis	Analyst	Method #	Analysis Date	TABLE 1 CEILING	As Rcvd MDL
Prep: Mercury				FRITSMA		9/23/98		
Prep: Metals Digestion				FRITSMA		9/17/98		
Prep: TKN Digestion/Distillation				SCHMITT		9/18/98		
Arsenic	mg/kg	0.078	**0.672**	FRITSMA	7060	9/18/98	75	0 005
Barium	mg/kg	52 3	**451**	FRITSMA	6010A	9/18/98		0 010
Chloride	mg/kg	225	**1940**	HOCH	SM4110B	9/21/98		1 00
Density	lb/gal	8 67		SIMONS	SM2710F	9/21/98		1 00
Mercury	mg/kg	0.141	**1.22**	FRITSMA	7470	9/24/98	57	0 020
Nitrogen, Ammonia as N	mg/kg	1100	**9100**	SCHMITT	350.3	9/18/98		1 0
Nitrogen, Nitrate as N	mg/kg	<1.00	**<8.62**	HOCH	9056	9/18/98		1 00
Nitrogen, Total Kjeldahl	mg/kg	2740	**23600**	SCHMITT	351.4	9/18/98		0 100
pH	S.U.	7.10		STALKER	150.1	9/17/98		
Phosphate, Total as P	mg/kg	2910	**25100**	SIMONS	365.3	9/21/98		5 00
Selenium	mg/kg	0 012	**0.103**	FRITSMA	7740	9/18/98	100	0 005
Cadmium	mg/kg	0.275	**2.37**	FRITSMA	200.7/6010A	9/21/98	85	0 020
Calcium	mg/kg	2780	**23900**	FRITSMA	200.7/6010A	9/21/98		0 020
Chromium	mg/kg	11.0	**94.8**	FRITSMA	200.7/6010A	9/21/98	3000	0 040
Copper	mg/kg	68.4	**590**	FRITSMA	200.7/6010A	9/21/98	4300	0 020
Lead	mg/kg	33 1	**285**	FRITSMA	200 7/6010A	9/21/98	840	0 150
Magnesium	mg/kg	303	**2610**	FRITSMA	200.7/6010A	9/21/98		0 050
Molybdenum	mg/kg	0.685	**5.91**	FRITSMA	200 7/6010A	9/21/98	75	0 100
Nickel	mg/kg	1.02	**8.79**	FRITSMA	200.7/6010A	9/21/98	420	0 100
Potassium	mg/kg	79 3	**684**	FRITSMA	200.7/6010A	9/21/98		5 00
Silver	mg/kg	0.777	**6.70**	FRITSMA	200.7/6010A	9/21/98		0 030
Sodium	mg/kg	151	**1300**	FRITSMA	200.7/6010A	9/21/98		0 100
Zinc	mg/kg	107	**922**	FRITSMA	200.7/6010A	9/21/98	7500	0 010
Solids, Total (TS)	%	11.6		SCHMITT	160 3	9/18/98		0 010
Solids, Total Volatile (TVS)	%	5.88	**50.7**	SIMONS	160 4	9/21/98		0 100
Sulfate	mg/kg	5.00	**43.1**	HOCH	9056	9/18/98		1 00

Robert Erickson, Laboratory Director

Prein&Newhof
Engineers ▪ Surveyors ▪ Environmental & Soils Laboratory
3260 Evergreen NE Grand Rapids, MI 49525 Telephone 616-364-7600 Fax 616-364-1922 lab@preinnewhof.com

Prein&Newhof
Engineers ▪ Surveyors ▪ Environmental & Soils Laboratory

Mr. Don Popma
Michigan Organic Resources
2675 44th St SW
Wyoming, MI 49509

Project: City of Otsego WWTP

Sample: 4th Quarter Sludge
Sample Received: 9/5/97
Lab Log #: 6628

Parameter	Units	As Received	Dry Wt Basis	Digestion Date	Analyst	Method #	Analysis Date
pH		7.34			J Hoch	150.1	9/10/97
Density	lb/gal	8.32			J Hoch	SM 2710 F	9/11/97
Solids	%	3.76			K Whitman	2540	9/8/97
Volatile Solids	%	54.9			J Hoch	2540.G	9/9/97
Total Kjeldahl Nitrogen	mg/Kg as N	1,174	31,223		P Schmitt	351.4	9/16/97
Ammonia Nitrogen	mg/Kg as N	550	14,628		P Schmitt	350.3	9/8/97
Nitrate Nitrogen	mg/Kg as N	6.9	184		P Schmitt	601	9/8/97
Total Phosphorous	mg/Kg as P	1,476	39,255		M Stalker	365.3	9/8/97
Chlorides	mg/Kg	200	5,319		M Stalker	SM 4500-CL	9/9/97
Sulfate	mg/Kg	<38	<1,011		M Stalker	SM4500-S04E	9/9/97
Total Potassium	mg/Kg	62.7	1,668		K Whitman	6010	9/9/97
Total Calcium	mg/Kg	1,230	32,713		K Whitman	6010	9/9/97
Total Magnesium	mg/Kg	153	4,069		K Whitman	6010	9/9/97
Total Sodium	mg/Kg	136	3,617		K Whitman	6010	9/9/97
Total Arsenic	mg/Kg	0.032	0.851	9/8/97	K Whitman	7060	9/9/97
Total Barium	mg/Kg	24.8	660	9/8/97	K Whitman	6010	9/10/97
Total Cadmium	mg/Kg	0.122	3.24	9/8/97	K Whitman	6010	9/10/97
Total Chromium	mg/Kg	4.76	127	9/8/97	K Whitman	6010	9/10/97
Total Copper	mg/Kg	25.7	684	9/8/97	K Whitman	6010	9/10/97
Total Lead	mg/Kg	14.3	380	9/8/97	K Whitman	6010	9/10/97
Total Mercury	mg/Kg	0.107	2.85	9/10/97	K Whitman	7470	9/11/97
Total Molybdenum	mg/Kg	0.476	12.7	9/8/97	K Whitman	6010	9/10/97
Total Nickel	mg/Kg	0.486	12.9	9/8/97	K Whitman	6010	9/10/97
Total Selenium	mg/Kg	0.010	0.266	9/8/97	K Whitman	7740	9/11/97
Total Silver	mg/Kg	0.482	12.8	9/8/97	K Whitman	6010	9/10/97
Total Zinc	mg/Kg	37.6	1,000	9/8/97	K Whitman	6010	9/10/97

PREIN & NEWHOF
Environmental Laboratory

Robert Erickson
Laboratory Director

91122L
9/18/97

3260 Evergreen Drive, NE Grand Rapids, MI 49505 Telephone 616-364-7600 Fax 616-364-4222

Michigan Department of Environmental Quality- Surface Water Quality Division

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION II - Sanitary Wastewater

F.Signature Page

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT or COC NUMBER
OTSEGO WWTP	MI0023744

14 CERTIFICATION

Rule 323 2114(1-4) of the Part 21 Rules of Michigan Act 451, Public Act of 1994, Part 31, as amended, requires that this application be signed as follows

A For a municipal, state, or other public facility, by a principal executive officer or ranking elected official (such as the mayor village president, city or village manager or clerk)

B For an organization, company, corporation or authority by a principal executive officer

C For a partnership, by a general partner

D For a sole proprietor, by the proprietor

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining information, I believe that the information is true, accurate and complete I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment "

Print Name THAD BEARD Title CITY MANAGER

Representing CITY OF OTSEGO

Signature Date MARCH 30, 2000

If the application is for a privately owned treatment system serving a mobile home park, campground, apartment complex, condominium, nursing home, prison, or other facility for treatment of domestic wastewater from two or more residences, a principal executive officer or a ranking elected official from the local unit of government shall sign the permit application in the space provided The signature is only a certification that the local unit of government is aware of its responsibilities as set forth in Section 3109(2) of Michigan Act 451, P A of 1994, as amended The refusal of the local unit of government to sign the application does not reduce its liability under the statute

"This is to certify that I am aware of and recognize the responsibilities of the municipality as set forth in Section 3109(2) of Michigan Act 451 of 1994, as amended "

Print Name _____ Title _____

Representing _____

Signature _____ Date _____

This completes Section II. Section II must be completed for all applicants requesting authorization to; discharge sanitary wastewater(s) to a surface water of the State or; to land apply biosolids in the state. When Section I and II are complete, please return application to the appropriate district office (see pages 2 and 3 of the appendix for district office addresses and a map of district boundaries).

If assistance is needed in determining the appropriate sections to complete, or if assistance is needed completing this application, contact the appropriate district office.

STATE OF MICHIGAN

JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

RUSSELL J. HARDING, Director

REPLY TO:

SURFACE WATER QUALITY DIVISION
KNAPPS CENTRE
PO BOX 30273
LANSING MI 48909-7773

July 31, 1996

CERTIFIED MAIL -- P 381 768 775

Ms. Paula Baker, Clerk
City of Otsego
117 East Orleans Street
Otsego, Michigan 49078-1199

Dear Ms. Baker:

SUBJECT: NPDES Permit No. MI0023744 -- Otsego WWTP, 210 North Grant Street, Otsego

Your National Pollutant Discharge Elimination System (NPDES) Permit has been processed in accordance with appropriate state and federal regulations. It contains the requirements necessary for you to comply with state and federal water pollution control laws.

REVIEW THE PERMIT EFFLUENT LIMITS AND COMPLIANCE SCHEDULES CAREFULLY. These are subject to the criminal and civil enforcement provisions of both state and federal law. Permit violations are audited by the Michigan Department of Environmental Quality and the United States Environmental Protection Agency and may appear in a published quarterly noncompliance report made available to agencies and the public.

Your monitoring and reporting responsibilities must be complied with in accordance with this permit. If applicable, Discharge Monitoring Report forms will be transmitted to you in the near future. These reports are to be submitted monthly or otherwise as required by your NPDES permit.

Any reports, notifications, or questions regarding the attached permit or NPDES program should be directed to the following address:

Mr. Fred Morley, District Supervisor
Plainwell District Office, SWQD, DEQ
621 North 10th Street
P.O. Box 355
Plainwell, Michigan 49080
Telephone: 616-685-9886

Sincerely,

William E. McCracken

William E. McCracken, P.E.
Chief, Permits Section
Surface Water Quality Division
517-373-8088

Enclosure: Permit
cc: EPA-Region 5
208 Agency - West Michigan Regional Planning Commission
Wastewater Treatment Facility Superintendent
Mr. Fred Morley, Plainwell District Supervisor, SWQD (2)
Data Entry, SWQD
Point Source Studies (Grand Rapids District Office), SWQD
Industrial Pretreatment Program Unit, SWQD
Files

PERMIT NO. MI0023744

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Federal Act"), Michigan Act 451, Public Acts of 1994, as amended (the "Michigan Act"), Parts 31 and 41, and Michigan Executive Orders 1991-31, 1995-4 and 1995-18,

City of Otsego
117 East Orleans Street
Otsego, Michigan 49078

is authorized to discharge from a facility located at

210 North Grant Street
Otsego, Michigan 49078

designated as Otsego WWTP

to the receiving water named the Kalamazoo River in accordance with effluent limitations, monitoring requirements and other conditions set forth in this permit.

This permit takes effect on August 1, 1996. Any person who is aggrieved by this permit may file a sworn petition with the Office of Administrative Hearings of the Michigan Department of Environmental Quality, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Department may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case, the Department shall review the permit to determine which contested conditions shall be stayed until the Department takes its final action. If a condition contested by the applicant is a requirement placed on wastewater covered by a new or increased discharge authorization, such increased discharge authorization shall be stayed until the Department takes final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Department determines the contested condition shall be stayed, then such previous condition remains in effect until the Department takes final action.

This permit and the authorization to discharge shall expire at midnight, October 1, 2000. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit an application which contains such information and forms as are required by the Michigan Department of Environmental Quality to the Plainwell District Supervisor of the Surface Water Quality Division by April 1, 2000.

This permit is based on an application submitted on April 3, 1995. The provisions of this permit are severable. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term in accordance with applicable laws and rules. On its effective date this permit shall supersede NPDES Permit No. MI0023744, expiring October 1, 1995.

Issued July 10, 1996.

William E. McCracken
Chief, Permits Section
Surface Water Quality Division

PART I

Section A. Limitations and Monitoring Requirements

1. Final Effluent Limitations, Outfall 001

a. Discharge Authorization and Limitations

During the period beginning on the effective date of this permit and lasting until permit expiration, the permittee is authorized to discharge treated municipal wastewaters from the City of Otsego wastewater treatment plant through outfall 001 to the Kalamazoo River. Such discharges shall be limited and monitored by the permittee as follows:

	Quantity or Loading				Quality or Concentration					
Parameter	Monthly Average	7-Day Average	Daily Maximum	Units	Monthly Average	7-Day Average	Daily Maximum	Units	Frequency of Analysis	Sample Type
Flow	(report)	—	(report)	MGD	—	—	—	—	Daily	Report Total Daily Flow
Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)										
Effective: 5/1 - 9/30	156	250	—	lbs/day	25	40	—	mg/l	5 X Weekly	24-Hr Composite
Effective: 10/1 - 4/30	250	375	—	lbs/day	40	60	—	mg/l	5 X Weekly	24-Hr Composite
Total Suspended Solids										
Effective: 5/1 - 9/30	188	281	—	lbs/day	30	45	—	mg/l	5 X Weekly	24-Hr Composite
Effective: 10/1 - 4/30	250	313	—	lbs/day	40	50	—	mg/l	5 X Weekly	24-Hr Composite
Total Phosphorus (as P)	6.3	—	—	lbs/day	1	—	—	mg/l	5 X Weekly	24-Hr Composite
Ammonia Nitrogen (as N)	(report)	—	(report)	lbs/day	(report)	—	(report)	mg/l	Weekly	24-Hr Composite
Total Residual Chlorine	—	—	—	—	—	—	0.036	mg/l	Daily	24-Hr Composite
Fecal Coliform Bacteria	—	—	—	—	200	400	—	cts/100 ml	5 X Weekly	Grab
Total Copper	—	—	(report)	lbs/day	—	—	(report)	µg/l	Quarterly[1]	24-Hr Composite
					Daily Minimum		Daily Maximum			
pH					6.5		9.0	S.U.	Daily	Grab
Dissolved Oxygen					3.0		—	mg/l	Daily	Grab
Acute Whole Effluent Toxicity										
Until: January 31, 1999 (see item h. below)					—		(report)	TU_A	4 X Annually[2]	24-Hr Composite
Begin: February 1, 1999 (see item i. below)					—		1	TU_A	Monthly	24-Hr Composite

[1] Quarterly monitoring shall be conducted during the months of January, April, July and October.

[2] Monitoring shall be conducted between April 1 and October 31. These four (4) monitoring events shall be conducted, at a minimum, thirty (30) days apart.

PART I

Section A. Limitations and Monitoring Requirements

b. Wastewater Treatment Plant Design Flow
The following design flow was used in determining the above limitations, but is not to be considered a limitation or actual capacity itself: 0.75 MGD.

c. Sampling Type and Location
1) The sampling for $CBOD_5$, Total Suspended Solids, Ammonia Nitrogen and Total Phosphorus shall be 24-hour composites taken prior to disinfection. The sampling for Dissolved Oxygen, Fecal Coliform Bacteria, Total Residual Chlorine and pH shall be grab samples taken of the effluent. The Plainwell District Supervisor of the Surface Water Quality Division may approve alternate sampling locations which are demonstrated by the permittee to be representative of the effluent.

2) Compliance with the Total Residual Chlorine limit shall be determined on the basis of one or more grab samples. If more than one (1) sample per day is taken, the additional samples shall be collected in near equal intervals over at least eight (8) hours. The samples shall be analyzed immediately upon collection and the average reported as the daily maximum. The level of detection shall be determined for the analytical method used by following the procedures prescribed in 40 CFR 136 Appendix B. The reported level of detection shall not exceed 0.036 mg/l unless a higher level is appropriate because of sample matrix interference.

d. Acute Toxicity Testing and Reporting
Testing and reporting procedures shall follow procedures contained in EPA/600/4-90/027F, "Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms".

e. Reduction in Monitoring Frequency for Acute Toxicity Testing
The permitee may submit a written request to the Plainwell District Supervisor of the Surface Water Quality Division to reduce the monitoring frequency of the acute toxicity testing. Upon receipt of written approval from the Plainwell District Supervisor and consistent with such approval, the permittee may reduce the monitoring frequency.

f. Percent Removal Requirements (Effective: May 1-September 30)
In addition to the $CBOD_5$ and Total Suspended Solids limitations above, the 30-day average effluent $CBOD_5$ and Total Suspended Solids concentrations shall not exceed 15 percent of the average influent concentrations for approximately the same period.

g. Percent Removal Requirements (Effective: October 1-April 30)
In addition to the $CBOD_5$ and Total Suspended Solids limitations above, the 30-day average effluent $CBOD_5$ and Total Suspended Solids concentrations shall not exceed 25 percent of the average influent concentrations for approximately the same period.

h. Acute Toxicity Interim Requirements (Until: January 31, 1999)
1) The permittee shall implement the Toxicity Identification/Reduction Evaluation (TI/RE) approved on February 13, 1996, and modifications thereto, which upon approval are incorporated as enforceable requirements of this permit. The objective of the TI/RE shall be to reduce the toxicity of the final effluent from outfall 001 to $\leq$1.0 TU_A (Acute Toxicity Unit) by January 31, 1999. The following documents are available as guidance to reduce toxicity to acceptable levels: Phase I, EPA/600/6-91/003; Phase II, EPA/600/R-92/080; and Phase III, EPA/600/R-92/081.

2) The Plainwell District Supervisor of the Surface Water Quality Division may require modifications to the approved Toxicity Identification/Reduction Evaluation (TI/RE) which are necessary to achieve compliance with the requirements of Rule 82 (Rule 323.1082 of the Michigan Administrative Code).

PART I

Section A. Limitations and Monitoring Requirements

3) On or before April 1 of each year, the permittee shall submit an annual report on the status of the Toxicity Identification/Reduction Evaluation (TI/RE) implementation. The reporting period shall begin on January 1 and end on December 31.

i. Acute Toxicity Final Requirements (Begin: February 1, 1999)
When any one (1) monitoring event shows an exceedance of the 1.0 TU_A limit for effluent toxicity, the permittee shall increase the frequency of toxicity testing to twice monthly for a period of two (2) months. The results of these tests shall be submitted to the Plainwell District Supervisor of the Surface Water Quality Division within 14 days of the completion of the final test. Any exceedances of the 1.0 TU_A limit shall be considered to be enforceable violations of the permit.

PART I

Section B. Schedule of Compliance

This section (Section B: Schedule of Compliance) is not needed for this permit.

PART I

Section C. Industrial Waste Pretreatment Program

1. Michigan Industrial Pretreatment Program

a. The permittee shall implement the Michigan Industrial Pretreatment Program approved on September 27, 1985, and modifications thereto, which upon approval are incorporated as enforceable requirements of this permit.

b. The permittee shall comply with Rules 323.2301 through 323.2317 of the Michigan Administrative Code (Part 23 Rules) and the approved Michigan Industrial Pretreatment Program.

c. The permittee shall have the legal authority and necessary interjurisdictional agreements that provide the basis for the implementation and enforcement of the approved Michigan Industrial Pretreatment Program throughout the service area. The legal authority and necessary interjurisdictional agreements shall include, at a minimum, the authority to carry out the activities specified in Rule 323.2306(a).

d. The permittee shall develop procedures which describe, in sufficient detail, program commitments which enable implementation of the approved Michigan Industrial Pretreatment Program and the Part 23 Rules in accordance with Rule 323.2306(c).

e. The permittee shall establish an interjurisdictional agreement (or comparable document) with all tributary governmental jurisdictions. Each interjurisdictional agreement shall contain, at a minimum, the following:

1) identification of the agency responsible for the implementation and enforcement of the approved Michigan Industrial Pretreatment Program within the tributary governmental jurisdiction's boundaries; and

2) the provision of the legal authority which provides the basis for the implementation and enforcement of the approved Michigan Industrial Pretreatment Program within the tributary governmental jurisdiction's boundaries.

f. The permittee shall prohibit discharges that:

1) cause, in whole or in part, the permittee's failure to comply with any condition of this permit or the Michigan Act;

2) restrict, in whole or in part, the permittee's approved Program for Effective Residuals Management (PERM);

3) cause, in whole or in part, operational problems at the treatment facility or in its collection system;

4) violate any of the general or specific prohibitions identified in Rule 323.2303(1) and (2);

5) violate categorical standards identified in Rule 323.2311; and

6) violate local limits established in accordance with Rule 323.2303(4).

g. The permittee shall maintain a list of its nondomestic users that meet the criteria of a significant industrial user as identified in Rule 323.2302(cc).

h. The permittee shall develop an enforcement response plan which describes, in sufficient detail, program commitments which will enable the enforcement of the approved Michigan Industrial Pretreatment Program and the Part 23 Rules in accordance with Rule 323.2306(g).

PART I

Section C. Industrial Waste Pretreatment Program

i. The Plainwell District Supervisor of the Surface Water Quality Division may require modifications to the approved Michigan Industrial Pretreatment Program which are necessary to ensure compliance with the Part 23 Rules in accordance with Rule 323.2309.

j. The permittee shall not implement changes or modifications to the approved Michigan Industrial Pretreatment Program without notification to the Plainwell District Supervisor of the Surface Water Quality Division.

k. The permittee shall maintain an adequate revenue structure and staffing level for effective implementation of the approved Michigan Industrial Pretreatment Program.

l. The permittee shall develop and maintain, for a minimum of three (3) years, all records and information necessary to determine nondomestic user compliance with the Part 23 Rules and the approved Michigan Industrial Pretreatment Program. This period of retention shall be extended during the course of any unresolved enforcement action or litigation regarding a nondomestic user or when requested by the Department or the United States Environmental Protection Agency. All of the aforementioned records and information shall be made available upon request for inspection and copying by the Department and the United States Environmental Protection Agency.

m. The permittee shall evaluate the approved Michigan Industrial Pretreatment Program for compliance with the Part 23 Rules and the prohibitions stated in item f (above). Based upon this evaluation, the permittee shall propose to the Plainwell District Supervisor of the Surface Water Quality Division all necessary changes or modifications to the approved Michigan Industrial Pretreatment Program no later than the next Industrial Pretreatment Program Annual Report due date (see item o below).

n. The permittee shall develop and enforce local limits to implement the prohibitions listed in item f above. Local limits shall be based upon data representative of actual conditions demonstrated in a maximum allowable headworks loading analysis.

o. On or before April 1 of each year, the permittee shall submit, as required by Rule 323.2310(8) an Industrial Pretreatment Program Annual Report on the status of program implementation and enforcement activities. The reporting period shall begin on January 1 and end on December 31. The Industrial Pretreatment Program Annual Report shall be submitted to the Plainwell District Supervisor of the Surface Water Quality Division and may be submitted on forms provided by the Department. At a minimum, the Industrial Pretreatment Program Annual Report shall contain the following items:

1) additions, deletions, and any other modifications to the permittee's previously submitted nondomestic user inventory (Rule 323.2306(c)(i));

2) additions, deletions, and any other modifications to the permittee's approved significant industrial user List (Rule 323.2306(h));

3) a listing of the names of significant industrial users not inspected by the permittee at least once during the reporting period or at the frequency committed to in the approved Michigan Industrial Pretreatment Program;

4) a listing of the names of significant industrial users not sampled for all required pollutants by the permittee at least once during the reporting period or at the frequency committed to in the approved Michigan Industrial Pretreatment Program;

5) a listing of the names of significant industrial users without a permit at any time during the reporting period;

6) a listing of the names of categorical industrial users in significant noncompliance for each of the criteria defined in Rule 323.2302(dd)(i)-(viii);

PART I

Section C. Industrial Waste Pretreatment Program

7) proof of publication of all categorical industrial users in significant noncompliance in the largest daily newspaper in the municipality in which the permittee is located;

8) a summary of the enforcement activities by the permittee during the report period. This summary shall include:

a) a listing of the names of nondomestic users which were the subject of an enforcement action;

b) the enforcement action taken and the date the action was taken; and

c) whether the nondomestic user returned to compliance by the end of the reporting period (include date nondomestic user returned to compliance).

9) a listing of the names of significant industrial users who did not submit pretreatment reports in accordance with requirements specified in their permit during the reporting period.

10) a listing of the names of significant industrial users who did not self-monitor in accordance with requirements specified in their permit during the reporting period;

11) A summary of results of all the sampling and analyses performed of the wastewater treatment influent, effluent, and sludge conducted in accordance with approved methods during the reporting period; and

12) any other relevant information as requested by the Department.

PART I

Section D. Program for Effective Residuals Management

1. Program For Effective Residuals Management

In addition to the requirements in Part II.D.7. in this permit, the permittee shall provide for the effective management and/or disposal of residuals, i.e., solids, sludges, ash, grit and other substances removed from or resulting from treatment of the wastewater. Residuals disposal shall be accomplished in such manner and at such locations that the disposal practices shall not result in unlawful pollution of the air, surface waters or groundwaters of the state nor create nuisance conditions. Such management and/or disposal program shall be set forth in a "Program for Effective Residuals Management" prepared by the permittee.

The program shall include:

a. a management plan (treatment, transportation, storage, disposal, contingency plans);

b. an inventory of residuals production, storage, and disposal for a period of at least one (1) year;

c. an analysis of the residuals;

d. a monitoring program;

e. if land application is proposed, include site maps, soil analyses, application rates, proposed vegetation and other pertinent information; and

f. if groundwater degradation potential exists, include a hydrogeologic study.

A program has previously been submitted to and approved by the Plainwell District Supervisor of the Surface Water Quality Division. The permittee shall certify that current and future residuals management practices are in accordance with the approved program or the permittee shall submit proposed modifications to the approved program. The program certification or proposed modifications shall be submitted to and approved by the Plainwell District Supervisor on or before January 1, 1997.

Disposal of residuals resulting from the treatment of wastewater shall be in accordance with the previously approved program until proposed modifications are approved. If at any time the permittee desires to make any substantial changes in the approved program, the proposed changes shall be submitted to and approved by the Plainwell District Supervisor prior to implementation. Substantial changes shall include, but not be limited to: a change in disposal method or site; a change in treatment method; a change in storage method or site; a change in monitoring parameters or monitoring frequency; an increase in application rate; or a change in residuals quantity or characteristics. Any residual disposal inconsistent with the approved program shall be considered a violation of this permit.

PART II

Section A. Definitions

This list of definitions may include terms not applicable to this permit.

Acute toxic unit is 100 divided by the LC50 or 100 divided by the EC50 (with the LC50 or EC50 expressed as a percentage).

Chronic toxic unit is 100 divided by the MATC (with the MATC expressed as a percentage).

Daily maximum 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 detection limit, regard that value as zero when calculating the daily maximum concentration.

Daily maximum load is the total discharge by weight of a parameter discharged during any calendar day.

Daily minimum concentration is the minimum concentration of a parameter in any individual sample taken during any calendar day.

Division of Health Facility Services -- Health Facility Evaluation Section, Michigan Department of Consumer and Industry Services mailing address is P.O. Box 30195, Lansing, Michigan 48909.

Drinking Water and Radiological Protection Division -- Environmental Health, Michigan Department of Environmental Quality mailing address is P.O. Box 30630, Lansing, Michigan 48909-8130.

EC50 (median effect concentration) is the concentration of the effluent predicted by the acute toxicity test results to produce an adverse effect in 50% of the test organism population in a given time interval.

Fecal coliform bacteria monthly (30-day) average is the geometric mean of the samples collected in a calendar month.

Fecal coliform bacteria 7-day average is the geometric mean of the samples collected in any 7-day period.

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

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

Interference is a discharge which, alone or in conjunction with a discharge or discharges from other sources, both: 1) inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and 2) therefore, is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or, of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent state or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including state regulations contained in any state sludge management plan prepared pursuant to Subtitle D of the SWDA), the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act. [This definition does not apply to sample matrix interference.]

LC50 (median lethal concentration) is the concentration of the effluent predicted by the acute toxicity test results to kill 50% of the test organism population in a given time interval.

MATC is the maximum acceptable toxicant concentration obtained by calculating the geometric mean of the lower and upper chronic limits from a chronic toxicity test.

Monthly (30-day) average concentration is the sum of the concentrations of the individual samples divided by the number of samples taken during a reporting month. If the parameter concentration in any sample is less than the detection limit, regard that value as zero when calculating monthly average concentration.

PART II

Section A. Definitions

Monthly (30-day) average load is the sum of the daily maximum loads of a parameter divided by the number of daily maximum loads in the reporting month. If the parameter concentration in any sample is less than the detection limit, regard that value as zero when calculating monthly average load.

National Pretreatment Standards are the regulations promulgated by or to be promulgated by the Federal Environmental Protection Agency pursuant to Section 307(b) and (c) of the Federal Act. The standards establish nationwide limits for specific industrial categories for discharge to a POTW.

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.

Nondomestic user is any discharger to a POTW that discharges wastes other than or in addition to water-carried wastes from toilet, kitchen, laundry, bathing or other facilities used for household purposes.

Plainwell District Supervisor of the Surface Water Quality Division is located at the Plainwell District Office, 621 North 10th Street, P.O. Box 355, Plainwell, Michigan 49080, telephone: 616-685-9886 (fax: 616-685-1342).

Pretreatment is reducing the amount of pollutants, eliminating pollutants, or altering the nature of pollutant properties to a less harmful state prior to discharge into a public sewer. The reduction or alteration can be by physical, chemical, or biological processes, process changes, or by other means. Dilution is not considered pretreatment unless expressly authorized by an applicable National Pretreatment Standard for a particular industrial category.

POTW is a publicly owned treatment works.

Regional Administrator is the Region V Administrator, U.S. EPA, located at R-16J, 77 W. Jackson Blvd., Chicago, Illinois 60604.

7-day average concentration is the sum of the concentrations of the individual samples divided by the number of samples taken during any 7 consecutive days in a calendar month. If the parameter concentration in any sample is less than the detection limit, regard that value as zero when calculating the 7-day average concentration.

7-day average load is the sum of the weights of parameters discharged divided by the number of samples taken during any 7 consecutive days in a calendar month. If the parameter concentration in any sample is less than the detection limit, regard that value as zero when calculating the 7-day average load.

Significant industrial user is a nondomestic user that: 1) is subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N; or 2) discharges an average of 25,000 gallons per day or more of process wastewater to a POTW (excluding sanitary, noncontact cooling and boiler blowdown wastewater); contributes a process wastestream which makes up five (5) percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or is designated as such by the permittee as defined in 40 CFR 403.12(a) on the basis that the industrial user has a reasonable potential for adversely affecting the POTW's treatment plant operation or violating any pretreatment standard or requirement (in accordance with 40 CFR 403.8(f)(6)).

3-Portion Composite sample is a sample consisting of three equal volume grab samples collected at equal intervals over an 8 hour period.

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.

PART II

Section B. Monitoring Procedures

1. Representative Samples

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

2. Test Procedures

Test procedures for the analysis of pollutants shall conform to regulations promulgated pursuant to Section 304(h) of the Federal Act (40 CFR Part 136 - Guidelines Establishing Test Procedures for the Analysis of Pollutants). For parameters not specified in the permit or covered by the regulations, test procedures shall be submitted for approval to the Plainwell District Supervisor of the Surface Water Quality Division.

The permittee shall periodically calibrate and perform maintenance procedures on all analytical instrumentation at intervals to ensure accuracy of measurements. The calibration and maintenance shall be performed as part of the permittee's laboratory Quality Control/Quality Assurance program.

3. Instrumentation

The permittee shall periodically calibrate and perform maintenance procedures on all monitoring instrumentation at intervals to ensure accuracy of measurements.

4. Recording Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information: 1) the exact place, date, and time of measurement or sampling; 2) the person(s) who performed the measurement or sample collection; 3) the dates the analyses were performed; 4) the person(s) who performed the analyses; 5) the analytical techniques or methods used; 6) the date of and person responsible for equipment calibration; and 7) the results of all required analyses.

5. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, or longer if requested by the Regional Administrator or the Michigan Department of Environmental Quality.

PART II

Section C. Reporting Requirements

1. Start-up Notification

If the permittee will not discharge during the first 60 days following the effective date of this permit, the permittee shall notify the Plainwell District Supervisor of the Surface Water Quality Division within 14 days, and then 60 days prior to the commencement of the discharge.

2. DMR Submittal Requirements

Unless instructed on the effluent limits page to conduct retained self-monitoring, the permittee shall submit Discharge Monitoring Report (DMR) forms to the PCS Unit, Surface Water Quality Division, Michigan Department of Environmental Quality, P.O. Box 30273, Lansing, Michigan, 48909-7773, for each calendar month of the authorized discharge period(s). The DMRs shall be postmarked no later than the 10th day of the month following each month of the authorized discharge period(s).

3. Retained Self-Monitoring Requirements

If instructed on the effluent limits page to conduct retained self-monitoring, the permittee shall maintain a year-to-date log of retained self-monitoring results and provide such log for inspection to the staff of the Surface Water Quality Division, Michigan Department of Environmental Quality; or for mobile home parks, campgrounds, marinas and schools: Drinking Water and Radiological Protection Division - Environmental Health, Michigan Department of Environmental Quality; or for hospitals, nursing homes and extended care facilities: Division of Health Facility Services -- Health Facility Evaluation Section, Michigan Department of Consumer and Industry Services upon request. Retained self-monitoring results are public information and shall be promptly provided to the public upon request.

The permittee shall certify, in writing, to the Plainwell District Supervisor of the Surface Water Quality Division, Department of Environmental Quality on or before January 10th of each year, that: 1) all retained self-monitoring requirements have been complied with and a year-to-date log has been maintained; and 2) the flow rate(s) (if part of retained self-monitoring results) from all outfalls have been substantially the same as the flow rate(s) authorized by this permit, or if the flow rate(s) (if part of retained self-monitoring results) is (are) substantially different from the flow rate(s) authorized by this permit, the reasons for the difference in flow rates.

4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report. Such increased frequency shall also be indicated.

5. Compliance Dates Notification

Within 14 days of every compliance date specified in this permit, the permittee shall submit a written notification to the Plainwell District Supervisor of the Surface Water Quality Division indicating whether or not the particular requirement was accomplished. If the requirement was not accomplished, the notification shall include an explanation of the failure to accomplish the requirement, actions taken or planned by the permittee to correct the situation, and an estimate of when the requirement will be accomplished. If a written report is required to be submitted by a specified date and the permittee accomplishes this, a separate written notification is not required.

PART II

Section C. Reporting Requirements

6. Noncompliance Notification

Compliance with all requirements set forth in the Federal Act, Parts 31 and 41 of the Michigan Act, and related regulations and rules is required. All instances of noncompliance shall be reported as follows:

a. 24-hour reporting - Any noncompliance which may endanger health or the environment (including daily maximum discharge limitation exceedances) shall be reported, verbally, within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five (5) days.

b. other reporting - The permittee shall report, in writing, all other instances of noncompliance not described in a. above at the time monitoring reports are submitted; or, in the case of retained self-monitoring, within five (5) days from the time the permittee becomes aware of the noncompliance.

Written reporting shall include: 1) a description of the discharge and cause of noncompliance; and 2) the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and the steps taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

7. Spill Notification

The permittee shall immediately report any spill or loss of any product, by-product, intermediate product, oils, solvents, waste material, or any other polluting substance which occurs to the surface waters or groundwaters of the state by calling the Department of Environmental Quality's 24-hour Emergency Response telephone number, 1-800-292-4706 (calls from out-of-state dial 1-517-373-8166); and within ten (10) days of the spill or loss, the permittee shall submit to the Plainwell District Supervisor of the Surface Water Quality Division a full written explanation as to the cause and discovery of the spill or loss, clean-up and recovery measures taken, preventative measures to be taken, and schedule of implementation.

8. Upset Noncompliance Notification

If a process "upset" (defined as an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee) has occurred, the permittee who wishes to establish the affirmative defense of upset shall notify the Plainwell District Supervisor of the Surface Water Quality Division by telephone within 24 hours of becoming aware of such conditions; and within five (5) days, provide in writing, the following information:

a. that an upset occurred and that the permittee can identify the specific cause(s) of the upset;

b. that the permitted wastewater treatment facility was, at the time, being properly operated; and

c. that the permittee has specified and taken action on all responsible steps to minimize or correct any adverse impact in the environment resulting from noncompliance with this permit.

In any enforcement proceedings, the permittee, seeking to establish the occurrence of an upset, has the burden of proof.

PART II

Section C. Reporting Requirements

9. Bypass Prohibition and Notification

a. Bypass Prohibition - Bypass is prohibited unless:

1) bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

2) there were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass; and

(3) the permittee submitted notices as required under 9.b. or 9.c. below.

b. Notice of Anticipated Bypass - If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Plainwell District Supervisor of the Surface Water Quality Division, if possible at least ten days before the date of the bypass, and provide information about the anticipated bypass as required by the Plainwell District Supervisor. The Plainwell District Supervisor may approve an anticipated bypass, after considering its adverse effects, if it will meet the three conditions listed in 9.a. above.

c. Notice of Unanticipated Bypass - The permittee shall submit notice to the Plainwell District Supervisor of the Surface Water Quality Division of an unanticipated bypass by telephone at 616-685-9886 (if the notice is provided after regular working hours, use the following number: 1-800-292-4706) as soon as possible, but no later than 24 hours from the time the permittee becomes aware of the circumstances.

d. Written Report of Bypass - A written submission shall be provided within five (5) working days of commencing any bypass to the Plainwell District Supervisor of the Surface Water Quality Division, and at additional times as directed by the Plainwell District Supervisor. The written submission shall contain a description of the bypass and its cause; the period of bypass, including exact dates and times, and if the bypass has not been corrected, the anticipated time it is expected to continue; steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass; and other information as required by the Plainwell District Supervisor.

e. Bypass Not Exceeding Limitations - The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of 9.a., 9.b., 9.c., and 9.d., above. This provision does not relieve the permittee of any notification responsibilities under Part II.C.10. of this permit.

f. Definitions

(1) Bypass means the intentional diversion of waste streams from any portion of a treatment facility.

(2) Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

PART II

Section C. Reporting Requirements

10. Changes in Discharge

The permittee shall notify the Plainwell District Supervisor of the Surface Water Quality Division, in writing, within 10 days of knowing, or having reason to believe, that any activity or change has occurred or will occur which would result in the discharge of: 1) detectable levels of chemicals on the current Michigan Critical Materials Register or priority pollutants or hazardous substances set forth in 40 CFR 122.21, Appendix D, which were not acknowledged in the application or listed in the application at less than detectable levels; 2) detectable levels of any other chemical not listed in the application or listed at less than detection, for which the application specifically requested information (The detectable level shall be defined as the Method Detection Limit (MDL) as given in Appendix B to Part 136, Federal Register, Vol. 49, No. 209, October 26, 1984, pp. 43430-31.); or 3) any chemical at levels greater than five times the average level reported in the application submitted on April 3, 1995. Any other monitoring results obtained as a requirement of this permit shall be reported in accordance with the compliance schedules.

11. Changes in Facility Operations

Any anticipated facility expansion, production increases, or process modification which will result in new, different, or increased discharges of pollutants must be reported by submission of a new application to the Plainwell District Supervisor of the Surface Water Quality Division or, by notice to the Plainwell District Supervisor if the following conditions are met: 1) the changes will not result in the discharge of wastewater not currently authorized or at volumes greater than currently authorized by this permit; 2) the changes will not violate the effluent limitations specified in this permit; and 3) the changes will not require notification pursuant to Part II.C.10. Following such notice, the permit may be modified according to applicable laws and rules to specify and limit any pollutant not previously limited.

12. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharge emanates, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Plainwell District Supervisor of the Surface Water Quality Division 30 days prior to the actual transfer of ownership or control.

PART II

Section D. Management Responsibilities

1. Duty to Comply

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit.

It is the duty of the permittee to comply with all the terms and conditions of this permit. Any noncompliance with the Effluent Limitations, Special Conditions, or terms of this permit constitutes a violation of the Michigan Act and/or the Federal Act and constitutes grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of an application for permit renewal.

2. Operator Certification

The permittee shall have the waste treatment facilities under direct supervision of an operator certified at the appropriate level for the facility certification by the Michigan Department of Environmental Quality, as required by Sections 3110 and 4104 of the Michigan Act.

3. Facilities Operation

The permittee shall, at all times, properly operate and maintain all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes adequate laboratory controls and appropriate quality assurance procedures.

4. Power Failures

In order to maintain compliance with the effluent limitations of this permit and prevent unauthorized discharges, the permittee shall either:

a. provide an alternative power source sufficient to operate facilities utilized by the permittee to maintain compliance with the effluent limitations and conditions of this permit; or

b. upon the reduction, loss, or failure of one or more of the primary sources of power to facilities utilized by the permittee to maintain compliance with the effluent limitations and conditions of this permit, the permittee shall halt, reduce or otherwise control production and/or all discharge in order to maintain compliance with the effluent limitations and conditions of this permit.

5. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to the surface waters or groundwaters of the state resulting from noncompliance with any effluent limitation specified in this permit including, but not limited to, such accelerated or additional monitoring as necessary to determine the nature and impact of the discharge in noncompliance.

6. Containment Facilities

The permittee shall provide facilities for containment of any accidental losses of concentrated solutions, acids, alkalies, salts, oils, or other polluting materials in accordance with the requirements of the Part 5 Rules (Rules 323.1151 through 323.1169 of the Michigan Administrative Code). For a POTW, these facilities shall be approved under Part 41 of the Michigan Act.

PART II

Section D. Management Responsibilities

7. Waste Treatment Residues

Solids, sludges, biosolids, filter backwash, scrubber water or other pollutants resulting from treatment or control of wastewaters shall be disposed of in an environmentally compatible manner and according to applicable laws and rules. Such disposal shall not result in any unlawful pollution of the air, surface waters or groundwaters of the state.

8. Right of Entry

The permittee shall allow the Michigan Department of Environmental Quality, any agent appointed by the Department or the Regional Administrator, upon the presentation of credentials:

a. to enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and

b. at reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect process facilities, treatment works, monitoring methods and equipment regulated or required under this permit; and to sample any discharge of pollutants.

9. Availability of Reports

Except for data determined to be confidential under Section 308 of the Federal Act and Rule 2128 (Rule 323.2128 of the Michigan Administrative Code), all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department and the Regional Administrator. As required by the Federal Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Federal Act and Sections 3112, 3115, 4106 and 4110 of the Michigan Act.

PART II

Section E. Activities Not Authorized by This Permit

1. Discharge to the Groundwaters

This permit does not authorize any discharge to the groundwaters. Such discharge must be authorized by a groundwater discharge permit issued pursuant to the Michigan Act.

2. Facility Construction

This permit does not authorize or approve the construction or modification of any physical structures or facilities. Approval for such construction for a POTW must be by permit issued under Part 41 of the Michigan Act. Approval for such construction for a mobile home park, campground or marina shall be from the Drinking Water and Radiological Protection Division -- Environmental Health, Michigan Department of Environmental Quality. Approval for such construction for a hospital, nursing home or extended care facility shall be from the Division of Health Facility Services -- Health Facility Evaluation Section, Michigan Department of Consumer and Industry Services upon request.

3. Civil and Criminal Liability

Except as provided in permit conditions on "Bypass" (Part II.C.9. pursuant to 40 CFR 122.41(m)), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance, whether or not such noncompliance is due to factors beyond his control, such as accidents, equipment breakdowns, or labor disputes.

4. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee may be subject under Section 311 of the Federal Act except as are exempted by federal regulations.

5. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by Section 510 of the Federal Act.

6. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize violation of any federal, state or local laws or regulations, nor does it obviate the necessity of obtaining such permits or approvals from other units of government as may be required by law.

Water Resources Commission

Municipal Wastewater Discharge Application

◄----*Instructions on Adjacent Page*

DNR

PLEASE PRINT

1. Facility Name City of OTSEGO Wastewater Treatment Plant

2. Facility Location

   Street # and Name N. Grant ST.

   City ~~or Village~~ OTSEGO County Allegan

3. Facility Mailing Address

   Street # and Name 117 E. Orleans ST.

   City ~~or Village~~ OTSEGO State MI Zip 49078

4. Owner, Mailing Address

   Owner City of OTSEGO Phone 1-616-692-3391

   Street # and Name 117 E. Orleans ST.

   City ~~or Village~~ OTSEGO State MI Zip 49078

   Contact Person Thomas W. DuNN Title Superintendent

   Street # and Name 117 E. Orleans Phone 1-616-694-9194

   City ~~or Village~~ OTSEGO State MI Zip 49078

5. This permit application is a request for (check box(es)):

   ☑ the REISSUANCE of the current permit — permit # MI 0023744

   ☐ a MODIFICATION of the current permit — permit # _____

   Reason _____

   ☐ an INCREASED USE (includes increase in flow, increase in the number of effluent characteristics in the wastewater or increase in the amount of the effluent characteristics)

   permit # _____. Reason _____

   ☐ a NEW, proposed discharge

   ☐ an EXISTING discharge, previously unpermitted

6. Is there an operator or superintendent responsible for the operation and maintenance of this facility?

   ☐ No ☑ Yes — Name Thomas W. DuNN

   Business phone 1-616-694-9194

   Operator Certification Class A Facility Classification Class B

Water Resources Commission

Municipal Wastewater Discharge Application

◀----*Instructions on Adjacent Page*

DNR

Facility Name: OTSEGO WWTP

PLEASE PRINT PERMIT #: MI0023744

7. Service Area

a. Number of people served by this facility 4000

b. List the governmental unit(s) within the service area of this facility

City of OTSEGO

Township of OTSEGO

c. Describe the area this facility serves within City limit boundaries of City of Otsego, and boundary streets have 4 or 5 hookups with township residents

d. List the source(s) of water supply OTSEGO City Wells

8. Flow Diagram

Provide a flow diagram **and** narrative, **with this application,** of the wastewater treatment processes. Indicate all wastewater flows including: return flows, sludge (waste & return) and grit flows. Also indicate all flow meter and chemical feed locations and discharge points. ATTACH THIS INFORMATION TO THIS APPLICATION.

9. Map

Provide a map, **with this application,** illustrating the location of the wastewater treatment facility, discharge point(s), nearby surface water bodies, water supply wells and any groundwater monitoring wells. This map **MUST** be a United States Geoligical Survey Quadrangle map (7.5 minute series) or other map of comparable detail, scale and quality. The minimum area this illustration should encompass is approximately 1 mile from the property boundaries. ATTACH THIS MAP TO THIS APPLICATION

10. *List names and mailing address of **all** property owners adjacent to the wastewater treatment facility.*

Mr. + Mrs. Earl Holmes 208 N. Grant ST OTSEGO, MI 49078

Mr & Mrs Ken Holmes Nicholson Otsego, MI 49078

Mr & Mrs. Scott Reising 511 W. Water ST Otsego, MI 49078

Mr. Steven Norris 110 N. Grant OTSEGO, MI 49078

Kelly Ver Hage 519 Water ST. OTSEGO, MI 49078

Stacey Kruisenga 521 Water ST OTSEGO, MI 49078

Mr. Tom Covault 518 Water ST OTSEGO, MI 49078

Water Resources Commission

Municipal Wastewater Discharge Application

◄----*Instructions on Adjacent Page*

DNR

Facility Name: OTSEGO WWTP

PLEASE PRINT PERMIT #: MI0023744

11. Discharge Flow

Please provide the information below for **each** outfall from which treated wastewater discharges (main outfall(s), retention basins, underdrains, etc.). Make additional copies of this blank page, if necessary, and complete one for each outfall.

a. Outfall #: 001 Location: County Allegan

N W ¼ of the S E ¼, Section 2 2, Town T 1 N, Range 1 2 W

b. Name of water receiving the discharge Kalamazoo River

c. Does the discharge from this outfall occur year-round?

☑ Yes ☐ No — list the seasonal discharge period(s):

from_____ through_____; from_____ through_____

from_____ through_____; from_____ through_____

d. How often is there a discharge from this outfall (yearly average)?

hrs/day 24 days/year 365

e. Facility Design Flow — annual average design flow 0.750 (MGD)

annual total (seasonal dischargers only) _____ (MGY)

f. Expected Discharge Flow (provide what you know or can obtain) — annual average flow 0.386 (MGD)

weekly maximum flow _____ (MGD)

daily maximum flow 0.469 (MGD)

2-hour maximum flow _____ (MGD)

maximum dry weather flow _____ (MGD)

maximum wet weather flow _____ (MGD)

	Continuous Dischargers (daily average discharge flows)	Seasonal Dischargers (daily maximum discharge flows)
January	0.333 (MGD)	(MGD)
February	0.349 (MGD)	(MGD)
March	0.379 (MGD)	(MGD)
April	0.401 (MGD)	(MGD)
May	0.388 (MGD)	(MGD)
June	0.388 (MGD)	(MGD)
July	0.397 (MGD)	(MGD)
August	0.406 (MGD)	(MGD)
September	0.405 (MGD)	(MGD)
October	0.396 (MGD)	(MGD)
November	0.400 (MGD)	(MGD)
December	0.385 (MGD)	(MGD)

Water Resources Commission

Municipal Wastewater Discharge Application

◄----*Instructions on Adjacent Page*

DNR

Facility Name: OTSEGO WWTP

PLEASE PRINT PERMIT #: MI 0023744

12. Effluent Characteristics

Provide sampling information for **ALL** effluent characteristics listed below, for each facility outfall. Additional toxic pollutant sampling **MUST** be conducted and the results included for those parameters either known or believed to be present in the effluent (see instructions on page 4a). EPA and DNR approved analytical methods should be used to satisfy this requirement. Make additional copies of this blank page, if necessary, and complete one for each outfall.

Outfall #: 001

Effluent Characteristic	Monthly Average	Daily Maximum	Number of Analyses
Biochemical Oxygen Demand (BOD_5)	mg/l	—	
BOD_5 % removal	%	—	
Carbonaceous BOD_5	13 mg/l	40 mg/l	246
Carbonaceous BOD_5 % removal	92 %	—	246
Ammonia Nitrogen (as N)	10 mg/l	28 mg/l	51
Total Suspended Solids	11 mg/l	—	249
Total Suspended Solids % removal	91 %	—	249
Total Dissolved Solids	727 mg/l	—	1
Total Phosphorus (as P)	0.5 mg/l	—	248
Fecal Coliform Bacteria	7 counts/100ml	—	244
Total Residual Chlorine—avg max	.035 mg/l	—	365
Disolved Oxygen—avg min	6.2 mg/l	—	239
pH - avg min	7.0	—	246
avg max	7.9	—	246
Total Alkalinity (as $CaCO_3$)	253 mg/l	—	1
Total Hardness (as $CaCO_3$)	283 mg/l	—	1
Copper	.012 mg/l		52
Zinc	.030 mg/l		4
Hexavalent Chromium	<0.01 mg/l		52
PCB	<0.1 ug/l		25
Lead	<0.05 mg/l		1

Please submit, **with this application,** additional toxic pollutant data (see page 4a).

Water Resources Commission
Municipal Wastewater Discharge Application

◄----*Instructions on Adjacent Page*

Facility Name: OTSEGO WWTP

PLEASE PRINT PERMIT #: MI0023744

13. Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been conducted on your effluent(s) and/or receiving water in the vicinity of your discharge?

☐ No

☑ Yes — Identify what test(s) was conducted, the date(s) it was conducted, who conducted it and briefly summarize the results. Sept 9-13 1992 Acute Toxicity Mid-State Associates Nov 11-15, 1992 Acute Toxicity Mid-State Associates Jan 20-24, 1993 Acute Toxicity MSA March 30-April 3, 1993 Above Tests on two species Daphnia Magnia - No Toxicity, Fathead minnows failed TU a level. Sept 19, 1994 DNR did not meet Rule 82 for Daphnia Magna however fathead minnow test passed,

14. Industrial and Commercial Sources

a. Does your facility receive any **non-sanitary** wastewater from any industrial or commercial establishments?

☐ No — Continue below to item 15.

☑ Yes — Continue below to item b.

b. Is an Industrial Pretreatment Program currently required by the Michigan Department of Natural Resources?

☑ Yes — Continue below to item 15.

☐ No — (1) Estimate the average volume of non-sanitary wastewater received by your facility.

25,000 gallons/day

(2) Describe the type of non-sanitary wastewater(s) received by your facility. Non Contact Cooling Water and process wastewater from Three Separate Divisions of Parker Hannifin Corporation

(3) Describe what is known about the quality of this non-sanitary wastewater. Include sampling results, if available. One categorical industry has pretreatment facility that reduces metals to low levels other industries do not need pretreatment to achieve local limits.

15. Do your treatment facility processes include any wastewater stabilization or storage lagoons, spray irrigation or other processes where wastewater contacts the ground surface?

☑ No

☐ Yes — Describe what ground surface contact occurs. _____

16. Lift Stations

Are there any lift stations used for transporting wastewater to the treatment facility?

☐ No

☑ Yes — Provide a list or map, **with this application,** describing or illustrating the location of each lift station. See Map for locations 3 Stations Washington St. North St.

Water Resources Commission

Municipal Wastewater Discharge Application

◄----*Instructions on Adjacent Page*

Facility Name: OTSEGO WWTP

PLEASE PRINT PERMIT #: MI 0023744

17. Bypasses and Combined Sewer Overflows

a. Is the sanitary sewer collection system totally separated from the storm sewer system or is any part of it combined?

☑ Separated — Continue below to item b.

☐ Combined — Estimate what percentage of the sanitary sewer system is combined _____ %

b. Are there any raw sewage bypass outfalls or combined sewer overflows (either at the facility or along the collection system)?

☐ No — Continue to next page, item 18.

☑ Yes — Provide the requested information below. Make additional copies of this blank page, if there are more than 3 outfalls.

OUTFALL # 002 Type Lift STATION By-Pass

(1) Location: County Allegan

N W ¼ of the S E ¼, Section 2 3, Town T 1 N, Range 1 2 W

Location description North Street Lift Station on Northeast side of North ST. Bridge

(2) Name of water receiving the discharge Kalamazoo River

(3) Describe the conditions that cause a discharge from this outfall Lift STATION malfunction

(4) What is the average frequency and volume of discharge(s) from this outfall?

days/years 0 hours/day 0 gallons/hour 0

OUTFALL # _____ Type _____

(1) Location: County _____

___ ___ ¼ of the ___ ___ ¼, Section ___ ___, Town ___ ___ ___, Range ___ ___ ___

Location description _____

(2) Name of water receiving the discharge _____

(3) Describe the conditions that cause a discharge from this outfall _____

(4) What is the average frequency and volume of discharge(s) from this outfall?

days/years _____ hours/day _____ gallons/hour _____

OUTFALL # _____ Type _____

(1) Location: County _____

___ ___ ¼ of the ___ ___ ¼, Section ___ ___, Town ___ ___ ___, Range ___ ___ ___

Location description _____

(2) Name of water receiving the discharge _____

(3) Describe the conditions that cause a discharge from this outfall _____

(4) What is the average frequency and volume of discharge(s) from this outfall?

days/years _____ hours/day _____ gallons/hour _____

Water Resources Commission

Municipal Wastewater Discharge Application

◀----*Instructions on Adjacent Page*

DNR

Facility Name: OTSEGO WWTP

PLEASE PRINT PERMIT #: MI0023744

18. a. Are they any residuals (solids, sludges, ash, grit, etc.) produced as a result of wastewater treatment that require disposal?

☐ No — Continue below to item 19.

☑ Yes — Briefly describe the type of residual(s) and its ultimate disposal

Grit - Landfilled

Anaerobically Digested Biosolids - Land Application on permitted Agricultural Land by subsurface injection.

b. Has a Program for Effective Residuals Management been required, submitted and approved by the Michigan Department of Natural Resources (check appropriate box(es))?

	YES	NO	
Required	☑	☐	— if No, continue below to item 19.
Submitted	☑	☐	— date submitted May 1988
Approved	☑	☐	— date approved May 18, 1988 Renewal May 1992

19. Has an Alternative Power Source Report been required, submitted and approved by the Michigan Department of Natural Resources (check appropriate box(es))?

	YES	NO	
Required	☑	☐	— if No, continue below to item 20.
Submitted	☑	☐	— date submitted April 22, 1987
Approved	☑	☐	— date approved April 30, 1987

20. Summarize the history of the facility with regards to when it was originally constructed, what, when and why any facility improvements were made, future plans for upgrading and anything else you wish to include.

See Attached Sheet

Water Resources Commission
Municipal Wastewater Discharge Application

◄----*Instructions on Adjacent Page*

DNR

Facility Name: OTSEGO WWTP

PLEASE PRINT PERMIT #: MI0023744

21. Application Authorization

Federal and State statutes provide for severe penalties for submitting false information on this application form.

The State of Michigan's Water Resources Commission's Act 245, Public Acts of 1929, as amended, Section 10(2) states: "A person who discharges a substance into the waters of the state contrary to the provisions of this act, or contrary to the provisions of a permit, order, rule or stipulation of the commission, or who makes a false statement, representation, or certification in an application for, or form pertaining to a permit, or in a notice or report required by the terms and conditions of an issued permit, or who renders inaccurate a monitoring device or record required to be maintained by the commission, is guilty of a misdemeanor and shall be fined not less than $2,500.00 nor more than $25,000.00 for each violation."

Section 309(c)(4) of the Federal Clean Water Act of 1977 (P.L. 95-217), as amended, provides that "Any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under this Act or who knowingly falsifies, tampers with, or renders inaccurate any monitoring device or method required to be maintained under this Act, shall upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than 2 years, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment shall be by a fine of not more than $20,000 per day of violation, or by imprisonment of not more than 4 years, or by both."

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons 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 that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature Curtis Holt

Print Name Curtis Holt Title City Manager

Representing City of Otsego Date 3/31/95

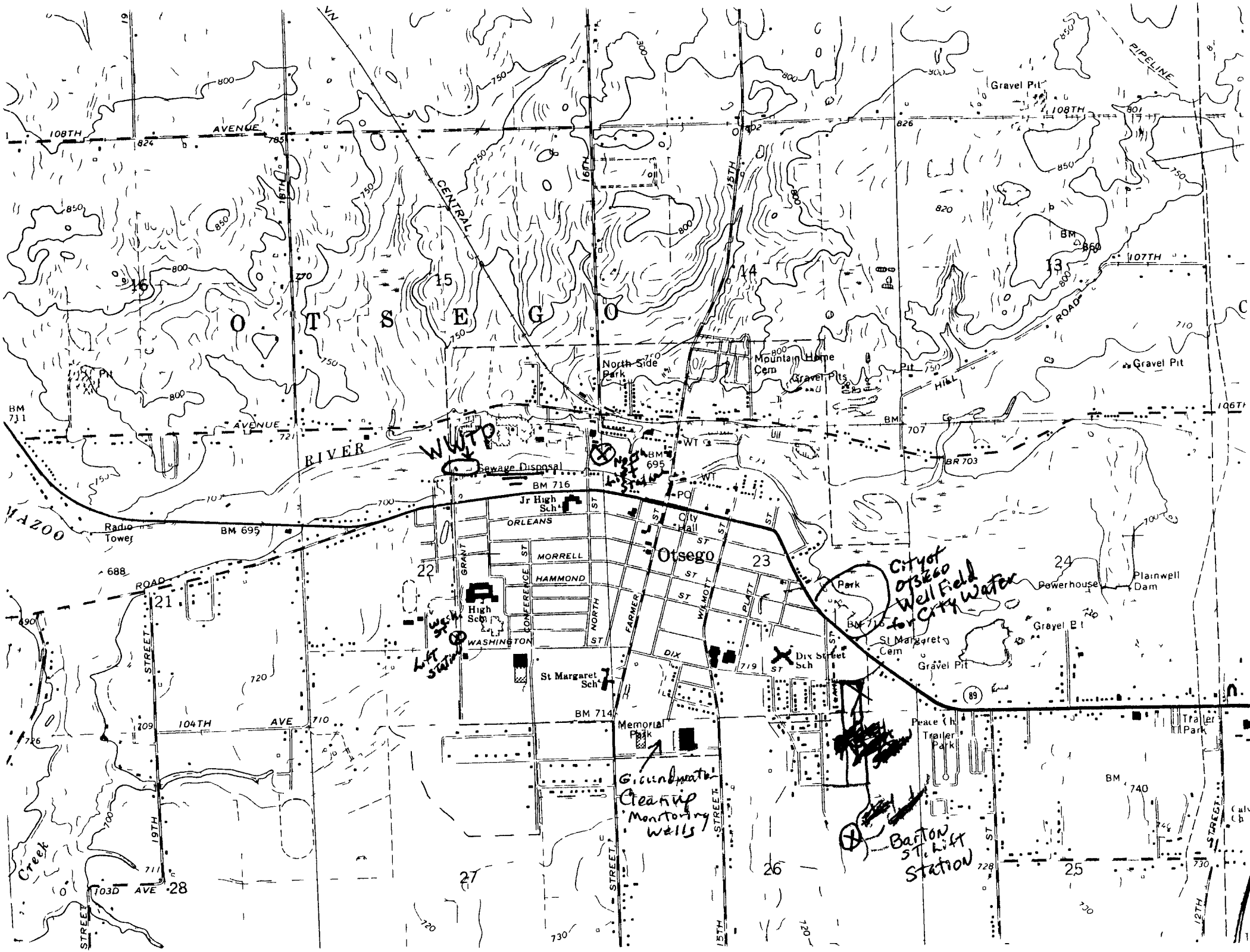
Where the applicant does not represent a municipality, the following certification of the local governmental representative **is required.**

"This is to certify that I am aware of and recognize the responsibilities of the municipality as set forth in Section 6(b) of the Michigan Water Resources Commission Act 245 of 1929."

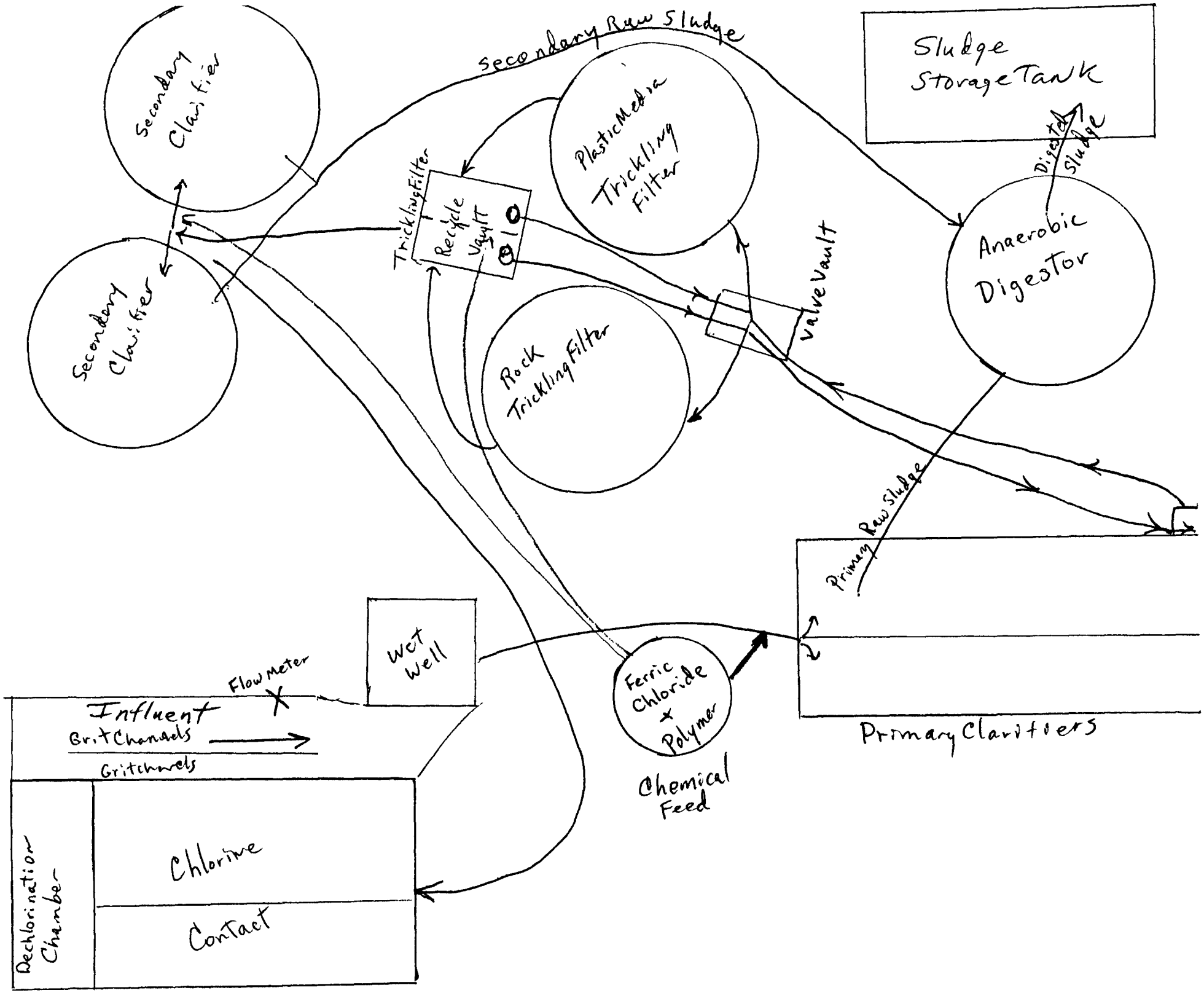
Signature _____

Print Name _____ Title _____

Representing _____ Date _____



O T S E G O
108TH AVENUE
CENTRAL
PIPELINE
Gravel Pit
107TH
106TH
HILL ROAD
North Side Park
Mountain Home Cem
Gravel Pits
Pit
Gravel Pit
BM 711
AVENUE
RIVER
MAZOO
Radio Tower
BM 695
Sewage Disposal
BM 716
Jr High Sch
ORLEANS
MORRELL
HAMMOND
WASHINGTON
DIX
City Hall
Otsego
GRANT
CONFERENCE ST
NORTH ST
FARMER ST
WILMOTT ST
PLATT ST
High Sch
St Margaret Sch
Dix Street Sch
Park
St Margaret Cem
Gravel Pit
Powerhouse
Plainwell Dam
Gravel Pit
Peace Ch
Trailer Park
Trailer Park
BM 714
Memorial Park
104TH AVE
103D AVE
19TH STREET
15TH STREET
12TH STREET
Creek
BM 707
BR 703
BM 740
WWTP
North Lift Station
Wash St Lift Station
City of Otsego Well Field for City Water
Groundwater Cleanup Monitoring Wells
Barton St. Lift Station


Secondary Clarifier
Secondary Clarifier
Secondary Raw Sludge
Trickling Filter
Recycle Vault
Plastic Media Trickling Filter
Rock Trickling Filter
Valve Vault
Sludge Storage Tank
Digested Sludge
Anaerobic Digestor
Primary Raw Sludge
Wet Well
Flow Meter
Influent
Grit Channels
Grit Channels
Ferric Chloride + Polymer
Chemical Feed
Primary Clarifiers
Dechlorination Chamber
Chlorine
Contact

HISTORY OF OTSEGO WASTEWATER TREATMENT PLANT

This facilities original construction date was 1954. It became operational in early 1955. The original plant consisted of the following;the headworks consisting of grit chambers bar screen , comminutor and wet well followed by influent sewage pumps. Influent was pumped to the primary clarifiers (2) for the settling of primary organic solids which in turn are pumped to the anaerobic digestor. The primary effluent exits the primary tanks to flow to the trickling filter for secondary biological treatment from there the flow entered two rectangular secondary clarifiers for additional clarification and solids removal prior to chlorine disinfection. The plant remained as such for thirty five years until 1989 when a major expansion was undertaken. The plant expansion of 1989-1990 utilized existing facilities as a base to add additional treatment units for more capacity and improved performance. An additional trickling filter with crossflow plastic media rather than rock was added with a trickling filter recycle pump station , which allows for either parallel or series operation of the filters. Two circular secondary clarifiers were constructed to replace the old rectangular clarifiers. The old clarifiers are now utilized as chlorine contact tanks followed by dechlorination with sulfur dioxide. A storage tank in excess of 400,000 gallons capacity was also added for the plants biosolids. All plant equipment was replaced or rebuilt during this expansion and a new service building and laboratory were constructed. This upgrade is serving the community very well and there are no immmediate future plans for further upgrades.

NATURAL RESOURCES COMMISSION
THOMAS J ANDERSON
E R CAROLLO
MARLENE J FLUHARTY
STEPHEN F MONSMA
O STEWART MYERS
RAYMOND POUPORE
HARRY H WHITELEY

STATE OF MICHIGAN

JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T. MASON BUILDING
BOX 30028
LANSING, MI 48909

RONALD O. SKOOG, Director

February 6, 1985

RECEIVED
FEB 7 1985
CITY OF OTSEGO
MICHIGAN

CERTIFIED MAIL

Mrs. Jane L. Tice, Clerk
City of Otsego
117 East Orleans
Otsego, Michigan 49078

Re: NPDES Permit No. MI 0023744

Dear Mrs. Tice:

Your application for a National Pollutant Discharge Elimination System (NPDES) Permit has been processed in accordance with appropriate state and federal regulations.

Your NPDES Permit contains: 1) limitations which require you to monitor your effluent in accordance with Part I, Section A; and 2) a schedule of compliance for submittal of information concerning other permit requirements.

REVIEW THE PERMIT EFFLUENT LIMITS AND PERFORMANCE SCHEDULES CAREFULLY. These are subject to the criminal and civil enforcement provisions of both state and federal law. Permit violations are audited by the United States Environmental Protection Agency and will appear in a published quarterly noncompliance report made available to agencies and the public.

Your monitoring and reporting responsibilities shall be complied with in accordance with Part I, Section B of this permit. If applicable, monthly operating report forms will be transmitted to you in the near future. These reports are to be submitted monthly or otherwise as required by your NPDES permit.

Any reports, notifications, and questions regarding the attached permit or NPDES program should be addressed to the following address:

Fred Morley, District Supervisor
621 North Tenth Street
P.O. Box 355
Plainwell, Michigan 49080
Telephone: (616) 685-9886

NOTE: All references within this permit made to the Water Quality Division or Chief of the Water Quality Division are to refer to the Surface Water Quality Division or Chief of the Surface Water Quality Division, respectively.

Sincerely,

William E. McCracken

William E. McCracken, P.E.
Chief, Permits Section
Surface Water Quality Division
517-373-8088

Enclosure: Permit

cc: EPA-Region V (2)
Files
Water Quality Surveillance
Compliance Section #1
Fred Morley - Plainwell District
Land Application Unit
208 Agency - West Michigan Regional Planning Commission

Permit No. MI 0023744

MICHIGAN WATER RESOURCES COMMISSION

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), Michigan Act 98, Public Acts of 1913, as amended, being sections 325.201 through 325.214 of the Compiled Laws of Michigan, and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, being sections 323.1 through 323.13 of the Compiled Laws of Michigan, the "Michigan Act"),

the City of Otsego

is authorized to discharge from a facility located at 310 North Grant Street

designated as the Otsego Wastewater Treatment Plant

to receiving water named the Kalamazoo River

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit takes effect immediately upon the date of issuance. Any person who feels aggrieved by this permit may file a sworn petition with the Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested terms shall be stayed until the Commission takes its final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight September 30, 1989. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application dated March 31, 1982, and shall supersede any and all Orders of Determination, Stipulations, Final Orders of Determination, or NPDES Permits previously adopted by the Michigan Water Resources Commission, concerning the described discharge(s).

Issued this 17th day of January 1985, by the Michigan Water Resources Commission.

Paul D. Zugger
Executive Secretary

Reissue

PERMIT CONDITIONS

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS.

1. Interim Effluent Limitations

a. During the period beginning on the date of issuance and lasting until June 30, 1988 the permittee is authorized to discharge treated municipal wastewaters from the Otsego wastewater treatment plant through outfall 001 to the Kalamazoo River. Such discharges shall be limited and monitored by the permittee as follows:

EFFLUENT CHARACTERISTICS	DATES IN EFFECT	EFFLUENT LIMITATIONS				TESTING FREQUENCY
		Minimum	Maximums			
		Daily	Daily	30 Day Avg.	7 Day Avg.	
5-Day 20°C Biochemical Oxygen Demand	All Year	---	---	60 mg/l 118 kg/day 260 lb/day	75 mg/l 147 kg/day 325 lb/day	5 x weekly
Suspended Solids	All Year	---	---	40 mg/l 79 kg/day 173 lb/day	55 mg/l 108 kg/day 239 lb/day	5 x weekly
Total Phosphorus (as P)	All Year	---	---	3.5 mg/l	---	5 x weekly
Fecal Coliform Bacteria	All Year	---	---	200/100 ml	400/100 ml	5 x weekly
pH	All Year	6.0	9.0	---	---	5 x weekly
Dissolved Oxygen	All Year	---	---	---	---	5 x weekly

PART I, Section A-1

b. All samples shall be 24-hour composite samples taken prior to disinfection except Fecal Coliform Bacteria, Total Residual Chlorine, Dissolved Oxygen, and pH which shall be grab samples of the effluent.

c. The total daily effluent flow shall be measured daily.

d. During the period that Coliform Bacteria limitations are in effect, the permittee shall provide adequate control and facilities to ensure continuous disinfection.

PERMIT CONDITIONS

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS.

2. Final Effluent Limitations

a. During the period beginning July 1, 1988 and lasting until date of expiration the permittee is authorized to discharge treated municipal wastewaters from the Otsego wastewater treatment plant through outfall 001 to the Kalamazoo River. Such discharges shall be limited and monitored by the permittee as follows:

EFFLUENT CHARACTERISTICS	DATES IN EFFECT	EFFLUENT LIMITATIONS				TESTING FREQUENCY
		Minimum	Maximums			
		Daily	Daily	30 Day Avg.	7 Day Avg.	
5-Day 20°C Biochemical Oxygen Demand	All Year	---	---	45 mg/l 153 kg/day 338 lb/day	65 mg/l 221 kg/day 488 lb/day	5 x weekly
Suspended Solids	All Year	---	---	40 mg/l 136 kg/day 300 lb/day	50 mg/l 170 kg/day 375 lb/day	5 x weekly
Total Phosphorus (as P)	All Year	---	---	1.0 mg/l	---	5 x weekly
Fecal Coliform Bacteria	May 1 to Oct. 31	---	---	200/100 ml	400/100 ml	5 x weekly
pH	All Year	6.0	9.0	---	---	5 x weekly
Dissolved Oxygen	All Year	4.0 mg/l	---	---	---	5 x weekly
Total Residual Chlorine	All Year	---	0.5 mg/l	---	---	Daily during periods of disinfection

The following design flows were used in determining the above limitations, but are not to be considered limitations or actual capacities themselves: Annual Average Design Flow 0.9 MGD.

FEL

PART I, Section A-2

b. All samples shall be 24-hour composite samples taken prior to disinfection except Fecal Coliform Bacteria, Total Residual Chlorine, Dissolved Oxygen, and pH which shall be grab samples of the effluent.

c. The total daily effluent flow shall be measured daily.

d. During the period that Coliform Bacteria limitations are in effect, the permittee shall provide adequate control and facilities to ensure continuous disinfection.

e. Variance Opportunity - Opportunity exists under the Provision of Rules of the Michigan Water Resources Commission (R 323.1082) to demonstrate to the Commission that the concentration of a material potentially toxic to fish or fish food organisms greater than the 96 hour TL_m (0.024 mg/l Total Residual Chlorine) is acceptable. The demonstration, if undertaken, shall conclusively demonstrate to the satisfaction of the Commission that such higher concentration will not cause an irreversible response which results in deleterious effects to populations of important aquatic life and wildlife, and interference with passage of fish and fish food organisms results only to the extent that impacts on their immediate and future populations are negligible or not measurable. Such a demonstration, if undertaken, shall be submitted to the Chief of the Surface Water Quality Division on or before Sepetmber 30, 1986.

f. In addition to the BOD and Suspended Solids limitations above, the 30-day average effluent BOD and Suspended Solids concentrations shall not exceed 25 percent of the average influent concentrations for approximately the same period.

PART I

B. INDUSTRIAL WASTE PRETREATMENT PROGRAM

The permittee shall develop and implement an Industrial Waste Pretreatment and NonDomestic User Control Program that enables the permittee to detect and enforce against violations of federal, state, and local standards for the protection of the wastewater treatment works, its operation, and the aquatic environment. This program is required under the authority of Section 307(b) and (c) and Section 402(b)(8) of the Clean Water Act; Section 6b of the Michigan Act 245 of 1929, as amended; Sections 1 and 11 of Michigan Act 98, of 1913, as amended; and federal regulations 40 CFR 403.

In certain cases, there may be Construction Grant funds available to assist permittees to develop an Industrial Waste Pretreatment Program. The permittee is hereby advised that development and implementation of the program described herein is not contingent on available Grant funding.

The permittee shall submit all documents required for the Pretreatment Program to the attention of the Chief of the Surface Water Quality Division, Michigan Department of Natural Resources, P.O. Box 30028, Lansing, Michigan, 48909. The permittee is referred to Part II, Section A-2 for definitions of several important terms used in this Section. The development of the Industrial Waste Pretreatment shall be as follows:

1. Industrial Waste Pretreatment and NonDomestic User Control Program

a. On or before (approved March 1982), submit for approval a Master Plan to develop and implement an Industrial Waste Pretreatment and NonDomestic User Control Program. The Master Plan shall identify a series of necessary tasks which shall lead to ultimate approval by the State of the permittee's ongoing surveillance program. The Master Plan shall address and expand on the following general areas identified in the Code of Federal Regulations (CFR) entitled "General Pretreatment Regulations for Existing and New Sources of Pollution" issued Monday, January 28, 1981:

Legal Authorities - 40CFR403.8(f)(1)(i) thru (vi)

Procedures - 40CFR403.8(f)(2)(i) thru (vii)

Funding - 40CFR403.8(f)(3)

This Master Plan shall make full use of Industrial User and NonDomestic User surveillance information that may have resulted from the identification, classification and survey requirements of any previous NPDES permit.

A timetable shall be prepared by the permittee and submitted with the Master Plan. This timetable shall include appropriate intermediate tasks and predicted completion dates. The following dates and task descriptions shall form the basic timetable structure for program development. Other tasks and dates established by the permittee may be modified at the permittee's discretion.

Notice is hereby given that upon State approval, the permit shall be modified to incorporate the local pretreatment program.

PART I, Section B-1b

b. On or before (submitted Oct. 1983) submit the results of a User Survey which includes the identification of NonDomestic Users of the waste collection system. The submittal shall designate various NonDomestic Users as Major Users and explain the rationale used in the designation. For all NonDomestic Users the following information shall be included:

(1) The name and mailing address of all NonDomestic Users of the waste collection system, including both local facility address and main office address, if different.

(2) The principal enterprise of the user, including if appropriate, the product(s) produced or raw material(s) processed and the quantity per unit time. An indication of the magnitude of the enterprise should be given. All facilities in industrial classifications identified by EPA as being subject to pretreatment control shall be identified by Standard Industrial Classification code (SIC) (see attachment A for SIC listing).

(3) The quantity of wastewater discharged daily and whether the discharge is intermittent or continuous.

(4) A description of any pretreatment provided prior to discharge to the waste collection system.

(5) A qualitative description of the wastewater character in terms of appropriate parameters and concentrations (see attachment B for possible pollutant parameters of concern).

(6) A list of all chemicals used for process, cooling water, boiler water, or other purposes with an indication of quantity used and disposition of spent chemicals.

c. On or before (submitted Oct. 1983) submit for approval draft versions of sewer use ordinances, statutes, contracts and/or joint powers agreements necessary to provide the permittee with legal authorities described in 40 CFR 403.8(f)(1)(i) through (vi) throughout the area served by the permittee's facility.

The legal authorities shall enable the permittee to:

(1) Deny or condition new or increased contributions of pollutants, or changes in the nature of pollutants, to the waste collection system by Industrial and NonDomestic Users.

(2) Require compliance with applicable National Pretreatment Standards and other more restrictive requirements as may be imposed by the permittee.

(3) Control, through permit, contract, order, or similar means, the contribution to the waste collection system by Industrial and NonDomestic Users.

PART I, Section B-1c

(4) Require the development of compliance schedules by Industrial and NonDomestic Users for the installation of facilities required to meet applicable National Pretreatment Standards and other more restrictive requirements as may be imposed by the permittee.

(5) Require the submission of notices and self-monitoring reports from Industrial and NonDomestic Users to assess and assure compliance with National Pretreatment Standards and other more restrictive requirements as may be imposed by the permittee.

(6) Carry out all inspection, surveillance and monitoring procedures necessary to determine, independent of information supplied by Industrial and NonDomestic Users, compliance or noncompliance with applicable National Pretreatment Standards and other more restrictive requirements as may be imposed by the permittee.

(7) Seek injunctive relief for noncompliance with National Pretreatment Standards and other more restrictive requirements as may be imposed by the permittee.

(8) Require Industrial and NonDomestic Users to install containment facilities to protect the treatment works from accidental spills of critical or hazardous materials.

d. On or before September 30, 1984 submit for approval and request approval to implement the complete Industrial Waste Pretreatment and NonDomestic User Control Program. A request for program approval shall be accompanied with:

(1) Applicable statutues, ordinances, permits, contracts, etc.

(2) A detailed description of mechanisms, proposed to enforce the compliance schedules developed for NonDomestic Users.

(3) Inspection and monitoring program procedures to assess compliance or noncompliance with National Pretreatment Standards and other more restrictive requirements as may be imposed by the permittee.

(4) A detailed description of mechanisms proposed to remedy non-compliance with the National Pretreatment Standards, and other more restrictive requirements as may be imposed by the permittee including administrative relief and injunctive relief.

(5) A listing of monitoring and analytical equipment needs required to implement the local program.

e. Implement and enforce the approved Industrial Waste Pretreatment and NonDomestic User Control Program within one month after approval by the Surface Water Quality Division.

PART I, Section B

2. Progress Reports

Progress Reports shall be submitted every six (6) months to summarize progress in achieving the major compliance dates (enumerated in paragraph 1 above) and projected timetable submitted by the permittee along with the Master Plan. These reports shall include a NonDomestic User List and Major User List update. The first report is due on or before February 1, 1981. Progress reporting requirements shall cease with the approval of the Industrial Waste Pretreatment and NonDomestic User Control Program and shall be replaced by Compliance Reports.

3. Compliance Reports

Compliance Reports shall be submitted every six (6) months to summarize the enforcement activities undertaken and surveillance performed by the permittee concerning the approved Industrial Waste Pretreatment and NonDomestic User Control Program. These reports shall discuss the progress by the Major Users in achieving adequate pretreatment. These reports shall also update the NonDomestic User List and the Major User List. The first Compliance Reports are due six months following approval of the Industrial Waste Pretreatment and NonDomestic User Control Program and shall continue for the duration of this permit.

4. Removal Credit

The permittee may request a removal credit be granted from National Categorical Pretreatment Standards if:

a. consistent removal is substantiated; and

b. no adverse impact is created by the treatment facility discharge; and

c. no adverse impact is created on the residuals management program.

(For additional details and reporting requirements, see 40 CFR 403.7 and 40 CFR 403.12 h, i, j and l, m, n.)

PERMIT CONDITIONS

PART I

C. PROGRAM FOR EFFECTIVE RESIDUALS MANAGEMENT

In addition to the requirements in Part II, Section C-8, herein, the permittee shall provide for the effective management and/or disposal of residuals, i.e., solids, sludges, ash, grit and other substances removed from or resulting from treatment of the wastewater. Residuals disposal shall be accomplished in such manner and at such locations that the disposal practices shall not result in unlawful pollution of the air, surface waters or ground waters of the state nor create nuisance conditions. Such management and/or disposal program shall be set forth in a "Program for Effective Residuals Management" prepared by the permittee.

The program shall include:

1.) a management plan (treatment, transportation, storage, disposal, contingency plans);

2.) an inventory of residuals production, storage, and disposal for a period of at least one year;

3.) an analysis of the residuals;

4.) a monitoring program;

5.) if land application is proposed, site maps, soil analyses, application rates, proposed vegetation, and other pertinent information; and

6.) if ground water degradation potential exists, a hydrogeologic study.

The program shall be submitted to and receive the approval of the Chief of the Surface Water Quality Division on or before May 31, 1985.

Subsequent to approval, disposal of residuals resulting from treatment of wastewater shall be in accordance with the program. If the permittee desires to make any substantial changes in the program, such proposed changes shall be submitted to and approved by the Chief of the Surface Water Quality Division prior to implementation. Substantial changes shall include but not be limited to: a change in disposal method or site; a change in treatment method; a change in storage method or site; a change in monitoring parameters or monitoring frequency; an increase in application rate; or a change in residuals quantity or characteristics. Any residual disposal inconsistent with the approved program shall be considered a violation of this permit.

PART I

D. SCHEDULE OF COMPLIANCE

1. Facility Construction

In accordance with Section 301(i)(1) of the Act, it has been demonstrated that an extension to achieve compliance with limitations under 301(b)(1)(B) or 301(b)(1)(C) should be granted. Therefore, the following Schedule of Compliance for achieving the final effluent limitations is established.

The permittee shall achieve compliance with the Final Effluent Limitations specified in this permit for outfall(s) 001 in accordance with the following:

a. Submit final plans and specifications for construction of the proposed facilities to the Chief of ths Surface Water Quality Division and receive his approval on or before June 1, 1985.

b. Commence construction on or before September 1, 1986.

c. Construction shall be completed on or before March 1, 1988.

d. Facilities shall achieve operational level on or before July 1, 1988.

e. Submit a status report on the progress of project planning, design and construction at intervals not to exceed nine months beginning on March 1, 1985 and continuing until full compliance with the Final Effluent Limitations is achieved.

PART I

D. SCHEDULE OF COMPLIANCE

2. Alternative Power Sources

a. The permittee shall submit an Alternative Power Source Report to the Chief of the Surface Water Quality Division for approval documenting compliance with the requirements of Part II, Section C-9 (Power Failures) of this permit on or before May 31, 1985.

The report shall (1) identify all essential treatment equipment and pumping stations utilized for transportation and treatment of wastes collected within the service area of the facility governed by this permit, and (2) document the alternative power source, or other means of providing continuity of service during periods of power failures, for each essential item identified.

b. If notified by the Surface Water Quality Division that the Alternative Power Source Report submitted by the permittee indicates a lack of adequate alternative power at the permittee's facilities, then the permittee shall submit to the Chief of the Surface Water Quality Division an approvable plan and schedule for providing adequate alternative power within three (3) months after being so notified. The approved plan and schedule shall become an enforceable part of this permit.

PERMIT CONDITIONS

PART I

D. SCHEDULE OF COMPLIANCE

3. Written Report Required

Within 14 days of every program requirement date specified in this permit the permittee shall submit a written report to the Chief of the Surface Water Quality Division stating whether or not the particular task was accomplished. If the task was not accomplished, the report shall also include: an explanation of the failure to accomplish the task, actions taken by the permittee to correct the situations, and an estimate of when the task will be accomplished.

If the task requires submission of a written report and the task was accomplished, a separate written report is not required.

PERMIT CONDITIONS

PART II

A. REPORTING, DEFINITIONS, AND MONITORING

1. Reporting

The permittee shall effectively monitor the operation of all processes comprising the treatment and control facilities. Monitoring data required by this permit and other data required by the Surface Water Quality Division shall be tabulated and summarized on a calendar month basis. Monthly reports, on forms or format supplied by the Surface Water Quality Division, shall be mailed to the address below, postmarked no later than the tenth (10th) of the first month following the report period.

Department of Natural Resources
Data Center
P.O. Box 30028
Lansing, Michigan 48909

2. Definitions

a. 30-Day Average Concentration

The 30-day average concentration other than for fecal or total coliform bacteria, is defined as the sum of the concentrations of the individual samples divided by the number of samples taken during a calendar month. The 30-day average concentration for fecal or total coliform bacteria is the geometric mean of the samples collected in a calendar month.

b. 7-Day Average Concentration

The 7-day average concentration other than for fecal or total coliform bacteria, is defined as the sum of the concentrations of the individual samples divided by the number of samples taken during any 7 consecutive day period of a calendar month. The 7-day average concentration for fecal or total coliform bacteria is the geometric mean of the samples collected in any 7 consecutive day period of a calendar month.

c. 30-Day Average Load

The 30-day average load is defined as the sum of the weights of pollutants discharged on sampling days divided by the number of sampling days during a calendar month.

d. 7-Day Average Load

The 7-day average load is defined as the sum of the weights of pollutants discharged on sampling days divided by the number of sampling days during any 7 consecutive days in a calendar month.

PART II, Section A-2

e. Maximum Concentration

The maximum concentration limitation is defined as the permissible maximum concentration of a pollutant in any individual sample.

f. Maximum Load

The maximum load limitation is defined as the permissible maximum weight of a pollutant discharged in any single day.

g. 24-Hour Composite Sample

24-hour composite sample is defined as a flow proportioned composite sample consisting of hourly or more frequent portions.

h. Grab Sample

Grab sample is defined as a single sample of wastewater taken at neither set time nor flow.

i. Non-Domestic User

A Non-Domestic User is defined as any discharger to the permittee's treatment works that discharges wastes other than or in addition to water-carried wastes from toilet, kitchen, laundry, bathing or other facilities used for household purposes.

j. Major User

A Major User is defined as a Non-Domestic User that:

(1) discharges more than 10,000 gallons per average working day to the permittee's treatment works;
(2) discharges any toxic or hazardous materials such as, but not limited to, those listed in Attachment B, or
(3) discharges any substance that may cause interference with the operation of the treatment works, and

is considered to be of significance to the overall treatment and disposal processes.

k. Interference

Interference is defined as any inhibition or disruption of the permittee's sewer system, treatment process, operations, or residuals management program, which may contribute to a violation of the NPDES permit.

l. National Pretreatment Standards

National Pretreatment Standards are defined as the regulations promulgated by or to be promulgated by the Federal Environmental Protection Agency pursuant to Section 307(b) and (c) of the Act. The standards establish nationwide limits for specific industrial categories for discharge to Publicly Owned Treatment Works.

PART II, Section A-2

m. Pretreatment

Pretreatment is defined as reducing the amount of pollutants, eliminating pollutants, or altering the nature of pollutant properties to a less harmful state prior to discharge into a public sewer. The reduction or alteration can be by physical, chemical, or biological processes, process changes, or by other means. Dilution is not considered pretreatment unless expressly authorized by an applicable National Pretreatment Standard for a particular industrial category.

n. Water Quality Standards

The Water Quality Standards are defined as Part 4 of the General Rules of the Michigan Water Resources Commission promulgated by authority of Sections 2 and 5 of the Michigan Act.

3. Monitoring

a. The analytical test procedures used shall conform to the rules and regulations promulgated under Section 304(h) of the "Act" (Title 40, Chapter 1, Subchapter D., Part 136-Guidelines Establishing Test Procedures for the Analysis of Pollutants). Copies are available from the Surface Water Quality Division on request. For parameters not covered by the regulations, test procedures shall be approved by the Surface Water Quality Division.

b. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to ensure accuracy of measurements.

c. Fecal or Total Coliform analyses, at facilities using chlorine for disinfection, shall be performed on "grab" samples collected at varying times during an operating day. Information derived therefrom shall be correlated with chlorine residual levels, flow rate, and loading variations for the purpose of minimizing chlorine use, while maintaining compliance with the effluent limitations.

4. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

a. The exact place, date, and time of sampling;

b. The dates the analyses were performed;

c. The person(s) who performed the analyses;

d. The analytical techniques or methods used; and

e. The results of all required analyses.

PART II, Section A

5. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Monthly Operating Report.

6. Records Retention

All records and information resulting from the monitoring activities required by this permit, including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation, shall be retained for a minimum of three (3) years or longer if requested by the Surface Water Quality Division or the Regional Administrator.

B. PERMIT PROGRAM ADMINISTRATION

1. Michigan Water Resources Commission

The Michigan Water Resources Commission has been designated the authority to administer the NPDES permit program in the State of Michigan.

2. Regional Administrator

Where used within this permit, the term Regional Administrator shall mean the Administrator, Region V, U.S. Environmental Protection Agency, 230 South Dearborn Street, Chicago, Illinois, 60604.

3. N.P.D.E.S.

NPDES is defined as the National Pollutant Discharge Elimination System pursuant to Section 402 of the Federal Water Pollution Control Act as amended (33 U.S.C. 1251 et seq, P.L. 92-500, 95-217).

4. Surface Water Quality Division

The Surface Water Quality Division of the Michigan Department of Natural Resources provides the staff for the administration of the NPDES program by the Michigan Water Resources Commission. Reports, notifications, and questions regarding this permit or the NPDES program should be addressed to the appropriate district office of the Surface Water Quality Division.

C. MANAGEMENT REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than, or at a level in excess of that authorized, shall constitute a violation of the permit. Any anticipated significant loading increase, facility expansions, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the Surface Water Quality Division of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

PART II, Section C

2. Containment Facilities

The permittee shall provide facilities approved under Act 98, Public Acts of 1913 as amended, and in accordance with the requirements of the Michigan Water Resources Commission Rules, Part 5, for containment of any accidental losses of concentrated solutions, acids, alkalies, salts, oils, or other polluting materials.

3. Operator Certification

The permittee shall have the waste treatment facilities under the direct supervision of an operator certified by the Michigan Department of Natural Resources as required by Regulations Governing the Certification of Sewage Treatment Works Operators in accordance with Act 98, Public Acts of 1913, as amended (R 299.2911 - R 299.2927).

4. Non-compliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any condition specified in this permit, the permittee shall provide the Surface Water Quality Division and the Regional Administrator with the following information, in writing, at the time of submittal of the monthly operating data:

a. A description of the circumstances and cause of non-compliance; and

b. The period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the non-compliance.

5. Facilities Operation

All waste collection, control, treatment and disposal facilities shall be operated in a manner consistent with the following:

a. At all times, all facilities shall be operated and maintained in an efficient and responsible manner.

b. The permittee shall provide an adequate operating staff which is qualified to carry out the operation, maintenance and testing functions required to ensure compliance with this permit.

c. Maintenance of treatment facilities shall not result in degradation of effluent quality.

d. Under no circumstances shall the permittee allow introduction of the following wastes into the waste treatment system:

(1) Wastes which create or can create a fire or explosion hazard-defined as being greater than 20% of the lower explosive limit (LEL) for the substance.

(2) Wastes which create or cause corrosive structural damage.

(3) Wastes with pH lower than 5.0 or greater than 11.0.

PART II, Section C-5d.

(4) Solid or viscous substances in amounts which cause obstructions to the flow in collecting or intercepting sewers or interference with the proper operation of the treatment works.

(5) Any pollutant, including oxygen demanding substances released in a discharge of such volume or strength which causes interference in the treatment works.

(6) Heat in such amounts that biological activity is inhibited at the treatment works resulting in interference. The discharge of heat must be regulated so that the temperature at the treatment works influent does not exceed 40^{0} C (104^{0} F).

6. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to waters of the state resulting from non-compliance with this permit. Such steps may include accelerated or additional monitoring as necessary to determine the nature and impact of the non-compliance.

7. By-passing or Accidental Losses

Any diversion from or by-pass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited, except (i) where unavoidable to prevent loss of life, severe property damage, extended duration process upset, or (ii) where excessive flow would damage any facilities necessary for compliance with the effluent limitations of this permit. The permittee shall promptly notify the Surface Water Quality Division of any such by-pass, or any accidental loss of pollution materials by telephone at 1-800-292-4706. Such notice shall be supplemented by a written report within five (5) days detailing the cause of such diversion, by-pass, or loss, and the corrective actions taken to minimize adverse impacts and eliminate the cause for future diversion, by-pass or loss.

8. Waste Treatment Residues

Solids, sludges, ashes, filter backwash, scrubber water, or other pollutants resulting from the treatment or control of wastewaters shall be disposed in an environmentally compatible manner. Such disposal shall not result in degradation of any surface waters or groundwaters of the state. Additional monitoring may be required to confirm the adequacy of disposal.

9. Power Failures

In order to maintain compliance with the effluent limitations and prevent unauthorized discharges the permittee shall:

a. Provide alternative power or equipment sufficient to operate essential facilities utilized by permittee to comply with this permit in accordance with Design Criteria for Mechanical, Electric, and Fluid System and Component Reliability published by the Federal Environmental Protection Agency (EPA - 430-99-74-001), or

b. Upon the reduction, loss, or failure of one or more of the primary sources of power to facilities utilized by the permittee to maintain compliance with this permit, the permittee shall halt, reduce or otherwise control all discharges in order to maintain compliance with the effluent limitations and conditions of this permit.

PART II, Section D

D. RESPONSIBILITIES

1. Right of Entry

The permittee shall allow the Michigan Water Resources Commission, the Regional Administrator and/or their authorized representatives, upon presentation of credentials:

a. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and

b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

2. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharge emanates, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Surface Water Quality Division and the Regional Administrator 30 days prior to the actual transfer of control or ownership.

3. Availability of Reports

All reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Surface Water Quality Division and the Regional Administrator. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act, Sections 7 and 10 of the Michigan Act, and Sections 8 and 13 of Act 98, Public Acts of 1913, as amended.

4. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

a. Violation of any terms or conditions of this permit;

b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;

c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge; or

d. The establishment of a toxic effluent standard or prohibition under Section 307(a) of the Act more stringent than any limitation in this permit.

5. Civil and Criminal Liability

Except as provided in permit conditions on "By-passing" (Part II, C-7), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for non-compliance.

PART II, Section D

6. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor infringement of Federal, State or local laws or regulations.

7. Facility Construction

This permit does not authorize or approve the construction or modification of any physical structures or facilities. Approval for such construction must be by permit issued under Act 98, Public Acts of 1913, as amended.

8. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

ATTACHMENT A

STANDARD INDUSTRIAL CLASSIFICATION CODES

Note: This is an edited list.

Code	Title
	AGRICULTURE
0100	AGRICULTURAL PRODUCTION—CROPS
0200	AGRICULTURAL PRODUCTION—LIVESTOCK
0211	Beef Cattle Feedlots
0241	Dairy farms
0700	AGRICULTURAL SERVICES
	MINING
1000	METAL MINING
1011	Iron Ores
1021	Copper ores
1081	Metal mining services
1300	OIL AND GAS EXTRACTION
1380	Oil and Gas Field Services
1400	NONMETALIC MINERALS
1422	Crushed and broken limestone
1440	Sand and Gravel
1450	Clay and Related Minerals
1470	Chemical and Fertilizer Minerals
1492	Gypsum
	CONSTRUCTION
1500	GENERAL BUILDING CONTRACTORS
1600	HEAVY CONSTRUCTION CONTRACTORS
	MANUFACTURING
2000	FOOD AND KINDRED PRODUCTS
2010	Meat Products
2011	Meat packing plants and slaughter houses
2020	Dairy Products
2030	Preserved Fruits & Vegetables
2033	Canned fruits and vegetables
2035	Pickles sauces and salad dressings
2037	Frozen fruits and vegetables
2040	Grain Mill Products
2043	Cereal breakfast foods
2047	Dog, cat and other pet food
2050	Bakery Products
2060	Sugar and Confectionary Products
2063	Beet sugar
2070	Fats and Oils
2076	Vegetable oil mills
2077	Animal and marine fats & oils
2080	Beverages
2082	Malt beverages
2084	Wines, brandy, and brandy spirits
2085	Distilled liquor except brandy
2086	Bottled and canned soft drinks
2087	Flavoring extracts and sirups nec
2090	Misc Foods and Kindred Products
2091	Canned and cured seafoods
2092	Fresh or frozen packaged fish
2200	TEXTILE MILL PRODUCTS
2300	APPAREL AND OTHER TEXTILE PRODUCTS
2400	LUMBER AND WOOD PRODUCTS
2420	Sawmills and Planing Mills
2430	Millwork Plywood & Structural Members
2440	Wood Containers
2448	Wood pallets and skids
2450	Wood Buildings and Mobile Homes
2490	Miscellaneous Wood Products
2491	Wood preserving
2492	Particleboard
2500	FURNITURE AND FIXTURES
2600	PAPER AND ALLIED PRODUCTS
2611	Pulp mills
2621	Paper mills except building paper
2631	Paperboard mills
2640	Misc Converted Paper Products
2650	Paperboard Containers and Boxes
2661	Building paper and board mills
2700	PRINTING AND PUBLISHING
2710	Newspapers
2750	Commercial Printing
2790	Printing Trade Services
	Manufacturing-cont'd
2800	CHEMICALS AND ALLIED PRODUCTS
2810	Industrial Inorganic Chemicals
2820	Plastics Materials and Synthetics
2830	Drugs
2840	Soap, Cleaners, and Toilet Goods
2850	Paints and Allied Products
2860	Industrial Organic Chemicals
2870	Agricultural Chemicals
2890	Miscellaneous Chemical Products
2891	Adhesives and sealants
2892	Explosives
2893	Printing inks
2899	Salt (by evaporation)
2900	PETROLEUM AND COAL PRODUCTS
2911	Petroleum refining
2950	Paving and Roofing Materials
3000	RUBBER AND MISC PLASTIC PRODUCTS
3011	Tires and inner tubes
3069	Fabricated rubber products
3079	Miscellaneous plastic products
3100	LEATHER AND LEATHER PRODUCTS
3111	Leather tanning and finishing
3200	STONE CLAY AND GLASS PRODUCTS
3220	Glass and Glassware Pressed or Blown
3241	Cement
3250	Structural Clay Products
3260	Pottery and Related Products
3270	Concrete, Gypsum, and Plaster Products
3271	Concrete block and brick
3273	Ready-mixed concrete
3274	Lime
3275	Gypsum products
3290	Misc Nonmetallic Mineral Products
3291	Abrasive products
3292	Asbestos products
3295	Minerals, ground or treated
3297	Nonclay refractories
3300	PRIMARY METAL INDUSTRIES
3310	Blast Furnaces and Basic Steel Products
3312	Blast furnaces and steel mills
3313	Electrometallurgical products
3315	Steel wire and related products
3316	Cold finishing of steel shapes
3317	Steel pipe and tubes
3320	Iron and Steel Foundries
3321	Gray iron foundries
3322	Malleable iron foundries
3330	Primary Nonferrous Metals
3331	Primary copper
3332	Primary lead
3333	Primary zinc
3334	Primary aluminum
3340	Secondary Nonferrous Metals
3360	Die Casting
3361	Aluminum foundries
3362	Brass bronze and copper foundries
3390	Miscellaneous Primary Metal Products
3398	Metal heat treating
3400	FABRICATED METAL PRODUCTS
3410	Metal Cans and Shipping Containers
3420	Cutlery Hand Tools, and Hardware
3430	Plumbing and Heating, Except Electric
3440	Fabricated Structural Metal Products
3442	Metal doors sash and trim
3443	Fabricated plate work (boiler shops)
3444	Sheet metal work
3450	Screw Machine Products, Bolts, etc
3460	Metal Forgings and Stampings
3462	Iron and steel forgings
3463	Nonferrous forgings
3465	Automotive stampings
3470	Metal Services
3471	Plating and polishing
3479	Metal coating and allied services
3480	Ordnance and Accessories
3490	Misc Fabricated Metal Products
3500	MACHINERY EXCEPT ELECTRICAL
3510	Engines and Turbines
3520	Farm and Garden Machinery
3530	Construction and Related Machinery
3540	Metalworking Machinery
3550	Special Industry Machinery
3560	General Industrial Machinery
3570	Office and Computing Machines
3580	Refrigeration and Service Machinery
3590	Misc Machinery Except Electrical
3600	ELECTRIC AND ELECTRONIC EQUIPMENT
3610	Electric Distributing Equipment
3620	Electrical Industrial Apparatus
3630	Household Appliances
3640	Electric Lighting and Wiring Equipment
3650	Radio and TV Receiving Equipment
3660	Communication Equipment
3670	Electronic Components and Accessories
3690	Misc Electrical Equipment & Supplies
	Manufacturing-cont d
3700	TRANSPORTATION EQUIPMENT
3710	Motor Vehicles and Equipment
3711	Motor vehicles and car bodies
3714	Motor vehicle parts and accessories
3715	Truck trailors
3720	Aircraft and Parts
3730	Ship and Boat Building and Repairing
3740	Railroad Equipment
3750	Motorcycles Bicycles and Parts
3760	Guided Missles Space Vehicles Parts
3790	Miscellaneous Transportation Equipment
3792	Travel Trailers and campers
3795	Tanks and Tank Components
3800	INSTRUMENTS AND RELATED PRODUCTS
3810	Engineering and Scientific Instruments
3820	Measuring and Controlling Devices
3830	Optical Instruments and Lenses
3840	Medical Instruments and Supplies
3860	Photographic Equipment and Supplies
3900	MISCELLANEOUS MANUFACTURING INDUSTRIES
3910	Jewelry, Silverware, and Plated Ware
3930	Musical Instruments
3940	Toys and Sporting Goods
3950	Pens, Pencils, Office and Art Supplies
3990	Miscellaneous Manufactures
	TRANSPORTATION
4010	RAILROADS
4200	TRUCKING AND WAREHOUSING
4210	Trucking, Local and Long Distance
4214	Hauling Liquid Wastes
4221	Farm product warehousing and storage
4222	Refrigerated Warehousing
4230	Trucking Terminal Facilities
4400	WATER TRANSPORTATION
4430	Great Lakes Transportation
4440	Transportation on Rivers and Canals
4452	Ferries
4454	Towing and tugboat service
4460	Water Transportation Services
4463	Marine cargo handling
	SERVICES
4900	ELECTRIC, GAS AND SANITARY SERVICES
4911	Electric services
4925	Gas production and/or distribution
4953	Refuse systems
5810	EATING AND DRINKING PLACES
6512	OFFICE BUILDINGS
7000	HOTELS AND OTHER LODGING PLACES
7011	Hotels, motels and tourist courts
7030	Camps and Trailering Parks
7032	Sporting and recreational camps
7210	Laundry Cleaning & Garment Services
7215	Coin-operated laundries
7391	Laboratories — Testing and Research
7399	Water Softener Service
7500	AUTO REPAIR SERVICES AND GARAGES
7530	Automotive Repair Shops
7542	Car washes
7900	AMUSEMENT & RECREATION SERVICES
7933	Bowling alleys
7940	Commercial Sports
7941	Sports clubs and promoters
7948	Racing including track operation
7992	Public golf courses
7996	Amusement parks
7997	Membership sports & recreation clubs
8000	HEALTH SERVICES
8050	Nursing and Personal Care Facilities
8060	Hospitals
8070	Medical and Dental Laboratories
8080	Outpatient Care Facilities

Federal EPA's List of 65 Priority Pollutants

Acenaphthene
Acrolein
Acrylonitrile
Aldrin/Dieldrin
Antimony and compounds
Arsenic and compounds
Asbestos
Benzene
Benzidine
Beryllium and compounds
Cadmium and compounds
Carbon tetrachloride
Chlordane (technical mixture and metabolites)
Chlorinated benzenes (other than dichlorobenzenes)
Chlorinated ethanes (including 1, 2-dichloroethane, 1, 1, 1-trichloroethane, and hexachloroethane)
Chloralkyl ethers (chloromethyl, chloroethyl, and mixed ethers)
Chlorinated naphthalene
Chlorinated phenols (other than those listed elsewhere; includes trichlorophenols and chlorinated cresols)
Chloroform
2-chlorophenol
Chromium and compounds
Copper and compounds
Cyanides
DDT and metabolites
Dichlorobenzenes (1, 2-,1,3-, and 1,4-dichlorobenzenes)
Dichlorobenzidine
Dichloroethylenes (1,1-and 1,2-dichloroethylene)
2,4-dichlorophenol
Dichloropropane and dicloropropene
2,4-dimethylphenol
Dinitrotoluene
Diphenylhydrazine
Endosulfan and metabolites
Endrin and metabolites
Ethylbenzene
Fluoranthene
Haloethers (other than those listed elsewhere; includes chlorophenylphenyl ethers, bromophenylphenyl ether, bis (dischloroisopropyl) ether, bis-(chloroethoxy) methane and polychlorinated diphenyl ethers)
Halomethanes (other than those listed elsewhere; includes methylene chloride, methychloride, methylbromide, bromoform, dichlorobromomethane, trichlorofluoromethane, dichlorodifluoromethane)
Heptachlor and metabolites
Hexachlorobutadiene
Hexachlorocyclohexane (all isomers)
Hexachlorocyclopentadiene
Isophorone
Lead and compounds
Mercury and compounds
Naphthalene
Nickel and compounds
Nitrobenzene
Nitrophenols (including 2,4-dinitrophenol, dinitrocresol)
Nitrosamines
Pentachlorophenol
Phenol
Phthalate esters
Polychlorinated biphenyls (PCBs)
Polynuclear aromatic hydrocarbons (including benzathracenes, benzopyrenes, benzofluoranthene, chrysesnes, dibenzanthracenes, and indenopyrenes)
Selenium and compounds
Silver and compounds
2,3,7,8,-Tetrachlorodibenzo-p-dioxin (TCDD)
Tetrachloroethylene
Thallium and compounds
Toluene
Toxaphene
Trichloroethylene
Vinyl chloride
Zinc and compounds

ATTACHMENT B

Michigan Water Resources Commission
CRITICAL MATERIALS REGISTER
Published October 1, 1983

With the exception of critical material classes (where all compounds of the material are to be reported) the parameter number assigned each Critical Material is from the Chemical Abstract Service "Registry Handbook." Additional information concerning the Critical Materials Program and the individual materials may be obtained by writing:

Critical Materials Program
Toxic Chemical Evaluation Section
Environmental Services Division
Michigan DNR
P.O. Box 30028
Lansing, Michigan 48909

I. Inorganic Materials

A. The following inorganic materials and *all their compounds* are to be reported.

	Parameter Number
antimony	Class-01-0
arsenic	Class-01-1
beryllium	Class-01-2
cadmium	Class-01-3
chromium	Class-01-5
cobalt	Class-01-6
copper	Class-01-7
cyanides	Class-01-8
hypochlorite	Class-01-4
lead	Class-01-9
lithium	Class-02-0
mercury	Class-02-1
nickel	Class-02-2
selenium	Class-02-3
silver	Class-02-4
zinc	Class-02-7

B. The following specific inorganic materials are to be reported (do not report compounds).

chloramines	Class-08-6
chlorine	07782-50-5
hydrazine	00302-01-2
hydrogen sulfide	07783-06-4

II. Organic Materials

	Parameter Number
acetone cyanohydrin	00075-86-5
2-acetylaminofluorene	00053-96-3
acrolein	00107-02-8
acrylic acid	00079-10-7
acrylonitrile	00107-13-1
allyl chloride	00107-05-1
2-aminoanthraquinone	00117-79-3
aminoazobenzene	00060-09-3
o-aminoazotoluene	00097-56-3
4-aminobiphenyl	00092-67-1
3-amino-9-ethylcarbazole	00132-32-1
1-amino-2-methylanthraquinone	00082-28-0
aminotriazole (amitrole)	00061-82-5
aniline	00062-53-3
o-anisidine	00090-04-0
o-anisidine hydrochloride	00134-29-2
benz(a)anthracene	00056-55-3
benzene	00071-43-2
benzidine	00092-87-5
benzidine salts	Class-08-7
benzo(a)pyrene	00050-32-8
brucine	00357-57-3
carbon tetrachloride	00056-23-5
chlorinated dibenzofurans	Class-05-3
chlorinated dioxins	Class-05-4
1-chloro-2,3-epoxypropane	00106-89-8
bis(2-chloroethyl)ether	00111-44-4
chloroform	00067-66-3
bis(chloromethyl)ether	00542-88-1
3-(chloromethyl)pyridine hydrochloride	06959-48-4
p-chlorophenol	00106-48-9
1-(4-chlorophenyl)-3, 3-dimethyl triazene	07203-90-9
4-chloro-m-phenylenediamine	05131-60-2
4-chloro-o-phenylenediamine	00095-83-0
chloroprene	00126-99-8
5-chloro-o-toluidine	00095-79-4
p-cresidine (5-methyl-o-anisidine)	00120-71-8
2,4-diaminoanisole sulfate	39156-41-7
4,4'-diaminodiphenyl ether	00101-80-4
2,4-diaminotoluene	00095-80-7
dibenz(a,h)anthracene	00053-70-3
tris(dibromopropyl)phosphate	00126-72-7
di-n-butyl phthalate	00084-74-2
3,3'-dichlorobenzidine	00091-94-1
3,3'-dichlorobenzidine salts	Class-08-8
1,2-dichloroethane	00107-06-2
2,4-dichlorophenol	00120-83-2
1,2:3,4-diepoxybutane	00298-18-0
diethyl sulfate	00064-67-5
4-dimethylaminoazobenzene	00060-11-7
dimethylhydrazines	Class-06-2
4,6-dinitro-o-cresol	00534-52-1
-dinitrophenol	00051-28-5
2,4-dinitrotoluene	00121-14-2
di-n-octyl phthalate	00117-84-0
1,4-dioxane	00123-91-1
2,3-epoxy-1-propanal	00765-34-4
ethylene dibromide	00106-93-4
ethyleneimine	00151-56-4
ethylene oxide	00075-21-8
ethylene thiourea	00096-45-7
bis(2-ethylhexyl)phthalate	00117-81-7
ethylmethanesulfonate	00062-50-0
2-(2-formylhydrazino)-4-(5-nitro-2-furyl)-thiazole	03570-75-0
hexachlorobenzene (HCB)	00118-74-1
hexachlorobutadiene	00087-68-3
hexachlorocyclohexane	00608-73-1
hexachlorocyclopentadiene	00077-47-4
hexachloroethane	00067-72-1
hydrazobenzene	00122-66-7
hydroquinone	00123-31-9
N-(2-hydroxyethyl)ethylenimine	01072-52-2
lactonitrile	00078-97-7
malachite green (C.I. Basic Green 4)	00569-64-2
methylenebis(2-chloroaniline)	00101-14-4

Permit No. MI 0023744

MIXING ZONE

Discharge Identification	City of Otsego Wastewater Treatment Plant
Discharge Location	Section 22, T1N, R12W
Receiving Stream	Kalamazoo River
Outfall Number	001

For the purpose of determining effluent limits for conventional pollutants and ammonia nitrogen as a toxicant, 100% of the drought flow of the receiving stream is used for mixing with the discharge.

For the purpose of determining effluent limits for toxic pollutants, 25% of the drought flow of the receiving stream is used for mixing with the discharge.

Water Quality in the mixing zone resulting from this discharge shall not cause an irreversible response which results in deleterious effects to populations of aquatic life or wildlife. The mixing zone shall not prevent the passage of fish and fishfood organisms in a manner which would result in adverse impacts on their immediate or future populations.

Organic Materials (continued)	Parameter Number
4,4'-methylenebis(2-methylaniline)	00838-88-0
4,4'-methylenebis(N,N-dimethylaniline	00101-61-1
1,2-(methylenedioxy)-4-propenyl benzene	00120-58-1
methyl hydrazine	00060-34-4
methyl mercaptan	00074-93-1
1-methylnaphthalene	00090-12-0
2-methyl-1-nitroanthraquinone	00129-15-7
mustard gas	00505-60-2
1,5-naphthalenediamine	02243-62-1
1-naphthylamine	00134-32-7
2-naphthylamine	00091-59-8
5-nitroacenaphthene	00602-87-9
5-nitro-o-anisidine	00099-59-2
4-nitrobiphenyl	00092-93-3
nitrogen mustard	00051-75-2
N-nitroso-n-butyl-N-(4-hydroxybutyl) amine	03817-11-6
N-nitroso-di-n-butylamine	00924-16-3
N-nitrosodiethylamine	00055-18-5
N-nitrosodimethylamine	00062-75-9
p-nitrosodiphenylamine	00156-10-5
N-nitroso-N-ethylurea	00759-73-9
N-nitroso-N-methylurea	00684-93-5
N-nitroso-N-methylurethane	00615-53-2
N-nitrosomorpholine	00059-89-2
N-nitroso-N-phenylhydroxylamine, ammonium salt	00135-20-6
N-nitrososarcosine	13256-22-9
pentachloronitrobenzene	00082-68-8
pentachlorophenol	00087-86-5
peroxyacetic acid	00079-21-0
piperonyl sulfoxide	00120-62-7
polybrominated biphenyls (PBB)	Class-07-8
polychlorinated biphenyls (PCB)	Class-07-9
1,3-propane sultone	01120-71-4
B-propiolactone	00057-57-8
5-propyl-1,3-benzodioxole	00094-58-6
propyleneimine	00075-55-8
semicarbazide	00057-56-7
styrene	00100-42-5
1,1,2,2-tetrachloroethane	00079-34-5
tetrachloroethylene (perchloroethylene)	00127-18-4
thioacetamide	00062-55-5
4,4'-thiodianiline	00139-65-1
thiourea	00062-56-6
o-toluidine	00095-53-4
o-toluidine hydrochloride	00636-21-5
triaryl phosphate esters	Class-08-4
1,1,2-trichloroethane	00079-00-5
trichloroethylene	00079-01-6
2,4,5-trichlorophenol	00095-95-4
2,4,6-trichlorophenol	00088-06-2
2,4,5-trimethylaniline	00137-17-7
trimethylphosphate	00512-56-1
xylene	01330-20-7

III. Pesticides (to be reported only by manufacturers and formulators).

	Parameter Number
aldicarb	00116-06-3
aldrin	00309-00-2
4-aminopyridine	00504-24-5
anilazine	00101-05-3
antimycin A	01397-94-0
azinphos-ethyl	02642-71-9
azinphos-methyl	00086-50-0
barban	00101-27-9
bendiocarb	22781-23-3
benomyl	17804-35-2
bromoxynil	01689-84-5
2-(p-tert-butylphenoxy)-isopropyl-2-chloroethyl sulfite	00140-57-8
captafol	02425-06-1
captan	00133-06-2
carbaryl	00063-25-2
carbofuran	01563-66-2
carbophenothion	00786-19-6
chlordane	00057-74-9
chlordecone	00143-50-0
chlorfenvinphos	00470-90-6
chlorobenzilate	00510-15-6
chlorpyrifos	02921-88-2
clonitralid	01420-04-8
coumaphos	00056-72-4
crotoxyphos	07700-17-6
cycloheximide	00066-81-9
DDT	00050-29-3
demeton	08065-48-3
diallate	02303-16-4
diazinon	00333-41-5
dibromochloropropane (DBCP)	00096-12-8
dichlone	00117-80-6
dichlorvos	00062-73-7
dichrotophos	00141-66-2
dieldrin	00060-57-1
dimethoate	00060-51-5
dinocap	39300-45-3
dinoseb	00088-85-7
dioxathion	00078-34-2
disulfoton	00298-04-4
endosulfan	00115-29-7
endrin	00072-20-8
EPN	02104-64-5
ethion	00563-12-2
fensulfothion	00115-90-2
fenthion	00055-38-9
fluchloralin	33245-39-5
heptachlor	00076-44-8
heptachlor epoxide	01024-57-3
leptophos	21609-90-5
malathion	00121-75-5
methomyl	16752-77-5
methoxychlor	00072-43-5
methyl parathion	00298-00-0
mevinphos	07786-34-7
mexacarbate	00315-18-4
mirex	02385-85-5
monocrotophos	06923-22-4
naled	00300-76-5
nicotine	00054-11-5
nitrofen	01836-75-5
oxydemeton-methyl	00301-12-2
paraquat	01910-42-5
parathion	00056-38-2
phorate	00298-02-2
phosazetim	04104-14-7
phosmet	00732-11-6
phosphamidon	13171-21-6
rotenone	00083-79-4
silvex, propylene glycolbutyl ether ester	02317-24-0
sodium fluoroacetate	00062-74-8
strychnine	00057-24-9
sulfallate	00095-06-7
sulfotepp	03689-24-5
TDE	00072-54-8
TEPP	00107-49-3
terbufos	13071-79-9
tetrachlorvinphos	00961-11-5
thiram	00137-26-8
toxaphene	08001-35-2
bis (tri-n-butyl tin) oxide	00056-35-9
trichlorfon	00052-68-6
trichlorophenoxyacetic acid (2,4,5-T)	00093-76-5
trifluralin	01582-09-8
ziram	00137-30-4

IV. Drugs, Food Additives, Natural Materials (to be reported only by manufacturers and formulators).

	Parameter Number
actinomycin D	00050-76-0
citrus red no. 2	06358-53-8
cycasin	14901-08-7
cyclophosphamide	00050-18-0
diethylstilbestrol	00056-53-1
isonicotinic acid hydrazine	00054-85-3
lasiocarpine	00303-34-4
mestranol	00072-33-3
methylthiouracil	00056-04-2
mitomycin C	00050-07-7
monocrotaline	00315-22-0
niridazole	00061-57-4
nithiazide	00139-94-6
N-(4-(5-nitro-2-furanyl)-2-thiazolyl)acetamide	00531-82-8
phenazopyridine hydrochloride	00138-40-3
phenestarin	03546-10-9
phenobarbitol	00050-06-6
phenytoin	00057-41-0
phenytoin sodium	00630-93-3
propylthiouracil	00051-52-5
uracil mustard	00066-75-1

Permit No. MI 0023744

MICHIGAN WATER RESOURCES COMMISSION

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), Michigan Act 98, Public Acts of 1913, as amended, being sections 325.201 through 325.213 of the Compiled Laws of Michigan, and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, being sections 322.1 through 322.13 of the Compiled Laws of Michigan, the "Michigan Act"),

The City of Otsego

is authorized to discharge from a facility located at 310 North Grant Street, Otsego, Michigan

to receiving water named the Kalamazoo River

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit shall become effective on the date of issuance.

This permit and the authorization to discharge shall expire at midnight, June 30, 1977. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

Signed this _____ day of _____, by the Michigan Water Resources Commission.

_____

Ralph W. Purdy
Executive Secretary

PERMIT CONDITIONS

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS.

Interim Effluent Limitations

During the period beginning on the effective date and lasting until December 31, 1975 discharges from the City of Otsego wastewater treatment plant outfall(s) 001 shall be limited and monitored by the permittee as specified below:

(a) The following shall be limited and monitored by the permittee as specified:

EFFLUENT CHARACTERISTIC	Discharge Load Limitations kg/day (lb/day)		Discharge Concentration Limitations		Monitoring Requirements	
	30 Day Aver.	7 Day Aver.	30 Day Aver.	7 Day Aver.	Measure. Frequency	Sample Type & Location
5-Day 20°C Biochemical Oxygen Demand	750 or (1660)	910 or (2000)	250 mg/l	300 mg/l	5 x weekly	8 hour composite prior to disinfection
Suspended Solids	181 or (400)	242 or (535)	60 mg/l	80 mg/l	5 x weekly	8 hour composite prior to disinfection
Total Coliform Bacteria	---	---	1000/100 ml	---	5 x weekly	Grab following chlorine contact tank

(b) The pH shall not be less than 6.5 nor greater than 9.5. The pH shall be monitored as follows: Daily grab sample. The pH limitation is not subject to averaging and must be met at all times.

(c) The effluent discharge shall be measured daily.

PERMIT CONDITIONS

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS.

Interim Effluent Limitations

During the period beginning January 1, 1976 and lasting until June 30, 1977 discharges from the City of Otsego wastewater treatment plant outfall(s) 001 shall be limited and monitored by the permittee as specified below:

(a) The following shall be limited and monitored by the permittee as specified:

EFFLUENT CHARACTERISTIC	Discharge Load Limitations kg/day (lb/day)		Discharge Concentration Limitations		Monitoring Requirements	
	30 Day Aver.	7 Day Aver.	30 Day Aver.	7 Day Aver.	Measure. Frequency	Sample Type & Location
5-Day 20°C Biochemical Oxygen Demand	375 or (830)	530 or (1170)	125 mg/l	175 mg/l	5 x weekly	8 hour composite prior to disinfection
Suspended Solids	181 or (400)	242 or (535)	60 mg/l	80 mg/l	5 x weekly	8 hour composite prior to disinfection
Fecal Coliform Bacteria	---	---	200/100 ml	400/100 ml	5 x weekly	Grab following chlorine contact tank

(b) The pH shall not be less than 6.5 nor greater than 9.5. The pH shall be monitored as follows: Daily grab sample. The pH limitation is not subject to averaging and must be met at all times.

(c) The effluent discharge shall be measured daily.

SPECIAL CONDITIONS

MUNICIPAL PERMIT ATTACHMENT

WHEN INFORMATION ON INDUSTRIAL INPUTS IS INADEQUATE

OR INDUSTRIAL EFFLUENT GUIDELINES ARE NOT AVAILABLE

It is apparent that pollutants attributable to inputs from major contributing industries* using the municipal system may be present in the discharge of the treatment facility for which this permit is issued. Based upon information to be developed as a subsequent provision of this Special Condition this permit may be revised to specify effluent limitations for any or all of such pollutants in accordance with industrial best practicable technology requirements or water quality standards.

The permittee shall develop an Industrial Surveillance Report containing a plan for obtaining information on the quality and quantity of effluents introduced into the municipal sewer system from industrial users, methods proposed to require compliance with Sections 204(b), 307, and 308 of the Act, and a proposed schedule of implementation of such plan and methods. The permittee shall submit the Report to the Chief Engineer of the Michigan Water Resources Commission and receive his approval thereof on or before September 30, 1974. done

The permittee shall report to the Michigan Water Resources Commission (using the format outlined in Form MI-B of this permit) information available for all known major contributing industries on a quarterly basis beginning October 1, 1974. Complete quarterly reporting of all major contributing industries is to be implemented in accordance with the approved Industrial Surveillance Report required by the preceding paragraph. Quarterly reports reflecting no change from the previous quarter may simply relate this fact, without submitting repetitive data.

Based on the information regarding industrial inputs reported by the permittee pursuant to the preceding paragraph, the permittee will be notified by the Chief Engineer of the availability of industrial effluent guidelines on which to calculate allowable inputs of "incompatible pollutants" based on best practicable control technology currently available for each industry group. Copies of guidelines will be provided as appropriate. Not later than 120 days following receipt of such notification, the permittee shall submit to the Chief Engineer calculations reflecting allowable inputs from each major contributing industry. At that time, this permit may be amended to reflect the municipal facility's effluent requirements for "incompatible pollutants". The permittee shall also require all major contributing industries to implement necessary pretreatment requirements (as provided for in 40 CFR Part 128), and submit to the Michigan Water Resources Commission notification of specific actions taken in this regard.

* A major contributing industry is one that: (a) has a flow of 50,000 gallons or more per average workday; (b) has a flow greater than five percent of the flow carried by the municipal system receiving the waste; (c) has in its waste a toxic pollutant in toxic amounts as defined in standards issued under Section 307(a) of the Act; or (d) has significant impact, either singly or in combination with other contributing industries, on the treatment works or the quality of its effluent.

SPECIAL CONDITIONS

MUNICIPAL PERMIT ATTACHMENT

MONITORING OF GROUNDWATER

Groundwater Monitoring and Schedule of Compliance

(1) It is apparent that pollutants from wastewater treated by facilities governed by this permit or from the subsequent storage or disposal of removed substances (solids, sludges, filter backwash, or other pollutants removed from or resulting from treatment or control of wastewater), or leachate therefrom may have access to or enter the groundwater in the vicinity of the treatment and/or removed substance storage or disposal site. The permittee shall submit a program of groundwater monitoring for such areas, and plans and specifications for groundwater monitoring facilities unless it can be demonstrated that unlawful pollution of the groundwater will not occur and that such monitoring is not necessary to confirm protection of the groundwater resources. Plans and specifications for such facilities shall be submitted to the Chief Engineer of the Michigan Water Resources Commission and the approval of the Director of the Michigan Department of Natural Resources obtained on or before December 31, 1974. now

(2) The permittee shall provide groundwater monitoring facilities and initiate a sampling and analysis program as required under section (1) above on or before September 30, 1975.

(3) As a minimum the following parameters shall be analyzed at the frequencies indicated and reports of such monitoring submitted to the Michigan Water Resources Commission on a monthly basis. More frequent monitoring of any parameter(s) or expansion of the parameter monitoring list may be required as additional information becomes available.

PARAMETERS	FREQUENCY OF SAMPLING
Static Water Elevation	Monthly
Chloride	*Background and monthly
Specific Conductance	*Background and monthly
pH	Background and yearly
Total Hardness	Background and yearly
Alkalinity	Background and yearly
Ammonia Nitrogen	Background and yearly
Nitrate Nitrogen	Background and yearly
Nitrite Nitrogen	Background and yearly
Total Phosphorus	Background and yearly
Methylene Blue Active Substances	Background and yearly
Chemical Oxygen Demand	Background and yearly

* Background water quality shall be determined on the basis of a minimum of 3 monthly samples collected from wells unaffected by prior waste application.

Permit No. MI 0023744

PART I

B. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

2. Reporting

The permittee shall effectively monitor the operation and efficiency of all processes comprising the treatment and control facilities and the quantity and quality of the treated discharge. Monitoring data required by this permit shall be tabulated, summarized and averaged on a calendar month basis. Monthly reports, on forms or format supplied by the Michigan Water Resources Commission, shall be mailed to the address below, postmarked no later than the tenth of the first month following the report period.

State of Michigan
Water Resources Commission
c/o Municipal Wastewater Division
Stevens T. Mason Building
Lansing, Michigan 48926

3. Definitions

a. The 30 consecutive day average other than for fecal or total coliform bacteria, is defined as the sum of the concentrations and/or weights of the individual samples divided by the number of samples taken during a 30 day period. The 30 consecutive day average for fecal or total coliform bacteria is the geometric mean of the samples collected in a 30 day period.

b. The 7 consecutive day average other than for fecal or total coliform bacteria, is defined as the sum of the concentrations and/or weights of the individual samples divided by the number of samples taken during a 7 day period. The 7 consecutive day average for fecal or total coliform bacteria is the geometric mean of the samples collected in a 7 day period.

c. The maximum limitation is defined as the permissible maximum concentration and/or weight in any individual sample taken during the month.

4. Test Procedures

a. Wastewater or effluent analysis values are to be determined using a twenty-four hour, flow proportioned composite sample consisting of hourly or more frequent portions for all analyses identified as "24 hour composite".

b. Wastewater or effluent analysis values are to be determined using a single sample of wastewater taken at neither set time nor flow for all analyses identified as "grab".

c. Coliform bacterial analyses (fecal and/or total, at facilities providing chemical disinfection) shall be performed on "grab" samples collected at varying times during an operating day and information derived therefrom shall be used in conjunction with flow rate and loading variations and disinfectant feed rates to provide optimum disinfectant residual levels consistant with the bacterial limitations prescribed herein.

d. Other measurements of oxygen demand may be substituted for Biochemical Oxygen Demand (B.O.D.) where the permittee can demonstrate long term correlation of the method with B.O.D. values. Substitution of such measurements must receive prior approval from the Michigan Water Resources Commission.

e. The analytical and sampling methods used shall conform to the latest edition of one of the references listed below. (These are interim references to be replaced by "Act" Section 304(g) guidelines when available). However, different but equivalent methods are allowable if they receive prior written approval of the Michigan Water Resources Commission.

1. Standard Methods for the Examination of Water and Wastewaters, 13th edition, 1971, American Public Health Association, New York, New York 10019.

2. A.S.T.M. Standards, Part 23, Water; Atmospheric Analysis, 1972 American Society for Testing and Materials, Philadelphia, Pa. 19103.

3. Methods for Chemical Analysis of Water and Wastes, April 1971, Environmental Protection Agency, Water Quality Office, Analytical Quality Control Laboratory, 1014 Broadway, Cincinnati, Ohio 45202.

f. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to insure accuracy of measurements.

5. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

a. The exact place, date, and time of sampling;

b. The dates the analyses were performed;

c. The person(s) who performed the analyses;

d. The analytical techniques or methods used; and

e. The results of all required analyses.

6. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Monthly Operating Report.

7. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, or longer if requested by the Michigan Water Resources Commission or the Regional Administrator.

PART II

A. PERMIT PROGRAM ADMINISTRATION

1. Michigan Water Resources Commission

The Michigan Water Resources Commission is located in the Stevens T. Mason Building, Lansing, Michigan.

2. Regional Administrator

Where used within this permit the term Regional Administrator shall mean the Administrator, Region V, U.S. Environmental Protection Agency.

B. MANAGEMENT REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the permit issuing authority of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

2. Containment Facilities

The permittee shall provide facilities approved under Act 98, Public Acts of 1913 as amended, and in accordance with the requirements of the Michigan Water Resources Commission Rules, Part 5, for containment of any accidental losses of concentrated solutions, acids, alkalies, salts, oils, or other polluting materials.

3. Operator Certification

The permittee shall have the waste treatment facilities under the direct supervision of an operator certified by the Michigan Department of Natural Resources as required by Regulations Governing the Certification of Sewage Treatment Works Operators in accordance with Act 98, Public Acts of 1913, as amended.

4. Noncompliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any effluent limitation specified in this permit, the permittee shall provide the Michigan Water Resources Commission and the Regional Administrator with the following information, in writing, within five (5) days of becoming aware of such condition:

a. A description of the discharge and cause of noncompliance; and

b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

5. Facilities Operation

All waste collection, control, treatment and disposal facilites shall be operated in a manner consistent with the following:

a. At all times, all facilities shall be operated as efficiently as possible and in a manner which will minimize upsets and discharges of excessive pollutants.

b. The permittee shall provide an adequate operating staff which is duly qualified to carry out the operation, maintenance and testing functions required to insure compliance with the conditions of this permit.

c. Maintenance of treatment facilities shall not result in degradation of effluent quality, or if degradation of effluent is unavoidable shall be scheduled during non-critical water quality periods and shall be carried out in a manner approved by the permitting authority.

d. Under no circumstances shall the permittee allow introduction of the following wastes into the waste treatment system.

(1) Wastes which create a fire or explosion hazard in the treatment works.

(2) Wastes which will cause corrosive structural damage to treatment works.

(3) Solid or viscous substances in amounts which cause obstructions to the flow in sewers or interference with the proper operation of the treatment works.

(4) Wastewaters at a flow rate and/or pollutant discharge rate which is excessive over relatively short time periods so as to cause a loss of treatment efficiency.

6. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to navigable waters resulting from noncompliance with any effluent limitations specified in this permit. Such steps may include accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

7. By-passing

Any diversion from or by-pass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited, except (i) where unavoidable to prevent loss of life, severe property damage, extended duration process upset, or (ii) where excessive storm drainage or runoff would damage any facilities necessary for compliance with the effluent limitations and prohibitions of this permit. The permittee shall promptly notify the Michigan Water Resources Commission of such occurrence. Such notice shall be supplemented by a written report within 72 hours detailing the cause of such diversion or bypass and the corrective actions taken to minimize adverse impact and eliminate the need for future diversion or bypass.

3. Availability of Reports

All reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Michigan Water Resources Commission and the Regional Administrator. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act, Sections 7 and 10 of the Michigan Act, and Sections 8 and 13 of Act 98, Public Acts of 1913, as amended.

4. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

a. Violation of any terms or conditions of this permit;

b. Obtaining this permit by misrepresentation or failure to disclose fully, all relevant facts; or

c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

5. Toxic Pollutants

Notwithstanding Part II, C-4 above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

6. Civil and Criminal Liability

Except as provided in permit conditions on "By-passing" (Part II, B-7) and "Power Failures" (Part II, B-9), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance, whether or not such noncompliance is due to factors beyond his control, such as accidents, equipment breakdowns, or natural disasters.

7. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

8. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act.

9. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor infringement of Federal, State or local laws or regulations.

10. Facility Construction

This permit does not authorize or approve the construction of any onshore or offshore physical structures or facilities, the modification of any existing wastewater facility, or the undertaking of any work in any navigable waters. Approval for such construction must be by permit issued under Michigan Act 98, Public Acts of 1913, as amended.

11. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

Application No. MI 0023744

MIXING ZONE

Discharge Identification City of Otsego Wastewater Treatment Facilities

Discharge Location to the Kalamazoo River in Section 22, T 1 N, R 12 W

Outfall Number(s) 001

The mixing zone for purposes of evaluating compliance with the State Water Quality Standards is defined as the left one-quarter (1/4) of the Kalamazoo River for a distance 600 feet downstream from the point of discharge.

ATTACHMENT 5
INDUSTRIAL USER PERMITS AND BASELINE MONITORING REPORTS
RESPONSE TO REQUEST 19

CITY OF OTSEGO WASTEWATER PLANT

117 E. Orleans Street • Otsego, MI 49078 • (269) 694-9194 • fax (269) 692-2643]

March 25, 2003

Mr. Jim Maschke
Parker Hannifin Corp. Hydraulic Division
100 Parker Drive
Otsego,Michigan 49078

Dear Mr. Maschke :

This is to inform you that the City of Otsego Industrial Pretreatment discharge permit 002-SIU for your facility is hereby extended to March 15 , 2004. This extension may be superseded if a new or modified permit is issued before March 15 , 2004.

Should you have any questions or concerns please contact this office at 694-9194.

Sincerely,

Thomas W. Dunn
Superintendent Otsego Wastewater Treatment Plant

City of Otsego

Wastewater Discharge Permit

Permit Number 002-SIU

Company Name: PARKER HANNIFIN CORPORATION

DivisionName:HYDRAULIC PUMP/MOTOR DIVISION

Mailing Address: 100 PARKER DRIVE,OTSEGO,MI 49078

Facility Address:100 PARKER DRIVE , OTSEGO , MI 49078

Facility Contact:MR. GENE ZELMANSKI , PLANT ENGINEER

The above permittee is authorized to discharge industrial wastewater to the City of Otsego sewer system in compliance with the City's Ordinance, Sections 4.501 and following of the Otsego City Code, as amended, and any applicable provisions of federal or state law or regulation, and in accordance with discharge point(s), effluent limitations, monitoring requirements, and other conditions set forth herein.

This permit is granted in accordance with the plans, specifications, and other data submitted to the City on October 7, 1994 in the office of the Wastewater Superintendent.

If a permittee submits a timely reapplication in accordance with Section 4.531, an expired permit shall automatically be extended until a final decision is made on the application.

Effective Date of Permit: March 15,1995

Permit Expiration Date: March 14,1998

Permit Approved By: THOMAS W. DUNN

Thomas W. Dunn

Wastewater Superintendent

PART I - Wastewater Discharge Limitations and Monitoring Requirements

A. During the period beginning on permit issuance and lasting until permit expiration, the permittee is authorized to discharge wastewaters to the City of Otsego sanitary sewer system. Such Discharges shall be limited and monitored by the permittee as follows:

DISCHARGE CHARACTERISTICS	DAILY MAXIMUM LIMIT	MONTHLY AVERAGE	SAMPLE FREQUENCY	TYPE
Copper,total	1.30MG/L		2/Y	Comp.
Nickel,total	1.50MG/L		2/Y	Comp.
Zinc , total	2.00MG/L		2/Y	Comp.
pH	6.5-9.5 S.U.		2/Y	Grab
Molybdenum	Report		2/Y	Comp.
Phosphorous,Total	5.00MG/L		2/Y	Comp.
Oil and Grease	50.00MG/L		2/Y	~~Comp~~ Grab

The above specified parameters must be monitored at frequency noted. However permittee shall also assure that discharge does not violate any parameters as listed in prohibited discharges of the City of Otsego Sewer Use Ordinance.

B. Is the Permittee a categorical significant industrial user?

Yes _____ No _X_____

If yes, specify categorical pretreatment requirements (for the applicable category) with which the user must comply:

C. For compliance purposes monitoring shall be performed at the following location(s): Sampling Vault that contains entire flow from facility. This is located in southwest corner of Memorial Park. Sampling may be done at an alternate location if prior approval of wastewater superintendent is obtained. It may be prudent to install a new sampling manhole or vault on Parker property that would contain all flows from facility. If at a later time this facility is reclassified to a categorical industry then sampling would be at the end of a regulated process.

PART II - STANDARD CONDITIONS

PROHIBIT DISCHARGES

The permittee shall comply with all the general prohibitive discharge standards in Sections 4.507, 4.508, 4.509 and following of the City's Sewer Use Ordinance. These prohibitions include, but not by way of limitation, that no person shall discharge or cause to be discharged into the sewage system any wastes containing any of the following substances or which exhibit the following characteristics:

(a) pollutants that create a fire or explosion hazard in the sewage system, including but not limited to pollutants that result in wastewater with a closed cup flashpoint (as determined in accordance with 40 CFR 261.21) of less than 140°F or 60°C;

(b) pollutant(s) having a corrosive property capable of causing damage to the structures, equipment or employees of the sanitary sewer system, including but not limited to wastewater with a pH less than the limit set forth in section 4.509(b);

(c) solid or viscous substances that may obstruct the flow in a sewer or otherwise cause interference with the operation of the sanitary sewer system including, but not limited to, grease, oils, fat or wax, whether emulsified or not, which may become viscous or solidity at temperatures between 32° F and 150°F; garbage with particles greater than 1/2" in any dimension, insoluble, solid or viscous substances such as, but not limited to, ashes, cinders, sand, mud, straw, shavings, metal, glass, tar, feathers, plastics, wood, hair, fleshings, etc.; inert suspended solids (such as, but not limited to Fullers earth, lime slurries and lime residues), or dissolved solids (such as, but not limited to, sodium chloride and sodium sulfate) in unusual concentrations; or any material which can be disposed of as trash;

(d) wastewater with a temperature that has temperature less than 32°F or that inhibits biological activity in the sanitary sewer system including, but not limited to, any wastewater that causes the influent to the treatment plant to exceed 40°C (104°F) or any wastewater or vapor having a temperature higher than 60°C (140°F) at the point of entrance to the sanitary sewer system;

(e) petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin in amount that cause interference or pass-through, including, but not limited to, amounts in excess of the limit set forth in section 4.509(a);

(f) pollutants that result in the presence of gases, vapors or fumes within the sanitary sewer system that:

(1) cause an odor nuisance; or

(2) cause workplace conditions in violation of any applicable workplace health or safety standard; or

(3) cause any hazardous or unsafe condition for the general public;

(g) hauled waste, except for hauled waste that:

(1) consists only of domestic wastewater unless specifically authorized by the City pursuant to policies and procedures established by the City; and

(2) is discharged at a point designated by the City;

(h) color, as from but not limited to dyes, inks, vegetable tanning solutions, shall be controlled to prevent light absorbency which would interfere with treatment plant process or that prevent analytical determinations;

(1) discharges that would result in excess foaming during the treatment process (excess foaming is any foam which in the opinion of the Superintendent is a nuisance to the treatment works;

(j) waste not typically discharged to a sanitary sewer system unless specifically authorized by the City pursuant to policies and procedures established by the City;

(k) any substance that may cause the sanitary sewer system's treatment residues, sludges or scums to be unsuitable for reclamation and reuse, that causes interference with the reclamation process, or that inhibits the marketing of treated sewage sludge;

(l) any wastewater that contains radioactive wastes, except when:

(1) the user is authorized to use radioactive material by the U.S. Nuclear Regulatory Commission or other governmental agency with authority to regulate the use of radioactive materials, and

(2) the wastewater is discharged in compliance with the regulations of the U.S. Nuclear Regulatory Commission and any other applicable local or state regulations;

(m) any storm water, surface water, groundwater, roof runoff, subsurface drainage, non-contact cooling water, or other unpolluted water, except as approved by the City;

(n) anti-freeze, motor oil, brake fluid, transmission fluid, hydraulic fluid, cleaning solvents, oil-based paint, water-based paint with mercury biocides and paint thinners;

(o) any non-domestic wastewater before the City has approved a notice of intent submitted according to section 4.550;

(p) any mass, concentration or volume of a substance in excess of the amount allowed in the user's wastewater discharge permit in which

the City may include any limitation deemed necessary to avoid adverse effects on the sanitary sewer system or the receiving stream; and

(q) any substance which may create a public nuisance, cause hazard to life or prevent entry into the sewers for maintenance and repair.

(r) any pollutant(s), including oxygen demanding pollutants (BOD, etc.) discharged at a flow rate or concentration which will cause an interference.

RIGHT OF ENTRY

The permittee shall allow the City or its representatives, exhibiting proper credentials and identification, to enter upon the premises of the permittee for the purpose of inspection, sampling, or records inspection.

RECORDS RETENTION

a. The permittee shall retain and preserve for no less than three (3) years, any records, books, documents, memoranda, reports, correspondence and any and all summaries thereof, relating to monitoring, sampling and chemical analyses made by or in behalf of the permittee in connection with its discharge.

b. All records that pertain to matters that are the subject of special orders or any other enforcement or litigation activities brought by the City shall be retained and preserved by the permittee until all enforcement activities have concluded and all periods of limitation with respect to any and all appeals have expired.

CONFIDENTIAL INFORMATION

Except for schematics and process information determined to be confidential under Section 4.521 of the City's sewer use ordinance, all reports required by this permit shall be available for public inspection at the office of the Wastewater Superintendent.

RECORDING OF RESULTS

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

a. The exact place, date, and time of sampling;
b. The dates the analyses were performed;
c. The person(s) who performed the analyses;
d. The analytical techniques or methods used; and
e. The results of all required analyses.

DILUTION

No permittee shall increase the use of potable or process water or, in any way, attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in this permit.

The City may impose mass limitations on permittees who use dilution to meet applicable pretreatment standards or requirements, or in other cases where the imposition of mass limitations is appropriate.

PROPER DISPOSAL OF PRETREATMENT SLUDGE AND SPENT CHEMICALS

The disposal of sludge and spent chemicals generated shall be done in accordance with Section 405 of the Clean Water Act and Subtitles C and D of the Resource Conservation and Recovery Act.

SIGNATORY REQUIREMENTS

All reports required by this permit shall be signed by an authorized representative of the permittee.

REVOCATION OF PERMIT

The permit issued to the permittee by the City may be revoked when, after inspection, monitoring or analysis, it is determined that the discharge of wastewater to the sanitary sewer is in violation of federal, state, or local laws, ordinances, or regulations. Additionally, falsification or intentional misrepresentation of data or statements pertaining to the permit application or any other required reporting form, shall be cause for permit revocation.

LIMITATION ON PERMIT TRANSFER

Wastewater Discharge Permits are issued to a specific user for a specific operation and are not assignable to another user or transferrable to any other location without the prior written approval of the City and the provision of a copy of the existing Wastewater Discharge Permit to the new user. Sale of a user shall obligate the purchaser to seek prior written approval of the City for continued discharge to the sewer system.

FALSIFYING INFORMATION OR TAMPERING WITH MONITORING EQUIPMENT

Knowingly making any false statement on any report or other document required by this permit or knowingly rendering any monitoring device or method inaccurate, may result in punishment under the criminal laws of the City, as well as being subjected to civil penalties and relief.

MODIFICATION OR REVISION OF THE PERMIT

a. The terms and conditions of this permit may be subject to modification by the City at any time as limitations or requirements as identified in the City's sewer use ordinance are modified, or other just cause exists.

b. This permit may also be modified to incorporate special conditions resulting from the issuance of a special order.

c. The terms and conditions may be modified as a result of U.S. EPA promulgating a new federal pretreatment standard.

d. Any permit modifications which result in new conditions in the permit shall include a reasonable time schedule for compliance if necessary.

DUTY TO REAPPLY

The permittee shall apply for reissuance of this permit not less than sixty (60) days prior to its termination by submitting a request for its reissuance together with a Baseline Monitoring Report.

SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit, or the applications of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

PROPERTY RIGHTS

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any invasion of personal rights, nor any infringement of federal, state or local regulations.

NEW SOURCE COMPLIANCE DEADLINE

New Sources shall install and have in operation condition, and shall "start-up" all pollution control equipment required to meet applicable Pretreatment Standards before beginning to discharge. Within the shortest time feasible (not to exceed 90 days), New Sources must meet all applicable Pretreatment Standards.

APPLICABLE PENALTIES

The City has the authority to seek or assess civil or criminal penalties of up to $1,000 or other amount allowed by law per day for each violation.

TERMINATION OF SERVICES

The City has the authority to terminate water and/or sewer service for violations of the Sewer Use Ordinance, or in emergency situations.

III - REPORTING REQUIREMENTS

PERIODIC COMPLIANCE REPORTS

In accordance with 40 CFR § 403.12(e) and Section 4.554 of the City's sewer use ordinance, the permittee shall, after the effective date of the permit, submit to the City reports indicating the nature and concentration of pollutants in the effluent which are limited by the standards specified in Part I of the permit. The periodic compliance report is due by each June 30 and December 31.

Data obtained through sampling and analysis reported in the periodic compliance report must be performed during the period covered by the periodic compliance report and must be representative of conditions occurring during the reporting period. All analyses shall be performed in accordance with the methods indicated in 40 CFR Part 136 and amendments thereto.

If the permittee monitors any pollutant more frequently than required by this permit, in accordance with 40 CFR Part 136 or other EPA approved methods, the results of such monitoring shall be submitted with the applicable periodic compliance report.

If sampling by the permittee indicates a violation of Part I of this permit, the permittee shall notify the City within 24 hours of becoming aware of the violation. The permittee shall also repeat the sampling and analysis and submit the results of the repeat analyses to the City within 30 days after becoming aware of the violation.

90-DAY COMPLIANCE REPORT

A 90-day compliance report must be submitted by a categorical significant industrial user within 90 days following the date for final compliance with applicable categorical pretreatment standards or, in the case of a new source, within 90 days following the commencement of discharge.

ACCIDENTAL AND SLUG DISCHARGE REPORTING

The permittee shall notify the City immediately upon discharge that could cause problems to the sanitary sewer system or any slug discharge as outlined in Section 4.558 of the City's sewer use ordinance, as amended. A written report shall be submitted to the City within five (5) days of the occurrence, containing the following information:

a. The date and time of the discharge or slug;
b. The cause of the discharge or slug;
c. The anticipated time the discharge or slug is expected to continue; and
d. The actions that are proposed to be taken to eliminate the discharge or slug from occurring again.

UPSET OR UNANTICIPATED BYPASS

The permittee shall notify the City within 24 hours of the first awareness of an upset or unanticipated bypass experienced by the permittee of its treatment that places the discharge in noncompliance with wastewater discharge limitations contained in this permit or other limitations specified in the City's sewer use ordinance. A written report shall be submitted to the City within five (5) days of the occurrence, containing the following information:

a. A description of discharge and cause of noncompliance/bypass;
b. The period of noncompliance including exact dates and times or, if not corrected, the anticipated time the noncompliance/bypass is expected to continue; and,
c. The steps being taken and/or planned to reduce, eliminate and prevent recurrence of the noncompliance/bypass.

ANTICIPATED BYPASS

If a permittee knows in advance of the need for a bypass, then the permittee shall notify the City at least ten (10) days before the bypass, if possible, or otherwise immediately.

SIGNIFICANT CHANGE IN SEWER USE

The permittee shall notify the City prior to the introduction of new wastewater or pollutants or any significant change in sewer use or characteristics of the wastewater being introduced into the City's sanitary sewer system from the user's processes. Formal written notification shall be submitted 90 days prior to such introduction. Significant change in sewer use is defined as an increase in the volume or concentrations of pollutants discharged by 20% or more over those reported on the baseline monitoring report.

HAZARDOUS WASTE DISCHARGE REPORTING REQUIREMENT

The permittee shall notify the City, the Michigan Department of Natural Resources, and U.S. EPA-Region V of any discharge into the Treatment Plant of a substance which is considered a hazardous waste under 40 CFR Part 261. Notification is required within one hundred eighty (180) days of the listing date of the hazardous substance, whichever is later. A report is also required within 90 days after new federal or state regulations defined as a hazardous waste substances that the permittee discharges in quantities making the permittee subject to Section 4.559 of the sewer use ordinance.

COMPLIANCE SCHEDULE

No later than fourteen (14) days following each date in the compliance schedule outlined in Part IV, the permittee shall submit a progress report to the City. This report must indicate whether or not the increment of progress was met on the date, the reason(s) for any delay, and what steps are being taken by the permittee to return to the schedule established.

MONITORING MANHOLE

The permittee shall report completion of its sampling/monitoring manhole unless waived by the Wastewater Superintendent

SUBMITTAL OF REPORTS

All reports shall be submitted to the following address:

City of Otsego
c/o Wastewater Superintendent
117 E. Orleans Street
Otsego, Michigan 49078

IV - SPECIAL CONDITIONS/COMPLIANCE SCHEDULES

COMPLIANCE SCHEDULE

In order to meet the wastewater discharge limitations specified in Part I, the permittee will be required to make in-plant process modifications and install a treatment facility. The following construction schedule shall be adhered to and reports in progress shall be submitted to the City, as outlined in Part III:

1. Investigate in-plant process modifications and end of pipe treatment options - months

2. Complete preliminary A & E - months

3. Secure equipment and begin construction - months

4. Complete installations - months

5. Pretreatment system start-up - months

6. Achieve final compliance - months

COMBINED WASTESTREAM FORMULA

Discharge limitations in Part I are adjusted categorical standards derived from the combined wastestream formula {40 CFR 403.6(e), the general pretreatment regulations, § 4.516 of the City's sewer use ordinance}. The permittee shall monitor on a _____ basis the individual flows that were utilized in the combined wastestream formula.

WASTE CHARACTERISTICS STUDY

The User shall monitor its wastestream _____ times over a _____ period for the following parameters listed below. Results shall be submitted to the City of Otsego by _____.

ADOPTION DRAFT: June 1994

CITY OF OTSEGO
INDUSTRIAL (NON-DOMESTIC) SANITARY SEWER USER SURVEY/
BASELINE MONITORING REPORT

I. GENERAL INFORMATION

Name and Address of the Facility Parker Hannifin Corporation, Hydraulic Pump/Motor Division
100 Parker Drive, Otsego, MI 49078

Name and Address of the Operator of the Facility _____

Name and Address of All Owners of the Facility _____

616-694-9411
Phone Number of Facility

Gene Zelmanski, Plant Engineer — 616-694-9411
Name and Title of Person Completing Report — Phone Number

The information contained in this questionnaire is familiar to me and to the best of my knowledge such information is true, complete and accurate.

Signature of Authorized Representative — Date: 10/3/94

Richard Dusa — General Manager
Print or Type Name of Official) — (Title)

Any change in ownership since last survey/report was filed? No

1. Nature of business: Manufacture hydraulic pumps and motors

2. Write the appropriate Standard Industrial Code(s) (SIC) in the box(es): 3900

3. What types of waste(s) do you discharge to the sanitary sewer?

A. Sanitary X
B. Wash X
C. Rinse X
D. Cooling ___
E. Non-contact Cooling X
F. Process Waters X
G. Air Pollution Control ___
H. Cafeteria X
I. Stormwater ___
J. Onsite Wastewater Pretreatment ___
K. Groundwater Remediation ___
L. Photo Lab
M. Other (Describe)

4. Do you use, store or discharge any acids, bases or materials listed in Table I? Yes X No ___ If Yes, list the materials, specify the use and the maximum amount stored at any one time (Add sheets if needed): See separate sheet

5. Does the operation of your processes or wastewater treatment facility result in a residual residue or sludge type waste? Yes X No ___

Information Related to Page (1) Item (4)

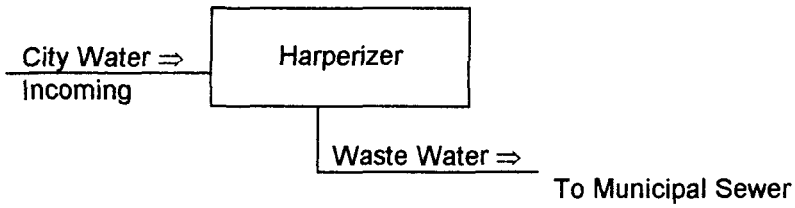
Item		Material	Use	"Max" (Qty) on Hand
(1)	I.	Acid	Etch used in Lubrite Line	20 Gals.
(75)	II.	Flammables	Paint and thinners and mineral spirits cleaner	165 Gals.
(128)	III.	PCB's	Contained in electrical transformers	300 Gals.
(140)	IV.	Toluene	Additive in paints and thinners	(144#) 866/12 x 2 = 144
(150)	V.	Xylene	Additive in paints and thinners	(124#) 747/12 x 2 = 124
(154)	VI.	Chromium	Additive in cast iron, aluminum, and steel	(1289#) 7739/12 x 2 = 1289
(156)	VII.	Copper	Additive in cast iron, aluminum, and steel	(526#) 3157/12 x 2 = 526
(159)		Lead	Additive in cast iron and steel	(25#) 154/12 x 2 = 25
(162)		Nickel	Additive in cast iron, aluminum, and steel	(179#) 1078/12 x 2 = 179
(166)		Zinc	Additive in aluminum	(317#) 1907/12 x 2 = 317

Maximum quantity on hand was calculated using (2) average months from the annual usage.

Process Waste

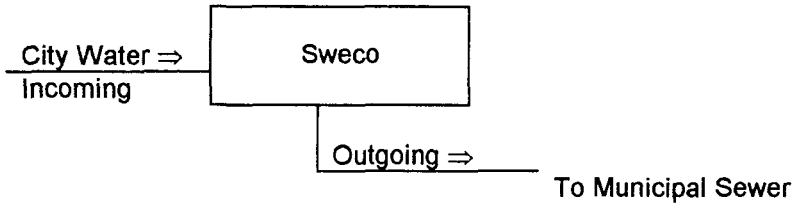
A. Harperizer

Machine used for deburring and polishing of cast iron parts.
Mixture: Media and water
Material: Cast iron
Annual quantity run: (1000) pieces/ (2) per load = 500 loads/year
Approx. 5 gal of water/load
Annual water usage = Approx. 2500 gallons
Flow:

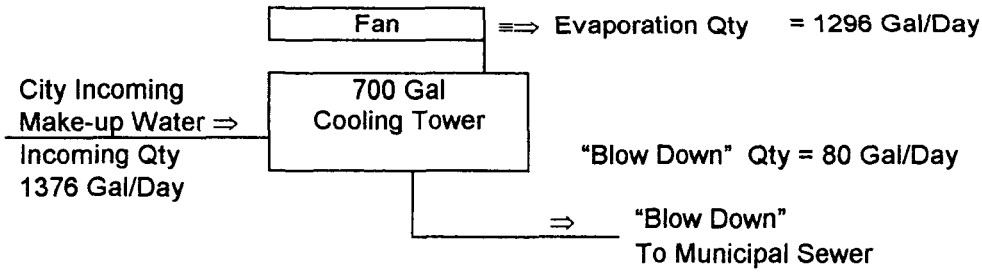


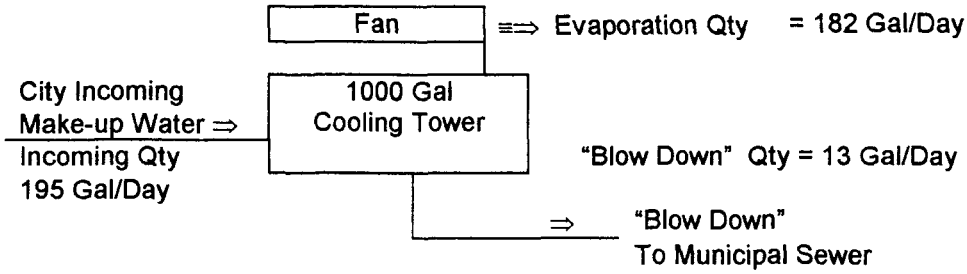
B. (2) Sweco's

Machines are used for deburring: 80% steel, 10% cast iron, 10% aluminum
Mixture: Media, soap and water
Annual run hours approx. 880 hours
Water usage = .3 gallons/minute = 18 gallons/hr = 15,840 gallons annually



C. Cooling towers (2)





Item 1, Acid

The acid is used as an etch on our Lubrite line.

Item 75, Flammables

Flammable materials would include:

I. Paint and paint thinner - used to paint above 75% of our product.
II. Mineral spirits - used as a cold cleaner to remove oil from the product before paint, and used to remove lapping compound from machined parts.

Item 128, Polychlorinated-biphenyls (PCB's)

PCB's are contained in (4) of our (5) electrical transformers.

Item 140, Toluene

Toluene is part of the mixture that makes up our paint and paint thinner that is used to paint above 75% of our product.

Item 150, Xylene

Same as item 140.

Item 154, Chromium

Chromium is a part of the mixture that goes into the makeup of aluminum, steel and cast iron. These items are purchased as castings and machined into finished parts.

Item 156, Copper

Copper is part of the mixture that goes into the makeup of aluminum, steel and cast iron. These metal items are purchased as castings and are machined into finished parts.

Item 162, Nickel

Nickel is part of the mixture that goes into the makeup of aluminum, steel and cast iron. These metal items are purchased as castings and are machined into finished parts.

Item 166, Zinc

Zinc is part of the mixture that is in the makeup of aluminum. This material is purchased in castings or bar stock and is machined into finished parts.

6. Schedule of operations:
   A. 150 Number of Employees
   B. 24 hrs/day 5 days/wk 3 shifts/day 12 mos/yr.

7. List any environmental control permits: Air Permit for the Paint Booth Permit # 508-86

8. A. If you answered only A to question 3, sign and return this portion of the survey form to the City's Wastewater Superintendent.

   B. If your answer to question 3 is other than A, complete the remainder of this form, sign it, and return to the City's Wastewater Superintendent.

II. PROCESS AND PRODUCTS

1. Provide a complete list of products used or stored on the site which appear on Table I (the consolidated Critical Materials List and Priority Pollutants List). If you use trade name or proprietary chemicals which do not list contents on the package, indicate the trade name(s) and manufacturer's name(s) at this time. You must also write the manufacturer to request an OSHA Form 20 for each such substance, and provide the City with the necessary information when available, i.e., use numbers, NOT chemical name; Table I: 1, 75, 128, 140, 150, 154, 156, 162, 166

2. Describe each process (add sheets if needed): See Separate Sheet

3. Is any of the enclosed information considered to be confidential? Yes ____ No X
   If yes, explain what and why (all requests for confidentiality will be processed according to 40 CFR (Part 2): _____

4. Water Supply: (A) Municipal (B) Well (C)Other, explain _____

   (D) Consumption Use: (a) _____ (ft^3, gals per time unit)
   (b) _____ (ft^3, gals per time unit)
   Consumption Total: 1.8 million gal. annually

5. Does your facility have a Spill Prevention Control and Counter Measures Program (SPCC) 40 CFR § 112, May 20, 1980 or a Pollution Incident Prevention Plan (PIPP) MDNR Rule 5?
   Yes X No____

III. PROCESS WASTEWATER

1. Identify outfalls (circle):

   A. Surface waters. Name of Receiving waters: _____
   B. Septic tank-tile field.
   C. Surface of ground.
   (D.) Municipal sanitary sewer.
   E. Storm Sewer.
   F. Other, describe: _____

2. Provide line drawing of water and wastewater flows through your facility from intake to discharge. Show all operations contributing wastewater including process and production areas, sanitary flows, cooking water, storm water, etc. Show all significant losses of water to products, atmosphere, treatment, discharge, etc.

3. Volumes of discharge: A. Average Daily Flow: 700 gal. per day
B. Maximum Daily Flow: 900 gal. per day
C. Flow is: Measured X Estimated ____

4. Type of wastewater: A. % Process 7% B. % Cooling 13%
C. % Sanitary 80% D. % Other ____

5. Are drains (roof, parking lot, etc.) discharging into the sanitary sewer?
Yes ____ No X (If yes, estimate area drained _____ sq. ft.)

IV. DISPOSAL PRACTICES (add extra pages if necessary)

1. How do you dispose of spent chemicals? (explain) ALL SPENT LIQUIDS ARE COLLECTED IN A 700 GAL. PIT LIQUID IS DRAWN FROM HERE AND IS PASSED THRU. A OIL WATER SEPARATOR. THE OIL IS COLLECTED & THE WATER IS EVAPORATED. Volume Disposed of: APPROX 6000 GALS. ANNUALLY

2. How do you dispose of spoilage? (explain) SAME AS ITEM 1.

3. How do you dispose of precipitates and/or sludges? (explain) SLUDGE IS REMOVED FROM THE PIT BY "TERRA ENVIRONMENTAL" AND IS DISPOSED OF AT "CHEM MET" SERVICE IN WYANDOTTE Volume disposed of: APPROX. 2000 GALS. ANNUALLY

4. Name of waste hauler: STODDARD & SON (WASTE OIL) TERRA ENVIRON. SLUDGE License No. U.S. EPA# MID 000809574 U.S. EPA# MID 017167222

5. Do you have pretreatment for your wastes? YES ✓ NO ____
If yes: Type: OIL WATER SEPARATOR. AND A WATER EVAPORATOR.
Size: ____
Frequency of Operation: ____
If no: Where and how are the wastes disposed of?
Sanitary sewer ____ Storm sewer ____
* Industrial Waste Hauler ✓ Other ____
(If other, explain) ____

6. Do you have any air emission control equipment which would discharge to sewer system?
Yes ____ No ✓

7. Are any of the materials listed in Table I discharges with the wastes? Yes ____ No ✓
(If yes, list by number from Table I)

V. SPILL PREVENTION (add extra pages if necessary) ALL LIQUIDS ARE STORED IN A CONTAINED AREA.

1. List bulk materials stored on site (liquid, solids) - include cleaning agents.
Material: HYDRAULIC OILS Volume: APPROX 2000 GALS
Location in plant: CONTAINMENT BUILDING, CONTAINED PUMP BUILDING
Material: WATER SOLUBLE CUTTING OIL Volume: APPROX. 500 GAL.
Location in plant: VARIOUS LOCATIONS IN THE PLANT, CONTAINMENT BUILD
Material: ALKALINE CLEANERS Volume: APPROX 500 GALS
Location in plant: CONTAINMENT BUILDING AND OTHER VARIOUS LOCATIONS IN THE PLANT.

2. Is separate secondary containment provided for bulk materials?
Yes X No ____ Some X

3. NA Is separate containment provided for those processes which contain chemicals listed in Table I? Yes ____ No ✓

4. NA Has separate storage been provided for those chemicals which cause hazardous reactions, i.e., acid with cyanide, acids with bases? Yes ____ No ✓

VI. SAMPLING AND ANALYSIS

. Are sampling points available for each:
A. Process Line: Yes * No ____
B. Outfall: Yes * No ____

2. Do you sample your process discharge(s)? Yes * No ____

3. Type of sample: A. Grab * B. Composite ____
If B, is sample composited to: Flow ____ Time ____

4. Is a sampling vault and/or manhole provided? Yes ____ No *

5. Sampling schedule (i.e., 24-hour, during working hours, etc.):
No Sampling Schedule Set At This Time

6. What laboratory analysis (wastewater/solids) can be run on site?
None

7. Attach all sampling data and reports, including the time, date and place of sampling and method of analysis. A minimum of four (4) samples analyzed using methods specified in 40 CFR Part 136 and amendments thereto, in accordance with 40 CFR 403.12(b)(5) must accompany the permit application. Permit reapplications do not have to comply with this requirement. The undersigned certifies this data is representative of normal work cycles and discharges to the City's Sanitary Sewer System.

VII. MISCELLANEOUS

1. Are all applicable pretreatment and discharge requirements being met? Yes ____ No ✓
If no, explain: Don't know of Any Pretreatment That Is Necessary At This Time

2. Any violations of applicable requirements? Yes ____ No *
If yes, explain fully on attached pages. Include a description of changes or improvements planned and implementation schedule.

3. Any planned changes in process, operations, maintenance procedures or equipment? Yes ____ No *
If yes, give details and submit plans and specifications.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons 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 that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sept. 29 1994
Date

Signature of Authorized Representative

TABLE I

The following is a list of the U.S. EPA Priority Pollutants consolidated with the current Critical Materials Register compiled by the Michigan Department of Natural Resources.

ORGANICS

1. acids
2. acenaphthene
3. acetone cyanohydrin
4. 2-acetylaminoflourene
5. acrolein
6. acrylic acid
7. acrylonitrile
8. allyl chloride
9. 2-aminoanthraquinone
10. aminoazobenzene
11. o-aminoazotoluene
12. 4-aminobiphenyl
13. 3-amino-9-ethylcarbazole
14. 1-amino-2-methylanthraquin
15. aminotriazole (amitrole)
16. aniline
17. aniline hydrochloride
18. o-anisidine
19. o-anisidine hydrochloride
20. benz(a)anthracene
21. benzene
22. benzidine
23. benzidine salts
24. benzo(a)pyrene
25. brucine
26. carbon tetrachloride
27. chlorinated benzenes
27. a. chlorobenzene
27. b. 1,2,4-trichlorobenzene
27. c. 1,2-dichlorobenzene
27. d. 1,3-dichlorobenzene
27. e. 1,4-dichlorobenzene
28. chlorinated dibenzofurans
29. chlorinated dioxins
30. chlorinated ethanes
30. a. 1,1,1-trichloroethane
30. b. 1,1-dichloroethane
30. c. chloroethane
30. d. 1,1,2,2-trichloroethane
31. chlorinated naphthalene
31. a. 2-chloronaphthalene
32. chlorinated phenols
32. a. 2-chlorophenol
32. b. parachlorometa-cresol
32. c. 2,4-dichlorophenol
33. 1-chloro-2,3-epoxypropane
34. chloroalkyl ethers
34. a. 2-chloroethyl vinyl ether(mixed)
35. bis(2-chloroethyl)ether
36. chloroform
37. bis (2-chloromethyl)ether
38. 3-(chloromethyl)pyridine hydrochloride
39. 1-(4-chlorophenyl)-3, 3-dimethyl triazene
40. 4-chloro-m-phenylenediamine
41. 4-chloro-o-pheylenediamine
42. chloroprene
43. 5-chloro-o-toluidine
44. p-cresidine
45. 2,4-diaminoanisole sulfate
46. 2,4-diaminodiphenyl ether
47. 2,4-diaminotoluene
48. dibenz(a,h)anthracene
49. tris(dibromopropyl) phosphate
50. di-n-butyl phthalate
51. 3,3-dichlorobenzidine
52. 3,3-dichlorobenzidine salts
53. 1,2-dichloroethane
54. dichloroethylenes
54. a. 1,1-dichloroethylene
54. b. 1,2-trans-dichloroethylene
55. dichloropropane and dichloropropene
55. a. 1,3-dichloropropylene; (1,3-dichloropropene)
55. b. 1,2-dichloropropane
56. 1,2:3,4-diepoxybutane
57. diethyl sulfate
58. 4-dimethylaminoazobenzene
59. dimethylhydrazines
60. 2,4-dimethylphenol
61. 4,6-dinitro-o-cresol
62. 2,4-dinitrophenol

ORGANICS CONTINUED ON PAGE 2

ORGANICS

63. 2,4-dinitrotoluene
64. dinitrotoluene
64. a. 2,6-dinitrotoluene
65. di-n-octyl phthalate
66. 1,4-dioxane
67. 2,3-epoxy-1-propanal
68. ethylbenzene
69. ethylene dibromide
70. ethyleneimine
71. ethylene oxide
72. ethylene thiourea
73. bis(2-ethylhexyl)phthalate
74. ethylmethanesulfonate
75. flammables
76. flouranthene
77. 2-(2-formylhydrazino)-4-(5-nitro-2-fury)-thiazole
78. Haolethers
78 a. 4-chlorophenyl phenyl ether
78 b. 4-bromophenyl phenyl ether
78 c. bis(2-chloroisopropyl) ether
79. d. bis(2-chloroethoxy)methane
79. Halomethanes
79. a. methylene chloride; (dichloromethane)
79. b. methyl chloride; (chloromethane)
79. c. methyl bromide; (bromomethane)
79. d. bromoform; (tribromomethane)
79. e. dichlorobromomethane
79. f. trichloroflouromethane
79. g. dichlorodiflouromethane
79. h. chlorodibromomethane
80. hexachlorobenzene (HCB)
81. hexachlorobutadiene
82. hexachlorocyclohexane
83. hexachlorocyclopentadiene
84. hexachloroethane
85. hydrazobenzene
86. hydroquinone
87. N-(2-hydroxyethyl) ethyleneimine
88. isophorone
89. lactonitrite
90. malachite green
91. methylenebis (2-chloroaniline)
92. 4,4-methylenebis (2-methylaniline)
93. 4,4-methylenebis (N,N-dimethylaniline)
94. 1,2(methylenedioxy)-4-propenyl benzene
95. methyl hydrazine
96. 1-methylnaphthalene
97. 2-methyl-1-nitroanthraquinone
98. mustard gas
99. 1,5-naphthalenediamine
100. -naphthylamine
101. 2-naphthylamine
102. 5-nitroacenaphthene
103. 5-nitro-o-anisidine
104. nitrobenzene
105. 4-nitrobiphenyl
106. nitrogen mustard
107. 2-nitrophenol
108. 4-nitrophenol
109. Nitrosamines
109. a. N-nitrosodiphenylamine
109. b. N-nitrosodi-n-propylamine
110. N-nitroso-n-butyl-N-(4-hydroxybutyl)amine
111. N-nitrosodiethylamine
112. N-nitrosodimethylamine
113. p-nitrosodiphenylamine
114. N-nitorso-N-ethylurea
115. N-nitroso-N-methylurea
116. N-nitroso-N-methylurethane
117. N-nitrosomethylvinylamine
118. N-nitrosomorpholine
119. N-nitroso-N-phenylhydroxylamine, ammonium salt
120. N-nitrososarcosine
121. pentachloronitrobenzene
122. pentachlorophenol
123. peroxyacetic acid
124. phenol
125. Phthalate esters
125. a. butyl benzyl phthalate
125. b. diethyl phthalate
125. c. dimethyl phthalate
126. piperonyl sulfoxide
127. polybrominated biphenyls (PBB)
128. polychlorinated biphenyls (PCB)
129. Polynuclear aromatic hydrocarbons
129. a. 3,4-benzoflouranthene
129. b. benxo(k) flouranthane; (11,12-benzoflouranthene)
129. c. chrysene
129. d. acenaphthylene
129. e. anthracene
129. f. benzo(ghi)perylene; (1,12-benzoperylene)
129. g. flourene
129. h. phenathrene
129. i. indeno(1,2,3-cd)pyrene; (2,3-O-phenylenepyrene)
129. j. pyrene
129. k. naphthalene
130. 1,3-propane sultone
131. B-proplolactone
132. 5-propyl-1,3-benzodioxole
133. propyleneimine
134. semicarbazide
135. styrene
136. tetrachloroethylene (perchloroethylene)

137. thioacetamide
138. 4,4'-thiodianiline
139. thiourea
140. toluene
141. o-toluidine
142. 0-toluidine hydrochloride
143. triaryl phosphate esters
144. 1,1,2-trichloroethane
145. trichloroethylene
146. trichlorophenols
147. 2,4,5-trimethylaniline
148. trimethylphosphate
149. vinylchloride
150. xylene

A. INORGANICS

150. antimony
151. arsenic
152. beryllium
153. cadmium
154. chromium
155. cobalt
156. copper
157. cyanides
158. hypochlorite
159. lead
160. lithium
161. mercury
162. nickel
163. selenium
164. silver
165. thallium
166. zinc

B. INORGANICS

167. acids
168. chloramines
169. chlorine
170. hydrazine
171. hydrogen sulfide

C. INORGANICS

172. asbestos (fibrous)

PESTICIDES

173. aldicarb
174. aldrin
175. 4-aminopyridine
176. anilazine
177. antimycin A.
178. azinphos-ethyl
179. azinphos-methyl
180. barban
181. bendiocarb
182. benomyl
183. bromoxynil
184. 2(p-tert-butylphenoxy) -isopropyl-2-chloroethyl sulfite

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185. captafol
186. captan
187. carbaryl
188. carbofuran
189. carbophenothion
190. chlordane
191. chlordecone
192. chlorfenvinphos
193. chlorobenzilate
194. chlorpyrifos
195. clonitralid
196. coumaphos
197. crotoxyphos
198. cycloheximide
199. DDT
200. demeton
201. diallate
202. diazinon
203. dibromochloropropane(DBCP)
204. dichlone
205. dichlorvos
206. dichrotophos
207. dieldrin
208. dimethoate
209. dinocap
210. dinoseb
211. dioxathion
212. disulfoton
213. endosulfan
214. endrin
215. EPN
216. ethion
217. fensulfothion
218. fenthion
219. fluchloralin
220. heptachlor
221. heptachlor epoxide
222. Isomers of hexachlorocyclohexane
222. a. a-BHC-Alpha
222. b. b-BHC-Beta
222. c. g-BHC-Delta
223. leptophos
224. malathion
225. metabolites of DDT
225. a. 4,4'-DDE;(p,p'-DDE)
225. b. 4,4'-DDD;(p,p'-TDE)
226. metabolites of endosulfan
226. a. endosulfan sulfate
227. metabolites of endrin
227. a. endrin aldehyde
228. metabolites of heptachlor
228. a. heptachlor epoxide
229. methomyl
230. methoxychlor
231. methyl mercaptan
232. methyl parathion
233. meyinphos
234. mexacarbate
235. mirex
236. monocrotophos
237. naled
238. nicotine
239. nitrofen
240. oxydemeton-methyl

241. paraquat
242. parathion
243. phorate
244. phosazetim
245. phosmet
246. phosphamidon
247. rotenone
248. silvex, propylene glycolbutyl ether ester

TABLE I - PAGE 4

249. sodium flouroacetate
250. strychnine
251. sulfallate
252. sulfotepp
253. TDE
254. TEPP
255. terbufos
256. tetrachlorvinphos
257. thiram
258. toxaphene
259. trichlorfon
260. trichlorophenoxyacetic acid (2,4,5-T)
261. trifluralin
262. ziram

KAR Laboratories, Inc.
4425 Manchester Road
Kalamazoo, MI 49002

(616) 381-9666

ANALYTICAL REPORT

To: Parker Hannifin Corporation
100 Parker Drive
Otsego, MI 49078

Attn: Mr. Gene Zelmanski

Proj. No.:	942972
Client No.:	1180
Date Activated:	9/30/94
Date Promised:	10/05/94
Date Reported:	10/05/94
PO#:	F 42319

Project Desc.: Analysis of 12 samples.

Dear Client:

Attached you will find test results for Project No. 942972. Please refer to this Project No. if you have any questions regarding this work. Unless noted otherwise all tests were performed within the maximum U.S. EPA allowable holding times.

Respectfully submitted,
KAR Laboratories, Inc.

Michael J. Jaeger
Director of Laboratories

KAR Laboratories, Inc.

ANALYTICAL RESULTS

To: Parker Hannifin Corporation

Project No: 942972
Report Date: 10/05/94

Project Desc.: Analysis of 12 samples.

Sample No.:942972-01 Type:liquid Rec'd: 9/30/94
Sampled: 9/29/94 By:Client
ID: **"Small Cooling Tower, #1"**

Chromium, total *<0.01 mg/L*

Sample No.:942972-02 Type:liquid Rec'd: 9/30/94
Sampled: 9/30/94 By:Client
ID: **"Small Cooling Tower, #2"**

Chromium, total *<0.01 mg/L*

Sample No.:942972-03 Type:liquid Rec'd: 9/30/94
Sampled: 9/30/94 11:30am By:Client
ID: **"Small Cooling Tower, #3"**

Chromium, total *<0.01 mg/L*

Sample No.:942972-04 Type:liquid Rec'd: 9/30/94
Sampled: 9/29/94 By:Client
ID: **"Large Cooling Tower, #1"**

Chromium, total *<0.01 mg/L*

Sample No.:942972-05 Type:liquid Rec'd: 9/30/94
Sampled: 9/30/94 By:Client
ID: **"Large Cooling Tower, #2"**

Chromium, total *<0.01 mg/L*

Sample No.:942972-06 Type:liquid Rec'd: 9/30/94
Sampled: 9/30/94 11:35am By:Client
ID: **"Large Cooling Tower, #3"**

Chromium, total *<0.01 mg/L*

Sample No.:942972-07 Type:aqueous Rec'd: 9/30/94
Sampled: 9/29/94 By:Client
ID: **"SWECO P/N 786301, #1"**

Chromium, total *0.03 mg/L*

ANALYTICAL RESULTS

To: Parker Hannifin Corporation

Project No: 942972
Report Date: 10/05/94

Project Desc.: Analysis of 12 samples.

Copper, total	0.83 mg/L
Lead, total, by ICP	<0.05 mg/L
Nickel, total	0.02 mg/L

Sample No.:942972-08 Type:aqueous Rec'd: 9/30/94
Sampled: By:Client
ID: **"SWECO P/N 716046, #2"**

Chromium, total	0.02 mg/L
Copper, total	0.73 mg/L
Lead, total, by ICP	<0.05 mg/L
Nickel, total	<0.02 mg/L

Sample No.:942972-09 Type:aqueous Rec'd: 9/30/94
Sampled: By:Client
ID: **"SWECO P/N 716046, #3"**

Chromium, total	0.13 mg/L
Copper, total	12.0 mg/L
Lead, total, by ICP	0.07 mg/L
Nickel, total	0.10 mg/L

Sample No.:942972-10 Type:aqueous Rec'd: 9/30/94
Sampled: 9/29/94 By:Client
ID: **"Harperizer P/N 801091, #1"**

Chromium, total	0.16 mg/L
Copper, total	0.64 mg/L
Lead, total, by ICP	<0.05 mg/L
Nickel, total	0.68 mg/L

Sample No.:942972-11 Type:aqueous Rec'd: 9/30/94
Sampled: 9/29/94 By:Client
ID: **"Harperizer P/N 801091, #2"**

Chromium, total	0.16 mg/L
Copper, total	0.08 mg/L
Lead, total, by ICP	<0.05 mg/L
Nickel, total	0.47 mg/L

ANALYTICAL RESULTS

To: Parker Hannifin Corporation

Project No: 942972
Report Date: 10/05/94

Project Desc.: Analysis of 12 samples.

Sample No.:942972-12 Type:aqueous Rec'd: 9/30/94
Sampled: 9/30/94 12:00 By:Client
ID: "Harperizer P/N 801091, #3"

Chromium, total	0.08 mg/L
Copper, total	0.44 mg/L
Lead, total, by ICP	<0.05 mg/L
Nickel, total	0.49 mg/L

Unless otherwise noted, test results represent the sample(s) as they were received.

ATTACHMENT 6
CURRENT DOCUMENT RETENTION POLICY
RESPONSE TO REQUEST 20

Record Series	Minimum Retention Period	State Archives Disposition
Water/Wastewater Department Records:		
Annual Summary Sheets	10 yrs	
Apparatus Failure Reports	6 yrs	
Controlled Flushing Information	25 yrs	
Daily Log Sheets	1 month	
Equipment Failure Reports and Logs	3 yrs	
Fire Hydrants:		
Locations, Type	Active	
Meter Pressure Test	3 yrs	
Flow Test Data Sheet	Current + 5 yrs	
Log Books	6 yrs	
Maintenance/Repair Records	Permanent	
Manhole Sewer Inspections	6 yrs	
Maps, Prints Drawings of Water System	Permanent	
Monthly Operation Report	2 yrs	
Pipelines, Structures and Other Equipment Records	Life of equipment	
Plumbing Permits	Current + 5 yrs	
Recording Instrument Charts	3 yrs	
Sewer Claims	Current + 5 yrs	
Sewer\Water Connection Agreements	Termination + 6 yrs	
Street Openings Reports on Inspections and Repairs	6 yrs	
Tanker Filling Log	4 yrs	
Watermain Test Report	7 yrs	
Water System Grid Pressure Information	Active	

Record Series	Minimum Retention Period	State Archives Disposition
Water Processing Plant Records:		
Bacteria Tests of Water Samples	5 yrs	
Boiler, Condenser, Turbine and Pump Room Logs, including supporting data	3 yrs	
Chemical Tests of Water Samples	10 yrs	
Filter Log Sheets	6 yrs	
Lead Sampling	12 yrs	
Monthly Operation Reports	2 yrs	
Monthly Report to Michigan Department of Health	2 yrs	
Pumping Output Logs with supporting data	3 yrs	
Record Charts	1 yr	
Residential Sampling Records	5 yrs	
Sources, water supplied to the distribution system	15 yrs or 3 yrs after source is abandoned whichever is shorter	
Station Output Records	25 yrs	
Test Wells Information	4 yrs	
Water Level Charts	4 yrs	
Wastewater Treatment Plant Records:		
Daily Operating Records	6 yrs	
Flow Charts	Current + 5 yrs	
Industrial User Records		
Influent Compliance and Limit Reports	Current + 5 yrs	
Inspection Reports	6 yrs	
Lab Reports\Analysis	Current + 5 yrs	
Lift Station Alarm Data	Permanent	
Log Books	6 yrs	
Monthly Summary Sheets	2 yrs	

Record Series	Minimum Retention Period	State Archives Disposition
Oil and Waste Reports	3 yrs	
Operator's Daily Logs and Reports	6 yrs	
Pollution Control Lab Reports	Current + 5 yrs	
Pretreatment Performance Summary	Current + 5 yrs	
Sample Data	Current + 5 yrs	
Sample Schedule	Current + 5 yrs	
Statement of Operations Analysis	10 yrs	
Wastewater Analysis Information	Current + 5 yrs	

Record Series	Minimum Retention Period	State Archives Disposition
Sign Ledger File	Current	
Soil Borings and Compactor Results and Indexes	Permanent	
Survey Records	Permanent	
Sewage Treatment Plant Records:		
Daily Operations Log	Current + 5 yrs	
Flow Records	Current + 5 yrs	
Influent Sheets	Current + 5 yrs	
Laboratory Sheets	Current + 5 yrs	
Precipitation Records	Permanent	
Plans, Specifications, Drawings	50 yrs	
Reports:		
a. Monthly to Michigan Health Department	2 yrs	
b. Annual Summary to Michigan Health Department	10 yrs	