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Rev. 07/10/02

EPA Region 5 Records Ctr.
201021

RESPONSES TO:

#13 POTW & Sewer Bypassing

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
WATER QUALITY DIVISION

inc.no. OPER 12
(DNR USE ONLY)

REPORT OF POLLUTIONAL DISCHARGE OR ENVIRONMENTAL INJURY

This form is to assist in reporting events resulting in a Pollutional Discharge or which adversely affect the environment (air, land, water) or events resulting in a public health or safety hazard. The written report is intended to supplement telephone notification regarding such events.

te	Incident (Name of Person, Firm or Governmental Unit)
8/28/95	CITY OF BATTLE CREEK, MICHIGAN

cation of incident (Be specific)
RALSTON"S FOOD PROPERTY - 150 S.MCCAMLEY ST.

erial lost	Amount	Name of Surface Water Involved
RAW SEWAGE	± 100,000.0 GAL.	BATTLE CREEK RIVER

e incident was Discovered	Time of Discovery
3/25/95	10:45 A.M.

ne of Department of Natural Resources Representative Contacted
EMERGENCY OPERATOR #12-1 ST. TALKED WITH MATT CAMPBELL LATER

ephoned or Telegraphed by Whom	Time
ROBERT NELSON, FIELD SERVICES SUPERINTENDENT	12:17 P.M.

ise of Incident (Include Type of Equipment and Other Details)
UNKNOWN OUTSIDE FORCE BROKE 18" CLAY SANITARY MAIN WHICH WAS LAYING OVER A STORM SEWER THAT HAD A 4" HOLE PUNCHED IN IT.

ure of Incident (Include Complete Description of Damage)
AN UNKNOWN FORCE BROKE AN 18" CLAY SANITARY SEWER MAIN WHICH WAS LAYING OVER A 60" GALVANIZED STORM SEWER. THE STORM HAD A 4" HOLE DIRECTLY BELOW WHERE THE SANITARY WAS BROKEN. THE DAMAGES HAD TO HAVE OCCURRED AT THE SAME TIME. SEE #1 OTHER SIDE.

litional Comments (Include Method of Control, Plans for Prevention of currence, etc.)
RAW SEWAGE WAS ACCIDENTLY DISCHARGED INTO THE BATTLE CREEK RIVER. THE CITY OF BATTLE CREEK, OR RALSTON'S FOOD DO NOT KNOW HOW OR WHEN THIS DAMAGE OCCURRED. FLOW OF SEWAGE WAS STOPPED AT 1:15 P.M.

ne and Title of Person Submitting Report
ROBERT NELSON, FIELD SERVICES SUPERINTENDENT, CITY OF BATTLE CREEK

(Signature)
Robert Nelson

se other side or additional sheets as necessary)

eturn this form to:
Department of Natural Resources
Water Quality Division
P.O. Box 30028
Lansing, Michigan 48909

24 hr. Emergency Number
1-517-373-7660
1-800-292-4706

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
WATER QUALITY DIVISION

Incident No _____ (DNR use only)

FILE

REPORT OF POLLUTIONAL DISCHARGE OR ENVIRONMENTAL INJURY

This form is to assist in reporting events resulting in a Pollutional Discharge or which adversely affect the environment (air, land, water) or events resulting in a public health or safety hazard. The written report is intended to supplement telephone notification regarding such events.

Date	Incident (Name of Person, Firm or Governmental Unit)
January 16, 1987	City of Battle Creek, Wastewater Division

Location of Incident (Be Specific)
Edgebrook Lift Station, 124 Edgebrook Street, City of Battle Creek, Calhoun County, State of Michigan

Material Lost	Amount	Name of Surface Water Involved
Untreated domestic sewage	50,000 gallons	Minges Brook, Battle Creek River

Date Incident was Discovered	Time of Discovery
January 3, 1987	11:00 A.M.

Name of Department of Natural Resources Representative Contacted
PEAS Operator #22, Bob Babcock returned our telephone call

Telephoned or Telegraphed by Whom	Time
Walter L. Thompson, Foreman II, Wastewater Division	2:30 P.M.

Cause of Incident (Include Type of Equipment and Other Details)
Lift station pump failure occurred when the pump control circuit breaker tripped due to a short in a alarm system switch. The alarm system switch was wired through the control circuit breaker. The loss of the pump control circuit breaker in turn triggered an alarm at the sewage treatment plant on our lift station monitoring panel and plant personnel promptly responded.

Nature of Incident (Include Complete Description of Damage)
The disability of the lift station pumps allowed sewage to build up in the station's wet well and connecting sewer system until it reached the level where it overflowed from a manhole onto the ground and into Minges Brook attributary of the Battle Creek River. Inspection of the brook and river indicated that there was no apparent environmental damage.

Additional Comments (Include Method of Control, Plans for Prevention of Recurrence, etc.)
(1) CLEAN-UP--Several thousand gallons of ponded sewage was pumped back into the sewer system and the spill area was hosed down and as much of that material as possible was into the sewer system.

(2) PREVENTION--To eliminate any reoccurrences; all similar wiring on all lift stations including the Edgebrook station has been disconnected from the control circuit and connected directly into the telemetering system.

Name and Title of Person Submitting Report	By (Signature)
Walter L. Thompson, Shift Foreman	Walter L. Thompson

(Use other side or additional sheets as necessary)

Return this form to:
Department of Natural Resources
WATER QUALITY DIVISION
P.O. BOX 30028
Lansing, Michigan 48909

24 hour Emergency Notification Number
517 — 373-7660
1-800-292-4706

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
WATER QUALITY DIVISION

Incident No. 2695-82 (DNR use only)

REPORT OF POLLUTIONAL DISCHARGE OR ENVIRONMENTAL INJURY

This form is to assist in reporting events resulting in a Pollutional Discharge or which adversely affect the environment (air, land, water) or events resulting in a public health or safety hazard. The written report is intended to supplement telephone notification regarding such events.

Date	Incident (Name of Person, Firm or Governmental Unit)
December 10, 1982	Battle Creek Wastewater Treatment Plant

Location of Incident (Be Specific)
Wastewater Treatment Plant 2000 W. River Road Battle Creek, MI 49015

Material Lost	Amount	Name of Surface Water Involved
Raw Sewage	approximately 600,000 gallons	Kalamazoo River

Date Incident was Discovered	Time of Discovery
December 11, 1982 ,	12:05 AM

Name of Department of Natural Resources Representative Contacted
PEAS Telephone Number

Telephoned or Telegraphed by Whom	Time
Cortland V. Overmyer	1:35 PM

Cause of Incident (Include Type of Equipment and Other Details)
Failure to open sluice gate in screen building

Nature of Incident (Include Complete Description of Damage)
Gate was closed when flow was diverted to east mechanical bar screen. This caused the Plant Influent to backup in the relief interceptor sewer for approximately an hour and a half before overflowing into the Kalamazoo River. This discharge is estimated to be approximately 600,000 gallons of raw sewage.

Additional Comments (Include Method of Control, Plans for Prevention of Recurrence, etc)

Name and Title of Person Submitting Report	By (Signature)
Cortland V. Overmyer, Division Manager	Cortland V. Overmyer

(Use other side or additional sheets as necessary)

Return this form to:
Department of Natural Resources
WATER QUALITY DIVISION
P.O. BOX 30028
Lansing, Michigan 48909

24 hour Emergency Notification Number
517 — 373-7660
1-800-292-4706

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
WATER QUALITY DIVISION

Incident No
(DNR use only)

REPORT OF POLLUTIONAL DISCHARGE OR ENVIRONMENTAL INJURY

This form is to assist in reporting events resulting in a Pollutional Discharge or which adversely affect the environment (air, land, water) or events resulting in a public health or safety hazard. The written report is intended to supplement telephone notification regarding such events.

Date	Incident (Name of Person, Firm or Governmental Unit)
7-20-89	Michigan Paperboard Co. (MPC)

Location of Incident (Be Specific)
Old Union Pump Co. parking Lot SE of MPC
storm sewer ~~under ground~~ flows to Kalamazoo River at Barney Blvd.

Material Lost	Amount	Name of Surface Water Involved
MPC Wastewater ~~Paper Stock~~	Unknown	~~Battle Creek~~ Kalamazoo River

Date Incident was Discovered	Time of Discovery
7-19-89	Unknown / Reported 7-20-89 5 pm

Name of Department of Natural Resources Representative Contacted
Operator #10 - 7-20-89 9:20pm

Telephoned or Telegraphed by Whom	Time
Bryan Pond	9:20pm

Cause of Incident (Include Type of Equipment and Other Details)
Overloaded sanitary sewerline with paper waste

Nature of Incident (Include Complete Description of Damage)
Aproximateley an area 20' x 60' x 1½" deep. covering a parking lot. Area was cleaned up on 7-20-89 by vactor - unknown amount of stock went to storm sewer.

Additional Comments (Include Method of Control, Plans for Prevention of Recurrence, etc)
Limited MGD dumped to sanitary sewer slow + steady flow would not cause over flow.

Name and Title of Person Submitting Report	By (Signature)
Bryan D. Pond Foreman II	Bryan Pond

(Use other side or additional sheets as necessary)

Return this form to:
Department of Natural Resources
WATER QUALITY DIVISION
P.O. BOX 30028
Lansing, Michigan 48909

24 hour Emergency Notification Number
517-373-7660
1-800-292-4706

DEPARTMENT OF NATURAL RESOURCES
WATER QUALITY DIVISION

(D.N.R. use only)

PORT OF POLLUTIONAL DISCHARGE OR ENVIRONMENTAL INJURY

This form is to assist in reporting events resulting in a Pollutional Discharge or which adversely affect the environment (air, land, water) or events resulting in a public health or safety hazard. The written report is intended to supplement telephone notification regarding such events.

te	Incident. (Name of Person, Firm or Governmental Unit)
AUGUST 9, 1990	CITY OF BATTLE CREEK

cation of Incident (Be Specific)
20 RIVERSIDE PARKWAY BATTLE CREEK MICHIGAN 49015

aterial Lost	Amount	Name of Surface Water Involved
RAW SEWAGE	31,000 GALS (EST)	KALAMAZOO RIVER

ate Incident was Discovered	Time of Discovery
AUGUST 9, 1990	6:15 P.M.

ame of Department of Natural Resources Representative Contacted
PEAS EMERGENCY SYSTEM

elephoned or Telegraphed by Whom	Time
BRYAN POND, FOREMAN II, WASTEWATER DIVISION	6:50 P.M.

ause of Incident (Include Type of Equipment and Other Details)
CONTRACTOR WAS WORKING ON SEWER WHEN BY-PASS PUMPING UNIT FAILED. STAND-BY UNIT WAS PLACED IN SERVICE PROMPTLY BUT NOT BEFORE RAW SEWAGE OVERFLOW TOOK PLACE. TIME WAS ESTIMATED AT ONE HALF HOUR BEFORE PUMPING RESUMED. VOLUME WAS ESTIMATED BASED ON 1.5 MGD CAPACITY OF SEWER AND ONE HALF HOUR DURATION = 31,000 GALLONS

ature of Incident (Include Complete Description of Damage)
MANHOLE SECTIONS (#378-412) WERE BEING LINED WITH "INSITUFORM" AND WERE BEING BY-PASS PUMPED FROM MH#377 TO MH#422 (SEE ATTACHED DRAWING). THE SEWAGE ENTERED THE KALAMAZOO RIVER THROUGH SEVERAL SMALL SPRINGS DRAINING INTO A STORM SEWER ON RIVERSIDE DRIVE AND TERRITORIAL ROAD AND ULTIMATELY INTO THE RIVER.

Additional Comments (Include Method of Control, Plans for Prevention of Recurrence, etc.)
CALHOUN COUNTY PUBLIC HEALTH DEPARTMENT SAMPLED AREA WELLS AND STREAMS EMPTYING THE AREA WITH NO IMMEDIATE OR OBVIOUS DAMAGES APPARENT FROM THIS SPILL. CLEAN-UP OCCURRED WITHIN SEVERAL HOURS OF THE INCIDENT AND OVER AN INCH OF RAINFALL WAS EXPERIENCED ON AUGUST 12, 1990, TO SUPPLEMENT THE FLUSHING OPERATIONS.

Name and Title of Person Submitting Report	By (Signature)
CORTLAND V. OVERMYER - WASTEWATER DIVISION SUPERINTENDENT	Cortland V. Overmyer

Use other side or additional sheets as necessary)

Return this form to:
Department of Natural Resources
WATER QUALITY DIVISION
P.O. BOX 30028
Lansing, Michigan 48909

24 hour Emergency Notification Number
517—373-7660
1-800-292-4706

Walt Thompson

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
WATER QUALITY DIVISION

inc.no. 1242-94
(DNR USE ONLY)

REPORT OF POLLUTIONAL DISCHARGE OR ENVIRONMENTAL INJURY

This form is to assist in reporting events resulting in a Pollutional Discharge or which adversely affect the environment (air, land, water) or events resulting in a public health or safety hazard. The written report is intended to supplement telephone notification regarding such events.

Date	Incident (Name of Person, Firm or Governmental Unit)
10/8/94	City of Battle Creek, Michigan

RECEIVED
OCT 12 1994
WASTEWATER TREATMENT PLANT

Location of incident (Be specific)
50' S. of Kalamazoo River on S. Kendall St.

Material lost	Amount	Name of Surface Water Involved
raw sewage	±150,000 gallons	Kalamazoo River

Date incident was Discovered	Time of Discovery
10/8/94	11:00 a.m.

Name of Department of Natural Resources Representative Contacted
Deb Snell 1-517-784-6730

Telephoned or Telegraphed by Whom	Time
Brian K. Cowham - Pumping Sta. Oper. I	4:00 p.m.

Cause of Incident (Include Type of Equipment and Other Details)
Accumulation of debris within sanitary sewer main, severely restricting sewage flow.

Nature of Incident (Include Complete Description of Damage)
Due to the main line restriction, raw sewage overflowed; sanitary (2) manhole structures flowing onto the intersection of S. Kendall St. and Hamblin Ave., draining into storm water inlets, which discharged into the Kalamazoo River.

Additional Comments (Include Method of Control, Plans for Prevention of Recurrence, etc.)
Raw sewage flow into the Kalamazoo River was stopped between 7;30 p.m. and 8:00 p.m. on Saturday, October 8, 1994. Ms. Snell was not at home, left message with answering party. City is in process of redesigning this section of sanitary sewer main.

Name and Title of Person Submitting Report
Robert Nelson, Field Services Superintendent

By (Signature)
Robert Nelson

(use other side or additional sheets as necessary)

Return this form to:
Department of Natural Resources
Water Quality Division
P.O. Box 30028
Lansing, Michigan 48909

24 hr. Emergency Number
1-517-373-7660
1-800-292-4706

CITY OF BATTLE CREEK, MICHIGAN

WASTEWATER DIVISION

OFFICE OF THE SUPERINTENDENT

Cortland V. Overmyer

(616) 966-3513

2000 W. River Road

Battle Creek, MI 49015

January 15, 1987

Mr. Jeffrey J. Braunscheidel
Surface Water Quality Division
MI Department of Natural Resources
301 E. Louis B. Glick Highway, 4th Floor
Jackson, MI 49201

SUBJECT: RAW SEWAGE SPILL (JANUARY 3, 1987)

Dear Jeff:

I apologize for the length of time it has taken me to respond to this incident which occurred on January 3, 1987. As you are aware, a PEAS call was made on this date concerning a raw sewage spill at the lift station located on Edgebrook Drive. I have completed my investigation of this facet of this problem and trust the following information will assist in understanding what transpired.

Approximately 10:30 A.M. on January 3, 1987, an alarm was triggered at the telemetry panel at the wastewater treatment plant for Station #2 (Edgebrook Drive). The alarm was discovered approximately 11:00 A.M. by the wastewater treatment plant operations staff while checking this area on their rounds. Staff responded to the station to find that the control power circuit breaker had tripped and caused a power failure at the station and subsequent raw sewage spill. The wastewater treatment plant supervisor went to the site and finally notified the lift station supervisor that a problem had occurred at this location. I do not believe any more sewage was spilled after this response and feel that the station was back under control about 12:40 P.M. Investigations found a shorted wire in the telemetry system had tripped the breaker on the station's control circuit thereby preventing the station from operating. The problem was corrected and the station returned to normal operations by approximately 4:40 P.M. that afternoon. During this time period (10:30 A.M. to 12:30 P.M.) an estimated quantity of approximately 50,000 gallons of sewage was spilled on the ground and in proximity to Minges Brook.

Unfortunately, my investigation has also revealed that apparently this same station failure occurred at 4:20 P.M. on January 2, 1987. The station went down at this time and an alarm was received at the wastewater treatment plant. Operations staff again responded and reset the breaker by 5:20 P.M. The station then apparently went into reset again at 5:57 P.M. but the operations staff did not find the alarm again until about 7:30 when they made their rounds through the control

room. The wastewater treatment plant supervisor was notified, but for some reason took no action on the matter until approximately 10:15 P.M. when the sewer night crew was dispatched to the scene. I estimate the raw sewage loss for this particular period at approximately 100,000-110,000 gallons. I find this entire matter highly unusual and intend on fully investigating my staff's actions to try to account for what I consider to be a poor response. I hope to update you informally at a later date of my findings.

Steps have been taken to correct the shorted wire, but more importantly to disconnect the station's telemetry from the control circuitry, which we feel was improperly installed from the beginning. Since this time we have discovered approximately 20 other stations which have been powered in this fashion and have corrected these errors.

I hope this information serves your needs and satisfies the requirements of the PEAS Reporting System and NPDES Permit. Please feel free to contact me if you need additional information.

Sincerely,

CITY OF BATTLE CREEK, MICHIGAN

Cortland V. Overmyer
Superintendent

CVO/ac

Attachments

cc: L. Osborn, Public Utilities Director
J. Evans/B. Kempainen, Lift Stations
W. Thompson, Foreman II (WWTP)
File

April 14, 1989

WASTEWATER DISCHARGES

	DEC 1982	WWTP	600,000 GALLONS	-- BAR SCREEN FAILURE
	JUN 1984	WWTP	125,000 GALLONS	-- RAW PUMP BRKR FAILURE
	SEP 1985	RIVERSIDE DR.	10,000 GALLONS	-- SEWER COLLAPSE
	SEP 1985	WWTP	4500 GALLONS	-- BAR SCREEN PLUGGED
	AUG 1986	KENDALL STR.	UNKNOWN	-- COMBINED SEWER
*	DEC 1986	E. MICH AVE	300 GALLONS	-- POWER FAILURE
*	JAN 1987	EDGEBROOK	100,000 GALLONS	-- CONTROL CIRCUIT FAILURE
*	MAY 1987	ST. MARY'S LAKE	10 GALLONS	-- LIGHTNING HIT
	MARCH 1987	HIAWATHA DR.	UNKNOWN	-- TAR DUMPED INTO SEWER
*	MARCH 1989	EDGEBROOK	1,000,000 GALLONS	-- BUBBLER FAILURE

* = DENOTES LIFT STATION

WASTEWATER BACKUPS (BASEMENT FLOODING)

CAPITAL / GOLDEN

MINGES BROOK

JENNINGS RD.

ICE STORM JAN 1985

CHAMBERS

LA VISTA

KISTLER

CHAPEL HILL

DOGWOOD TRAIL

ATTACHMENT D

Report to the Michigan Department of Environmental Quality Regarding the Past Discharges from Sanitary Sewers (Sanitary Sewer Overflows or SSOs)

Report Submitted by:	Lawrence L. DeLong Lawrence L. DeLong	**Date:**	July 10, 2000
Name			
Position	Wastewater Treatment Plant Superintendent		
Municipality	City of Battle Creek		
Address1	Wastewater Treatment Plant		
Address2	2000 W. River Rd.		
City, State, Zip	Battle Creek, MI 49015		
Telephone	616-966-3513		
Fax	616-965-3290		

Sanitary Sewer Overflow Location (brief description with map or Latitude/Longitude)	**Number of Discharges in the Last Five Years**	**Cause of Discharge** (Include dates of discharges with volume and quality, if known)	**Measures taken to Mitigate Discharge and/or to Prevent Re-occurrence** (include current status of measures)
Building 633 Lift Station #72 633 6th Av. 42d19'34.1"N 85d16'5.3"W	1	Lightening single phased station and tripped pumps. 9/9/97. 3,000 gal. raw sewage to ground.	Hooked up portable generator. Vacuumed and hosed sewage to wet well.
Breezy Bluff Lift Station #77 578 George B. Place 42d17'28.4"N 85d12'12.7"W	1	Excess flow from stuck Sloan valves at park. 8/2/97. 1,500 gal. raw sewage to ground.	Contacted customer, repaired valves.
Bauman Rd. Lift Station #100 399 1/2 St. Mary's Lake Rd. 42d22'33.1"N 85d11'30.7"W	1	Ice storm, blown Consumer's Power line fuse. 3/15/97. 250 gal. raw sewage to ground.	Hooked up portable generator.
F Drive Lift Station #97 10301 F Drive N. 42d17'26.3"N 85d5'45.7"W	1	Force main break. 2/10/97. 4,000 5,000 gal. raw sewage to ground.	Repaired force main.
Columbia Hts. Lifts Station #64 931 E. Columbia 42d18'0.2"N 85d10'16.7"W	1	Electrical spike damaged controls & tripped breakers. Pumps, bubbler & telemetry failed. 8,550 gal. raw sewage to Kalamazoo River.	Repaired electrical components and reset breakers. Replaced telemetry transmitter.
F Drive Lift Station #97 10301 F Drive N. 42d17'26.3"N 85d5'45.7"W	1	Consumers Power broke force main. 5/8/96. 20 gal. raw sewage to ground.	Repaired force main.
Building 633 Lift Station #72 633 6th Av. 42d19'34.1"N 85d16'5.3"W	1	Control PLC and control components failed. 12/20/95. 10,000 gal. raw sewage to ground.	Replaced components, reprogrammed PLC. Hosed spill to wet well.
Bauman Rd. Lift Station #100 399 1/2 St. Mary's Lake Rd. 42d22'33.1"N 85d11'30.7"W	1	Pumps tripped on high temperature. 7/7/95. 2,500 gal. raw sewage to ground.	Repaired cause of pump failure.

Please mail by July 15, 2000 to: **Mr. David A. Hamilton, Chief**
Surface Water Quality Division
PO Box 30273
Lansing, MI 48909

ATTACHMENT D

Report to the Michigan Department of Environmental Quality Regarding the Past Discharges from Sanitary Sewers (Sanitary Sewer Overflows or SSOs)

Report Submitted by:	Lawrence L. DeLong	Date: July 10, 2000
Name		
Position	Wastewater Treatment Plant Superintendent	
Municipality	City of Battle Creek	
Address1	Wastewater Treatment Plant	
Address2	2000 W River Rd	
City, State, Zip	Battle Creek, MI 49015	
Telephone	616-966-3513	
Fax	616-965-3290	

Sanitary Sewer Overflow Location (brief description with map or Latitude/Longitude)	Number of Discharges in the Last Five Years	Cause of Discharge (Include dates of discharges with volume and quality, if known)	Measures taken to Mitigate Discharge and/or to Prevent Re-occurrence (include current status of measures)
Edgebrook Lift Station #2 124 Edgebrook Dr. 42d17'45 4"N 85d13'26.0"W	1	Control power accidentally switched off. 12/6/99 500,000 gal. raw sewage to Minges Creek.	Protective cover installed, additional telemetry added.
Battle Creek WWTP, influent diversion structure. 42d20'45 9"N 85d15'49 9"W	1	Replacing raw sewage flow meter 2/28/99 60 gal. raw sewage discharged to channel going to river, but contained by temporary earth dam.	Pumped back to sewer.
Edgebrook Lift Station #2 124 Edgebrook Dr. 42d17'45.4"N 85d13'26.0"W	1	Stand-by generator malfunction 11/4/98. 5,000 gal. raw sewage discharged. 200 gal to Minges Creek.	Repaired generator. Raked and hosed spill Pumped back to sewer
East side of North Av., 100 yds south of Morgan Rd. 42d21'16.8"N 85d10'50 4"W	1	Force main break. 7/24/98 100 gal. raw sewage to ground.	Repaired force main. Vacuumed and hosed spill.
Breezy Bluff Lift Station #77 578 George B. Place 42d17'28 4"N 85d12'12.7"W	1	Excess flow from stuck Sloan valves in park bathroom. 7/23/98. 275 gal. raw sewage to ground.	Contacted customer, repaired valves.
Jail Lift Station #118 135 E State St. 42d19'1.5"N 85d10'38 1"W	1	Excessive flow from stuck Sloan valves in jail complex. 5/2/98 950 gal raw sewage to ground with 200 gal to Battle Creek River via storm sewer	Set up additional pumps. Notified customer, repaired valves. Vacuumed up sewage on ground
Battle Creek WWTP, influent diversion structure 42d20'45 9"N 85d15'49 9"W	1	Bar screen failure air-bound raw sewage pumps 6/26/98 104,000 gal. raw sewage to channel leading to Kalamazoo River	Cleared bar screens Modified procedures to run all pumps in auto and use two bar screens in time of heavy flow.
Battle Creek WWTP 2000 W River Rd 42d20'42 7"N 85d15'52.5"W	1	Broken sludge pipe 2/21/98 150 gal raw sludge to ground	Repaired pipe Vacuumed and hosed spill

Please mail by July 15, 2000 to: **Mr. David A. Hamilton, Chief**
Surface Water Quality Division
PO Box 30273
Lansing, MI 48909

CITY OF BATTLE CREEK, MICHIGAN

WASTEWATER DIVISION

OFFICE OF THE SUPERINTENDENT

Cortland V. Overmyer
(616) 966-3513

2000 W. River Road
Battle Creek, MI 49015

October 6, 1986

Mr. Jeffrey J. Braunscheidel
Surface Water Quality Division
MI Department of Natural Resources
301 E. Louis B. Glick Highway, 4th Floor
Jackson, MI 49201

SUBJECT: KENDALL STREET BRIDGE SEWAGE DISCHARGE

Dear Jeff:

I have enclosed a chronology of events describing the resolution of the above described subject. As indicated on the chronology, the problem has been taken care of and we do not anticipate any further discharge from this point. Please let me know if you desire additional information.

Sincerely,

CITY OF BATTLE CREEK, MICHIGAN

Cortland V. Overmyer
Superintendent
Wastewater Division

CVO/ac

Enclosures

cc: L. Osborn, Public Utilities Director
J. Evans, Acting Chief of Systems
M. Andrews, Industrial Surveillance
File

CHRONOLOGY

KENDALL STREET BRIDGE
(RAW SEWAGE DISCHARGE TO KALAMAZOO RIVER)

SEPTEMBER 18, 1986

2:00 P.M. - Jeff Braunscheidel arrived at the Wastewater Division offices to report an apparent raw sewage discharge from a storm drain on the southwest corner of the Kendall Street Bridge.

2:30 P.M. - The Wastewater Division Superintendent arrived at the site with J. Braunscheidel to investigate problem. Samples were taken for verification but it was evident from the fecal matter, color and other debris that the discharge was raw sewage.

3:00 P.M. - City staff was dispatched to the scene to determine the cause of the discharge but by this time the flow had dwindled to a trickle. City staff indicated an old combined sewer was located in the area and the bulkhead may have broken loose after installation some 10-15 years ago. The line was ran with sewer cleaning equipment to check for a blockage. Excavation would be required but due to the late hour it was decided that the storm sewer would be plugged for the night with excavation to begin in the morning.

5:00 P.M. - A large sewer plug (60") was secured from A & B Sewer Cleaning Company in Kalamazoo and efforts were made to install the plug for the evening. The plug could not be installed so the sewer was sand-bagged to eliminate the occasional discharge.

6:00 P.M. - The discharge had been controlled for the evening and excavation of the bulkhead was scheduled for first thing the next morning.

SEPTEMBER 19, 1986

8:00 A.M. - Excavation of the old bulkhead revealed a 6-inch gap at the top of the sewer which was allowing the discharge. Further thoughts indicated that the sewer should not be flowing that full and a blockage must be present somewhere in the area.

11:00 A.M. - The Division Superintendent was called to the scene to discuss the problem with City Engineering staff. Finally, two 12-inch iron sewers were located which served as the discharge of this old combined sewer.

11:30 A.M. - City staff entered the sewer and found one of the 12-inch lines were plugged causing the surcharge in the 48" combined sewer.

12:30 P.M. - Sewer cleaning operations began to restore flow to the sewer. Once flow was restored, pressure was relieved on the bulkhead and repairs could be finished to halt future discharge to the Kalamazoo River.

2:00 P.M. - Work was completed on the problem.

DNR

Date 7-6-81

Name

WHILE YOU WERE OUT

Name Roger Jones - DNR

Called to see / Telephoned you at _____ o'clock. Will come in / telephone again at _____ o'clock.

Wants you to phone. Telephone Number is _____

Remarks I called him to leave message that total loss to storm sewer from St. Rose on 7-3 was 100-300 yds.

Signed

CITY OF BATTLE CREEK, MICHIGAN

WASTEWATER DIVISION

OFFICE OF THE SUPERINTENDENT

Cortland V. Overmyer

(616) 966-3513

2000 W. River Road

Battle Creek, MI 49015

December 9, 1986

Mr. Jeffrey J. Braunscheidel
Surface Water Quality Division
MI Department of Natural Resources
301 E. Louis B. Glick Highway, 4th Floor
Jackson, MI 49201

SUBJECT: RAW SEWAGE DISCHARGE - DECEMBER 8, 1986

Dear Jeff:

As discussed on the telephone on the afternoon of December 8, I am sending you this information as a follow up to confirm the facts on the raw sewage spill at 1025 E. Michigan Avenue.

On December 8, 1986 at approximately 1:00 P.M. a Consumers Power substation located at Princeton Avenue lost power and crippled eight of our sewage lift stations. Unfortunately, the two largest of these stations do not have emergency power or pumping provisions located at the site. My staff was involved in cycling up-stream stations emptying into this particular section of the system to minimize the amount of wastewater flow into this area. Unfortunately, the station at 1025 E. Michigan was not able to contain the amount of sewage coming into this area and as a result discharged approximately 200-300 gallons of raw sewage into a small creek located at the station (see attached map). The outage lasted for approximately an hour and twenty minutes and through quick action from my staff we were able to limit any further damage to this one incident. Discussions with the supervisor in charge indicated that he did not feel any significant damage had been done to the creek which received the spill.

I trust this information is adequate for your use and you would not hesitate to contact me if further action is required.

Sincerely,

Cortland V. Overmyer

Cortland V. Overmyer
Superintendent

CVO/ac
Attachments
cc: L. Osborn, Public Utilities Director
J. Evans, Acting Chief of Systems
B. Kempainen, Foreman II
File

MICHIGAN WATER RESOURCES COMMISSION

Survey Results

Michigan Carton Company
Battle Creek

Fountain Street Plant
Pounds/24 hours

Date	Suspended Solids	Suspended Volatile Solids	Biochemical Oxygen % Demand	Flow
7-14-38	9,879	4,529	--	4.32 M.G.D.
9-11 & 12-51	8,129	5,314	2,615	2.56 M.G.D.
11-17 & 18-53	6,155	3,656	7,510	2.13 M.G.D.
6-14 & 15-55	7,075	4,168	3,581	2.07 M.G.D.
6-15 & 16-55	5,950	3,760	3,087	2.06 M.G.D.
8-16 & 17-55	2,372	1,216	1,976	1.65 M.G.D.
8-17 & 18-55	1,540	993	1,584	1.61 M.G.D.
1-10 & 11-56	2,661	2,098	1,968	1.87 M.G.D.
1-11 & 12-56	3,197	2,071	2,229	1.81 M.G.D.
1-12 & 13-56	3,135	1,850	2,679	1.92 M.G.D.
1-13 & 14-56	2,693	1,373	2,065	1.82 M.G.D.
12-18 & 19-56	5,741	2,290	2,696	1.48 M.G.D.
12-19 & 20-56	7,172	3,207	2,671	1.51 M.G.D.
1-21 & 22-57	2,824	1,450	964	2.00 M.G.D.
1-22 & 23-57	3,193	1,490	1,887	1.99 M.G.D.
1-23 & 24-57	5,210	2,391	3,166	1.90 M.G.D.
1-24 & 25-57	4,029	1,697	1,707	1.85 M.G.D.

Angell Street Plant
Pounds/24 hours

2-1 & 2-50	5,460	3,144	2,524	2.93 M.G.D.
7-8 & 9-53	8,500	5,860	3,171	3.83 M.G.D.
6-14 & 15-55	1,465	984	1,886	2.62 M.G.D.
6-15 & 16-55	6,623	3,663	2,725	2.91 M.G.D.
8-16 & 17-55	4,391	2,111	2,814	2.91 M.G.D.
8-17 & 18-55	3,178	1,820	2,984	2.91 M.G.D.
1-10 & 11-56	5,413	2,919	2,693	3.40 M.G.D.
1-11 & 12-56	4,007	2,099	1,418	3.27 M.G.D.
1-12 & 13-56	3,543	1,616	3,174	3.40 M.G.D.
1-13 & 14-56	1,970	1,220	1,688	3.75 M.G.D.
12-17 & 18-56	1,685	748	1,826	2.71 M.G.D.
12-18 & 19-56	3,070	1,112	2,109	2.79 M.G.D.
12-19 & 20-56	4,423	1,560	3,979	2.71 M.G.D.
1-21 & 22-57	1,212	808	1,473	2.39 M.G.D.
1-22 & 23-57	712	627	1,027	2.39 M.G.D.
1-23 & 24-57	1,388	643	1,090	2.39 M.G.D.
1-24 & 25-57	846	508	1,790	2.36 M.G.D.

lme

May 8, 1981

EXHIBIT A

SOURCE	AVG. 30 DAY VALUES INDUSTRIAL EFFLUENT GUIDELINES BOD	SS	CONFIDENTIAL DATA PRODUCTION CAPACITY/DAY	EFFLUENT BOD	SS
Cereals-Ready to Eat					
Kelloggs General Foods Ralstons	0.4#/1000#F.P.	0.4#/1000#F.P.	3,173,000#/day	1,269#/day	1,269#/day
Paperboard-Recycle Waste Paper					
St. Regis	3#/Ton F.P.	5#/Ton F.P.	500 tons/day	1,500#/day	2,500#/day
Residential-Commercial (Facilities Plan)	85% Removal		25,128 x 0.15	3,769#/day	
			45,159 x 0.15		6,774#/day
			TOTALS	6,538#/day	10,543#/day

BOD concentration limits @ Flow 24.0 mgd = $\frac{6,538}{24.0 \times 8.33}$ = 33 mg/l

SS concentration limits @ Flow 24.0 mgd = $\frac{10,543}{24.0 \times 8.33}$ = 53 mg/l

RESPONSES TO:

#14 PCB Data

DLZ Laboratories, Inc.
ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES
INDUSTRIAL HYGIENE

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MI 49015

Lab Number: DL21522-1
Report Date: 01/15/99
Analyzed :01-01-99
Analyzed by:SMH
Method :8082

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE/TIME	RECEIVED
LIME STABILIZED SLUDGE	Solid Waste		07 DEC 98	08 DEC 98

ANALYTE	RESULT ug/Kg	*RDL ug/Kg
PCB COMPOUNDS		
PCB-1016	<6,000	330
PCB-1221	<6,000	330
PCB-1232	<6,000	330
PCB-1242	<6,000	330
PCB-1248	<6,000	330
PCB-1254	<6,000	330
PCB-1260	<6,000	330
PCB-1262	<6,000	330
PCB-1268	<6,000	330
SURROGATE:	---	---
2,4,5,6-Tetrachloro-m-xylene	68%	
Decachlorobiphenyl	74%	

* Reportable Detection Limit

DLZ Laboratories, Inc.
ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES
INDUSTRIAL HYGIENE

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MI 49015

Lab Number: DL21524-1
Report Date: 01/06/99
Analyzed :12-23-98
Analyzed by:SMH
Method :8082

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE/TIME	RECEIVED
INFLUENT	Aqueous		07 DEC 98	08 DEC 98

ANALYTE	RESULT ug/L	*RDL ug/L
PCB COMPOUNDS		
PCB-1016	<2.5	0.2
PCB-1221	<2.5	0.2
PCB-1232	<2.5	0.4
PCB-1242	<2.5	0.2
PCB-1248	<2.5	0.2
PCB-1254	<2.5	0.2
PCB-1260	<2.5	0.2
PCB-1262	<2.5	0.2
PCB-1268	<2.5	0.2
SURROGATE:	---	---
2,4,5,6-Tetrachloro-m-xylene	125%	
Decachlorobiphenyl	110%	

* Reportable Detection Limit

LABORATORIES, INC.
A DLZ Company
ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES
INDUSTRIAL HYGIENE

Lab Number: DL24701-1
Report Date: 01/03/00

Analyzed :12-04-99
Analyzed by:TRK
Method :8082

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MI 49015

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE/TIME	RECEIVED
LIME STABILIZED SLUDGE ISPP TTO STUDY	Solid Waste		23 NOV 99	23 NOV 99

ANALYTE	RESULT ug/Kg	*RDL ug/Kg
PCB COMPOUNDS		
PCB-1016	<400	330
PCB-1221	<400	330
PCB-1232	<400	330
PCB-1242	<400	330
PCB-1248	<400	330
PCB-1254	<400	330
PCB-1260	<400	330
PCB-1262	<400	330
PCB-1268	<400	330
SURROGATE:	---	---
2,4,5,6-Tetrachloro-m-xylene	80%	
Decachlorobiphenyl	77%	

* Reportable Detection Limit

LABORATORIES, INC.
A DLZ Company
ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES
INDUSTRIAL HYGIENE

Lab Number: DL24700-1
Report Date: 01/04/00

Analyzed :12-09-99
Analyzed by:TRK
Method :8082

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MI 49015

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE/TIME	RECEIVED
INFLUENT ISPP TTO STUDY	Aqueous		23 NOV 99	23 NOV 99

ANALYTE	RESULT ug/L	*RDL ug/L
PCB COMPOUNDS		
PCB-1016	<2.7	0.2
PCB-1221	<2.7	0.2
PCB-1232	<2.7	0.4
PCB-1242	<2.7	0.2
PCB-1248	<2.7	0.2
PCB-1254	<1.1	0.2
PCB-1260	<1.1	0.2
PCB-1262	<1.1	0.2
PCB-1268	<1.1	0.2
SURROGATE:	---	---
2,4,5,6-Tetrachloro-m-xylene	65%	
Decachlorobiphenyl	72%	

* Reportable Detection Limit

DLZ Laboratories, Inc.
ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES
INDUSTRIAL HYGIENE

MR. BRIAN FRY
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

Lab Number: SE16183-8
Report Date: 11/10/97
Analyzed :11-04-97
Analyzed by:CAL
Method :8080

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE/TIME	RECEIVED
LIME STABILIZED SLUDGE	Solid Waste		20 OCT 97/12:30	21 OCT 97

ANALYTE	RESULT ug/kg	*D.L. ug/kg
PCB-1232	<930	330
PCB-1242	<930	330
PCB-1248	<930	330
PCB-1254	<930	330
PCB-1260	<930	330
alpha-Chlordane	<75	20
gamma-Chlordane	<75	20
2,4-DDT	<75	20
PCB-1262	<930	330
PCB-1268	<930	330
1,3,5-Trichlorobenzene	<330	330
Hexabromobenzene	<330	330
Mirex	<75	20
Pentachlorobenzene	<75	20
Pentachloronitrobenzene	<75	20
Bp6	<75	20

* Practical Quantitation Limit

DLZ Laboratories, Inc.
ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES
INDUSTRIAL HYGIENE

MR. BRIAN FRY
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

Lab Number: SE16183-8
Report Date: 11/10/97
Analyzed :11-04-97
Analyzed by:CAL
Method :8080

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE/TIME	RECEIVED
LIME STABILIZED SLUDGE	Solid Waste		20 OCT 97/12:30	21 OCT 97

ANALYTE	RESULT ug/kg	*D.L. ug/kg
TTO-PESTICIDE/PCB		
alpha-BHC	<75	20
delta-BHC	<75	20
beta-BHC	<75	20
Heptachlor	<75	20
gamma-BHC (Lindane)	<75	20
Aldrin	<75	20
Heptachlor epoxide	<75	20
Endosulfan I	<75	20
4,4'-DDE	<75	20
Dieldrin	<75	20
Endrin	<75	20
4,4'-DDD	<75	20
Endosulfan II	<75	20
4,4'-DDT	<75	20
Endrin aldehyde	<75	20
Endosulfan sulfate	<75	20
Chlordane	<370	25
Methoxychlor	<75	50
Toxaphene	<930	170
PCB-1016	<930	330
PCB-1221	<930	330

* Practical Quantitation Limit

DLZ Laboratories, Inc.
ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES
INDUSTRIAL HYGIENE

MR. BRIAN FRY
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

Lab Number: SE16183-7
Report Date: 11/10/97
Analyzed :11-04-97
Analyzed by:CAL
Method :8080

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE/TIME	RECEIVED
INFLUENT	Aqueous		20 OCT 97/13:05	21 OCT 97

ANALYTE	RESULT ug/L	*D.L. ug/L
PCB-1232	<1.2	0.4
PCB-1242	<1.2	0.2
PCB-1248	<1.2	0.2
PCB-1254	<1.2	0.2
PCB-1260	<1.2	0.2
alpha-Chlordane	<0.09	0.01
gamma-Chlordane	<0.09	0.01
2,4-DDT	<0.09	0.02
BP-6(PBB)	<0.09	0.01
PCB-1262	<1.2	0.2
PCB-1268	<1.2	0.2
1,3,5-Trichlorobenzene	<5.0	5.0
Hexabromobenzene	<10	10
Mirex	<0.09	0.01
Pentachlorobenzene	<2.0	2.0
Pentachloronitrobenzene	<2.0	2.0

* Practical Quantitation Limit

DLZ Laboratories, Inc.
ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES
INDUSTRIAL HYGIENE

MR. BRIAN FRY
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

Lab Number: SE16183-7
Report Date: 11/10/97
Analyzed :11-04-97
Analyzed by:CAL
Method :8080

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE/TIME	RECEIVED
INFLUENT	Aqueous		20 OCT 97/13:05	21 OCT 97

ANALYTE	RESULT ug/L	*D.L. ug/L
TTO-PESTICIDE/PCB		
alpha-BHC	<0.09	0.01
delta-BHC	<0.34	0.01
beta-BHC	<0.09	0.01
Heptachlor	<0.09	0.01
gamma-BHC (Lindane)	<0.09	0.01
Aldrin	<0.09	0.01
Heptachlor epoxide	<0.09	0.01
Endosulfan I	<0.09	0.01
4,4'-DDE	<0.09	0.02
Dieldrin	<0.09	0.02
Endrin	<0.09	0.02
4,4'-DDD	<0.09	0.02
Endosulfan II	<0.09	0.05
4,4'-DDT	<0.09	0.02
Endrin aldehyde	<0.09	0.02
Endosulfan sulfate	<0.10	0.05
Chlordane	<0.45	0.05
Methoxychlor	<0.5	0.5
Toxaphene	<1.2	1.0
PCB-1016	<1.2	0.2
PCB-1221	<1.2	0.2

* Practical Quantitation Limit

Centrifuge Cake

Parameter:	Count	Average	
Chloride	7	1,750	1647.91
Density	6	0.9	0.58
Nitrogen, Ammonia	7	20,943	17267.13
Nitrogen, Kjeldahl	7	61,571	37197.76
Nitrogen, Nitrate	7	42	21.87
Phosphorus, Total	7	12,314	6422.82
Solids, Total	7	25	12.68
Solids, Total Volatile	5	38	32.46
Sulfate	7	4,914	7677.69
Corrosivity (pH)	5	6.3	0.86
NONAQUEOUS METAL			
Arsenic	7	2.9	5.49
Barium	7	192.6	191.24
Beryllium	7	0.11	0.28
Calcium	7	10,943	8338.87
Chromium	7	31.1	29.96
Copper	7	214.0	216.11
Lead	7	25.3	24.69
Magnesium	7	1,771	1499.52
Mercury	7	0.39	1.28
Nickel	7	7.6	10.42
Potassium	7	1,743	1796.82
Silver	7	4.7	5.86
Sodium	7	1,107	1169.19
Zinc	7	357.1	363.53
Cadmium	7	1.6	2.49
Molybdenum	7	7.7	8.84
Selenium	7	0.2	0.38
PCB'S			
Aroclor-1016	4	0.0	0.00
Aroclor-1221	4	0.0	0.00
Aroclor-1232	4	0.0	0.00
Aroclor-1242	4	0.0	0.00
Aroclor-1248	4	0.0	0.00
Aroclor-1254	4	0.0	0.00
Aroclor-1260	4	0.0	0.00

9/21/95 – 1/25/96

NATIONAL ENVIRONMENTAL TESTING, INC.

Auburn Hills Division
1700 Harmon Road
Auburn Hills, MI 48326
Tel (810) 391-2050
Fax (810) 391-9698
(800) 526-4951

ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

04/09/1996

Job No 96 01386
Sample No 196843

Quarterly

Sample Description Centrifuge Cake 02/15-03/09/1996

Date Taken 03/09/1996

Date Received 03/12/1996

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech	Methodology	Note
ACID COMPOUNDS			03/15/1996				
Pentachlorophenol	<25	mg/kg		03/22/1996	wad	8270 (1)	
Phenol	<5 0	mg/kg		03/22/1996	wad	8270 (1)	
2,4,6-Trichlorophenol	<5 0	mg/kg		03/22/1996	wad	8270 (1)	
2,3,7,8 TCDD Screen*	ND	mg/kg		03/22/1996	wad	8270 (1)	8
PESTICIDES			03/14/1996				
Aldrin	<2 1	mg/kg		04/03/1996	dal	8080 (1)	
gamma-BHC	<1 7	mg/kg		04/03/1996	dal	8080 (1)	
Chlordane	<4 2	mg/kg		04/03/1996	dal	8080 (1)	
4,4'-DDD	<2 1	mg/kg		04/03/1996	dal	8080 (1)	
4,4'-DDE	<2 1	mg/kg		04/03/1996	dal	8080 (1)	
4,4'-DDT	<2 1	mg/kg		04/03/1996	dal	8080 (1)	
Dieldrin	<2 1	mg/kg		04/03/1996	dal	8080 (1)	
Endrin	<2 1	mg/kg		04/03/1996	dal	8080 (1)	
Heptachlor	<3 3	mg/kg		04/03/1996	dal	8080 (1)	
Toxaphene	<3 3	mg/kg		04/03/1996	dal	8080 (1)	
Malathion	na	mg/kg		04/03/1996	dal		
PCBs			03/14/1996				
Aroclor-1016	<4 2	mg/kg		03/16/1996	mmk	8080 (1)	
Aroclor-1221	<4 2	mg/kg		03/16/1996	mmk	8080 (1)	
Aroclor-1232	<4 2	mg/kg		03/16/1996	mmk	8080 (1)	
Aroclor-1242	<4 2	mg/kg		03/16/1996	mmk	8080 (1)	
Aroclor-1248	<4 2	mg/kg		03/16/1996	mmk	8080 (1)	
Aroclor-1254	<4 2	mg/kg		03/16/1996	mmk	8080 (1)	
Aroclor-1260	<4 2	mg/kg		03/16/1996	mmk	8080 (1)	

Results reported on a dry weight basis

NATIONAL ENVIRONMENTAL TESTING, INC.

Auburn Hills Division
1700 Harmon Road
Auburn Hills, MI 48326
Tel: (810) 391-2050
Fax: (810) 391-9698
(800) 526-4951

ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

03/14/1996

Job No.: 96.00949
Sample No.: 195711

Residuals Program

Sample Description: Centrifuge Cake 01/25-02/14

Date Taken: 02/14/1996

Date Received: 02/16/1996

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
ACID COMPOUNDS			02/21/1996				
Pentachlorophenol	<20,000	ug/kg		02/29/1996	wad	8270 (1)	
Phenol	<4,000	ug/kg		02/29/1996	wad	8270 (1)	
2,4,6-Trichlorophenol	<4,000	ug/kg		02/29/1996	wad	8270 (1)	
2,3,7,8 TCDD Screen*	ND	mg/kg		02/29/1996	wad	8270 (1)	
PESTICIDES			02/20/1996				
Aldrin	<6.0	mg/kg		03/04/1996	mmk	8080 (1)	
gamma-BHC	<4.8	mg/kg		03/04/1996	mmk	8080 (1)	
Chlordane	<12	mg/kg		03/04/1996	mmk	8080 (1)	
4,4'-DDD	<6.0	mg/kg		03/04/1996	mmk	8080 (1)	
4,4'-DDE	<6.0	mg/kg		03/04/1996	mmk	8080 (1)	
4,4'-DDT	<6.0	mg/kg		03/04/1996	mmk	8080 (1)	
Dieldrin	<6.0	mg/kg		03/04/1996	mmk	8080 (1)	
Endrin	<6.0	mg/kg		03/04/1996	mmk	8080 (1)	
Heptachlor	<9.6	mg/kg		03/04/1996	mmk	8080 (1)	
Toxaphene	<9.6	mg/kg		03/04/1996	mmk	8080 (1)	
Malathion	ND	mg/kg		03/04/1996	mmk		
PCBs			02/20/1996				
Aroclor-1016	<12	mg/kg		02/27/1996	mmk	8080 (1)	
Aroclor-1221	<12	mg/kg		02/27/1996	mmk	8080 (1)	
Aroclor-1232	<12	mg/kg		02/27/1996	mmk	8080 (1)	
Aroclor-1242	<12	mg/kg		02/27/1996	mmk	8080 (1)	
Aroclor-1248	<12	mg/kg		02/27/1996	mmk	8080 (1)	
Aroclor-1254	<12	mg/kg		02/27/1996	mmk	8080 (1)	
Aroclor-1260	<12	mg/kg		02/27/1996	mmk	8080 (1)	

NATIONAL ENVIRONMENTAL TESTING, INC.

Auburn Hills Division
1700 Harmon Road
Auburn Hills, MI 48326
Tel: (810) 391-2050
Fax: (810) 391-9698
(800) 526-4951

ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

03/14/1996

Job No.: 96.00949
Sample No.: 195711

Residuals Program

Sample Description: Centrifuge Cake 01/25-02/14

Date Taken: 02/14/1996

Date Received: 02/16/1996

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
BASE NEUTRAL COMPOUNDS			02/21/1996				
Benzidine	<4,000	ug/kg		02/29/1996	wad	8270 (1)	
Benzo(a)anthracene	<4,000	ug/kg		02/29/1996	wad	8270 (1)	
Benzo(a)pyrene	<4,000	ug/kg		02/29/1996	wad	8270 (1)	
Bis(2-ethylhexyl)phthalate	<4,000	ug/kg		02/29/1996	wad	8270 (1)	
3,3'-Dichlorobenzidine	<4,000	ug/kg		02/29/1996	wad	8270 (1)	
Hexachlorobenzene	<4,000	ug/kg		02/29/1996	wad	8270 (1)	
Hexachlorobutadiene	<4,000	ug/kg		02/29/1996	wad	8270 (1)	
4,4-Methylene-bis	---			02/29/1996	wad	8270 (1)	
(2-Chloroaniline)	<4,000	ug/kg		02/29/1996	wad	8270 (1)	
N-Nitrosodimethylamine	<4,000	ug/kg		02/29/1996	wad	8270 (1)	
Phenanthrene	<4,000	ug/kg		02/29/1996	wad	8270 (1)	
Polychlorinated biphenyls(PCB)	ND	ug/kg		02/29/1996	wad	8270 (1)	

NATIONAL ENVIRONMENTAL TESTING, INC.

Auburn Hills Division
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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

02/26/1996

Job No.: 96.00451
Sample No : 194610

Residuals Program

Sample Description: Centrifuge Cake 01/04-01/24/1995

Date Taken: 01/24/1996

Date Received: 01/26/1996

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
ACID COMPOUNDS			02/02/1996				
Pentachlorophenol	<24,000	ug/kg		02/14/1996	wad	8270 (1)	
Phenol	<4,600	ug/kg		02/14/1996	wad	8270 (1)	
2,4,6-Trichlorophenol	<4,600	ug/kg		02/14/1996	wad	8270 (1)	
2,3,7,8 TCDD Screen*	ND	mg/kg		02/14/1996	wad	8270 (1)	
PESTICIDES			01/29/1996				
Aldrin	<1.9	mg/kg		01/30/1996	mmk	8080 (1)	
gamma-BHC	<1.5	mg/kg		01/30/1996	mmk	8080 (1)	
Chlordane	<3.8	mg/kg		01/30/1996	mmk	8080 (1)	
4,4'-DDD	<1.9	mg/kg		01/30/1996	mmk	8080 (1)	
4,4'-DDE	<1.9	mg/kg		01/30/1996	mmk	8080 (1)	
4,4'-DDT	<1 9	mg/kg		01/30/1996	mmk	8080 (1)	
Dieldrin	<1 9	mg/kg		01/30/1996	mmk	8080 (1)	
Endrin	<1.9	mg/kg		01/30/1996	mmk	8080 (1)	
Heptachlor	<3.0	mg/kg		01/30/1996	mmk	8080 (1)	
Toxaphene	<3 0	mg/kg		01/30/1996	mmk	8080 (1)	
Malathion	na	ug/L		01/30/1996	mmk		
PCBs			01/29/1996				
Aroclor-1016	<3 8	mg/kg		01/29/1996	mmk	8080 (1)	
Aroclor-1221	<3 8	mg/kg		01/29/1996	mmk	8080 (1)	
Aroclor-1232	<3.8	mg/kg		01/29/1996	mmk	8080 (1)	
Aroclor-1242	<3 8	mg/kg		01/29/1996	mmk	8080 (1)	
Aroclor-1248	<3.8	mg/kg		01/29/1996	mmk	8080 (1)	
Aroclor-1254	<3 8	mg/kg		01/29/1996	mmk	8080 (1)	
Aroclor-1260	<3 8	mg/kg		01/29/1996	mmk	8080 (1)	

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

02/26/1996

Job No.: 96.00451
Sample No.: 194610

Residuals Program

Sample Description: Centrifuge Cake 01/04-01/24/1995

Date Taken: 01/24/1996

Date Received: 01/26/1996

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
BASE NEUTRAL COMPOUNDS			02/02/1996				
Benzidine	<4,600	ug/kg		02/14/1996	wad	8270 (1)	
Benzo(a)anthracene	<4,600	ug/kg		02/14/1996	wad	8270 (1)	
Benzo(a)pyrene	<4,600	ug/kg		02/14/1996	wad	8270 (1)	
Bis(2-ethylhexyl)phthalate	<4,600	ug/kg		02/14/1996	wad	8270 (1)	
2,4-Diaminotoluene	<4,600	ug/kg		02/14/1996	wad	8270 (1)	
3,3'-Dichlorobenzidine	<4,600	ug/kg		02/14/1996	wad	8270 (1)	
Hexachlorobenzene	<4,600	ug/kg		02/14/1996	wad	8270 (1)	
Hexachlorobutadiene	<4,600	ug/kg		02/14/1996	wad	8270 (1)	
4,4-Methylene-bis	---			02/14/1996	wad	8270 (1)	
(2-Chloroaniline)	ND	ug/kg		02/14/1996	wad	8270 (1)	
N-Nitrosodimethylamine	<4,600	ug/kg		02/14/1996	wad	8270 (1)	
Phenanthrene	<4,600	ug/kg		02/14/1996	wad	8270 (1)	
Polychlorinated biphenyls(PCB)	ND	ug/kg		02/14/1996	wad	8270 (1)	

DLZ Laboratories, Inc.
ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES
INDUSTRIAL HYGIENE

LOG NO: SE13628
Received: 17 SEP 96
Reported: 11 OCT 96

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SL SAMPLES	DATE SAMPLED
SE13628-11	BCWWTP LIME STABILIZED SLUDGE	16 SEP 96

PARAMETER	SE13628-11
PCB-1260, ug/kg	<330
alpha-Chlordane, ug/kg	<120
gamma-Chlordane, ug/kg	<120
2,4-DDT, ug/kg	<120
BP-6, ug/kg	<120
PCB-1262, ug/kg	<330
PCB-1268, ug/kg	<330
Additional Compounds:	
1,3,5-Trichlorobenzene, ug/kg	<330
Hexabromobenzene, ug/kg	<330
Mirex, ug/kg	<120
Pentachlorobenzene, ug/kg	<120
Pentachloronitrobenzene, ug/kg	<120

DLZ Laboratories, Inc.
ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES
INDUSTRIAL HYGIENE

LOG NO: SE13628
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MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SL SAMPLES	DATE SAMPLED
SE13628-11	BCWWTP LIME STABILIZED SLUDGE	16 SEP 96

PARAMETER	SE13628-11
PESTICIDE/PCB COMPOUNDS	
alpha-BHC, ug/kg	<120
delta-BHC, ug/kg	<120
beta-BHC, ug/kg	<120
Heptachlor, ug/kg	<120
gamma-BHC (Lindane), ug/kg	<120
Aldrin, ug/kg	<120
Heptachlor epoxide, ug/kg	<120
Endosulfan I, ug/kg	<120
4,4'-DDE, ug/kg	<120
Dieldrin, ug/kg	<120
Endrin, ug/kg	<120
4,4'-DDD, ug/kg	<120
Endosulfan II, ug/kg	<120
4,4'-DDT, ug/kg	<120
Endrin aldehyde, ug/kg	<120
Endosulfan sulfate, ug/kg	<120
Chlordane, ug/kg	<120
Methoxychlor, ug/kg	<500
Toxaphene, ug/kg	<170
PCB-1016, ug/kg	<330
PCB-1221, ug/kg	<330
PCB-1232, ug/kg	<330
PCB-1242, ug/kg	<330
PCB-1248, ug/kg	<330
PCB-1254, ug/kg	<330

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

07/08/1996

Job No.: 96.03549
Sample No.: 203248

PCB Analysis

Sample Description: Lime-Stabilized Sludge 06/21

Date Taken: 06/21/1996

Date Received: 06/24/1996

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
Solids, Total	11	%		07/07/1996	jsg	160 3 (3)	
PCBs			06/25/1996				
Aroclor-1016	<1.0	mg/kg		06/26/1996	mmk	8080 (1)	
Aroclor-1221	<1.0	mg/kg		06/26/1996	mmk	8080 (1)	
Aroclor-1232	<1 0	mg/kg		06/26/1996	mmk	8080 (1)	
Aroclor-1242	<1.0	mg/kg		06/26/1996	mmk	8080 (1)	
Aroclor-1248	<1.0	mg/kg		06/26/1996	mmk	8080 (1)	
Aroclor-1254	<1.0	mg/kg		06/26/1996	mmk	8080 (1)	
Aroclor-1260	<1.0	mg/kg		06/26/1996	mmk	8080 (1)	

Results reported on a dry weight basis.

ACCREDITED

Lime Stablized Sludge

Parameter:	Count	Average	STD
Chloride	8	6,356	5283.85
Density	8	1	0.33
Nitrogen, Ammonia	8	5,193	8376.78
Nitrogen, Kjeldahl	8	21,636	16314.25
Nitrogen, Nitrate	8	29	34.58
Phosphorus, Total	8	4,731	3483.67
Solids, Total	9	18	20.32
Solids, Total Volatile	8	25	29.50
Sulfate	8	3,050	4544.86
Corrosivity (pH)	8	11	1.56
NONAQUEOUS METAL			
Arsenic	8	0.7	1.85
Barium	8	142.7	90.21
Beryllium	8	0.6	1.61
Calcium	8	97,612.5	59233.28
Chromium	8	18.4	12.71
Copper	8	165.7	103.08
Lead	8	16.0	17.44
Magnesium	8	3,162.5	1580.30
Mercury	8	0.2	0.33
Nickel	8	1.8	4.63
Potassium	8	2,306.8	1253.70
Silver	8	4.8	7.18
Sodium	7	4,121.4	3740.09
Zinc	8	254.5	162.47
Cadmium	8	1.2	0.74
Molybdenum	8	4.7	3.46
Selenium	8	0.9	1.74
PCB'S			
Aroclor-1016	7	0.0	0.00
Aroclor-1221	7	0.0	0.00
Aroclor-1232	7	0.0	0.00
Aroclor-1242	7	0.0	0.00
Aroclor-1248	7	0.0	0.00
Aroclor-1254	7	0.0	0.00
Aroclor-1260	7	0.0	0.00

9/12/95 - 7/8/96

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

03/28/1996

Job No.. 96.01304
Sample No.: 196621

Lime Stabilized

Sample Description: Lime Stabilized Sludge 03/03

Date Taken: 03/03/1996

Date Received: 03/06/1996

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
ACID COMPOUNDS			03/07/1996				
Pentachlorophenol	<190	mg/kg		03/12/1996	wad	8270 (1)	
Phenol	<38	mg/kg		03/12/1996	wad	8270 (1)	
2,4,6-Trichlorophenol	<38	mg/kg		03/12/1996	wad	8270 (1)	
2,3,7,8 TCDD Screen*	ND	mg/kg		03/12/1996	wad	8270 (1)	
PESTICIDES			03/08/1996				
Aldrin	<9.5	mg/kg		03/16/1996	mmk	8080 (1)	
gamma-BHC	<7.6	mg/kg		03/16/1996	mmk	8080 (1)	
Chlordane	<19	mg/kg		03/16/1996	mmk	8080 (1)	
4,4'-DDD	<9.5	mg/kg		03/16/1996	mmk	8080 (1)	
4,4'-DDE	<9.5	mg/kg		03/16/1996	mmk	8080 (1)	
4,4'-DDT	<9.5	mg/kg		03/16/1996	mmk	8080 (1)	
Dieldrin	<9.5	mg/kg		03/16/1996	mmk	8080 (1)	
Endrin	<9.5	mg/kg		03/16/1996	mmk	8080 (1)	
Heptachlor	<15	mg/kg		03/16/1996	mmk	8080 (1)	
Toxaphene	<15	mg/kg		03/16/1996	mmk	8080 (1)	
Malathion	nd	mg/kg		03/16/1996	mmk		
PCBs			03/08/1996				
Aroclor-1016	<19	mg/kg		03/11/1996	mmk	8080 (1)	
Aroclor-1221	<19	mg/kg		03/11/1996	mmk	8080 (1)	
Aroclor-1232	<19	mg/kg		03/11/1996	mmk	8080 (1)	
Aroclor-1242	<19	mg/kg		03/11/1996	mmk	8080 (1)	
Aroclor-1248	<19	mg/kg		03/11/1996	mmk	8080 (1)	
Aroclor-1254	<19	mg/kg		03/11/1996	mmk	8080 (1)	
Aroclor-1260	<19	mg/kg		03/11/1996	mmk	8080 (1)	

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

01/31/1996

Job No.: 96.00002
Sample No.: 193421

Lime Stabilized

Sample Description: Lime Stabilized Sludge 01/02

Date Taken: 01/02/1996

Date Received: 01/04/1996

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
ACID COMPOUNDS			01/05/1996				
Pentachlorophenol	<2,400	ug/kg		01/11/1996	wad	8270 (1)	
Phenol	<460	ug/kg		01/11/1996	wad	8270 (1)	
2,4,6-Trichlorophenol	<460	ug/kg		01/11/1996	wad	8270 (1)	
2,3,7,8 TCDD Screen*	ND	ug/kg		01/11/1996	wad	8270 (1)	8
PESTICIDES			01/10/1996				
Aldrin	<0.69	mg/kg		01/11/1996	mmk	8080 (1)	
gamma-BHC	<0.56	mg/kg		01/11/1996	mmk	8080 (1)	
Chlordane	<1.4	mg/kg		01/11/1996	mmk	8080 (1)	
4,4'-DDD	<0.69	mg/kg		01/11/1996	mmk	8080 (1)	
4,4'-DDE	<0.69	mg/kg		01/11/1996	mmk	8080 (1)	
4,4'-DDT	<0.69	mg/kg		01/11/1996	mmk	8080 (1)	
Dieldrin	<0.69	mg/kg		01/11/1996	mmk	8080 (1)	
Endrin	<0.69	mg/kg		01/11/1996	mmk	8080 (1)	
Heptachlor	<1.1	mg/kg		01/11/1996	mmk	8080 (1)	
Toxaphene	<1.1	mg/kg		01/11/1996	mmk	8080 (1)	
PCBs			01/10/1996				
Aroclor-1016	<1.4	mg/kg		01/10/1996	mmk	8080 (1)	
Aroclor-1221	<1.4	mg/kg		01/10/1996	mmk	8080 (1)	
Aroclor-1232	<1.4	mg/kg		01/10/1996	mmk	8080 (1)	
Aroclor-1242	<1.4	mg/kg		01/10/1996	mmk	8080 (1)	
Aroclor-1248	<1.4	mg/kg		01/10/1996	mmk	8080 (1)	
Aroclor-1254	<1.4	mg/kg		01/10/1996	mmk	8080 (1)	
Aroclor-1260	<1.4	mg/kg		01/10/1996	mmk	8080 (1)	

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ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES
INDUSTRIAL HYGIENE

LOG NO: SE13628
Received: 17 SEP 96
Reported: 11 OCT 96

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQ SAMPLES	DATE SAMPLED
SE13628-1	BCWWTP INFLUENT	16 SEP 96
SE13628-2	SITE # 163	16 SEP 96
SE13628-3	SITE # 143	16 SEP 96
SE13628-4	SITE # 206	16 SEP 96
SE13628-5	SITE # 202	16 SEP 96

PARAMETER	SE13628-1	SE13628-2	SE13628-3	SE13628-4	SE13628-5
PCB-1232, ug/L	<0.4	<0.4	<0.4	<0.4	<0.24
PCB-1242, ug/L	<0.2	<0.2	<0.2	<0.2	<0.24
PCB-1248, ug/L	<0.2	<0.2	<0.2	<0.2	<0.24
PCB-1254, ug/L	<0.2	<0.2	<0.2	<0.2	<0.24
PCB-1260, ug/L	<0.2	<0.2	<0.2	<0.2	<0.24
alpha-Chlordane, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
gamma-Chlordane, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
2,4-DDT, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
BP-6, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
PCB-1262, ug/L	<0.2	<0.2	<0.2	<0.2	<0.24
PCB-1268, ug/L	<0.2	<0.2	<0.2	<0.2	<0.24
Additional Compounds:					
1,3,5-Trichlorobenzene, ug/L	<5.0	<5.0	<5.0	<5.0	<5.0
Hexabromobenzene, ug/L	<10	<10	<10	<10	<10
Mirex, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
Pentachlorobenzene, ug/L	<2.0	<2.0	<2.0	<2.0	<2.0
Pentachloronitrobenzene, ug/L	<2.0	<2.0	<2.0	<2.0	<2.0

DLZ Laboratories, Inc.
ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES
INDUSTRIAL HYGIENE

LOG NO: SE13628
Received: 17 SEP 96
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MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQ SAMPLES	DATE SAMPLED
SE13628-1	BCWWTP INFLUENT	16 SEP 96
SE13628-2	SITE # 163	16 SEP 96
SE13628-3	SITE # 143	16 SEP 96
SE13628-4	SITE # 206	16 SEP 96
SE13628-5	SITE # 202	16 SEP 96

PARAMETER	SE13628-1	SE13628-2	SE13628-3	SE13628-4	SE13628-5
PESTICIDE/PCB COMPOUNDS					
alpha-BHC, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
delta-BHC, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
beta-BHC, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
Heptachlor, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
gamma-BHC (Lindane), ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
Aldrin, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
Heptachlor epoxide, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
Endosulfan I, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
4,4'-DDE, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
Dieldrin, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
Endrin, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
4,4'-DDD, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
Endosulfan II, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
4,4'-DDT, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
Endrin aldehyde, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
Endosulfan sulfate, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
Chlordane, ug/L	<0.19	<0.08	<0.19	<0.08	<0.38
Methoxychlor, ug/L	<1.0	<0.5	<1.0	<0.5	<1.0
Toxaphene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
PCB-1016, ug/L	<0.2	<0.2	<0.2	<0.2	<0.24
PCB-1221, ug/L	<0.2	<0.2	<0.2	<0.2	<0.24

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

03/22/1996

Job No · 96 01469
Sample No.· 197032

PCB Analysis

Sample Description: ASE 03/14

Date Taken. 03/14/1996

Date Received. 03/15/1996

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech	Methodology	Note
PCBs			03/18/1996				
Aroclor-1016	<0.050	ug/L		03/19/1996	mmk	608 (5)	
Aroclor-1221	<0.050	ug/L		03/19/1996	mmk	608 (5)	
Aroclor-1232	<0.050	ug/L		03/19/1996	mmk	608 (5)	
Aroclor-1242	<0 050	ug/L		03/19/1996	mmk	608 (5)	
Aroclor-1248	<0.050	ug/L		03/19/1996	mmk	608 (5)	
Aroclor-1254	<0.050	ug/L		03/19/1996	mmk	608 (5)	
Aroclor-1260	<0 050	ug/L		03/19/1996	mmk	608 (5)	

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

03/22/1996

Job No.: 96 01469
Sample No.: 197031

PCB Analysis

Sample Description: Influent 03/14

Date Taken: 03/14/1996

Date Received: 03/15/1996

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
PCBs			03/18/1996				
Aroclor-1016	<0 050	ug/L		03/19/1996	mmk	608 (5)	
Aroclor-1221	<0.050	ug/L		03/19/1996	mmk	608 (5)	
Aroclor-1232	<0.050	ug/L		03/19/1996	mmk	608 (5)	
Aroclor-1242	<0 050	ug/L		03/19/1996	mmk	608 (5)	
Aroclor-1248	<0.050	ug/L		03/19/1996	mmk	608 (5)	
Aroclor-1254	<0.050	ug/L		03/19/1996	mmk	608 (5)	
Aroclor-1260	<0.050	ug/L		03/19/1996	mmk	608 (5)	

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

06/28/1996

Job No.: 96 03451
Sample No.. 202961

PCB Analysis

Sample Description: ASE 06/18

Date Taken: 06/18/1996

Date Received: 06/19/1996

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
PCBs			06/25/1996				
Aroclor-1016	<0.050	ug/L		06/26/1996	mmk	608 (5)	
Aroclor-1221	<0.050	ug/L		06/26/1996	mmk	608 (5)	
Aroclor-1232	<0.050	ug/L		06/26/1996	mmk	608 (5)	
Aroclor-1242	<0.050	ug/L		06/26/1996	mmk	608 (5)	
Aroclor-1248	<0.050	ug/L		06/26/1996	mmk	608 (5)	
Aroclor-1254	<0.050	ug/L		06/26/1996	mmk	608 (5)	
Aroclor-1260	<0.050	ug/L		06/26/1996	mmk	608 (5)	

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

06/28/1996

Job No.: 96.03451
Sample No.: 202960

PCB Analysis

Sample Description: Influent 06/18

Date Taken: 06/18/1996

Date Received: 06/19/1996

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
PCBs			06/25/1996				
Aroclor-1016	<0.050	ug/L		06/26/1996	mmk	608 (5)	
Aroclor-1221	<0.050	ug/L		06/26/1996	mmk	608 (5)	
Aroclor-1232	<0.050	ug/L		06/26/1996	mmk	608 (5)	
Aroclor-1242	<0.050	ug/L		06/26/1996	mmk	608 (5)	
Aroclor-1248	<0.050	ug/L		06/26/1996	mmk	608 (5)	
Aroclor-1254	<0.050	ug/L		06/26/1996	mmk	608 (5)	
Aroclor-1260	<0.050	ug/L		06/26/1996	mmk	608 (5)	

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

01/31/1996

Job No.: 96.00050
Sample No.: 193554

Sample Description: Centrifuge Cake 12/14/95-01/03/1996

Date Taken: 01/03/1996

Date Received: 01/05/1996

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
ACID COMPOUNDS			01/09/1996				
Pentachlorophenol	<3,500	ug/kg		01/12/1996	wad	8270 (1)	
Phenol	<670	ug/kg		01/12/1996	wad	8270 (1)	
2,4,6-Trichlorophenol	<670	ug/kg		01/12/1996	wad	8270 (1)	
2,3,7,8 TCDD Screen*	ND	mg/kg		01/12/1996	wad	8270 (1)	
PESTICIDES			01/10/1996				
Aldrin	<1.0	mg/kg		01/11/1996	mmk	8080 (1)	
gamma-BHC	<0.82	mg/kg		01/11/1996	mmk	8080 (1)	
Chlordane	<2.0	mg/kg		01/11/1996	mmk	8080 (1)	
4,4'-DDD	<1.0	mg/kg		01/11/1996	mmk	8080 (1)	
4,4'-DDE	<1.0	mg/kg		01/11/1996	mmk	8080 (1)	
4,4'-DDT	<1.0	mg/kg		01/11/1996	mmk	8080 (1)	
Dieldrin	<1.0	mg/kg		01/11/1996	mmk	8080 (1)	
Endrin	<1.0	mg/kg		01/11/1996	mmk	8080 (1)	
Heptachlor	<1.6	mg/kg		01/11/1996	mmk	8080 (1)	
Toxaphene	<1.6	mg/kg		01/11/1996	mmk	8080 (1)	
PCBs			01/10/1996				
Aroclor-1016	<2.0	mg/kg		01/10/1996	mmk	8080 (1)	
Aroclor-1221	<2.0	mg/kg		01/10/1996	mmk	8080 (1)	
Aroclor-1232	<2.0	mg/kg		01/10/1996	mmk	8080 (1)	
Aroclor-1242	<2.0	mg/kg		01/10/1996	mmk	8080 (1)	
Aroclor-1248	<2.0	mg/kg		01/10/1996	mmk	8080 (1)	
Aroclor-1254	<2.0	mg/kg		01/10/1996	mmk	8080 (1)	
Aroclor-1260	<2.0	mg/kg		01/10/1996	mmk	8080 (1)	

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

01/25/1996

Job No.: 95.07490
Sample No.: 192835

Quarterly Residuals Program

Sample Description: Centrifuge Cake 11/21-12/13/1995

Date Taken: 12/13/1995

Date Received: 12/15/1995

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
ACID COMPOUNDS			12/27/1995				
Pentachlorophenol	<15,200	ug/kg		12/29/1995	wad	8270 (1)	
Phenol	<3,070	ug/kg		12/29/1995	wad	8270 (1)	
2,4,6-Trichlorophenol	<3,070	ug/kg		12/29/1995	wad	8270 (1)	
2,3,7,8 TCDD Screen*	ND	mg/kg		12/29/1995	wad	8270 (1)	
PESTICIDES			12/21/1995				
Aldrin	<1.7	mg/kg		12/26/1995	mmk	8080 (1)	
gamma-BHC	<1.4	mg/kg		12/26/1995	mmk	8080 (1)	
Chlordane	<3.4	mg/kg		12/26/1995	mmk	8080 (1)	
4,4'-DDD	<1.7	mg/kg		12/26/1995	mmk	8080 (1)	
4,4'-DDE	<1.7	mg/kg		12/26/1995	mmk	8080 (1)	
4,4'-DDT	<1.7	mg/kg		12/26/1995	mmk	8080 (1)	
Dieldrin	<1.7	mg/kg		12/26/1995	mmk	8080 (1)	
Endrin	<1.7	mg/kg		12/26/1995	mmk	8080 (1)	
Heptachlor	<2.8	mg/kg		12/26/1995	mmk	8080 (1)	
Toxaphene	<2.8	mg/kg		12/26/1995	mmk	8080 (1)	
Malathion	na	ug/L		12/26/1995	mmk		
PCBs			12/21/1995				
Aroclor-1016	<3.4	mg/kg		12/26/1995	mmk	8080 (1)	
Aroclor-1221	<3.4	mg/kg		12/26/1995	mmk	8080 (1)	
Aroclor-1232	<3.4	mg/kg		12/26/1995	mmk	8080 (1)	
Aroclor-1242	<3.4	mg/kg		12/26/1995	mmk	8080 (1)	
Aroclor-1248	<3.4	mg/kg		12/26/1995	mmk	8080 (1)	
Aroclor-1254	<3.4	mg/kg		12/26/1995	mmk	8080 (1)	
Aroclor-1260	<3.4	mg/kg		12/26/1995	mmk	8080 (1)	

Results reported on a dry weight basis.

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

01/25/1996

Job No.: 95.07490
Sample No.: 192835

Quarterly Residuals Program

Sample Description: Centrifuge Cake 11/21-12/13/1995

Date Taken: 12/13/1995

Date Received: 12/15/1995

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
BASE NEUTRAL COMPOUNDS			12/27/1995				
Benzidine	<3,070	ug/kg		12/29/1995	wad	8270 (1)	
Benzo(a)anthracene	<3,070	ug/kg		12/29/1995	wad	8270 (1)	
Benzo(a)pyrene	<3,070	ug/kg		12/29/1995	wad	8270 (1)	
Bis(2-ethylhexyl)phthalate	5,520	ug/kg		12/29/1995	wad	8270 (1)	
3,3'-Dichlorobenzidine	<3,070	ug/kg		12/29/1995	wad	8270 (1)	
Hexachlorobenzene	<3,070	ug/kg		12/29/1995	wad	8270 (1)	
Hexachlorobutadiene	<3,070	ug/kg		12/29/1995	wad	8270 (1)	
4,4-Methylene-bis	---			12/29/1995	wad	8270 (1)	
(2-Chloroaniline)	ND	ug/kg		12/29/1995	wad	8270 (1)	8
N-Nitrosodimethylamine	<3,070	ug/kg		12/29/1995	wad	8270 (1)	
Phenanthrene	<3,070	ug/kg		12/29/1995	wad	8270 (1)	
Polychlorinated biphenyls(PCB)	ND	ug/kg		12/29/1995	wad	8270 (1)	8
Library Search complete							

Results reported on a dry weight basis.

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

12/20/1995

Job No.: 95.06956
Sample No.: 191451

Sample Description: Centrifuge Cake 11/21

Date Taken: 11/21/1995

Date Received: 11/22/1995

Parameter	Result	Unit	Date Analyzed	Lab Tech.	Methodology
BASE NEUTRAL COMPOUNDS					
Benzidine	<1700	ug/kg	11/29/1995	wad	8270 (1)
Benzo(a)anthracene	<1700	ug/kg	11/29/1995	wad	8270 (1)
Benzo(a)pyrene	<1700	ug/kg	11/29/1995	wad	8270 (1)
Bis(2-ethylhexyl)phthalate	3700	ug/kg	11/29/1995	wad	8270 (1)
3,3'-Dichlorobenzidine	<1700	ug/kg	11/29/1995	wad	8270 (1)
Hexachlorobenzene	<1700	ug/kg	11/29/1995	wad	8270 (1)
Hexachlorobutadiene	<1700	ug/kg	11/29/1995	wad	8270 (1)
4,4-Methylene-bis	---		11/29/1995	wad	8270 (1)
(2-Chloroaniline)	ND	ug/kg	11/29/1995	wad	8270 (1)
N-Nitrosodimethylamine	<1700	ug/kg	11/29/1995	wad	8270 (1)
Phenanthrene	<1700	ug/kg	11/29/1995	wad	8270 (1)
Polychlorinated biphenyls(PCB)	ND	ug/kg	11/29/1995	wad	8270 (1)
Library Search complete					

Results reported on a dry weight basis.

Susan K. Schafer
Project Manager

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

12/06/1995

Job No 95 06586
Sample No 190350

Waste Analysis

Sample Description Centrifuge Cake 10/12-11/01

Date Taken

Date Received 11/03/1995

Parameter	Result	Unit	Date Analyzed	Lab Tech	Methodology
BASE NEUTRAL COMPOUNDS					
Benzidine	<330	ug/kg	11/20/1995	wad	8270 (1)
Benzo(a)anthracene	<330	ug/kg	11/20/1995	wad	8270 (1)
Benzo(a)pyrene	<330	ug/kg	11/20/1995	wad	8270 (1)
Bis(2-ethylhexyl)phthalate	6100	ug/kg	11/20/1995	wad	8270 (1)
3,3'-Dichlorobenzidine	<330	ug/kg	11/20/1995	wad	8270 (1)
Hexachlorobenzene	<330	ug/kg	11/20/1995	wad	8270 (1)
Hexachlorobutadiene	<330	ug/kg	11/20/1995	wad	8270 (1)
4,4-Methylene-bis	---		11/20/1995	wad	8270 (1)
(2-Chloroaniline)	ND	ug/kg	11/20/1995	wad	8270 (1)
N-Nitrosodimethylamine	<330	ug/kg	11/20/1995	wad	8270 (1)
Phenanthrene	<330	ug/kg	11/20/1995	wad	8270 (1)
Polychlorinated biphenyls(PCB)	ND	ug/kg	11/20/1995	wad	8270 (1)
Library Search complete					

Results reported on a dry weight basis

Susan K Schafer
Project Manager

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CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

10/12/1995

Job No.: 95.05972
Sample No.: 188385

PCB Analysis
Additional Work for NET Job #95.05611

Sample Description: Centrifuge Cake(#187172) 08/31-09/20

Date Taken: 08/31/1995

Date Received: 09/22/1995

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
PCBs			10/11/1995				
Aroclor-1016	<1.0	mg/kg		10/11/1995	mmk	8080 (1)	
Aroclor-1221	<1.0	mg/kg		10/11/1995	mmk	8080 (1)	
Aroclor-1232	<1.0	mg/kg		10/11/1995	mmk	8080 (1)	
Aroclor-1242	<1.0	mg/kg		10/11/1995	mmk	8080 (1)	
Aroclor-1248	<1.0	mg/kg		10/11/1995	mmk	8080 (1)	
Aroclor-1254	<1.0	mg/kg		10/11/1995	mmk	8080 (1)	
Aroclor-1260	<1.0	mg/kg		10/11/1995	mmk	8080 (1)	

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

06/22/1995

Job No.: 95.03451
Sample No.: 180104

Quarterly

Sample Description: Centrifuge Cake 06/07

Date Taken: 06/07/1995

Date Received: 06/09/1995

Parameter	Result	Unit	Date Analyzed	Lab Tech.	Methodology
PCBs					
Aroclor-1016	<3.8	mg/kg	06/14/1995	mmk	8080 (1)
Aroclor-1221	<3.8	mg/kg	06/14/1995	mmk	8080 (1)
Aroclor-1232	<3.8	mg/kg	06/14/1995	mmk	8080 (1)
Aroclor-1242	<3.8	mg/kg	06/14/1995	mmk	8080 (1)
Aroclor-1248	<3.8	mg/kg	06/14/1995	mmk	8080 (1)
Aroclor-1254	<3.8	mg/kg	06/14/1995	mmk	8080 (1)
Aroclor-1260	<3.8	mg/kg	06/14/1995	mmk	8080 (1)

Susan K. Scott
Project Manager

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

03/27/1995

Job No.: 95.01549
Sample No.: 169570

Monthly/Quarterly

Sample Description: BFP Centrifuge Cake 02/28

Date Taken: 02/28/1995

Date Received: 03/17/1995

Parameter	Result	Unit	Date Analyzed	Lab Tech.	Methodology
Selenium	<2	mg/kg	03/21/1995	mah	7740 (1)
PCBs					
Aroclor-1016	<1.0	mg/kg	03/23/1995	mmk	8080 (1)
Aroclor-1221	<1.0	mg/kg	03/23/1995	mmk	8080 (1)
Aroclor-1232	<1.0	mg/kg	03/23/1995	mmk	8080 (1)
Aroclor-1242	<1.0	mg/kg	03/23/1995	mmk	8080 (1)
Aroclor-1248	<1.0	mg/kg	03/23/1995	mmk	8080 (1)
Aroclor-1254	<1.0	mg/kg	03/23/1995	mmk	8080 (1)
Aroclor-1260	<1.0	mg/kg	03/23/1995	mmk	8080 (1)

Results reported on a dry weight basis.

Susan K. Scott
Project Manager

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

03/27/1995

Job No.: 95.01549
Sample No.: 169570

Monthly/Quarterly

Sample Description: BFP Centrifuge Cake 02/28

Date Taken: 02/28/1995

Date Received: 03/17/1995

Parameter	Result	Unit	Date Analyzed	Lab Tech.	Methodology
Selenium	<2	mg/kg	03/21/1995	mah	7740 (1)
PCBs					
Aroclor-1016	<1.0	mg/kg	03/23/1995	mmk	8080 (1)
Aroclor-1221	<1.0	mg/kg	03/23/1995	mmk	8080 (1)
Aroclor-1232	<1.0	mg/kg	03/23/1995	mmk	8080 (1)
Aroclor-1242	<1.0	mg/kg	03/23/1995	mmk	8080 (1)
Aroclor-1248	<1.0	mg/kg	03/23/1995	mmk	8080 (1)
Aroclor-1254	<1.0	mg/kg	03/23/1995	mmk	8080 (1)
Aroclor-1260	<1.0	mg/kg	03/23/1995	mmk	8080 (1)

Results reported on a dry weight basis.

Susan K. Scott
Project Manager

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

01/29/1996

Job No.: 95.07543
Sample No.: 192996

Lime Stabilized

Sample Description: Lime Stabilized Sludge 12/19

Date Taken: 12/19/1995

Date Received: 12/20/1995

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
ACID COMPOUNDS			12/27/1995				
Pentachlorophenol	<77,000	ug/kg		12/29/1995	wad	8270 (1)	
Phenol	<15,000	ug/kg		12/29/1995	wad	8270 (1)	
2,4,6-Trichlorophenol	<15,000	ug/kg		12/29/1995	wad	8270 (1)	
2,3,7,8 TCDD Screen*	ND	mg/kg		12/29/1995	wad	8270 (1)	8
PESTICIDES			12/28/1995				
Aldrin	<17	mg/kg		12/29/1995	mmk	8080 (1)	
gamma-BHC	<13	mg/kg		12/29/1995	mmk	8080 (1)	
Chlordane	<33	mg/kg		12/29/1995	mmk	8080 (1)	
4,4'-DDD	<17	mg/kg		12/29/1995	mmk	8080 (1)	
4,4'-DDE	<17	mg/kg		12/29/1995	mmk	8080 (1)	
4,4'-DDT	<17	mg/kg		12/29/1995	mmk	8080 (1)	
Dieldrin	<17	mg/kg		12/29/1995	mmk	8080 (1)	
Endrin	<17	mg/kg		12/29/1995	mmk	8080 (1)	
Heptachlor	<27	mg/kg		12/29/1995	mmk	8080 (1)	
Toxaphene	<27	mg/kg		12/29/1995	mmk	8080 (1)	
PCBs			12/28/1995				
Aroclor-1016	<33	mg/kg		12/29/1995	mmk	8080 (1)	
Aroclor-1221	<33	mg/kg		12/29/1995	mmk	8080 (1)	
Aroclor-1232	<33	mg/kg		12/29/1995	mmk	8080 (1)	
Aroclor-1242	<33	mg/kg		12/29/1995	mmk	8080 (1)	
Aroclor-1248	<33	mg/kg		12/29/1995	mmk	8080 (1)	
Aroclor-1254	<33	mg/kg		12/29/1995	mmk	8080 (1)	
Aroclor-1260	<33	mg/kg		12/29/1995	mmk	8080 (1)	

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

01/25/1996

Job No.: 95.07262
Sample No.: 192244

Lime Stabilized

Sample Description: Lime Stabilized 12/05

Date Taken: 12/05/1995

Date Received: 12/07/1995

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
ACID COMPOUNDS			12/15/1995				
Pentachlorophenol	<54,000	ug/kg		12/18/1995	wad	8270 (1)	
Phenol	<10,000	ug/kg		12/18/1995	wad	8270 (1)	
2,4,6-Trichlorophenol	<10,000	ug/kg		12/18/1995	wad	8270 (1)	
2,3,7,8 TCDD Screen*	ND	ug/kg		12/18/1995	wad	8270 (1)	
PESTICIDES			12/13/1995				
Aldrin	<16	mg/kg		12/13/1995	mmk	8080 (1)	
gamma-BHC	<13	mg/kg		12/13/1995	mmk	8080 (1)	
Chlordane	<32	mg/kg		12/13/1995	mmk	8080 (1)	
4,4'-DDD	<16	mg/kg		12/13/1995	mmk	8080 (1)	
4,4'-DDE	<16	mg/kg		12/13/1995	mmk	8080 (1)	
4,4'-DDT	<16	mg/kg		12/13/1995	mmk	8080 (1)	
Dieldrin	<16	mg/kg		12/13/1995	mmk	8080 (1)	
Endrin	<16	mg/kg		12/13/1995	mmk	8080 (1)	
Heptachlor	<26	mg/kg		12/13/1995	mmk	8080 (1)	
Toxaphene	<26	mg/kg		12/13/1995	mmk	8080 (1)	
Malathion	na	ug/L		12/13/1995	mmk		
PCBs			12/13/1995				
Aroclor-1016	<32	mg/kg		12/13/1995	mmk	8080 (1)	
Aroclor-1221	<32	mg/kg		12/13/1995	mmk	8080 (1)	
Aroclor-1232	<32	mg/kg		12/13/1995	mmk	8080 (1)	
Aroclor-1242	<32	mg/kg		12/13/1995	mmk	8080 (1)	
Aroclor-1248	<32	mg/kg		12/13/1995	mmk	8080 (1)	
Aroclor-1254	<32	mg/kg		12/13/1995	mmk	8080 (1)	
Aroclor-1260	<32	mg/kg		12/13/1995	mmk	8080 (1)	

Results reported on a dry weight basis.

NATIONAL ENVIRONMENTAL TESTING, INC.

Auburn Hills Division
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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

01/25/1996

Job No.: 95.07262
Sample No.: 192244

Lime Stabilized

Sample Description: Lime Stabilized 12/05

Date Taken: 12/05/1995

Date Received: 12/07/1995

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
BASE NEUTRAL COMPOUNDS			12/15/1995				
Benzidine	<10,000	ug/kg		12/18/1995	wad	8270 (1)	
Benzo(a)anthracene	<10,000	ug/kg		12/18/1995	wad	8270 (1)	
Benzo(a)pyrene	<10,000	ug/kg		12/18/1995	wad	8270 (1)	
Bis(2-ethylhexyl)phthalate	<10,000	ug/kg		12/18/1995	wad	8270 (1)	
3,3'-Dichlorobenzidine	<10,000	ug/kg		12/18/1995	wad	8270 (1)	
Hexachlorobenzene	<10,000	ug/kg		12/18/1995	wad	8270 (1)	
Hexachlorobutadiene	<10,000	ug/kg		12/18/1995	wad	8270 (1)	
4,4-Methylene-bis	---			12/18/1995	wad	8270 (1)	
(2-Chloroaniline)	ND	ug/kg		12/18/1995	wad	8270 (1)	8
N-Nitrosodimethylamine	<10,000	ug/kg		12/18/1995	wad	8270 (1)	
Phenanthrene	<10,000	ug/kg		12/18/1995	wad	8270 (1)	
Polychlorinated biphenyls(PCB)	ND	ug/kg		12/18/1995	wad	8270 (1)	8

Results reported on a dry weight basis.

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

12/20/1995

Job No.: 95.07061
Sample No.: 191762

Lime Stabilized

Sample Description Lime-Stabilized Sludge 11/26

Date Taken: 11/26/1995

Date Received. 11/28/1995

Parameter	Result	Unit	Date Analyzed	Lab Tech.	Methodology
ACID COMPOUNDS					
Pentachlorophenol	<15,000	ug/kg	12/07/1995	wad	8270 (1)
Phenol	<3000	ug/kg	12/07/1995	wad	8270 (1)
2,4,6-Trichlorophenol	<3000	ug/kg	12/07/1995	wad	8270 (1)
2,3,7,8 TCDD Screen*	ND	mg/kg	12/07/1995	wad	8270 (1)
PESTICIDES					
Aldrin	<4.5	mg/kg	12/08/1995	mmk	8080 (1)
gamma-BHC	<4.0	mg/kg	12/08/1995	mmk	8080 (1)
Chlordane	<9.1	mg/kg	12/08/1995	mmk	8080 (1)
4,4'-DDD	<4.5	mg/kg	12/08/1995	mmk	8080 (1)
4,4'-DDE	<4.5	mg/kg	12/08/1995	mmk	8080 (1)
4,4'-DDT	<4.5	mg/kg	12/08/1995	mmk	8080 (1)
Dieldrin	<4.5	mg/kg	12/08/1995	mmk	8080 (1)
Endrin	<4.5	mg/kg	12/08/1995	mmk	8080 (1)
Heptachlor	<7 3	mg/kg	12/08/1995	mmk	8080 (1)
Toxaphene	<7 3	mg/kg	12/08/1995	mmk	8080 (1)
Malathion	na	ug/L		mmk	
PCBs					
Aroclor-1016	<9.1	mg/kg	12/07/1995	mmk	8080 (1)
Aroclor-1221	<9.1	mg/kg	12/07/1995	mmk	8080 (1)
Aroclor-1232	<9.1	mg/kg	12/07/1995	mmk	8080 (1)
Aroclor-1242	<9.1	mg/kg	12/07/1995	mmk	8080 (1)
Aroclor-1248	<9 1	mg/kg	12/07/1995	mmk	8080 (1)
Aroclor-1254	<9.1	mg/kg	12/07/1995	mmk	8080 (1)
Aroclor-1260	<9.1	mg/kg	12/07/1995	mmk	8080 (1)

ND - Not detected via forward library search.

Results reported on a dry weight basis.

Susan K. Schafer
Project Manager

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

09/29/1995

Job No.: 95.05372
Sample No.: 186419

Lime Stabilized

Sample Description: Lime-stabilized Sludge 09/07

Date Taken: 09/07/1995

Date Received: 09/11/1995

Parameter	Result	Unit	Date Analyzed	Lab Tech.	Methodology
Selenium	<3	mg/kg	09/13/1995	mah	7740 (1)
PCBs					
Aroclor-1016	<1.0	mg/kg	09/13/1995	mmk	8080 (1)
Aroclor-1221	<1.0	mg/kg	09/13/1995	mmk	8080 (1)
Aroclor-1232	<1.0	mg/kg	09/13/1995	mmk	8080 (1)
Aroclor-1242	<1.0	mg/kg	09/13/1995	mmk	8080 (1)
Aroclor-1248	<1.0	mg/kg	09/13/1995	mmk	8080 (1)
Aroclor-1254	<1.0	mg/kg	09/13/1995	mmk	8080 (1)
Aroclor-1260	<1 0	mg/kg	09/13/1995	mmk	8080 (1)

Results reported on a dry weight basis.

Susan K. Scott
Project Manager

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

06/22/1995

Job No.: 95.03450
Sample No.: 180103

Quarterly
Lime Stabilized

Sample Description: Lime Stabilized Sludge 06/07

Date Taken: 06/07/1995

Date Received: 06/09/1995

Parameter	Result	Unit	Date Analyzed	Lab Tech.	Methodology
PCBs					
Aroclor-1016	<26	mg/kg	06/15/1995	mmk	8080 (1)
Aroclor-1221	<26	mg/kg	06/15/1995	mmk	8080 (1)
Aroclor-1232	<26	mg/kg	06/15/1995	mmk	8080 (1)
Aroclor-1242	<26	mg/kg	06/15/1995	mmk	8080 (1)
Aroclor-1248	<26	mg/kg	06/15/1995	mmk	8080 (1)
Aroclor-1254	<26	mg/kg	06/15/1995	mmk	8080 (1)
Aroclor-1260	<26	mg/kg	06/15/1995	mmk	8080 (1)

Susan K. Scott
Project Manager

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

03/27/1995

Job No.: 95.01349
Sample No.: 168993

Quarterly
Lime Stabilized

Sample Description: Sludge 03/08

Date Taken: 03/08/1995

Date Received: 03/10/1995

Parameter	Result	Unit	Date Analyzed	Lab Tech.	Methodology
Selenium	<20	mg/kg	03/17/1995	mah	7740 (1)
PCBs					
Aroclor-1016	<1.0	mg/kg	03/16/1995	mmk	8080 (1)
Aroclor-1221	<1.0	mg/kg	03/16/1995	mmk	8080 (1)
Aroclor-1232	<1.0	mg/kg	03/16/1995	mmk	8080 (1)
Aroclor-1242	<1.0	mg/kg	03/16/1995	mmk	8080 (1)
Aroclor-1248	<1.0	mg/kg	03/16/1995	mmk	8080 (1)
Aroclor-1254	<1.0	mg/kg	03/16/1995	mmk	8080 (1)
Aroclor-1260	<1.0	mg/kg	03/16/1995	mmk	8080 (1)

Results reported on a dry weight basis.

Susan K. Scott
Project Manager

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

12/18/1995

Job No : 95.07312
Sample No.: 192402

Quarterly
PCB Analysis

Sample Description: Final Effluent 12/07

Date Taken: 12/07/1995

Date Received: 12/08/1995

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
PCBs			12/14/1995				
Aroclor-1016	<0.050	ug/L		12/15/1995	mmk	608 (5)	
Aroclor-1221	<0.050	ug/L		12/15/1995	mmk	608 (5)	
Aroclor-1232	<0.050	ug/L		12/15/1995	mmk	608 (5)	
Aroclor-1242	<0 050	ug/L		12/15/1995	mmk	608 (5)	
Aroclor-1248	<0.050	ug/L		12/15/1995	mmk	608 (5)	
Aroclor-1254	<0.050	ug/L		12/15/1995	mmk	608 (5)	
Aroclor-1260	<0.050	ug/L		12/15/1995	mmk	608 (5)	

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ANALYTICAL REPORT

12/18/1995

CITY OF BATTLE CREEK
WTR TRMNT PLANT
7000 W River Road
Battle Creek, MI 49016

Job No : 95.07314
Sample No.: 192404

PCB Analysis

Sample Description: Influent 12/07

Date Taken: 12/07/1995

Date Received: 12/08/1995

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
PCBs			12/14/1995				
Aroclor-1016	<0.050	ug/L		12/15/1995	mmk	608 (5)	
Aroclor-1221	<0.050	ug/L		12/15/1995	mmk	608 (5)	
Aroclor-1232	<0.050	ug/L		12/15/1995	mmk	608 (5)	
Aroclor-1242	<0.050	ug/L		12/15/1995	mmk	608 (5)	
Aroclor-1248	<0.050	ug/L		12/15/1995	mmk	608 (5)	
Aroclor-1254	<0.050	ug/L		12/15/1995	mmk	608 (5)	
Aroclor-1260	<0.050	ug/L		12/15/1995	mmk	608 (5)	

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

10/24/1995

Job No.: 95.06170
Sample No.: 188923

PCB Analysis

Sample Description: Influent 10/17

Date Taken: 10/17/1995

Date Received: 10/18/1995

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
PCBs			10/19/1995				
Aroclor-1016	<0.050	ug/L		10/20/1995	mmk	608 (5)	
Aroclor-1221	<0.050	ug/L		10/20/1995	mmk	608 (5)	
Aroclor-1232	<0.050	ug/L		10/20/1995	mmk	608 (5)	
Aroclor-1242	<0.050	ug/L		10/20/1995	mmk	608 (5)	
Aroclor-1248	<0.050	ug/L		10/20/1995	mmk	608 (5)	
Aroclor-1254	<0.050	ug/L		10/20/1995	mmk	608 (5)	
Aroclor-1260	<0.050	ug/L		10/20/1995	mmk	608 (5)	

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

10/24/1995

Job No 95 06170
Sample No. 188922

PCB Analysis

Sample Description: Activated Sldg Effluent 10/17

Date Taken: 10/17/1995

Date Received: 10/18/1995

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
PCBs			10/19/1995				
Aroclor-1016	<0.050	ug/L		10/20/1995	mmk	608 (5)	
Aroclor-1221	<0 050	ug/L		10/20/1995	mmk	608 (5)	
Aroclor-1232	<0 050	ug/L		10/20/1995	mmk	608 (5)	
Aroclor-1242	<0.050	ug/L		10/20/1995	mmk	608 (5)	
Aroclor-1248	<0.050	ug/L		10/20/1995	mmk	608 (5)	
Aroclor-1254	<0 050	ug/L		10/20/1995	mmk	608 (5)	
Aroclor-1260	<0 050	ug/L		10/20/1995	mmk	608 (5)	

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

07/07/1995

Job No.: 95.03882
Sample No.: 181575

Sample Description: ASE- - Prechlorination 06/23

Date Taken: 06/23/1995

Date Received: 06/27/1995

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
Endrin	<0.50	ug/L		07/03/1995	bpj	608 (5)	
Endrin Aldehyde	<0.80	ug/L		07/03/1995	bpj	608 (5)	
Heptachlor	<0.80	ug/L		07/03/1995	bpj	608 (5)	
Heptachlor Epoxide	<0.50	ug/L		07/03/1995	bpj	608 (5)	
Methoxychlor	<1.0	ug/L		07/03/1995	bpj	608 (5)	
Toxaphene	<0.80	ug/L		07/03/1995	bpj	608 (5)	
PCBs			06/29/1995				
Aroclor-1016	<0.050	ug/L		07/05/1995	bpj	608 (5)	
Aroclor-1221	<0.050	ug/L		07/05/1995	bpj	608 (5)	
Aroclor-1232	<0.050	ug/L		07/05/1995	bpj	608 (5)	
Aroclor-1242	<0.050	ug/L		07/05/1995	bpj	608 (5)	
Aroclor-1248	<0.050	ug/L		07/05/1995	bpj	608 (5)	
Aroclor-1254	<0.050	ug/L		07/05/1995	bpj	608 (5)	
Aroclor-1260	<0.050	ug/L		07/05/1995	bpj	608 (5)	

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

07/07/1995

Job No.: 95.03882
Sample No.: 181574

Sample Description: Kellogg 06/23

Date Taken: 06/23/1995

Date Received: 06/27/1995

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
Endrin	<0.50	ug/L		07/03/1995	bpj	608 (5)	
Endrin Aldehyde	<0.80	ug/L		07/03/1995	bpj	608 (5)	
Heptachlor	<0.80	ug/L		07/03/1995	bpj	608 (5)	
Heptachlor Epoxide	<0.50	ug/L		07/03/1995	bpj	608 (5)	
Methoxychlor	<1.0	ug/L		07/03/1995	bpj	608 (5)	
Toxaphene	<0.80	ug/L		07/03/1995	bpj	608 (5)	
PCBs			06/29/1995				
Aroclor-1016	<0.050	ug/L		07/05/1995	bpj	608 (5)	
Aroclor-1221	<0.050	ug/L		07/05/1995	bpj	608 (5)	
Aroclor-1232	<0.050	ug/L		07/05/1995	bpj	608 (5)	
Aroclor-1242	<0.050	ug/L		07/05/1995	bpj	608 (5)	
Aroclor-1248	<0.050	ug/L		07/05/1995	bpj	608 (5)	
Aroclor-1254	<0.050	ug/L		07/05/1995	bpj	608 (5)	
Aroclor-1260	<0.050	ug/L		07/05/1995	bpj	608 (5)	

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ANALYTICAL REPORT

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CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

07/07/1995

Job No.: 95.03882
Sample No.: 181573

Sample Description: Influent 06/23

Date Taken: 06/23/1995

Date Received: 06/27/1995

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
Endrin	<0.50	ug/L		07/03/1995	bpj	608 (5)	
Endrin Aldehyde	<0.80	ug/L		07/03/1995	bpj	608 (5)	
Heptachlor	<0.80	ug/L		07/03/1995	bpj	608 (5)	
Heptachlor Epoxide	<0.50	ug/L		07/03/1995	bpj	608 (5)	
Methoxychlor	<1.0	ug/L		07/03/1995	bpj	608 (5)	
Toxaphene	<0.80	ug/L		07/03/1995	bpj	608 (5)	
PCBs			06/29/1995				
Aroclor-1016	<0.50	ug/L		07/05/1995	bpj	608 (5)	
Aroclor-1221	<0.50	ug/L		07/05/1995	bpj	608 (5)	
Aroclor-1232	<0.50	ug/L		07/05/1995	bpj	608 (5)	
Aroclor-1242	<0.50	ug/L		07/05/1995	bpj	608 (5)	
Aroclor-1248	<0.50	ug/L		07/05/1995	bpj	608 (5)	
Aroclor-1254	<0.50	ug/L		07/05/1995	bpj	608 (5)	
Aroclor-1260	<0.50	ug/L		07/05/1995	bpj	608 (5)	

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ANALYTICAL REPORT

BATTLE CREEK
TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

06/20/1995

Job No.: 95.03528
Sample No.: 180420

PCB Analysis

Sample Description: ASE 06/12

Date Taken: 06/12/1995

Date Received: 06/13/1995

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
PCBs			06/15/1995				
Aroclor-1016	<0.050	ug/L		06/19/1995	mmk	608 (5)	
Aroclor-1221	<0.050	ug/L		06/19/1995	mmk	608 (5)	
Aroclor-1232	<0.050	ug/L		06/19/1995	mmk	608 (5)	
Aroclor-1242	<0.050	ug/L		06/19/1995	mmk	608 (5)	
Aroclor-1248	<0.050	ug/L		06/19/1995	mmk	608 (5)	
Aroclor-1254	<0.050	ug/L		06/19/1995	mmk	608 (5)	
Aroclor-1260	<0.050	ug/L		06/19/1995	mmk	608 (5)	

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ANALYTICAL REPORT

06/20/1995

Job No.: 95.03528
Sample No.: 180419

CREEK
PLANT
ver Road
Creek, MI 49016

PCB Analysis

Sample Description: Influent 06/12

Date Taken: 06/12/1995

Date Received: 06/13/1995

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
PCBs			06/15/1995				
Aroclor-1016	<0.050	ug/L		06/19/1995	mmk	608 (5)	
Aroclor-1221	<0.050	ug/L		06/19/1995	mmk	608 (5)	
Aroclor-1232	<0.050	ug/L		06/19/1995	mmk	608 (5)	
Aroclor-1242	<0.050	ug/L		06/19/1995	mmk	608 (5)	
Aroclor-1248	<0.050	ug/L		06/19/1995	mmk	608 (5)	
Aroclor-1254	<0.050	ug/L		06/19/1995	mmk	608 (5)	
Aroclor-1260	<0.050	ug/L		06/19/1995	mmk	608 (5)	

OCEAN GROUP

NATIONAL ENVIRONMENTAL TESTING, INC.

Auburn Hills Division
1700 Harmon Road
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(800) 526-4951

ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

03/17/1995

Job No.: 95.01350
Sample No.: 168995

PCB Analysis

Sample Description: ASE 03/09

Date Taken: 03/09/1995

Date Received: 03/10/1995

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
PCBs			03/14/1995				
Aroclor-1016	<0.050	ug/L		03/16/1995	mmk	608 (5)	
Aroclor-1221	<0.050	ug/L		03/16/1995	mmk	608 (5)	
Aroclor-1232	<0.050	ug/L		03/16/1995	mmk	608 (5)	
Aroclor-1242	<0.050	ug/L		03/16/1995	mmk	608 (5)	
Aroclor-1248	<0.050	ug/L		03/16/1995	mmk	608 (5)	
Aroclor-1254	<0.050	ug/L		03/16/1995	mmk	608 (5)	
Aroclor-1260	<0.050	ug/L		03/16/1995	mmk	608 (5)	

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

03/17/1995

Job No.: 95.01350
Sample No.: 168994

PCB Analysis

Sample Description: Influent 03/09

Date Taken: 03/09/1995

Date Received: 03/10/1995

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
PCBs			03/14/1995				
Aroclor-1016	<0.2	ug/L		03/16/1995	mmk	608 (5)	
Aroclor-1221	<0.2	ug/L		03/16/1995	mmk	608 (5)	
Aroclor-1232	<0.2	ug/L		03/16/1995	mmk	608 (5)	
Aroclor-1242	<0.2	ug/L		03/16/1995	mmk	608 (5)	
Aroclor-1248	<0.2	ug/L		03/16/1995	mmk	608 (5)	
Aroclor-1254	<0.2	ug/L		03/16/1995	mmk	608 (5)	
Aroclor-1260	<0.05	ug/L		03/16/1995	mmk	608 (5)	

Elevated detection levels were reported due to sample matrix interference.

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

01/10/1995

Job No.: 94.08067
Sample No.: 164943

Quarterly
Lime Stabilized

Sample Description: Belt Filter Press Cake 12/01-21/1994

Date Taken: 12/01/1994

Date Received: 12/28/1994

Parameter	Result	Unit	Date Analyzed	Lab Tech.	Methodology
Selenium	1.3	mg/kg	01/06/1995	mah	7740 (1)
PCBs					
Aroclor-1016	<8.3	mg/kg	01/10/1995	mmk	8080 (1)
Aroclor-1221	<8.3	mg/kg	01/10/1995	mmk	8080 (1)
Aroclor-1232	<8.3	mg/kg	01/10/1995	mmk	8080 (1)
Aroclor-1242	<8.3	mg/kg	01/10/1995	mmk	8080 (1)
Aroclor-1248	<8.3	mg/kg	01/10/1995	mmk	8080 (1)
Aroclor-1254	<8.3	mg/kg	01/10/1995	mmk	8080 (1)
Aroclor-1260	<8.3	mg/kg	01/10/1995	mmk	8080 (1)

Results reported on a dry weight basis.

Susan K. Scott
Project Manager

OCEAN GROUP

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

01/10/1995

Job No.: 94.08067
Sample No.: 164943

Quarterly
Lime Stabilized

Sample Description: Belt Filter Press Cake 12/01-21/1994

Date Taken: 12/01/1994

Date Received: 12/28/1994

Parameter	Result	Unit	Date Analyzed	Lab Tech.	Methodology
Selenium	1.3	mg/kg	01/06/1995	mah	7740 (1)
PCBs					
Aroclor-1016	<8.3	mg/kg	01/10/1995	mmk	8080 (1)
Aroclor-1221	<8.3	mg/kg	01/10/1995	mmk	8080 (1)
Aroclor-1232	<8.3	mg/kg	01/10/1995	mmk	8080 (1)
Aroclor-1242	<8.3	mg/kg	01/10/1995	mmk	8080 (1)
Aroclor-1248	<8.3	mg/kg	01/10/1995	mmk	8080 (1)
Aroclor-1254	<8.3	mg/kg	01/10/1995	mmk	8080 (1)
Aroclor-1260	<8.3	mg/kg	01/10/1995	mmk	8080 (1)

Results reported on a dry weight basis.

Susan K. Scott
Project Manager

OCEAN GROUP

LOG NO: SE08416

Received: 27 JUN 94
Reported: 26 JUL 94

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SW SAMPLES	DATE SAMPLED
SE08416-1	14 DAY BFP CAKE 6/10/95-6/23/94	10 JUN 94

PARAMETER	SE08416-1
PCB COMPOUNDS	
PCB-1016, ug/kg	<330
PCB-1221, ug/kg	<330
PCB-1232, ug/kg	<330
PCB-1242, ug/kg	<330
PCB-1248, ug/kg	<330
PCB-1254, ug/kg	<330
PCB-1260, ug/kg	<330
HERBICIDE COMPOUNDS:	
2,4-D, ug/kg	<130
2,4,5-TP (Silvex), ug/kg	<130
2,4,5-T, ug/kg	<130
GCMS LIBRARY SEARCH:	
Furan, ug/kg	ND
4,4-MethyleneBis-2-chloroaniline, ug/kg	ND
Malathion, ug/kg	ND
Dimethylnitrosamine, ug/kg	ND
Tricresylphosphate, ug/kg	ND

Note 4: All results reported on a dry-weight basis.
Note 5: ND = Not Detected

Kenneth Herman
Approved

LOG NO: SE07870

Received: 21 MAR 94
Reported: 15 APR 94

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SL SAMPLES	DATE SAMPLED
SE07870-1	BFP 14 DAY 03.02.94 TO 03.16.94	

PARAMETER	SE07870-1
PURGEABLE AROMATICS	
Benzene, ug/kg	<100
Toluene, ug/kg	800
Ethylbenzene, ug/kg	<100
Chlorobenzene, ug/kg	<100
1,3-Dichlorobenzene, ug/kg	<100
1,4-Dichlorobenzene, ug/kg	390
1,2-Dichlorobenzene, ug/kg	<100
Xylenes (Total), ug/kg	<300
Methyl ethyl ketone, ug/kg	140,000
PCB COMPOUNDS	
PCB-1016, ug/kg	<330
PCB-1221, ug/kg	<330
PCB-1232, ug/kg	<330
PCB-1242, ug/kg	<330
PCB-1248, ug/kg	<330
PCB-1254, ug/kg	<330
PCB-1260, ug/kg	<330

SEG
LABORATORIES, INC.
A DLZ Company
COMPREHENSIVE ENVIRONMENTAL TESTING SERVICES

LOG NO: SE07760

Received: 22 MAR 94
Reported: 05 APR 94

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SL SAMPLES	DATE SAMPLED
SE07760-1	BFP 14 DAY 02.17.94 TO 03.02.94	

PARAMETER	SE07760-1
PCB COMPOUNDS	
PCB-1016, ug/kg	<330
PCB-1221, ug/kg	<330
PCB-1232, ug/kg	<330
PCB-1242, ug/kg	<330
PCB-1248, ug/kg	<330
PCB-1254, ug/kg	<330
PCB-1260, ug/kg	<330

Kenneth Herman
Approved

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

12/20/1994

Job No.: 94.07637
Sample No.: 163410

Quarterly
Lime Stabilized

Sample Description: Lime-Stablilized Sludge 12/08

Date Taken: 12/08/1994

Date Received: 12/09/1994

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
PCBs			12/12/1994				
Aroclor-1016	<8.3	mg/kg		12/13/1994	mmk	8080 (1)	
Aroclor-1221	<8.3	mg/kg		12/13/1994	mmk	8080 (1)	
Aroclor-1232	<8.3	mg/kg		12/13/1994	mmk	8080 (1)	
Aroclor-1242	<8.3	mg/kg		12/13/1994	mmk	8080 (1)	
Aroclor-1248	<8.3	mg/kg		12/13/1994	mmk	8080 (1)	
Aroclor-1254	<8.3	mg/kg		12/13/1994	mmk	8080 (1)	
Aroclor-1260	<8.3	mg/kg		12/13/1994	mmk	8080 (1)	

Elevated detection levels were reported due to sample matrix interference.

NOTE: Results apply only to the sample analyzed. Reproduction of this report is permitted only in its entirety.

Susan K. Scott
Project Manager

OCEAN GROUP

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ANALYTICAL REPORT

Losmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

09/29/1994

Job No.: 94.05744
Sample No.: 158390

Lime Stabilized

Sample Description: Filter Bldg 09/14

Date Taken: 09/14/1994

Date Received: 09/16/1994

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
PCBs			09/20/1994				
Aroclor-1016	<20	mg/kg		09/20/1994	jsg	8080 (1)	
Aroclor-1221	<20	mg/kg		09/20/1994	jsg	8080 (1)	
Aroclor-1232	<20	mg/kg		09/20/1994	jsg	8080 (1)	
Aroclor-1242	<20	mg/kg		09/20/1994	jsg	8080 (1)	
Aroclor-1248	<20	mg/kg		09/20/1994	jsg	8080 (1)	
Aroclor-1254	<20	mg/kg		09/20/1994	jsg	8080 (1)	
Aroclor-1260	<20	mg/kg		09/20/1994	jsg	8080 (1)	

Detection levels have been elevated due to the low total solids value of the sample.

NOTE: Results apply only to the sample analyzed. Reproduction of this report is permitted only in its entirety.

Bruce E. Brown
Project Manager

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

01/10/1995

Job No.: 94.08122
Sample No.: 165101

PCB Analysis

Sample Description: ASE 12/29

Date Taken: 12/29/1994

Date Received: 12/30/1994

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
PCBs			01/05/1995				
Aroclor-1016	<0.050	ug/L		01/07/1995	mmk	608 (5)	
Aroclor-1221	<0.050	ug/L		01/07/1995	mmk	608 (5)	
Aroclor-1232	<0.050	ug/L		01/07/1995	mmk	608 (5)	
Aroclor-1242	<0.050	ug/L		01/07/1995	mmk	608 (5)	
Aroclor-1248	<0.050	ug/L		01/07/1995	mmk	608 (5)	
Aroclor-1254	<0.050	ug/L		01/07/1995	mmk	608 (5)	
Aroclor-1260	<0.050	ug/L		01/07/1995	mmk	608 (5)	

NOTE: Results apply only to the sample analyzed. Reproduction of this report is permitted only in its entirety.

Susan K. Scott
Project Manager

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

12/15/1994

Job No.: 94.07619
Sample No.: 163381

Quarterly

Sample Description: Influent 12/07

Date Taken: 12/07/1994

Date Received: 12/08/1994

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
PCBs			12/08/1994				
Aroclor-1016	<0.050	ug/L		12/13/1994	mmk	608 (5)	
Aroclor-1221	<0.050	ug/L		12/13/1994	mmk	608 (5)	
Aroclor-1232	<0.050	ug/L		12/13/1994	mmk	608 (5)	
Aroclor-1242	<0.050	ug/L		12/13/1994	mmk	608 (5)	
Aroclor-1248	<0.050	ug/L		12/13/1994	mmk	608 (5)	
Aroclor-1254	<0.050	ug/L		12/13/1994	mmk	608 (5)	
Aroclor-1260	<0.050	ug/L		12/13/1994	mmk	608 (5)	

NOTE: Results apply only to the sample analyzed. Reproduction of this report is permitted only in its entirety.

Susan K. Scott
Project Manager

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ANALYTICAL REPORT

C Kusmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

12/15/1994

Job No.: 94.07619
Sample No.: 163382

Quarterly

Sample Description: ASE 12/07

Date Taken: 12/07/1994

Date Received: 12/08/1994

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
PCBs			12/08/1994				
Aroclor-1016	<0.050	ug/L		12/13/1994	mmk	608 (5)	
Aroclor-1221	<0.050	ug/L		12/13/1994	mmk	608 (5)	
Aroclor-1232	<0.050	ug/L		12/13/1994	mmk	608 (5)	
Aroclor-1242	0.20 *	ug/L		12/13/1994	mmk	608 (5)	
Aroclor-1248	<0.050	ug/L		12/13/1994	mmk	608 (5)	
Aroclor-1254	<0.050	ug/L		12/13/1994	mmk	608 (5)	
Aroclor-1260	<0.050	ug/L		12/13/1994	mmk	608 (5)	

Questionable Sample result. Resampled on 12/21/94. Sample had never detected PCBs this far.

* Sample rerun to confirm result

NOTE: Results apply only to the sample analyzed. Reproduction of this report is permitted only in its entirety.

Susan K. Scott
Project Manager

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PROCEDURE BLANK REPORT

Client: CITY OF BATTLE CREEK 11/03/1994
Job Number: 94.06282
Job Description: Wastewater Analysis

Parameter	Units	Procedure Blank Observed Value	Date Analyzed	Lab Tech	Note
1,1,2-Trichloroethane	ug/L	<10	10/13/1994	pmc	
Trichloroethene	ug/L	<10	10/13/1994	pmc	
Trichlorofluoromethane	ug/L	<10	10/13/1994	pmc	
Vinyl chloride	ug/L	<10	10/13/1994	pmc	
PCBs					
Aroclor-1016	ug/L	<0.050	10/13/1994	jsg	
Aroclor-1221	ug/L	<0.050	10/13/1994	jsg	
Aroclor-1232	ug/L	<0.050	10/13/1994	jsg	
Aroclor-1242	ug/L	<0.050	10/13/1994	jsg	
Aroclor-1248	ug/L	<0.050	10/13/1994	jsg	
Aroclor-1254	ug/L	<0.050	10/13/1994	jsg	
Aroclor-1260	ug/L	<0.050	10/13/1994	jsg	

The Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batches in which your samples were analyzed.

NA - Not Applicable

OCEAN GROUP

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

10/19/1994

Job No.: 94.06282
Sample No.: 159741

Wastewater Analysis

Sample Description: Final Effluent 10/05

Date Taken: 10/05/1994

Date Received: 10/07/1994

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
2,3,7,8 TCDD Screen	ND	ug/L		10/15/1994	wad	625 (5)	
PCBs			10/12/1994				
Aroclor-1016	<0.050	ug/L		10/13/1994	jsg	608 (5)	
Aroclor-1221	<0.050	ug/L		10/13/1994	jsg	608 (5)	
Aroclor-1232	<0.050	ug/L		10/13/1994	jsg	608 (5)	
Aroclor-1242	<0.050	ug/L		10/13/1994	jsg	608 (5)	
Aroclor-1248	<0.050	ug/L		10/13/1994	jsg	608 (5)	
Aroclor-1254	<0.050	ug/L		10/13/1994	jsg	608 (5)	
Aroclor-1260	<0.050	ug/L		10/13/1994	jsg	608 (5)	

ND - Not detected via forward library search.

NOTE: Results apply only to the sample analyzed. Reproduction of this report is permitted only in its entirety.

Susan K. Scott
Project Manager

OCEAN GROUP

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

10/19/1994

Job No.: 94.06282
Sample No.: 159742

Wastewater Analysis

Sample Description: Influent 10/05

Date Taken: 10/05/1994

Date Received: 10/07/1994

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
2,3,7,8 TCDD Screen	ND	ug/L		10/18/1994	wad	625 (5)	
PCBs			10/12/1994				
Aroclor-1016	<0.050	ug/L		10/13/1994	jsg	608 (5)	
Aroclor-1221	<0.050	ug/L		10/13/1994	jsg	608 (5)	
Aroclor-1232	<0.050	ug/L		10/13/1994	jsg	608 (5)	
Aroclor-1242	<0.050	ug/L		10/13/1994	jsg	608 (5)	
Aroclor-1248	<0.050	ug/L		10/13/1994	jsg	608 (5)	
Aroclor-1254	<0.050	ug/L		10/13/1994	jsg	608 (5)	
Aroclor-1260	<0.050	ug/L		10/13/1994	jsg	608 (5)	

ND - Not detected via forward library search.

NOTE: Results apply only to the sample analyzed. Reproduction of this report is permitted only in its entirety.

Susan K. Scott
Project Manager

OCEAN GROUP

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LABORATORY CONTROL STANDARD REPORT
AND
CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Client: CITY OF BATTLE CREEK 09/29/1994
Job Number: 94.05949
Job Description: Wastewater Analysis

Parameter	Laboratory Control Standard % Recovery	Date Analyzed	Lab Tech	Note	Continuing Calibration Verification Standard % Recovery	Date Analyzed	Lab Tech	Note
PCBs								
Aroclor-1242	48	09/27/1994	bpj		100	09/28/1994	jsg	
Aroclor-1260	53	09/27/1994	bpj		90	09/28/1994	jsg	

NA - Not Applicable

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PROCEDURE BLANK REPORT

Client: CITY OF BATTLE CREEK
Job Number: 94.05949
Job Description: Wastewater Analysis

09/29/1994

Parameter	Units	Procedure Blank Observed Value	Date Analyzed	Lab Tech	Note
PCBs					
Aroclor-1016	ug/L	<0.050	09/27/1994	bpj	
Aroclor-1221	ug/L	<0.050	09/27/1994	bpj	
Aroclor-1232	ug/L	<0.050	09/27/1994	bpj	
Aroclor-1242	ug/L	<0.050	09/27/1994	bpj	
Aroclor-1248	ug/L	<0.050	09/27/1994	bpj	
Aroclor-1254	ug/L	<0.050	09/27/1994	bpj	
Aroclor-1260	ug/L	<0.050	09/27/1994	bpj	

NA - Not Applicable

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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

09/29/1994

Job No.: 94.05949
Sample No.: 158940

Wastewater Analysis

Sample Description: ASE-Final Effluent 09/22

Date Taken: 09/22/1994

Date Received: 09/23/1994

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
PCBs			09/23/1994				
Aroclor-1016	<0.050	ug/L		09/28/1994	jsg	608 (5)	
Aroclor-1221	<0.050	ug/L		09/28/1994	jsg	608 (5)	
Aroclor-1232	<0.050	ug/L		09/28/1994	jsg	608 (5)	
Aroclor-1242	<0.050	ug/L		09/28/1994	jsg	608 (5)	
Aroclor-1248	<0.050	ug/L		09/28/1994	jsg	608 (5)	
Aroclor-1254	<0.050	ug/L		09/28/1994	jsg	608 (5)	
Aroclor-1260	<0.050	ug/L		09/28/1994	jsg	608 (5)	

NOTE: Results apply only to the sample analyzed. Reproduction of this report is permitted only in its entirety.

Bruce E. Brown
Project Manager

OCEAN GROUP

NATIONAL ENVIRONMENTAL TESTING, INC.

Auburn Hills Division
1700 Harmon Road
Auburn Hills, MI 48326
Tel· (810) 391-2050
Fax (810) 391-9698
(800) 526-4951

ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

09/29/1994

Job No.: 94.05949
Sample No.: 158939

Wastewater Analysis

Sample Description: Influent 09/22

Date Taken: 09/22/1994

Date Received: 09/23/1994

Parameter	Result	Unit	Date Prepared	Date Analyzed	Lab Tech.	Methodology	Note
PCBs			09/23/1994				
Aroclor-1016	<0.050	ug/L		09/28/1994	jsg	608 (5)	
Aroclor-1221	<0.050	ug/L		09/28/1994	jsg	608 (5)	
Aroclor-1232	<0.050	ug/L		09/28/1994	jsg	608 (5)	
Aroclor-1242	<0.050	ug/L		09/28/1994	jsg	608 (5)	
Aroclor-1248	<0.050	ug/L		09/28/1994	jsg	608 (5)	
Aroclor-1254	<0.050	ug/L		09/28/1994	jsg	608 (5)	
Aroclor-1260	<0.050	ug/L		09/28/1994	jsg	608 (5)	

NOTE: Results apply only to the sample analyzed. Reproduction of this report is permitted only in its entirety.

Bruce E. Brown
Project Manager

OCEAN GROUP

SEG
LABORATORIES, INC.
A DLZ Company
COMPREHENSIVE ENVIRONMENTAL TESTING SERVICES

LOG NO: SE08322

Received: 13 JUN 94
Reported: 16 JUN 94

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQ SAMPLES	DATE SAMPLED
SE08322-1	INFLUENT	10 JUN 94
SE08322-2	ASE	10 JUN 94

PARAMETER	SE08322-1	SE08322-2
PCB COMPOUNDS		
PCB-1016, ug/L	<0.1	<0.1
PCB-1221, ug/L	<0.1	<0.1
PCB-1232, ug/L	<0.1	<0.1
PCB-1242, ug/L	<0.1	<0.1
PCB-1248, ug/L	<0.1	<0.1
PCB-1254, ug/L	<0.1	<0.1
PCB-1260, ug/L	<0.1	<0.1

Kenneth Kerman
Approved

SEG
LABORATORIES, INC.
A DLZ Company
COMPREHENSIVE ENVIRONMENTAL TESTING SERVICES

LOG NO: SE07654

Received: 03 MAR 94
Reported: 23 MAR 94

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQ SAMPLES	DATE SAMPLED
SE07654-1	INFLUENT	02 MAR 94
SE07654-2	ASE	02 MAR 94

PARAMETER	SE07654-1	SE07654-2
PCB COMPOUNDS		
PCB-1016, ug/L	<0.1	<0.1
PCB-1221, ug/L	<0.1	<0.1
PCB-1232, ug/L	<0.1	<0.1
PCB-1242, ug/L	<0.1	<0.1
PCB-1248, ug/L	<0.1	<0.1
PCB-1254, ug/L	<0.1	<0.1
PCB-1260, ug/L	<0.1	<0.1

Kenneth Herman
Approved

LOG NO: SE07159

Received: 10 DEC 93
Reported: 07 JAN 94

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SL SAMPLES	DATE SAMPLED
SE07159-1	14 DAY BFP CAKE 11.25.93 TO 12.08.93	

PARAMETER	SE07159-1
HERBICIDE COMPOUNDS:	
2,4-D, ug/kg	<100
2,4,5-TP (Silvex), ug/kg	<100
2,4,5-T, ug/kg	<100
PCB COMPOUNDS	
PCB-1016, ug/kg	<330
PCB-1221, ug/kg	<330
PCB-1232, ug/kg	<330
PCB-1242, ug/kg	<330
PCB-1248, ug/kg	<330
PCB-1254, ug/kg	<330
PCB-1260, ug/kg	<330

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COMPREHENSIVE ENVIRONMENTAL TESTING SERVICES

LOG NO: SE07159

Received: 10 DEC 93
Reported: 06 JAN 94

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SL SAMPLES	DATE SAMPLED
SE07159-1	14 DAY BFP CAKE 11.25.93 TO 12.08.93	

PARAMETER	SE07159-1
PCB COMPOUNDS	
PCB-1016, ug/kg	<330
PCB-1221, ug/kg	<330
PCB-1232, ug/kg	<330
PCB-1242, ug/kg	<330
PCB-1248, ug/kg	<330
PCB-1254, ug/kg	<330
PCB-1260, ug/kg	<330

Kenneth Herman
Approved

LOG NO: SE06448

Received: 15 SEP 93
Reported: 21 OCT 93

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SL SAMPLES	DATE SAMPLED
SE06448-1	14 DAY BFP CAKE 08.29.93 TO 09.11.93	

PARAMETER	SE06448-1
HERBICIDE COMPOUNDS:	
2,4-D, ug/kg	<200
2,4,5-TP (Silvex), ug/kg	<200
2,4,5-T, ug/kg	<170
PCB COMPOUNDS	
PCB-1016, ug/kg	<330
PCB-1221, ug/kg	<330
PCB-1232, ug/kg	<330
PCB-1242, ug/kg	<330
PCB-1248, ug/kg	<330
PCB-1254, ug/kg	<330
PCB-1260, ug/kg	<330

Note 3: Detection limits raised from required PQL for Herbicides due to elevated levels of phthalates present and overall sample matrix complexity. Lowest achievable detection limits have been reported.

SEG
LABORATORIES, INC.
A DLZ Company
COMPREHENSIVE ENVIRONMENTAL TESTING SERVICES

LOG NO: SE06448

Received: 15 SEP 93
Reported: 30 SEP 93

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SL SAMPLES	DATE SAMPLED
SE06448-1	14 DAY BFP CAKE 08.29.93 TO 09.11.93	

PARAMETER	SE06448-1
PCB COMPOUNDS	
PCB-1016, ug/kg	<330
PCB-1221, ug/kg	<330
PCB-1232, ug/kg	<330
PCB-1242, ug/kg	<330
PCB-1248, ug/kg	<330
PCB-1254, ug/kg	<330
PCB-1260, ug/kg	<330

Kenneth Herman
Approved

1120 May Street • Lansing, Michigan 48906-5599 • (517) 374-6800 • FAX (517) 374-7390
With Offices in Columbus, Ohio • Cleveland, Ohio • Indianapolis, Indiana

LOG NO: SE05731

Received: 22 JUN 93
Reported: 12 JUL 93

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SL SAMPLES	DATE SAMPLED
SE05731-1	14 DAY BFP CAKE 06.06.93 TO 06.19.93 QUARTERLY	

PARAMETER	SE05731-1
PCB COMPOUNDS	
PCB-1016, ug/kg	<330
PCB-1221, ug/kg	<330
PCB-1232, ug/kg	<330
PCB-1242, ug/kg	<330
PCB-1248, ug/kg	<330
PCB-1254, ug/kg	<330
PCB-1260, ug/kg	<330
HERBICIDE COMPOUNDS:	
2,4-D, ug/kg	<50
2,4,5-TP (Silvex), ug/kg	<50
2,4,5-T, ug/kg	<50

LOG NO: SE05127

Received: 23 MAR 93
Reported: 22 APR 93

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SL SAMPLES	DATE SAMPLED
SE05127-1	14 DAY BFC 03.01.93-03.14.93 QUARTERLY	

PARAMETER	SE05127-1
PCB COMPOUNDS	
PCB-1016, ug/kg	<330
PCB-1221, ug/kg	<330
PCB-1232, ug/kg	<330
PCB-1242, ug/kg	<330
PCB-1248, ug/kg	<330
PCB-1254, ug/kg	<330
PCB-1260, ug/kg	<330
HERBICIDE COMPOUNDS:	
2,4-D, ug/kg	<20
2,4,5-TP (Silvex), ug/kg	<50
2,4,5-T, ug/kg	<50

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LABORATORIES, INC.
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COMPREHENSIVE ENVIRONMENTAL TESTING SERVICES

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

Lab Number: SE05127-1

Report Date: 06 APR 93

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED DATE/TIME	RECEIVED
14 DAY BFC 03.01.93-03.14.93 QUARTERLY	Soil		23 MAR 93

CONSTITUENT	RESULT	*PQL	UNITS	METHOD
PCB COMPOUNDS				
PCB-1016	<330	330	ug/kg	EPA 8080
PCB-1221	<330	330	ug/kg	EPA 8080
PCB-1232	<330	330	ug/kg	EPA 8080
PCB-1242	<330	330	ug/kg	EPA 8080
PCB-1248	<330	330	ug/kg	EPA 8080
PCB-1254	<330	330	ug/kg	EPA 8080
PCB-1260	<330	330	ug/kg	EPA 8080

* Practical Quantitation Limit

SEG Laboratories, Inc.

Lori A. Vachon
Approved

SEG
LABORATORIES, INC.
A DLZ Company
COMPREHENSIVE ENVIRONMENTAL TESTING SERVICES

LOG NO: SE05027

Received: 09 MAR 93
Reported: 15 MAR 93

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQ SAMPLES	DATE SAMPLED
SE05027-1	INFLUENT	08 MAR 93
SE05027-2	ASE	08 MAR 93

PARAMETER	SE05027-1	SE05027-2
PCB COMPOUNDS		
PCB-1016, ug/L	<0.1	<0.1
PCB-1221, ug/L	<0.1	<0.1
PCB-1232, ug/L	<0.1	<0.1
PCB-1242, ug/L	<0.1	<0.1
PCB-1248, ug/L	<0.1	<0.1
PCB-1254, ug/L	<0.1	<0.1
PCB-1260, ug/L	<0.1	<0.1

Approved

SEG
LABORATORIES, INC.
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COMPREHENSIVE ENVIRONMENTAL TESTING SERVICES

LOG NO: SE05689

Received: 15 JUN 93
Reported: 01 JUL 93

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQ SAMPLES	DATE SAMPLED
SE05689-1	ASE FINAL EFFLUENT	14 JUN 93
SE05689-2	INT. INFLUENT	14 JUN 93

PARAMETER	SE05689-1	SE05689-2
PCB COMPOUNDS		
PCB-1016, ug/L	<0.1	<0.1
PCB-1221, ug/L	<0.1	<0.1
PCB-1232, ug/L	<0.1	<0.1
PCB-1242, ug/L	<0.1	<0.1
PCB-1248, ug/L	<0.1	<0.1
PCB-1254, ug/L	<0.1	<0.1
PCB-1260, ug/L	<0.1	<0.1

Lori A. Vacher
Approved

1120 May Street • Lansing, Michigan 48906-5599 • (517) 374-6800 • FAX (517) 374-7390
With Offices in Columbus, Ohio • Cleveland, Ohio • Indianapolis, Indiana

SEG LABORATORIES, INC.
1120 May St, Lansing, Michigan 48906
PHONE (517) 374-6800
FAX (517) 374-7390

CUSTODY RECORD

REPORT PAGE	RECORD NUMBER
1 OF 1	9079

COMPANY NAME	REPORT TO	PHONE	FAX	SAMPLED BY
BATTLE CREEK WASTEWATER TREATMENT PLANT	C Kosmowski	(61) 966-5513	(61) 965-3570	CK

ADDRESS: 2000 WEST RIVER ROAD
CITY: BATTLE CREEK, MI 49015 STATE ZIP

PROJECT NAME & LOCATION

ITEM NO	SAMPLE IDENTIFICATION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE	NUMBER/TYPE CONTAINER	REQUESTED ANALYSES
1 & 2	BC WWTP - ASE	6-14-93	11:05am	[illegible] (Water)	1	Quarterly PCB analysis
3 & 4	BC WWTP - Inf	6-14-93	11:00am	Influent (Water)		

TRANSFER NO	RELINQUISHED BY	DATE	TIME	ACCEPTED BY	DATE	TIME	CONDITION
1	WWTP	6-14-93					
2							
3							
4							
5							

ADDITIONAL COMMENTS (PLEASE RECORD SPECIAL HANDLING / HAZARD INFORMATION)

Please complete analysis by July 6, 1993

SEG
LABORATORIES, INC.
A DLZ Company
COMPREHENSIVE ENVIRONMENTAL TESTING SERVICES

LOG NO: SE06447

Received: 15 SEP 93
Reported: 24 SEP 93

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQ SAMPLES	DATE SAMPLED
SE06447-1	ASE	14 SEP 93
SE06447-2	INFLUENT	14 SEP 93

PARAMETER	SE06447-1	SE06447-2
PCB COMPOUNDS		
PCB-1016, ug/L	<0.1	<0.1
PCB-1221, ug/L	<0.1	<0.1
PCB-1232, ug/L	<0.1	<0.1
PCB-1242, ug/L	<0.1	<0.1
PCB-1248, ug/L	<0.1	<0.1
PCB-1254, ug/L	<0.1	<0.1
PCB-1260, ug/L	<0.1	<0.1

Approved

SEG LABORATORIES, INC.
1120 May St, Lansing, Michigan 48906
PHONE (517) 374-6800
FAX (517) 374-7390

CUSTODY RECORD

REPORT PAGE	RECORD NUMBER
OF	8447

COMPANY NAME	REPORT TO	PHONE	FAX	SAMPLED BY
~~[illegible]~~ City of Battle Creek	C. Kosmowski	(616) 926-3573	(616) 965-3[illegible]	CK

ADDRESS: 2100 W. River Road

CITY: Battle Creek MI STATE: 49015 ZIP:

PROJECT NAME & LOCATION:

ITEM NO	SAMPLE IDENTIFICATION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE	NUMBER/TYPE CONTAINER	REQUESTED ANALYSES
1	ASE	9/14/93	10:45am	Water	2	P.B Analysis
2	Influent	9/14/93	10:55am	Water	2	

TRANSFER NO	RELINQUISHED BY	DATE	TIME	ACCEPTED BY	DATE	TIME	CONDITION
1	[illegible]	9/14/93	11:10 am				
2							
3							
4							
5							

ADDITIONAL COMMENTS (PLEASE RECORD SPECIAL HANDLING / HAZARD INFORMATION)

Results needed by October 6, 1993

SEG
LABORATORIES, INC.
A DLZ Company
COMPREHENSIVE ENVIRONMENTAL TESTING SERVICES

LOG NO: SE07143

Received: 09 DEC 93
Reported: 03 JAN 94

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQ SAMPLES	DATE SAMPLED
SE07143-1	INFLUENT	08 DEC 93
SE07143-2	FINAL EFFLUENT	08 DEC 93

PARAMETER	SE07143-1	SE07143-2
PCB COMPOUNDS		
PCB-1016, ug/L	<0.1	<0.1
PCB-1221, ug/L	<0.1	<0.1
PCB-1232, ug/L	<0.1	<0.1
PCB-1242, ug/L	<0.1	<0.1
PCB-1248, ug/L	<0.1	<0.1
PCB-1254, ug/L	<0.1	<0.1
PCB-1260, ug/L	<0.1	<0.1

Kenneth Herman
Approved

1120 May Street • Lansing, Michigan 48906-5599 • (517) 374-6800 • FAX (517) 374-7390
With Offices in Columbus, Ohio • Cleveland, Ohio • Indianapolis, Indiana

LOG NO: SE04399

Received: 09 DEC 92
Reported: 11 JAN 93

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

Project: QUARTERLY

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SL SAMPLES	DATE SAMPLED
SE04399-1	14 DAY BFP SLUDGE CAKE 11.23.92 TO 12.06.92	

PARAMETER	SE04399-1
PCB COMPOUNDS	
PCB-1016, ug/kg	<330
PCB-1221, ug/kg	<330
PCB-1232, ug/kg	<330
PCB-1242, ug/kg	<330
PCB-1248, ug/kg	<330
PCB-1254, ug/kg	<330
PCB-1260, ug/kg	<330
HERBICIDE COMPOUNDS	
2,4-D, ug/kg	<200

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

Lab Number: SE03671-1

Report Date: 29 OCT 92

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED DATE/TIME	RECEIVED
BELT FILTER CAKE/QUARTERLY 09.01.92 TO 09.13.92	Soil		17 SEP 92

CONSTITUENT	RESULT	*PQL	UNITS	METHOD
HERBICIDE COMPOUNDS:				
2,4-D	<200	200	ug/kg	EPA 8150
2,4,5-TP (Silvex)	<200	200	ug/kg	EPA 8150
2,4,5-T	<170	40	ug/kg	EPA 8150
PCB COMPOUNDS:				
PCB-1016	<330	330	ug/kg	EPA 8080
PCB-1221	<330	330	ug/kg	EPA 8080
PCB-1232	<330	330	ug/kg	EPA 8080
PCB-1242	<330	330	ug/kg	EPA 8080
PCB-1248	<330	330	ug/kg	EPA 8080
PCB-1254	<330	330	ug/kg	EPA 8080
PCB-1260	<330	330	ug/kg	EPA 8080

* Practical Quantitation Limit

** Note 2: Detection limit raised from required PQL due to elevated Phthalates levels present and overall sample matrix complexity. Lowest achievable PQL has been reported.

SEG Laboratories, Inc.

Kenneth Herman
Approved

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Auburn Hills Division
1700 Harmon Road
Auburn Hills, MI 48326

Tel: (313) 391-2050
Fax: (313) 391-9698

ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

07/23/1992

Job No.: 92.3658
Sample No.: 109409

Quarterly Residual Sample
Belt Filter Press Cake 14 Day Composite

Sample Description: 06/09-22/92

Date Taken: 06/22/1992

Date Received: 07/01/1992

Parameter	Result	Unit	Date Analyzed	Lab Tech.	Methodology
Toxaphene	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)

Results on a dry weight basis.

Bruce E. Brown
Project Manager

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Auburn Hills Division
1700 Harmon Road
Auburn Hills, MI 48326

Tel: (313) 391-2050
Fax: (313) 391-9698

ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

07/23/1992

Job No.: 92.3658
Sample No.: 109409

Quarterly Residual Sample
Belt Filter Press Cake 14 Day Composite

Sample Description: 06/09-22/92

Date Taken: 06/22/1992

Date Received: 07/01/1992

Parameter	Result	Unit	Date Analyzed	Lab Tech.	Methodology
PESTICIDES/PCB'S					
Aldrin	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
alpha-BHC	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
beta-BHC	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
delta-BHC	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
gamma-BHC (Lindane)	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
Chlordane	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
4,4'-DDD	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
4,4'-DDE	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
4,4'-DDT	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
Dieldrin	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
Endosulfan I	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
Endosulfan II	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
Endosulfan sulfate	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
Endrin	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
Endrin aldehyde	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
Heptachlor	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
Heptachlor epoxide	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
Methoxychlor	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
Aroclor-1016	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
Aroclor-1221	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
Aroclor-1232	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
Aroclor-1242	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
Aroclor-1248	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
Aroclor-1254	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)
Aroclor-1260	<6.3	mg/kg dw	07/06/1992	brd	8080 (1)

Results on a dry weight basis.

Bruce E. Brown
Project Manager

OCEAN GROUP

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Auburn Hills Division
1700 Harmon Road
Auburn Hills, MI 48326

Tel. (313) 391-2050
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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

04/30/1992

Job No.: 92.1582
Sample No.: 104531

Quarterly Residual Sample
Belt Filter Press Cake 14 Day Composite

Sample Description: 03/05-16/92

Date Taken: 03/16/1992

Date Received: 03/26/1992

Parameter	Result	Unit	Date Analyzed	Lab Tech.	Methodology
PESTICIDES/PCB'S					
Aldrin	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
alpha-BHC	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
beta-BHC	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
delta-BHC	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
gamma-BHC (Lindane)	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
Chlordane	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
4,4'-DDD	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
4,4'-DDE	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
4,4'-DDT	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
Dieldrin	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
Endosulfan I	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
Endosulfan II	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
Endosulfan sulfate	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
Endrin	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
Endrin aldehyde	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
Heptachlor	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
Heptachlor epoxide	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
Methoxychlor	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
Aroclor-1016	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
Aroclor-1221	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
Aroclor-1232	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
Aroclor-1242	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
Aroclor-1248	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
Aroclor-1254	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
Aroclor-1260	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
Toxaphene	<6.3	mg/kg dw	04/09/1992	mmk	8080 (1)
2,4-D	<0.6	mg/kg dw	04/02/1992	mmk	8150 (1)
Malathion	<6.3	mg/kg dw	04/29/1992	beb	8080 (1)
Tricresyl phosphate ester	<63.	mg/kg dw	04/29/1992	beb	8140 (1)
Triphenyl phosphate ester	<63.	mg/kg dw	04/29/1992	beb	8140 (1)
Trixylenyl phosphate ester	<63.	mg/kg dw	04/29/1992	beb	8140 (1)

Results on a dry weight basis.

Bruce E. Brown
Project Manager

OCEAN GROUP

Kemron Environmental Services
39830 Grand River B-2
Novi, Michigan 48375
(313) 474-4200 (313) 474-0601 FAX

ANALYTICAL REPORT FORM

TO: CITY OF BATTLE CREEK
ATTN: KRIS KOSMOWSKI
2000 W. RIVER ROAD
BATTLE CREEK
MI 49015-
Job Number: 0020525

Report Number : 920496
Date Received : 03/13/92
Date Reported : 03/25/92

Sample #	Client Id	Sample Desciption	Analyte	Result	Units
4203522	INFLUENT		PCB	<1	ppb
4203523	ASE		PCB	<1	ppb

Method: PCB EPA 608 Det. Limit: 1 ppb

ANALYST: JE
Date: 03/25/92

Charles O'Bryan
Laboratory Manager

Kemron Environmental Services
39830 Grand River B-2
Novi, Michigan 48375-2108
(313) 474-4200 (313) 474-0601 FAX

ANALYTICAL REPORT FORM

TO: CITY OF BATTLE CREEK
ATTN: KRIS KOSMOWSKI
2000 W. RIVER ROAD
BATTLE CREEK
MI 49015-
Job Number:

Report Number : 921388
Date Received : 06/16/92
Date Reported : 06/19/92

Sample #	Client Id	Sample Description	Analyte	Result	Units
4210338	INFLUENT	BCWWTP	PCB	<0.5	ppb
4210339	ASE	BCWWTP	PCB	<0.5	ppb

Method: PCB EPA 608 Det. Limit: 0.5 ppb

ANALYST: JE
Date: 06/19/92

Charles O'Bryan
Laboratory Manager

LABORATORIES, INC.

LOG NO: SE03018

Received: 09 JUL 92
Reported: 28 JUL 92

MR. WALTER THOMPSON
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SW SAMPLES	DATE SAMPLED
SE03018-1	BLENDED PRIMARY SECONDARY LIME STAB. SLUDGE #1	09 JUL 92
SE03018-2	BLENDED PRIMARY SECONDARY LIME STAB. SLUDGE #2	09 JUL 92
SE03018-3	BLENDED PRIMARY SECONDARY LIME STAB. SLUDGE #3	09 JUL 92
SE03018-4	BLENDED PRIMARY SECONDARY LIME STAB. SLUDGE #4	09 JUL 92

PARAMETER	SE03018-1	SE03018-2	SE03018-3	SE03018-4
PCB COMPOUNDS:				
PCB-1016, ug/kg	<530 *	<590 *	<680 *	<700 *
PCB-1221, ug/kg	<530 *	<590 *	<680 *	<700 *
PCB-1232, ug/kg	<530 *	<590 *	<680 *	<700 *
PCB-1242, ug/kg	<530 *	<590 *	<680 *	<700 *
PCB-1248, ug/kg	<530 *	<590 *	<680 *	<700 *
PCB-1254, ug/kg	<530 *	<590 *	<680 *	<700 *
PCB-1260, ug/kg	<530 *	<590 *	<680 *	<700 *

* - Standard PQL and detected analytical results have been converted to dry weight, based on decimal percent solids for each sample.

Approved

SEG
LABORATORIES, INC.
A DLZ Company
COMPREHENSIVE ENVIRONMENTAL TESTING SERVICES

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

Lab Number: SE03652-1

Report Date: 05 OCT 92

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED DATE/TIME	RECEIVED
INFLUENT BCWWTP	Aqueous	17 SEP 92/10:00	18 SEP 92

CONSTITUENT	RESULT	*PQL	UNITS	METHOD
PCB COMPOUNDS:				
PCB-1016	<0.1	0.1	ug/L	EPA 608
PCB-1221	<0.1	0.1	ug/L	EPA 608
PCB-1232	<0.1	0.1	ug/L	EPA 608
PCB-1242	<0.1	0.1	ug/L	EPA 608
PCB-1248	<0.1	0.1	ug/L	EPA 608
PCB-1254	<0.1	0.1	ug/L	EPA 608
PCB-1260	<0.1	0.1	ug/L	EPA 608

* Practical Quantitation Limit
** Report revised 10/7/92

SEG Laboratories, Inc.

Kenneth Herman
Approved

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

Lab Number: SE03652-2

Report Date: 05 OCT 92

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED DATE/TIME	RECEIVED
FINAL EFF. BCWWTP	Aqueous	17 SEP 92/10:05	18 SEP 92

CONSTITUENT	RESULT	*PQL	UNITS	METHOD
PCB COMPOUNDS:				
PCB-1016	<0.1	0.1	ug/L	EPA 608
PCB-1221	<0.1	0.1	ug/L	EPA 608
PCB-1232	<0.1	0.1	ug/L	EPA 608
PCB-1242	<0.1	0.1	ug/L	EPA 608
PCB-1248	<0.1	0.1	ug/L	EPA 608
PCB-1254	<0.1	0.1	ug/L	EPA 608
PCB-1260	<0.1	0.1	ug/L	EPA 608

* Practical Quantitation Limit
** Report revised 10/7/92

SEG Laboratories, Inc.

Kenneth Herman

Approved

QC/QA SUMMARY REPORT

Client: City of Battle Creek WWTP
Project: Monthly Sampling
Date Sampled: 9/17/92

PARAMETERS	PCB				
EPA METHOD	608				
PRACTICAL QUANTITATION LIMIT (PQL)	0.1 ug/L				
DATE OF ANALYSIS	9/29,10/1,10/8/92				
ANALYST	JBS				
ACCURACY					
Method Blank	<0.1 ug/L				
Spiked Blank Level	0.5 ug/L				
Spiked Blank Result	0.435 ug/L				
Recovery	87%				
LCL-UCL	80-120%				
Sample ID#	Note 1				
Matrix Spike Result					
Spike Level					
Matrix Spike Recovery					
LCL-UCL	80-120%				
PRECISION					
Sample ID#	Note 1				
Original Result					
Duplicate Result					
Difference					
Samples analyzed in this analytical batch:	SE03652*1-2				

Note 1: No duplicate or matrix spike prepared due to limited sample amount received for this sample set.

SEG
LABORATORIES, INC.
A DLZ Company
COMPREHENSIVE ENVIRONMENTAL TESTING SERVICES

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

Lab Number: SE04347-1

Report Date: 21 DEC 92

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED DATE/TIME	RECEIVED
ASE QUARTERLY	Aqueous	12 NOV 92/11:15	03 DEC 92

CONSTITUENT	RESULT	*PQL	UNITS	METHOD
PCB COMPOUNDS				
PCB-1016	<0.1	0.1	ug/L	EPA 608
PCB-1221	<0.1	0.1	ug/L	EPA 608
PCB-1232	<0.1	0.1	ug/L	EPA 608
PCB-1242	<0.1	0.1	ug/L	EPA 608
PCB-1248	<0.1	0.1	ug/L	EPA 608
PCB-1254	<0.1	0.1	ug/L	EPA 608
PCB-1260	<0.1	0.1	ug/L	EPA 608

* Practical Quantitation Limit

SEG Laboratories, Inc.

Approved

SEG
LABORATORIES, INC.
A DLZ Company
COMPREHENSIVE ENVIRONMENTAL TESTING SERVICES

MS. CHRISTINE KOSMOWSKI
BATTLE CREEK WWTP
2000 WEST RIVER ROAD
BATTLE CREEK, MICHIGAN 49015

Lab Number: SE04400-1

Report Date: 21 DEC 92

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED DATE/TIME	RECEIVED
INFLUENT QUARTERLY	Aqueous	08 DEC 92/08:10	09 DEC 92

CONSTITUENT	RESULT	*PQL	UNITS	METHOD
PCB COMPOUNDS				
PCB-1016	<0.1	0.1	ug/L	EPA 608
PCB-1221	<0.1	0.1	ug/L	
PCB-1232	<0.1	0.1	ug/L	
PCB-1242	<0.1	0.1	ug/L	
PCB-1248	<0.1	0.1	ug/L	
PCB-1254	<0.1	0.1	ug/L	
PCB-1260	<0.1	0.1	ug/L	

* Practical Quantitation Limit

SEG Laboratories, Inc.

Approved

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Auburn Hills Division
1700 Harmon Road
Auburn Hills, MI 48326

Tel: (313) 391-2050
Fax: (313) 391-9698

ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

01/20/1992

Job No.: 91.6856
Sample No.: 100154

Quarterly Residual Sample
Belt Filter Press Cake 14 Day Composite

Sample Description: 11/27-12/11/1991

Date Taken: 12/11/1991

Date Received: 12/17/1991

Parameter	Result	Unit	Analyzed	Tech.	Methodology
PESTICIDES/PCB'S					
Aldrin	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
alpha-BHC	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
beta-BHC	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
delta-BHC	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
gamma-BHC (Lindane)	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
Chlordane	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
4,4'-DDD	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
4,4'-DDE	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
4,4'-DDT	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
Dieldrin	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
Endosulfan I	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
Endosulfan II	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
Endosulfan sulfate	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
Endrin	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
Endrin aldehyde	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
Heptachlor	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
Heptachlor epoxide	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
Methoxychlor	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
Toxaphene	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
Aroclor-1016	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
Aroclor-1221	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
Aroclor-1232	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
Aroclor-1242	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
Aroclor-1248	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
Aroclor-1254	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
Aroclor-1260	<7.7	mg/kg dw	01/04/1992	hsc	8080 (1)
Malathion	<7.7	mg/kg dw	01/15/1992	mmk	8080 (1)
2,4-D	<0.8	mg/kg dw	01/07/1992	mmk	8150 (1)
PHOSPHATE ESTERS					
Tricresyl phosphate ester	<77.	mg/kg dw	01/15/1992	mmk	8140 (1)
Triphenyl phosphate ester	<77.	mg/kg dw	01/15/1992	mmk	8140 (1)
Trixylenyl phosphate ester	<77.	mg/kg dw	01/15/1992	mmk	8140 (1)

Results on a dry weight basis.

Bruce E. Brown
Project Manager

OCEAN GROUP

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Auburn Hills Division
1700 Harmon Road
Auburn Hills, MI 48326

Tel: (313) 391-2050
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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

10/26/1991

Job No.: 91.5278
Sample No.: 96192

Quarterly Residual Sample
Belt Filter Press Cake 14 Day Composite

Sample Description: 09/04 - 09/17/91

Date Taken:

Date Received: 09/25/1991

Parameter	Result	Unit	Analyzed	Tech.	Methodology
PESTICIDES/PCB'S					
Aldrin	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
alpha-BHC	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
beta-BHC	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
delta-BHC	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
gamma-BHC (Lindane)	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
Chlordane	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
4,4'-DDD	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
4,4'-DDE	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
4,4'-DDT	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
Dieldrin	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
Endosulfan I	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
Endosulfan II	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
Endosulfan sulfate	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
Endrin	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
Endrin aldehyde	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
Heptachlor	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
Heptachlor epoxide	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
Methoxychlor	<7.7	mg/Kg dw	10/03/1991	mmk	8080 (1)
Toxaphene	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
Aroclor-1016	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
Aroclor-1221	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
Aroclor-1232	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
Aroclor-1242	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
Aroclor-1248	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
Aroclor-1254	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
Aroclor-1260	<7.7	mg/kg dw	10/03/1991	mmk	8080 (1)
Malathion	<7.7	mg/kg dw	10/04/1991	mmk	8080 (1)
2,4-D	<0.8	mg/kg dw	10/22/1991	mmk	8015 (1)
PHOSPHATE ESTERS					
Tricresyl phosphate ester	<77.	mg/kg dw	10/03/1991	mmk	8140 (1)
Triphenyl phosphate ester	<77.	mg/Kg dw	10/03/1991	mmk	8140 (1)
Trixylenyl phosphate ester	<77.	mg/Kg dw	10/03/1991	mmk	8140 (1)

Results on a dry weight basis.

Bruce E. Brown
Project Manager

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Pontiac Division
398 Auburn Avenue
Pontiac, MI 48342
Tel: (313) 253-0440
Fax: (313) 334-8486

ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

07/31/1991

Job No.: 91.3430
Sample No.: 92022

Quarterly Residual Sample
Belt Filter Press Cake 14 Day Composite

Sample Description: 05/29 - 06/11/1991

Date Taken: 06/11/1991

Date Received: 06/17/1991

Parameter	Result	Unit	Analyzed	Tech.	Methodology
PESTICIDES/PCB'S					
Aldrin	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
alpha-BHC	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
beta-BHC	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
delta-BHC	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
gamma-BHC (Lindane)	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
Chlordane	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
4,4'-DDD	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
4,4'-DDE	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
4,4'-DDT	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
Dieldrin	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
Endosulfan I	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
Endosulfan II	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
Endosulfan sulfate	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
Endrin	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
Endrin aldehyde	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
Heptachlor	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
Heptachlor epoxide	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
Methoxychlor	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
Toxaphene	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
Aroclor-1016	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
Aroclor-1221	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
Aroclor-1232	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
Aroclor-1242	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
Aroclor-1248	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
Aroclor-1254	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
Aroclor-1260	<7.1	mg/kg dw	06/28/1991	mmk	8080 (1)
Malathion	<7.1	mg/kg dw	07/09/1991	mmk	8080 (1)
2,4-D	<0.7	mg/kg dw	07/29/1991	lrk	8150 (1)
PHOSPHATE ESTERS					
Tricresyl phosphate ester	<360.	mg/kg dw	07/12/1991	mmk	8140 (1)
Triphenyl phosphate ester	<360.	mg/kg dw	07/12/1991	mmk	8140 (1)
Trixylenyl phosphate ester	<360.	mg/kg dw	07/12/1991	mmk	8140 (1)

Results on a dry weight basis.

Bruce E. Brown
Project Manager

NET® NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Pontiac Division
398 Auburn Avenue
Pontiac, MI 48342
Tel: (313) 253-0440
Fax: (313) 334-8486

ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
Finance Department
P O Box 1717
Battle Creek, MI 49016

05/06/1991

Job No.: 91.1686
Sample No.: 88445

Quarterly Residual Sample
Belt Filter Press Cake 14 Day Composite
Sample Description: 03/05-18/91

Date Taken: 03/18/1991 Date Received: 03/26/1991

Parameter	Result	Unit
PESTS/PCB'S		
Aldrin	<3.6	mg/kg dw
gamma-BHC (Lindane)	<.1	mg/kg dw
Chlordane	<.1	mg/kg dw
4,4'-DDD	<3.6	mg/kg dw
4,4'-DDE	<3.6	mg/kg dw
4,4'-DDT	<3.6	mg/kg dw
Dieldrin	<3.6	mg/kg dw
Endrin	<.1	mg/kg dw
Aroclor-1016	<7.1	mg/kg dw
Aroclor-1221	<7.1	mg/kg dw
Aroclor-1232	<7.1	mg/kg dw
Aroclor-1242	<7.1	mg/kg dw
Aroclor-1248	<7.1	mg/kg dw
Aroclor-1254	<7.1	mg/kg dw
Aroclor-1260	<7.1	mg/kg dw
Toxaphene	<.7	mg/kg dw
Malathion	21000.	mg/kg dw
2,4-D	<71.	mg/kg dw
PHOSPHATE ESTERS		
Tricresyl phosphate ester	<71.	mg/kg dw

Results on a dry weight basis.

Bruce E. Brown
Project Manager

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc
Auburn Hills Division
1700 Harmon Road
Auburn Hills MI 48326

Tel (313) 391-2050
Fax (313) 391 9697

ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

10/10/1991

Job No.: 91.5196
Sample No.: 96022

PCB Analysis

Sample Description: Activated Sludge Effluent

Date Taken: 09/18/1991

Date Received: 09/19/1991

Parameter	Result	Unit	Date Analyzed	Lab Tech.	Methodology
PCB'S					
Aroclor-1016	<0.050	ug/L	09/30/1991	mmk	608 (5)
Aroclor-1221	<0.050	ug/L	09/30/1991	mmk	608 (5)
Aroclor-1232	<0.050	ug/L	09/30/1991	mmk	608 (5)
Aroclor-1242	<0.050	ug/L	09/30/1991	mmk	608 (5)
Aroclor-1248	<0.050	ug/L	09/30/1991	mmk	608 (5)
Aroclor-1254	<0.050	ug/L	09/30/1991	mmk	608 (5)
Aroclor-1260	<0.050	ug/L	09/30/1991	mmk	608 (5)

Bruce E. Brown
Project Manager

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Auburn Hills Division
1700 Harmon Road
Auburn Hills, MI 48326

Tel: (313) 391-2050
Fax: (313) 391-9697

ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

10/10/1991

Job No.: 91.5196
Sample No.: 96021

PCB Analysis

Sample Description: Influent

Date Taken: 09/18/1991

Date Received: 09/19/1991

Parameter	Result	Unit	Date Analyzed	Lab Tech.	Methodology
PCB'S					
Aroclor-1016	<0.050	ug/L	09/30/1991	mmk	608 (5)
Aroclor-1221	<0.050	ug/L	09/30/1991	mmk	608 (5)
Aroclor-1232	<0.050	ug/L	09/30/1991	mmk	608 (5)
Aroclor-1242	<0.050	ug/L	09/30/1991	mmk	608 (5)
Aroclor-1248	<0.050	ug/L	09/30/1991	mmk	608 (5)
Aroclor-1254	<0.050	ug/L	09/30/1991	mmk	608 (5)
Aroclor-1260	<0.050	ug/L	09/30/1991	mmk	608 (5)

Bruce E. Brown
Project Manager

Kemron Environmental Services
39830 Grand River B-2
Novi, Michigan 48375
(313) 474-4200 (313) 474-0601 FAX

ANALYTICAL REPORT FORM

TO: CITY OF BATTLE CREEK
ATTN: KRIS KOSMOWSKI
2000 W. RIVER ROAD
BATTLE CREEK
MI 49015-
Job Number: 0020525

Report Number : 912240
Date Received : 12/04/91
Date Reported : 12/10/91

Sample #	Client Id	Sample Desciption	Analyte	Result	Units
4118998	INFLUENT		PCB	<1	ppb
4118999	ASE		PCB	<1	ppb

Method: PCB EPA 8080 Det. Limit: 1 ug/L

ANALYST: JE
Date: 12/10/91

Charles O'Bryan
Laboratory Manager

Kemron Environmental Services
39830 Grand River B-2
Novi, Michigan 48375
(313) 474-4200 (313) 474-0601 FAX

ANALYTICAL REPORT FORM

TO: CITY OF BATTLE CREEK
ATTN: KRIS KROSMONSKI
2000 W. RIVER ROAD
BATTLE CREEK
MI 49015-
Job Number:

Report Number : 911755
Date Received : 09/19/91
Date Reported : 10/01/91

Sample #	Client Id	Sample Desciption	Analyte	Result	Units
4115111	INFLUENT	BCWWTP	PCB	<1	ug/L
4115112	ASE	BCWWTP	PCB	<1	ug/L

Method: PCB EPA 8080 Det. Limit: 1 ug/L

ANALYST: JE
Date: 10/01/91

Charles O'Bryan
Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES - PCB

CLIENT: CITY OF BATTLE CREEK

PROJ. #: BCWWTP

MATRIX: WASTE WATER

METHOD: EPA 608

REPORT #: 911045

DATE RECEIVED: 06/27/91

ANALYST/DATE: 07/01/91

UNITS: ug/L

KEMRON LAB NO.	4110023	Det. Limit	4110024	Det. Limit *
CLIENT ID	ASE		INFLUENT	
Aroclor-1016	BDL	0.50	BDL	5.0
Aroclor-1221	BDL	0.50	BDL	5.0
Aroclor-1232	BDL	0.50	BDL	5.0
Aroclor-1242	BDL	0.50	BDL	5.0
Aroclor-1248	BDL	0.50	BDL	5.0
Aroclor-1254	BDL	1.0	BDL	10
Aroclor-1260	BDL	1.0	BDL	10

BDL = BELOW DETECTION LIMIT
* = ELEVATED DETECTION DUE TO SAMPLE MATRIX INTERFERENCE

KEMRON ENVIRONMENTAL SERVICES - PCB

CLIENT: CITY OF BATTLE CREEK

PROJ. #: BCWWTP

MATRIX: WASTE WATER

METHOD: EPA 608

REPORT #: 911045

DATE RECEIVED: 06/27/91

ANALYST/DATE: 07/01/91

UNITS: ug/L

KEMRON LAB NO.	4110023	Det. Limit	4110024	Det. Limit *
CLIENT ID	ASE		INFLUENT	
Aroclor-1016	BDL	5.0	BDL	50
Aroclor-1221	BDL	5.0	BDL	50
Aroclor-1232	BDL	5.0	BDL	50
Aroclor-1242	BDL	5.0	BDL	50
Aroclor-1248	BDL	5.0	BDL	50
Aroclor-1254	BDL	10	BDL	100
Aroclor-1260	BDL	10	BDL	100

BDL = BELOW DETECTION LIMIT
* = ELEVATED DETECTION DUE TO SAMPLE MATRIX INTERFERENCE

[redacted]eived: 03/07/91

KEMRON REPORT Work Order # N1-03-083

Results by Sample

SAMPLE ID ASE/DUP. FRACTION 04A TEST CODE PCB_W NAME Polychlorinated Biphenyls

Date & Time Collected 03/06/91 10:45:00 Category WATER

ANALYST: JLC EXTRACTED: 03/08/91 FILE #: 1630

INSTRMT: HP_IV INJECTED: 03/18/91 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	BDL	0.50
11104-28-2	Aroclor-1221	BDL	0.50
11141-16-5	Aroclor-1232	BDL	0.50
53469-21-9	Aroclor-1242	BDL	0.50
12672-29-6	Aroclor-1248	BDL	0.50
11097-69-1	Aroclor-1254	BDL	1.0
11096-82-5	Aroclor-1260	BDL	1.0

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = DETECTION LIMIT

BDL=BELOW DETECTION LIMIT

NA =NOT ANALYZED

[redacted]ived: 03/07/91

KEMRON REPORT Work Order # N1-03-083

Results by Sample

SAMPLE ID ASE FRACTION 03A TEST CODE PCB_W NAME Polychlorinated Biphenyls

Date & Time Collected 03/06/91 10:45:00 Category WATER

ANALYST: JLC EXTRACTED: 03/08/91 FILE #: 1629

INSTRMT: HP_IV INJECTED: 03/18/91 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	BDL	0.50
11104-28-2	Aroclor-1221	BDL	0.50
11141-16-5	Aroclor-1232	BDL	0.50
53469-21-9	Aroclor-1242	BDL	0.50
12672-29-6	Aroclor-1248	BDL	0.50
11097-69-1	Aroclor-1254	BDL	1.0
11096-82-5	Aroclor-1260	BDL	1.0

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = DETECTION LIMIT

BDL=BELOW DETECTION LIMIT

NA =NOT ANALYZED

KEMRON REPORT Work Order # N1-03-083

[redacted] 03/07/91

Results by Sample

SAMPLE ID Influent/DUP. FRACTION 02A TEST CODE PCB_W NAME Polychlorinated Biphenyls

Date & Time Collected 03/06/91 10:40:00 Category WATER

ANALYST: JLC EXTRACTED: 03/08/91 FILE #: 1627

INSTRMT: HP_IV INJECTED: 03/18/91 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	BDL	0.50
11104-28-2	Aroclor-1221	BDL	0.50
11141-16-5	Aroclor-1232	BDL	0.50
53469-21-9	Aroclor-1242	BDL	0.50
12672-29-6	Aroclor-1248	BDL	0.50
11097-69-1	Aroclor-1254	BDL	1.0
11096-82-5	Aroclor-1260	BDL	1.0

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = DETECTION LIMIT

BDL=BELOW DETECTION LIMIT

NA =NOT ANALYZED

[redacted]ved: 03/07/91

KEMRON REPORT Work Order # N1-03-083
Results by Sample

SAMPLE ID Influent FRACTION 01A TEST CODE PCB_W NAME Polychlorinated Biphenyls
Date & Time Collected 03/06/91 10:40:00 Category WATER

ANALYST: JLC EXTRACTED: 03/08/91 FILE #: 1626
INSTRMT: HP_IV INJECTED: 03/18/91 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	BDL	0.50
11104-28-2	Aroclor-1221	BDL	0.50
11141-16-5	Aroclor-1232	BDL	0.50
53469-21-9	Aroclor-1242	BDL	0.50
12672-29-6	Aroclor-1248	BDL	0.50
11097-69-1	Aroclor-1254	BDL	1.0
11096-82-5	Aroclor-1260	BDL	1.0

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

SAMPLE ID ASE Dup FRACTION 04A TEST CODE PCB_W NAME Polychlorinated Biphenyls
Date & Time Collected 01/10/91 11:25:00 Category WATER

ANALYST: SWC EXTRACTED: 01/15/91 FILE #: 0124C27A
INSTRMT: HP_I INJECTED: 01/25/91 FACTOR: 1 UNITS: ug/l VERIFIED: HMM

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	BDL	0.50
11104-28-2	Aroclor-1221	BDL	0.50
11141-16-5	Aroclor-1232	BDL	0.50
53469-21-9	Aroclor-1242	BDL	0.50
12672-29-6	Aroclor-1248	BDL	0.50
11097-69-1	Aroclor-1254	BDL	1.0
11096-82-5	Aroclor-1260	BDL	1.0

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

Received: 01/14/91
Results by Sample

SAMPLE ID ASE FRACTION 03A TEST CODE PCB_W NAME Polychlorinated Biphenyls
Date & Time Collected 01/10/91 11:25:00 Category WATER

ANALYST: SWC EXTRACTED: 01/15/91 FILE #: 0124C26A
INSTRMT: HP_I INJECTED: 01/25/91 FACTOR: 1 UNITS: ug/l VERIFIED: HMM

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	BDL	0.50
11104-28-2	Aroclor-1221	BDL	0.50
11141-16-5	Aroclor-1232	BDL	0.50
53469-21-9	Aroclor-1242	BDL	0.50
12672-29-6	Aroclor-1248	BDL	0.50
11097-69-1	Aroclor-1254	BDL	1.0
11096-82-5	Aroclor-1260	BDL	1.0

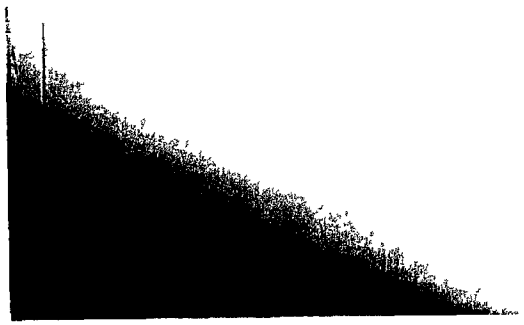
NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

SAMPLE ID Influent Dup FRACTION 02A TEST CODE PCB_W NAME Polychlorinated Biphenyls
Date & Time Collected 01/10/91 11:15:00 Category WATER

ANALYST: SWC EXTRACTED: 01/15/91 FILE #: 0124C25A
INSTRMT: HP_I INJECTED: 01/25/91 FACTOR: 1 UNITS: ug/l VERIFIED: HMM

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	BDL	0.50
11104-28-2	Aroclor-1221	BDL	0.50
11141-16-5	Aroclor-1232	BDL	0.50
53469-21-9	Aroclor-1242	BDL	0.50
12672-29-6	Aroclor-1248	BDL	0.50
11097-69-1	Aroclor-1254	BDL	1.0
11096-82-5	Aroclor-1260	BDL	1.0

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED



SAMPLE ID Influent FRACTION 01A TEST CODE PCB_W NAME Polychlorinated Biphenyls
Date & Time Collected 01/10/91 11:15:00 Category WATER

ANALYST: SWC EXTRACTED: 01/15/91 FILE #: 0124C24A
INSTRMT: HP_I INJECTED: 01/25/91 FACTOR: 1 UNITS: ug/l VERIFIED: HMM

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	BDL	0.50
11104-28-2	Aroclor-1221	BDL	0.50
11141-16-5	Aroclor-1232	BDL	0.50
53469-21-9	Aroclor-1242	BDL	0.50
12672-29-6	Aroclor-1248	BDL	0.50
11097-69-1	Aroclor-1254	BDL	1.0
11096-82-5	Aroclor-1260	BDL	1.0

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

Received: 01/14/91
Results by Sample

SAMPLE ID ASE Dup FRACTION 04A TEST CODE PCB_W NAME Polychlorinated Biphenyls
Date & Time Collected 01/10/91 11:25:00 Category WATER

ANALYST: SWC EXTRACTED: 01/15/91 FILE #: 0124C27A
INSTRMT: HP_I INJECTED: 01/25/91 FACTOR: 1 UNITS: ug/l VERIFIED: HMM

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	BDL	0.065
11104-28-2	Aroclor-1221	BDL	0.065
11141-16-5	Aroclor-1232	BDL	0.065
53469-21-9	Aroclor-1242	BDL	0.065
12672-29-6	Aroclor-1248	BDL	0.065
11097-69-1	Aroclor-1254	BDL	0.10
11096-82-5	Aroclor-1260	BDL	0.10

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

KEMRON REPORT Work Order # N1-01-161

Received: 01/14/91

Results by Sample

SAMPLE ID ASE FRACTION 03A TEST CODE PCB_W NAME Polychlorinated Biphenyls

Date & Time Collected 01/10/91 11:25:00 Category WATER

ANALYST: SWC EXTRACTED: 01/15/91 FILE #: 0124C26A

INSTRMT: HP_I INJECTED: 01/25/91 FACTOR: 1 UNITS: ug/l VERIFIED: HMM

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	BDL	0.065
11104-28-2	Aroclor-1221	BDL	0.065
11141-16-5	Aroclor-1232	BDL	0.065
53469-21-9	Aroclor-1242	BDL	0.065
12672-29-6	Aroclor-1248	BDL	0.065
11097-69-1	Aroclor-1254	BDL	0.10
11096-82-5	Aroclor-1260	BDL	0.10

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = DETECTION LIMIT

BDL=BELOW DETECTION LIMIT

NA =NOT ANALYZED

KEMRON REPORT Work Order # N1-01-161

Received: 01/14/91

Results by Sample

SAMPLE ID Influent Dup FRACTION 02A TEST CODE PCB_W NAME Polychlorinated Biphenyls

Date & Time Collected 01/10/91 11:15:00 Category WATER

ANALYST: SWC EXTRACTED: 01/15/91 FILE #: 0124C25A

INSTRMT: HP_I INJECTED: 01/25/91 FACTOR: 1 UNITS: ug/l VERIFIED: HMM

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	BDL	0.065
11104-28-2	Aroclor-1221	BDL	0.065
11141-16-5	Aroclor-1232	BDL	0.065
53469-21-9	Aroclor-1242	BDL	0.065
12672-29-6	Aroclor-1248	BDL	0.065
11097-69-1	Aroclor-1254	BDL	0.10
11096-82-5	Aroclor-1260	BDL	0.10

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = DETECTION LIMIT

BDL=BELOW DETECTION LIMIT

NA =NOT ANALYZED

[redacted]eived: 01/14/91

KEMRON REPORT Work Order # N1-01-161
Results by Sample

SAMPLE ID Influent FRACTION 01A TEST CODE PCB_W NAME Polychlorinated Biphenyls
Date & Time Collected 01/10/91 11:15:00 Category WATER

ANALYST: SWC EXTRACTED: 01/15/91 FILE #: 0124C24A
INSTRMT: HP_I INJECTED: 01/25/91 FACTOR: 1 UNITS: ug/l VERIFIED: HMM

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	BDL	0.065
11104-28-2	Aroclor-1221	BDL	0.065
11141-16-5	Aroclor-1232	BDL	0.065
53469-21-9	Aroclor-1242	BDL	0.065
12672-29-6	Aroclor-1248	BDL	0.065
11097-69-1	Aroclor-1254	BDL	0.10
11096-82-5	Aroclor-1260	BDL	0.10

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Pontiac Division
398 Auburn Avenue
Pontiac, MI 48342
Tel: (313) 253-0440
Fax: (313) 334-8486

ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek, MI 49016

02/06/1991

Job No.: 90.1351
Sample No.: 84164

Sample Description: 11/27-12/09/90

Quarterly Residual Sample
Belt Filter Press Cake 14 Day Composite

Date Taken:
Date Received: 12/20/1990

Parameter	Result	Unit
PESTS/PCB'S (GC/MS)		
Aldrin	<16.	mg/Kg
gamma-BHC	<16.	mg/Kg
Chlordane	<16.	mg/Kg
4,4'-DDD	<16.	mg/Kg
4,4'-DDE	<16.	mg/Kg
4,4'-DDT	<16.	mg/Kg
Dieldrin	<16.	mg/Kg
Endrin	<16.	mg/Kg
Heptachlor	<16.	mg/Kg
Toxaphene	<40.	mg/Kg
Methoxychlor	<16.	mg/Kg
Malathion	<16.	mg/Kg
ACID COMPOUNDS - 8270		
Pentachlorophenol	16.	mg/Kg
Phenol	<16.	mg/Kg
2,4,6-Trichlorophenol	<16.	mg/Kg
HERBICIDES		
2,4-D	<0.17	mg/Kg
PCB'S - 608		
Aroclor-1016	<7.	mg/Kg
Aroclor-1221	<7.	mg/Kg
Aroclor-1232	<7.	mg/Kg
Aroclor-1242	<7.	mg/Kg
Aroclor-1248	<7.	mg/Kg
Aroclor-1254	<7.	mg/Kg
Aroclor-1260	<7.	mg/Kg
PHOSPHATE ESTERS		
Tricresyl phosphate ester	<70.	mg/Kg

Results on a dry weight basis.

Bruce E. Brown
Project Manager

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Pontiac Division
398 Auburn Avenue
Pontiac, MI 48058
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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek MI 49016

10-18-90

Sample No.: 79612

Sample Description: 09/02-15/90

Quarterly Residual Sample
Belt Filter Press Cake 14 Day Composite

Date Taken: 09-15-90

Date Received: 09-21-90 1030

Parameter	Result	Unit
4,4'-DDT	<27.	mg/Kg
Dieldrin	<27.	mg/Kg
Endrin	<27.	mg/Kg
Heptachlor	<27.	mg/Kg
Malathion	<27.	mg/Kg
Toxaphene	<67.	mg/Kg
Aroclor 1016	<27.	mg/Kg
Aroclor 1221	<27.	mg/Kg
Aroclor 1232	<27.	mg/Kg
Aroclor 1242	<27.	mg/Kg
Aroclor 1248	<27.	mg/Kg
Aroclor 1254	<27.	mg/Kg
Aroclor 1260	<27.	mg/Kg
2,4-D	<0.7	mg/Kg

Results on a dry weight basis.

Bruce E. Brown
Project Manager

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Pontiac Division
398 Auburn Avenue
Pontiac, MI 48058
Tel: (313) 253-0440
Fax: (313) 334-8486

Formerly: Burmah Technical Services, Inc.

ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek MI 49016

08-21-90

Sample No.: 76367

Sample Description: 06/08-22/90

Program: Quarterly Residual Sample
Belt Filter Press Cake 14 Day Composite

Date Taken: 06-22-90

Date Received: 07-13-90 1100

Dieldrin	<63.	mg/Kg
Endrin	<63.	mg/Kg
Heptachlor	<63.	mg/Kg
Malathion	<63.	mg/Kg
Toxaphene	<160.	mg/Kg
Aroclor 1016	<63.	mg/Kg
Aroclor 1221	<63.	mg/Kg
Aroclor 1232	<63.	mg/Kg
Aroclor 1242	<63.	mg/Kg
Aroclor 1248	<63.	mg/Kg
Aroclor 1254	<63.	mg/Kg
Aroclor 1260	<63.	mg/Kg
2,4-D	<670.	mg/Kg

Results on a dry weight basis.

Bruce E. Brown /bb
Bruce E. Brown
Project Manager

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Pontiac Division
398 Auburn Avenue
Pontiac, MI 48058
Tel: (313) 253-0440
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ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek MI 49016

05-04-90

Sample No.: 71628

Sample Description: 03/15-28/90

Program: Quarterly Residual Sample
Belt Filter Press Cake 14 Day Composite

Date Taken: 03-28-90

Date Received: 04-04-90

Dieldrin	<20.	mg/Kg
Endrin	<20.	mg/Kg
Heptachlor	<20.	mg/Kg
Malathion	<20.	mg/Kg
Toxaphene	<20.	mg/Kg
Aroclor 1016	<20.	mg/Kg
Aroclor 1221	<20.	mg/Kg
Aroclor 1232	<20.	mg/Kg
Aroclor 1242	<20.	mg/Kg
Aroclor 1248	<20.	mg/Kg
Aroclor 1254	<20.	mg/Kg
Aroclor 1260	<20.	mg/Kg
2,4-D	<170.	mg/Kg

Results on a dry weight basis.

Christopher P. Jock
Divisional Manager

[redacted]eived: 12/11/90

KEMRON REPORT Work Order # NO-12-101

Results by Sample

SAMPLE ID BCWWTP/ASE FRACTION 02A TEST CODE PCB_W NAME Polychlorinated Biphenyls

Date & Time Collected 12/10/90 11:30:00 Category WATER

ANALYST: DST EXTRACTED: 12/12/90 FILE #: 703

INSTRMT: HP_II INJECTED: 01/02/91 FACTOR: 1 UNITS: ug/L VERIFIED: DMD

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	BDL	0.50
11104-28-2	Aroclor-1221	BDL	0.50
11141-16-5	Aroclor-1232	BDL	0.50
53469-21-9	Aroclor-1242	BDL	0.50
12672-29-6	Aroclor-1248	BDL	0.50
11097-69-1	Aroclor-1254	BDL	1.0
11096-82-5	Aroclor-1260	BDL	1.0

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = DETECTION LIMIT

BDL=BELOW DETECTION LIMIT

NA =NOT ANALYZED

[redacted]ved: 12/11/90

KEMRON REPORT Work Order # N0-12-101

Results by Sample

SAMPLE ID BCWWTP/Influent FRACTION 01A TEST CODE PCB_W NAME Polychlorinated Biphenyls

Date & Time Collected 12/10/90 11:30:00 Category WATER

ANALYST: DST EXTRACTED: 12/12/90 FILE #: 714

INSTRMT: HP_II INJECTED: 01/03/91 FACTOR: 10 UNITS: ug/L VERIFIED: DMD

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	BDL	5.0
11104-28-2	Aroclor-1221	BDL	5.0
11141-16-5	Aroclor-1232	BDL	5.0
53469-21-9	Aroclor-1242	BDL	5.0
12672-29-6	Aroclor-1248	BDL	5.0
11097-69-1	Aroclor-1254	BDL	10
11096-82-5	Aroclor-1260	BDL	10

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = DETECTION LIMIT

BDL=BELOW DETECTION LIMIT

NA =NOT ANALYZED

[redacted] 3 KEMRON REPORT Work Order # N0-09-288

Received: 09/26/90 Results by Sample

SAMPLE ID **BCWWTP-ASE** FRACTION **02A** TEST CODE **PCB_W** NAME **Polychlorinated Biphenyls**

Date & Time Collected **09/24/90 09:30:00** Category **WATER**

ANALYST: SWC EXTRACTED: 09/27/90 FILE #: 1003B23A

INSTRMT: HP_I INJECTED: 10/04/90 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**BDL**	0.065
11104-28-2	Aroclor-1221	**BDL**	0.065
11141-16-5	Aroclor-1232	**BDL**	0.065
53469-21-9	Aroclor-1242	**BDL**	0.065
12672-29-6	Aroclor-1248	**BDL**	0.065
11097-69-1	Aroclor-1254	**BDL**	0.065
11096-82-5	Aroclor-1260	**BDL**	0.065

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = DETECTION LIMIT

BDL=BELOW DETECTION LIMIT

NA =NOT ANALYZED

KEMRON REPORT Work Order # N0-09-288

Received: 09/26/90

Results by Sample

SAMPLE ID **BCWWTP-Influent** FRACTION **01A** TEST CODE **PCB_W** NAME **Polychlorinated Biphenyls**

Date & Time Collected **not specified** Category **WATER**

ANALYST: SWC EXTRACTED: 09/27/90 FILE #: 1003B22A

INSTRMT: HP_I INJECTED: 10/04/90 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**BDL**	0.065
11104-28-2	Aroclor-1221	**BDL**	0.065
11141-16-5	Aroclor-1232	**BDL**	0.065
53469-21-9	Aroclor-1242	**BDL**	0.065
12672-29-6	Aroclor-1248	**BDL**	0.065
11097-69-1	Aroclor-1254	**BDL**	0.065
11096-82-5	Aroclor-1260	**BDL**	0.065

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = DETECTION LIMIT

BDL=BELOW DETECTION LIMIT

NA =NOT ANALYZED

WW ENGINEERING & SCIENCE
ENVIRONMENTAL LABORATORY DIVISION

CLIENT: BATTLE CREEK
PROJECT NO.: 26236
LOCATION: WWTP
SAMPLED BY:
DESCRIPTION: PCB ANALYSIS

DATE SAMPLED: 07/12/90 TIME: 3:20 PM
DATE RECEIVED: 07/13/90 TIME: 10:00 AM
DATE COMPLETED: 07/25/90
SCHEDULED COMPLETION: 07/25/90
ANALYST: SB,LKT
QUALITY CONTROL REVIEW BY: WH
WORKSHEET NO: 1

	INFLUENT	DETECTION LIMIT	UNITS
LAB SAMPLE NO:	44101		
PCB: AROCLOR 1016	<0.20	0.2	ug/l
PCB: AROCLOR 1221	<0.20	0.2	ug/l
PCB: AROCLOR 1232	<0.20	0.2	ug/l
PCB: AROCLOR 1242	<0.20	0.2	ug/l
PCB: AROCLOR 1248	<0.20	0.2	ug/l
PCB: AROCLOR 1254	<0.20	0.2	ug/l
PCB: AROCLOR 1260	<0.20	0.2	ug/l

WW ENGINEERING & SCIENCE
ENVIRONMENTAL LABORATORY DIVISION

CLIENT: BATTLE CREEK
PROJECT NO.: 26236
LOCATION: WWTP
SAMPLED BY:
DESCRIPTION: PCB ANALYSIS

DATE SAMPLED: 07/12/90 TIME: 3:20 PM
DATE RECEIVED: 07/13/90 TIME: 10:00 AM
DATE COMPLETED: 07/25/90
SCHEDULED COMPLETION: 07/25/90
ANALYST: SB,LKT
QUALITY CONTROL REVIEW BY: WH
WORKSHEET NO: 1

	INFLUENT	DETECTION LIMIT	UNITS
LAB SAMPLE NO:	44101		
PCB: AROCLOR 1016	<0.20	0.2	ug/l
PCB: AROCLOR 1221	<0.20	0.2	ug/l
PCB: AROCLOR 1232	<0.20	0.2	ug/l
PCB: AROCLOR 1242	<0.20	0.2	ug/l
PCB: AROCLOR 1248	<0.20	0.2	ug/l
PCB: AROCLOR 1254	<0.20	0.2	ug/l
PCB: AROCLOR 1260	<0.20	0.2	ug/l

5555 GLENWOOD HILLS PARKWAY SE • PO BOX 874 • GRAND RAPIDS, MI 49588-0874 • (616) 942-9600 FX (616) 942-6499

ANALYTICAL SERVICES
PCB's in Water

CLIENT:	Battle Creek WWTP		
PROJECT:	Quarterly	DATE SAMPLED:	06/06/90
ASI REF. NO.:	01537	DATE RECEIVED:	06/07/90
SAMPLED BY:	CK	DATE FINISHED:	06/20/90
DESCRIPTION:	Water Sample	REPORT DATE:	06/20/90
ANALYST:	EE		

SAMPLE I.D. #:	8649
CLIENT I.D. #:	FINAL EFFLUENT

AROCHLOR 1061	ND
AROCHLOR 1221	ND
AROCHLOR 1231	ND
AROCHLOR 1242	ND
AROCHLOR 1248	ND
AROCHLOR 1254	ND
AROCHLOR 1260	ND
AROCHLOR 1262	ND
AROCHLOR 1268	ND
LIMIT OF DETECTION	0.01

ND = Non Detectable

All results are in ug/L

Gerald T. Skar
Laboratory Director

cpr

ANALYTICAL SERVICES

CLIENT:	Battle Creek Wastewater Treatment Plant		
PROJECT:	Quarterly	DATE SAMPLED:	03/14/90
ASI REF. NO.:	00667	DATE RECEIVED:	03/15/90
SAMPLED BY:	Battle Creek WWTP - CK	DATE FINISHED:	04/02/90
DESCRIPTION:	Water Sample	REPORT DATE:	04/02/90
ANALYST:	EE, CC, SW, PC, LX		

PCB IN WATER

ASI SAMPLE I.D.:	5334
CLIENT SAMPLE I.D.:	Quarterly-ASE

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

Detection Limit = 0.01 ug/L

ND = Non Detectable

All results are in ug/L

Robert J Allard Jr (GS)

Robert J. Allard, Jr.
Vice President/Chemist

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Pontiac Division
398 Auburn Avenue
Pontiac, MI 48058
Tel: (313) 253-0440
Fax: (313) 334-8486

Formerly: Burmah Technical Services, Inc.

ANALYTICAL REPORT

C Kosmowski
CITY OF BATTLE CREEK
WSTWTR TRMNT PLANT
2000 W River Road
Battle Creek MI 49016

01-26-90

Sample No.: 67667

Sample Description: 12/08-21/89

Program: Quarterly Analysis - December
Belt Filter Press Cake 14 Day Composite

Date Taken:

Date Received: 01-09-90

Dieldrin	<20	mg/Kg
Endrin	<20	mg/Kg
Heptachlor	<20	mg/Kg
Malathion	<20	mg/Kg
Toxaphene	<50	mg/Kg
Aroclor 1016	<20	mg/Kg
Aroclor 1221	<20	mg/Kg
Aroclor 1232	<20	mg/Kg
Aroclor 1242	<20	mg/Kg
Aroclor 1248	<20	mg/Kg
Aroclor 1254	<20	mg/Kg
Aroclor 1260	<20	mg/Kg
2,4-D	<33	mg/Kg

Results on a dry weight basis.

Christopher P. Jock
Divisional Manager

Burmah

Battle Creek, WWTP
Attn: Christine Kosmowski, Chemist

October 18, 1989

PROGRAM: RESIDUAL SAMPLE

Date Received: 9-21-89
ALD Number: 62759
Client I.D.: Belt Filter
Press Cake
14 Day Composite
9/1-14/89

	As Received	Dry Weight Basis
Organic Compounds, mg/kg		
Pentachlorophenol	<6	<30
Phenanthrene	<6	<30
Phenol	<6	<30
Polychlorinated biphenyls	<6	<30
Tetrachlorodibenzodioxins *	<6	<30
Tetrachlorodibenzofurans	NA	--
Tetrachloroethylene	<1	<5
Toxaphene	<15	<70
Trichloroethylene	<1	<5
2,4,6-Trichlorophenol	<6	<30
Tricresyl phosphate	<6	<30
Vinyl Chloride	<1	<5

NA - not analyzed

* 2,3,7,8-isomer analyzed only

Christopher P. Jack
Laboratory Manager

RS/5L

Burmah

Battle Creek, WWTP
Attn: Christine Kosmowski, Chemist

August 10, 1989

PROGRAM: RESIDUAL SAMPLE

Date Received: 7-11-89

ALD Number: 59204

Client I.D.: Belt Filter Press Cake 14 Day Composite 6/7-21/89

Organic Compounds, mg/kg	As Received	Dry Weight Basis
Pentachlorophenol	<3	<20
Phenathrene	<3	<20
Phenol	<3	<20
Polychlorinated biphenyls	<3	<20
Tetrachlorodibenzodioxins *	<3	<20
Tetrachlorodibenzofurans	NA	--
Tetrachloroethylene	<0.5	<3
Toxaphene	<8	<50
Trichloroethylene	<0.5	<3
2,4,6-Trichlorophenol	<3	<20
Tricresyl phosphate	<3	<20
Vinyl Chloride	<0.5	<3

NA - not analyzed

* 2,3,7,8-isomer analyzed only

LA/4r

Burmah

Battle Creek, WWTP
Attn: Christine Kosmowski, Chemist

June 13, 1989

PROGRAM: RESIDUAL SAMPLE

Date Received: 5-1-89
ALD Number: 55821
Client I.D.: B.F.P. Cake Samples
3/22/89 - 4/4/89
Comp.

Organic Compounds, mg/kg	As Received	Dry Weight Basis
Pentachlorophenol	<5	<33
Phenathrene	<5	<33
Phenol	<5	<33
Polychlorinated biphenyls	<5	<33
Tetrachlorodibenzodioxins *	<5	<33
Tetrachlorodibenzofurans	NA	--
Tetrachloroethylene	<0.5	<3
Toxaphene	<12	<80
Trichloroethylene	<0.5	<3
2,4,6-Trichlorophenol	<5	<33
Tricresyl phosphate	<5	<33
Vinyl Chloride	<0.5	<3

NA - not analyzed

* 2,3,7,8-isomer analyzed only

LA/5r

Burmah

Burmah Technical Services, Inc
Analytical Laboratories Division

408 Auburn Avenue
Pontiac, Michigan 48058

313-334-4747

Battle Creek, WWTP
Attn: Christine Kosmowski, Chemist

March 15, 1989

PROGRAM: RESIDUAL SAMPLE

Date Received: 2-2-89

ALD Number: 51555

Client I.D.: B.F.P. Cake Samples
1/10-24/89 Comp.

Organic Compounds, mg/kg	As Received	Dry Weight Basis
Pentachlorophenol	<6	<43
Phenathrene	<6	<43
Phenol	<6	<43
Polychlorinated biphenyls	<6	<43
Tetrachlorodibenzodioxins *	<6	<43
Tetrachlorodibenzofurans	NA	--
Tetrachloroethylene	<1	<7
Toxaphene	<15	<110
Trichloroethylene	<1	<7
2,4,6-Trichlorophenol	<6	<43
Tricresyl phosphate	<6	<43
Vinyl Chloride	<1	<7

NA - not analyzed

* 2,3,7,8-isomer analyzed only

RS/3r

ANALYTICAL SERVICES

CLIENT:	Battle Creek WWTP		
PROJECT:	Monthly Sampling	DATE SAMPLED:	12/13/89
ASI REF. NO:	93397	DATE RECEIVED:	12/14/89
SAMPLED BY:	Battle Creek WWTP - CK	DATE FINISHED:	01/10/90
DESCRIPTION:	Water Sample	REPORT DATE:	01/10/90
ANALYST:	LBC, MSZ, EE, CC, SW, JPG		

PCB IN WATER

ASI SAMPLE I.D.:	2680	
CLIENT SAMPLE I.D.:	ASE	Limit of Detection
AROCHLOR 1016	ND	0.01 ug/L
AROCHLOR 1221	ND	0.01 ug/L
AROCHLOR 1232	ND	0.01 ug/L
AROCHLOR 1242	ND	0.01 ug/L
AROCHLOR 1248	ND	0.01 ug/L
AROCHLOR 1254	ND	0.01 ug/L
AROCHLOR 1260	ND	0.01 ug/L
AROCHLOR 1262	ND	0.01 ug/L
AROCHLOR 1268	ND	0.01 ug/L

ND = Non Detectable

All results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	Battle Creek WWTP		
PROJECT:	Monthly Sampling	DATE SAMPLED:	12/04/89
ASI REF. NO:	93307	DATE RECEIVED:	12/07/89
SAMPLED BY:	Battle Creek WWTP - CK	DATE FINISHED:	01/10/90
DESCRIPTION:	Water Sample	REPORT DATE:	01/10/90
ANALYST:	LBC, MSZ, EE, CC, SW, JPG		

ASI SAMPLE I.D.:	2336	
CLIENT SAMPLE I.D.:	ASE	Limit of Detection
AROCHLOR 1016	ND	0.01 ug/L
AROCHLOR 1221	ND	0.01 ug/L
AROCHLOR 1232	ND	0.01 ug/L
AROCHLOR 1242	ND	0.01 ug/L
AROCHLOR 1248	ND	0.01 ug/L
AROCHLOR 1254	ND	0.01 ug/L
AROCHLOR 1260	ND	0.01 ug/L
AROCHLOR 1262	ND	0.01 ug/L
AROCHLOR 1268	ND	0.01 ug/L

ND = Non Detectable

All results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	Battle Creek WWTP		
PROJECT:	Monthly Sampling	DATE SAMPLED:	11/15/89
ASI REF. NO:	93157	DATE RECEIVED:	11/21/89
SAMPLED BY:	Battle Creek WWTP	DATE FINISHED:	12/13/89
DESCRIPTION:	Water Sample	REPORT DATE:	12/13/89
ANALYST:	LBC, MSZ, EE, CC, DW, SW, JPG		

PCB IN WATER

ASI SAMPLE I.D.:	1883	
CLIENT SAMPLE I.D.:	ASE	Limit of Detection
AROCHLOR 1016	ND	0.01 ug/L
AROCHLOR 1221	ND	0.01 ug/L
AROCHLOR 1232	ND	0.01 ug/L
AROCHLOR 1242	ND	0.01 ug/L
AROCHLOR 1248	ND	0.01 ug/L
AROCHLOR 1254	ND	0.01 ug/L
AROCHLOR 1260	ND	0.01 ug/L
AROCHLOR 1262	ND	0.01 ug/L
AROCHLOR 1268	ND	0.01 ug/L

ND = Non Detectable

All above results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	Battle Creek WWTP		
PROJECT:	Monthly Sampling	DATE SAMPLED:	11/01/89
ASI REF. NO:	92949	DATE RECEIVED:	11/02/89
SAMPLED BY:	Battle Creek WWTP	DATE FINISHED:	11/30/89
DESCRIPTION:	Water Sample	REPORT DATE:	12/04/89
ANALYST:	MSZ, EE, CC, DW, SW		

PCB IN WATER

ASI SAMPLE I.D.:	1082	
CLIENT SAMPLE I.D.:	ASE	Limit of Detection
AROCHLOR 1016	ND	0.01 ug/L
AROCHLOR 1221	ND	0.01 ug/L
AROCHLOR 1232	ND	0.01 ug/L
AROCHLOR 1242	ND	0.01 ug/L
AROCHLOR 1248	ND	0.01 ug/L
AROCHLOR 1254	ND	0.01 ug/L
AROCHLOR 1260	ND	0.01 ug/L
AROCHLOR 1262	ND	0.01 ug/L
AROCHLOR 1268	ND	0.01 ug/L

ND = Non Detectable

All above results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	Battle Creek WWTP		
PROJECT:	Monthly Sampling	DATE SAMPLED:	10/30/89
ASI REF. NO:	92906	DATE RECEIVED:	10/31/89
SAMPLED BY:	Battle Creek WWTP	DATE FINISHED:	11/09/89
DESCRIPTION:	Water Sample	REPORT DATE:	11/09/89
ANALYST:	LBC, MSZ, EE, CC, DW, SW, JCP		

PCB IN WATER

ASI SAMPLE I.D.:	0930	
CLIENT SAMPLE I.D.:	ASE	Limit of Detection
AROCHLOR 1016	ND	0.01 ug/L
AROCHLOR 1221	ND	0.01 ug/L
AROCHLOR 1232	ND	0.01 ug/L
AROCHLOR 1242	ND	0.01 ug/L
AROCHLOR 1248	ND	0.01 ug/L
AROCHLOR 1254	ND	0.01 ug/L
AROCHLOR 1260	ND	0.01 ug/L
AROCHLOR 1262	ND	0.01 ug/L
AROCHLOR 1268	ND	0.01 ug/L

ND = Non Detectable

All above results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	Battle Creek WWTP		
PROJECT:	Monthly Sampling	DATE SAMPLED:	10/05/89
ASI REF. NO:	92606	DATE RECEIVED:	10/06/89
SAMPLED BY:	Battle Creek WWTP	DATE FINISHED:	11/09/89
DESCRIPTION:	Water Sample	REPORT DATE:	11/10/89
ANALYST:	LBC, MSZ, EE, CC, DW, SW, JPG		

PCB IN WATER

ASI SAMPLE I.D.:	9344	
CLIENT SAMPLE I.D.:	ASE	Limit of Detection
AROCHLOR 1016	ND	0.01 ug/L
AROCHLOR 1221	ND	0.01 ug/L
AROCHLOR 1232	ND	0.01 ug/L
AROCHLOR 1242	ND	0.01 ug/L
AROCHLOR 1248	ND	0.01 ug/L
AROCHLOR 1254	ND	0.01 ug/L
AROCHLOR 1260	ND	0.01 ug/L
AROCHLOR 1262	ND	0.01 ug/L
AROCHLOR 1268	ND	0.01 ug/L

ND = Non Detectable

All above results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	Battle Creek WWTP		
PROJECT:	Monthly Sampling	DATE SAMPLED:	09/19/89
ASI REF. NO.:	92455	DATE RECEIVED:	09/21/89
SAMPLED BY:	Battle Creek WWTP - CK	DATE FINISHED:	10/24/89
DESCRIPTION:	Water Sample	REPORT DATE:	10/25/89
ANALYST:	LBC, MSZ, EE		

PCB IN WATER

ASI SAMPLE I.D.:	8515	
CLIENT SAMPLE I.D.:	Water Sample	Limit of Detection
AROCHLOR 1016	ND	0.01 ug/L
AROCHLOR 1221	ND	0.01 ug/L
AROCHLOR 1232	ND	0.01 ug/L
AROCHLOR 1242	ND	0.01 ug/L
AROCHLOR 1248	ND	0.01 ug/L
AROCHLOR 1254	ND	0.01 ug/L
AROCHLOR 1260	ND	0.01 ug/L
AROCHLOR 1262	ND	0.01 ug/L
AROCHLOR 1268	ND	0.01 ug/L

ND = Non Detectable

All above results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	Battle Creek WWTP		
PROJECT:	Quarterly Sampling	DATE SAMPLED:	09/07/89
ASI REF. NO.:	92322	DATE RECEIVED:	09/11/89
SAMPLED BY:	Battle Creek WWTP - CK	DATE FINISHED:	10/02/89
DESCRIPTION:	Water Sample	REPORT DATE:	10/03/89
ANALYST:	LBC, MSZ, EE		

ASI SAMPLE I.D.:	8069	Limit of
CLIENT SAMPLE I.D.:	Battle Creek WWTP	Detection
AROCHLOR 1016	ND	0.50 ug/L
AROCHLOR 1221	ND	0.50 ug/L
AROCHLOR 1232	ND	0.50 ug/L
AROCHLOR 1242	ND	0.50 ug/L
AROCHLOR 1248	ND	0.50 ug/L
AROCHLOR 1254	ND	0.50 ug/L
AROCHLOR 1260	ND	0.50 ug/L
AROCHLOR 1262	ND	0.50 ug/L
AROCHLOR 1268	ND	0.50 ug/L

ND = Non Detectable

All results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	Battle Creek WWTP		
PROJECT:	Monthly Sampling	DATE SAMPLED:	08/14/89
ASI REF. NO.:	92102	DATE RECEIVED:	08/16/89
SAMPLED BY:	Battle Creek WWTP - CK	DATE FINISHED:	09/01/89
DESCRIPTION:	Water Sample	REPORT DATE:	09/01/89
ANALYST:	LBC, MSZ, EE		

ASI SAMPLE I.D.:	7290	
CLIENT SAMPLE I.D.:	ASE	Limit of Detection
AROCHLOR 1016	ND	0.50 ug/L
AROCHLOR 1221	ND	0.50 ug/L
AROCHLOR 1232	ND	0.50 ug/L
AROCHLOR 1242	ND	0.50 ug/L
AROCHLOR 1248	ND	0.50 ug/L
AROCHLOR 1254	ND	0.50 ug/L
AROCHLOR 1260	ND	0.50 ug/L
AROCHLOR 1262	ND	0.50 ug/L
AROCHLOR 1268	ND	0.50 ug/L

ND = Non Detectable

All above results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	Battle Creek WWTP		
PROJECT:	Monthly Sampling	DATE SAMPLED:	08/01/89
ASI REF. NO.:	91956	DATE RECEIVED:	08/02/89
SAMPLED BY:	Battle Creek WWTP - CK	DATE FINISHED:	08/31/89
DESCRIPTION:	Water Sample	REPORT DATE:	08/31/89
ANALYST:	LBC, MSZ, EE		

ASI SAMPLE I.D.:	6749	
CLIENT SAMPLE I.D.:	Water Sample	Limit of Detection

AROCHLOR 1016	ND	0.01 ug/L
AROCHLOR 1221	ND	0.01 ug/L
AROCHLOR 1232	ND	0.01 ug/L
AROCHLOR 1242	ND	0.01 ug/L
AROCHLOR 1248	ND	0.01 ug/L
AROCHLOR 1254	ND	0.01 ug/L
AROCHLOR 1260	ND	0.01 ug/L
AROCHLOR 1262	ND	0.01 ug/L
AROCHLOR 1268	ND	0.01 ug/L

ND = Non Detectable

All above results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	Battle Creek WWTP		
PROJECT:	Monthly Sampling	DATE SAMPLED:	07/17/89
ASI REF. NO.:	91795	DATE RECEIVED:	07/18/89
SAMPLED BY:	Battle Creek WWTP - CK	DATE FINISHED:	08/15/89
DESCRIPTION:	Water Sample	REPORT DATE:	08/15/89
ANALYST:	LBC, MSZ, EE		

ASI SAMPLE I.D.:	6107	
CLIENT SAMPLE I.D.:	Water Sample	Limit of Detection
AROCHLOR 1016	ND	0.01 ug/L
AROCHLOR 1221	ND	0.01 ug/L
AROCHLOR 1232	ND	0.01 ug/L
AROCHLOR 1242	ND	0.01 ug/L
AROCHLOR 1248	ND	0.01 ug/L
AROCHLOR 1254	ND	0.01 ug/L
AROCHLOR 1260	ND	0.01 ug/L
AROCHLOR 1262	ND	0.01 ug/L
AROCHLOR 1268	ND	0.01 ug/L

ND = Non Detectable

All above results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	Battle Creek WWTP		
PROJECT:	Monthly Sampling	DATE SAMPLED:	07/10/89
ASI REF. NO.:	91720	DATE RECEIVED:	07/11/89
SAMPLED BY:	Battle Creek WWTP - CK	DATE FINISHED:	08/15/89
DESCRIPTION:	Water Sample	REPORT DATE:	08/15/89
ANALYST:	LBC, MSZ, EE		

PCB IN WATER

ASI SAMPLE I.D.:	5900	
CLIENT SAMPLE I.D.:	Water Sample	Limit of Detection
AROCHLOR 1016	ND	0.01 ug/L
AROCHLOR 1221	ND	0.01 ug/L
AROCHLOR 1232	ND	0.01 ug/L
AROCHLOR 1242	ND	0.01 ug/L
AROCHLOR 1248	ND	0.01 ug/L
AROCHLOR 1254	ND	0.01 ug/L
AROCHLOR 1260	ND	0.01 ug/L
AROCHLOR 1262	ND	0.01 ug/L
AROCHLOR 1268	ND	0.01 ug/L

ND = Non Detectable

All above results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek Wastewater Treatment Plant		
PROJECT:	Water Analysis	DATE SAMPLED:	06/15/89
ASI REF. NO.:	91560	DATE RECEIVED:	06/21/89
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	07/20/89
DESCRIPTION:	Water Sample	REPORT DATE:	08/01/89
ANALYST:	EE, CC, SW		

ASI SAMPLE I.D.:	5190
CLIENT SAMPLE I.D.:	Water Sample

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

ND = Non Detectable Datection Limit = 0.01 ug/L

All results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ASI

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek Wastewater Treatment Plant		
PROJECT:	Quarterly Analysis	DATE SAMPLED:	06/07/89
ASI REF. NO.:	91455	DATE RECEIVED:	06/13/89
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	08/09/89
DESCRIPTION:	Water Sample	REPORT DATE:	08/09/89
ANALYST:	EE, CC, SW, DW		

ASI SAMPLE I.D.:	4897
CLIENT SAMPLE I.D.:	Water Sample

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

ND = Non Detectable Datection Limit = 0.01 ug/L

All results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek Wastewater Treatment Plant		
PROJECT:	Water Analysis	DATE SAMPLED:	05/22/89
ASI REF. NO.:	91252	DATE RECEIVED:	05/23/89
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	06/09/89
DESCRIPTION:	Water Sample	REPORT DATE:	06/09/89
ANALYST:	EE, CC, SW		

PCB IN WATER

ASI SAMPLE I.D.:	4266
CLIENT SAMPLE I.D.:	ASE

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

ND = Non Detectable Datection Limit = 0.01 ug/L

All results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek Wastewater Treatment Plant		
PROJECT:	Water Analysis	DATE SAMPLED:	05/15/89
ASI REF. NO.:	91182	DATE RECEIVED:	05/16/89
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	06/07/89
DESCRIPTION:	Water Sample	REPORT DATE:	06/09/89
ANALYST:	EE, CC, SW		

PCB IN WATER

ASI SAMPLE I.D.:	4059
CLIENT SAMPLE I.D.:	ASE

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

ND = Non Detectable Datection Limit = 0.01 ug/L

All results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek Wastewater Treatment Plant		
PROJECT:	Water Analysis	DATE SAMPLED:	05/04/89
ASI REF. NO.:	91074	DATE RECEIVED:	05/05/89
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	06/09/89
DESCRIPTION:	Water Sample	REPORT DATE:	06/09/89
ANALYST:	EE, CC, SW		

PCB IN WATER

ASI SAMPLE I.D.:	3679
CLIENT SAMPLE I.D.:	Water Sample

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

Results invalid - holding time exceeded due to sample mix up w/ UPS.

ND = Non Detectable Datection Limit = 0.01 ug/L

All results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ASI

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek Wastewater Treatment Plant		
PROJECT:	Monthly	DATE SAMPLED:	04/12/89
ASI REF. NO.:	90845	DATE RECEIVED:	04/14/89
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	05/09/89
DESCRIPTION:	Water Sample	REPORT DATE:	05/25/89
ANALYST:	EE, SW, CC		

ASI SAMPLE I.D.:	2872
CLIENT SAMPLE I.D.:	ASE

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

ND = Non Detectable Detection Limit = 0.1 ug/L

All results are in ug/L.

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek Wastewater Treatment Plant		
PROJECT:	Water Analysis	DATE SAMPLED:	03/17/89
ASI REF. NO.:	90608	DATE RECEIVED:	03/20/89
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	04/12/89
DESCRIPTION:	Water Sample	REPORT DATE:	04/17/89
ANALYST:	EE, CC, SW		

ASI SAMPLE I.D.:	2125
CLIENT SAMPLE I.D.:	Water Sample

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

ND = Non Detectable Datection Limit = 0.01 ug/L

All results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek Wastewater Treatment Plant		
PROJECT:	Water Analysis	DATE SAMPLED:	03/10/89
ASI REF. NO.:	90552	DATE RECEIVED:	03/13/89
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	04/03/89
DESCRIPTION:	Water Sample	REPORT DATE:	04/05/89
ANALYST:	EE, CC, SW		

ASI SAMPLE I.D.:	1946
CLIENT SAMPLE I.D.:	Water Sample

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

ND = Non Detectable Datection Limit = 0.01 ug/L

All results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek Wastewater Treatment Plant		
PROJECT:	ASE	DATE SAMPLED:	02/21/89
ASI REF. NO.:	90398	DATE RECEIVED:	02/22/89
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	03/06/89
DESCRIPTION:	Water Sample	REPORT DATE:	03/09/89
ANALYST:	EE, PC, CC		

ASI SAMPLE I.D.:	1375
CLIENT SAMPLE I.D.:	ASE

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

ND = Non Detectable Datection Limit = 0.01 ug/L

All results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek Wastewater Treatment Plant		
PROJECT:	Monthly Monitoring	DATE SAMPLED:	02/08/89
ASI REF. NO.:	90309	DATE RECEIVED:	02/09/89
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	03/09/89
DESCRIPTION:	Water Sample	REPORT DATE:	03/09/89
ANALYST:	EE, PC, CC		

ASI SAMPLE I.D.:	1139
CLIENT SAMPLE I.D.:	Effluent

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

ND = Non Detectable Datection Limit = 0.01 ug/L

All results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek Wastewater Treatment Plant		
PROJECT:	Monthly	DATE SAMPLED:	01/23/89
ASI REF. NO.:	90173	DATE RECEIVED:	01/24/89
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	02/06/89
DESCRIPTION:	Water Sample	REPORT DATE:	02/07/89
ANALYST:	FJS, CC		

ASI SAMPLE I.D.:	0613
CLIENT SAMPLE I.D.:	Wastewater Sample

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

ND = Non Detectable Detection Limit = 0.01 ug/L

All results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek Wastewater Treatment Plant		
PROJECT:	Monthly	DATE SAMPLED:	01/06/89
ASI REF. NO.:	90047	DATE RECEIVED:	01/09/89
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	02/02/89
DESCRIPTION:	Water Sample	REPORT DATE:	02/07/89
ANALYST:	FJS, CC		

ASI SAMPLE I.D.:	0197
CLIENT SAMPLE I.D.:	Wastewater Sample

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

ND = Non Detectable Detection Limit = 0.01 ug/L

All results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

Analytical Services EDI Laboratory Report

for the

City of Battle Creek Wastewater Treatment Plant

Influent Characterization	Sample Date and Type			Detection Limit (ug/l)
	9/11/85 (Grab) Influent	9/13/85 (Grab) Influent	9/15/85 (Grab) Influent	
PCB: Aroclor 1016	<4.0	<8.0	<2.0	—
PCB: Aroclor 1221	<4.0	<8.0	<2.0	—
PCB: Aroclor 1232	<4.0	<8.0	<2.0	—
PCB: Aroclor 1242	<4.0	<8.0	<2.0	—
PCB: Aroclor 1248	<4.0	<8.0	<2.0	—
PCB: Aroclor 1254	<2.0	<8.0	<2.0	—
PCB: Aroclor 1260	<2.0	<8.0	<2.0	—

ANALYTICAL SERVICES
EDI LABORATORY REPORT

CLIENT: CITY OF BATTLE CREEK
PROJECT NO.: 25552
LOCATION: WWTP
SAMPLED BY: MIKE ANDREWS
DESCRIPTION: WASTEWATER MONITORING

DATE SAMPLED: 05/07/86 TIME: AM
DATE RECEIVED: 05/09/86 TIME: 12:00 PM
DATE COMPLETED: 05/30/86
SCHEDULED COMPLETION: 5/30/86
ANALYST: PCC,PT,MB,CS
QUALITY CONTROL REVIEW BY: SJL,DEK
WORKSHEET NO: 3

	INFLUENT	EFFLUENT	DETECTION LIMIT	UNITS
EDI SAMPLE NO:	62415	62416		
PCB: AROCLOR 1016	<0.010	<0.0008	0.0001	mg/l
PCB: AROCLOR 1221	<0.010	<0.0004	0.0001	mg/l
PCB: AROCLOR 1232	<0.010	<0.0008	0.0001	mg/l
PCB: AROCLOR 1242	<0.004	<0.0008	0.0001	mg/l
PCB: AROCLOR 1248	<0.004	<0.0008	0.0001	mg/l
PCB: AROCLOR 1254	<0.0008	<0.0004	0.0001	mg/l
PCB: AROCLOR 1260	<0.0008	<0.0004	0.0001	mg/l

ANALYSIS BY STANDARD METHODS 16TH EDITION AND/OR METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES, USEPA, 1983.

ANALYTICAL SERVICES
EDI LABORATORY REPORT

CLIENT: CITY OF BATTLE CREEK
PROJECT NO.: 25552
LOCATION: BATTLE CREEK, MI. WWTP
SAMPLED BY: MIKE ANDREWS
DESCRIPTION: WASTEWATER MONITORING

DATE SAMPLED: 05/21/86 TIME: 9:00 AM
DATE RECEIVED: 05/21/86 TIME: 1:30 PM
DATE COMPLETED: 06/09/86
SCHEDULED COMPLETION: 6/11/86
ANALYST: MB,CS,PCC,PT
QUALITY CONTROL REVIEW BY: SJL
WORKSHEET NO: 5

	INFLUENT	EFFLUENT	DETECTION LIMIT	UNITS
EDI SAMPLE NO:	62741	62742		
PCB: AROCLOR 1016	<0.002	<0.0008	0.0008	mg/l
PCB: AROCLOR 1221	<0.004	<0.0008	0.0008	mg/l
PCB: AROCLOR 1232	<0.004	<0.0008	0.0008	mg/l
PCB: AROCLOR 1242	<0.002	<0.0008	0.0008	mg/l
PCB: AROCLOR 1248	<0.002	<0.0008	0.0008	mg/l
PCB: AROCLOR 1254	<0.0008	<0.0004	0.0004	mg/l
PCB: AROCLOR 1260	<0.0008	<0.0004	0.0004	mg/l

ANALYSIS BY "METHODS FOR ORGANIC CHEMICAL ANALYSIS OF MUNICIPAL AND INDUSTRIAL WASTEWATER", USEPA-600/4-82-057.

ANALYTICAL SERVICES
EDI LABORATORY REPORT

CLIENT: CITY OF BATTLE CREEK
PROJECT NO.: 25552
LOCATION: BATTLE CREEK, MI
SAMPLED BY: MIKE ANDREWS
DESCRIPTION: WASTEWATER MONITORING

DATE SAMPLED: 05/27/86 TIME: 8:30 AM
DATE RECEIVED: 05/28/86 TIME: 2:30 PM
DATE COMPLETED: 06/17/86
SCHEDULED COMPLETION: 061886
ANALYST: MB,PCC,CS
QUALITY CONTROL REVIEW BY: DEK
WORKSHEET NO: 31

	INFLUENT	EFFLUENT	DETECTION LIMIT	UNITS
EDI SAMPLE NO:	62895	62896		
PCB: AROCLOR 1016	<0.002	<0.002		mg/l
PCB: AROCLOR 1221	<0.002	<0.002		mg/l
PCB: AROCLOR 1232	<0.004	<0.004		mg/l
PCB: AROCLOR 1248	<0.002	<0.002		mg/l
PCB: AROCLOR 1254	<0.002	<0.002		mg/l
PCB: AROCLOR 1260	<0.002	<0.002		mg/l

RECEIVED
JUL 24 1986
WASTEWATER
TREATMENT PLANT

ANALYSIS BY STANDARD METHODS 16TH EDITION AND/OR METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES, USEPA, 1983.

ANALYTICAL SERVICES
EDI LABORATORY REPORT

CLIENT: CITY OF BATTLE CREEK
PROJECT NO.: 25552
LOCATION: BATTLE CREEK, MI
SAMPLED BY: MIKE ANDREWS
DESCRIPTION: WASTEWATER MONITORING

DATE SAMPLED: 05/28/86 TIME: 9:00 AM
DATE RECEIVED: 05/28/86 TIME: 2:30 PM
DATE COMPLETED: 06/17/86
SCHEDULED COMPLETION: 061886
ANALYST: MB,PCC,CS
QUALITY CONTROL REVIEW BY: DEK
WORKSHEET NO: 33

	INFLUENT	EFFLUENT	DETECTION LIMIT	UNITS
EDI SAMPLE NO:	62897	62899		
PCB: AROCLOR 1016	<0.001	<0.001		mg/l
PCB: AROCLOR 1221	<0.002	<0.002		mg/l
PCB: AROCLOR 1232	<0.002	<0.002		mg/l
PCB: AROCLOR 1242	<0.001	<0.001		mg/l
PCB: AROCLOR 1248	<0.001	<0.001		mg/l
PCB: AROCLOR 1254	<0.001	<0.001		mg/l
PCB: AROCLOR 1260	<0.001	<0.001		mg/l

RECEIVED
JUL 24 1986
WASTEWATER
TREATMENT PLANT

ANALYSIS BY STANDARD METHODS 16TH EDITION AND/OR METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES, USEPA, 1983.

SEG LABORATORIES, INC.

November 11, 1986

Battle Creek Wastewater
Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christina Kosmowski

Analytical results for a wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received on October 13, 1986.

PO#: 3320

SEG Number:	65644
Tag:	10/12/86
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen
Michael G. Goergen

MGG/mdw

SEG LABORATORIES, INC.

December 3, 1986

RECEIVED

DEC 08 1986

WASTEWATER
TREATMENT PLANT

Battle Creek Wastewater
Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for wastewater samples submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received by SEG Laboratories, Inc. on November 5 and 18, 1986.

PO#: 3320/4606

SEG Number:	66026	66350
Tag:	City of Battle Creek	No Tag
Carbon Tetrachloride ug/L	<0.12	<0.12
2-Chlorophenol ug/L	<0.31	<0.31
2,4-Dichlorophenol ug/L	<0.39	<0.39
2,4,6-Trichlorophenol ug/L	<0.64	<0.64
Total PCB ug/L	<0.5	<0.5
Benzidine ug/L	<0.08	<0.08

Approved by Michael G. Goergen

Michael G. Goergen

MGG/brs

SEG LABORATORIES, INC.

December 22, 1986

Battle Creek Wastewater
Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for wastewater samples submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received by SEG Laboratories, Inc. on December 4, 1986.

PO#: 3320/4606

SEG Number:	66590
Tag:	City of Battle Creek
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen (MS)
Michael G. Goergen

MGG/bld

SEG LABORATORIES, INC.

January 7, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received by SEG Laboratories, Inc., on December 16, 1986.

PO#: 3320/4606

SEG Number:	66739
Tag:	No Tag
Carbon Tetrachloride ug/L	<0.12
Benzene ug/L	<0.20
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen (MS)
Michael G. Goergen

MGG/bld

SAMPLES RECEIVED 12/24/87

LAB#	7120759
UNITS	mg/kg DRY
Arsenic, Total	1.5
Barium, Total	190
Beryllium, Total	< 2.6
Cobalt, Total	< 2.6
Iron, Total	8300
Lithium, Total	< 0.05
Manganese, Total	250
Mercury, Total	0.52
Molybdenum, Total	< 26
Selenium, Total	< 0.13
Silver, Total	26
Sodium, Total	1100
Thallium, Total	< 26
Titanium, Total	93
Polybrominated Biphenyls	< 1
PCB, Total	< 1
Total Solids, %	19.3

ENT'D MAR 10 1988

REC'D JAN 20 1988

CAL

SEG LABORATORIES, INC.

Janaury 23, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received by SEG Laboratories, Inc., on January 7, 1987.

PO#: 4177/4606

SEG Number:	66962
Tag:	No Tag 1-6-87
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen M.S.
Michael G. Goergen

MGG/bld

SEG LABORATORIES, INC.

February 6, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received by SEG Laboratories, Inc., on January 26, 1987.

PO#: 4177/4606

SEG Number:	67565
Tag:	Battle Creek WWTP Grab 01/23/87
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G Goergen(MS)
Michael G. Goergen

Mgg/bld

RECEIVED
FEB 09 1987
WASTEWATER
TREATMENT PLANT

SEG LABORATORIES, INC.

Feburary 6, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received by SEG Laboratories, Inc., on February 3, 1987.

PO#: 4177/4606

SEG Number:	68008
Tag:	Battle Creek WWTP 02/02/87
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen(ms)
Michael G. Goergen

MGG/bld

RECEIVED
FEB 09 1987
WASTEWATER
TREATMENT PLANT

1120 May Street, Lansing, Michigan 48906 • (517) 374-6800 • CABLE "SNELL" • TELEX 229458
A Snell Environmental Group Company

SEG LABORATORIES, INC.

March 6, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for a wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received by SEG Laboratories, Inc., on February 23, 1987.

PO#: 4177/4606

SEG Number:	68713
Tag:	WWTP Grab 02/20/87
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

RECEIVED
MAR 09 1987
WASTEWATER
TREATMENT PLANT

Approved by Michael G. Goergen (V.F.M.)
Michael G. Goergen

MGG?bld

1120 May Street, Lansing, Michigan 48906 • (517) 374-6800 • CABLE "SNELL" • TELEX 229458

SEG LABORATORIES, INC. April 1, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for a wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received by SEG Laboratories, Inc., on March 5, 1987.

PO#: 4177/4606

SEG Number:	68850
Tag:	WWTP Grab 03/04/87
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G Goergen (V.P. m)
Michael G. Goergen

MGG/bld

SEG LABORATORIES, INC. April 1, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for a wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received by SEG Laboratories, Inc., on March 17, 1987.

PO#: 4177/4606

SEG Number:	69077
Tag:	WWTP 03/16/87
Carbon Tetrachloride ug/L	<0.12
Benzene ug/L	<0.20
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	0.84

Approved by Michael G. Goergen (V.F.m)
Michael G. Goergen

MGG/bld

SEG LABORATORIES, INC.

May 4, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for a wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, MI, received by SEG Laboratories, Inc., on April 6, 1987

PO#: 4177/4606

SEG Number:	69376
Tag:	WWTP 04/03/87
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen (V.F.M.)
Michael G. Goergen

MGG/bld

SEG LABORATORIES, INC.

May 4, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for a wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, MI, received by SEG Laboratories, Inc., on April 17, 1987.

PO#: 4177/4606

SEG Number:	69561
Tag:	WWTP 04/16/87
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen (V.F.m

Michael G. Goergen

MGG/bld

1120 May Street, Lansing, Michigan 48906 • (517) 374-6800 • CABLE "SNELL" • TELEX 229458

SEG LABORATORIES, INC.

June 3, 1987

Battle Creek Wastewater Treatment Plant
2000 West Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for a wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, MI received by SEG Laboratories, Inc., on May 8, 1987.

PO#: 4177/4606

SEG Number:	69853
Tag:	Battle Creek WWTP 05/07/87
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen (V.F.M.)
Michael G. Goergen

MGG/bld

SEG LABORATORIES, INC.

June 10, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for a wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, MI received by SEG Laboratories, Inc., on May 22, 1987.

PO#: 4177/4606

SEG Number:	70095
Tag:	WWTP 05/21/87
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen (V.F.m)
Michael G. Goergen

MGG/bld

SEG LABORATORIES, INC.

July 7, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for a wastewater sample submitted by Battle Creek Watewater Treatment Plant, Battle Creek, MI, received by SEG Laboratories, Inc., on June 4, 1987.

PO#: 4177/4606

SEG Number:	70276
Tag:	BCWWTP 06/02/87
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen (M.G.G.)
Michael G. Goergen

MGG/bld

SEG LABORATORIES, INC.

July 7, 1987

Battle Creek Wastewater Treatment Plant
2000 W. River Road
Battle Creek, MI 49017

Attn: Chris Kosmowski

Analytical results for a wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, MI, recieved by SEG Laboratories, Inc., on June 18, 1987.

PO#: 4177/4606

SEG Number:	70552
Tag:	Battle Creek WWTP 06/17/87
Carbon Tetrachloride ug/L	<0.12
Benzene ug/L	<0.20
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen (V.O.m)

MGG/bld

Michael G. Goergen

CITY OF BATTLE CREEK

SAMPLES RECEIVED 07/10/87 PAGE 1

LAB# 7070309 FINAL EFFLUENT 7/9/87

[illegible]	7070309
UNITS	ug/l
[illegible]	[illegible]
2-Chlorophenol	< 2.0
2,4-Dichlorophenol	< 2.0
2,4,6-Trichlorophenol	< 0.54
Benzo (a) Anthracene	< 1
Benzidine	<2
PCB - Total	< 0.5

CAL

CITY OF BATTLE CREEK

SAMPLES RECEIVED 07/20/87

LAB# 7070569 FINAL EFFLUENT 7/17/87

LAB# UNITS	7070569 ug/L
2-Chlorophenol	< 0.30
2,4-Dichlorophenol	< 0.39
2,4,6-Trichlorophenol	< 0.64
Carbon Tetrachloride	< 1
Benzidine	9
PCB, Total	< 0.5

CAL

CITY OF BATTLE CREEK

SAMPLES RECEIVED 08/06/87

LAB# 7080189 EFFLUENT SAMPLE 8/5/87

LAB#	7080189
UNITS	ug/l
2-Chlorophenol	< 0.3
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 0.6
Carbon Tetrachloride	< 0.5
PCB, Total	< 0.5
Benzidine	< 1.0

CAL

CITY OF BATTLE CREEK

SAMPLES RECEIVED 08/19/87 PAGE 1

LAB# 7080700 EFFLUENT SAMPLE 8/18/87

LAB#	7080700
UNITS	ug/l
2-Chlorophenol	< 0.3
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 0.6
Carbon Tetrachloride	< 0.5
Benzidine	< 1.0
PCB, Total	< 0.5

CAL

CITY OF BATTLE CREEK

SAMPLES RECEIVED 09/02/87

LAB# 7090078 EFFLUENT 9/1/87

LAB#	7090078
UNITS	ug/l
2-Chlorophenol	< 0.3
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 0.6
Benzidine	< 1.0
PCB, Total	< 0.5
Carbon Tetrachloride	< 0.5

CAL

BATTLE CREEK WWTP

SAMPLES RECEIVED 09/15/87 PAGE 1

LAB# 7090409 FINAL EFFLUENT

LAB#	7090409
UNITS	ug/L
2-Chlorophenol	< 0.2
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 0.6
Carbon Tetrachloride	< 0.5
PCB, Total	< 0.5
Benzene	< 0.2
Benzidine	< 1.0

CAL

CITY OF BATTLE CREEK

SAMPLES RECEIVED 10/07/87

LAB# 7100251 EFFLUENT

LAB#	7100251
UNITS	ug/l
2-Chlorophenol	< 0.3
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 0.6
Carbon Tetrachloride	< 1.0
Benzidine	< 1.0
PCB, Total	< 0.5

CAL

CITY OF BATTLE CREEK

SAMPLES RECEIVED 10/23/87 PAGE 1

LAB# 7100839 EFFLUENT 10/22/87

LAB#	7100839
UNITS	ug/l
2-Chlorophenol	< 0.3
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 0.6
Carbon Tetrachloride	< 0.5
Benzidine	< 1
PCB, Total	< 0.5

CAL

CITY OF BATTLE CREEK

SAMPLES RECEIVED 11/30/87

LAB# 7110916 FINAL EFFLUENT 11/25/87

LAB#	7110916
UNITS	ug/l
2-Chlorophenol	< 0.3
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 0.6
Carbon Tetrachloride	< 1
Benzidine	< 1
PCB, Total	< 0.5

CAL

CITY OF BATTLE CREEK

SAMPLES RECEIVED 12/17/87 PAGE 1

LAB# 7120448 EFFLUENT 12/15/87

LAB#	7120448
UNITS	ug/l
2-Chlorophenol	< 0.3
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 0.6
Carbon Tetrachloride	< 1
Benzidine	< 1
PCB, Total	< 0.5
Benzene	< 0.2

CAL

CITY OF BATTLE CREEK

SAMPLES RECEIVED 12/24/87 PAGE 1

LAB# 7120760 EFFLUENT 12/23/87

LAB#	7120760
UNITS	ug/l
o-Chlorophenol	< 0.3
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 0.6
Carbon Tetrachloride	< 1
Benzidine	< 1
PCB, Total	< 0.5

CAL

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek Wastewater Treatment Plant		
PROJECT:	Monthly	DATE SAMPLED:	12/14/88
ASI REF. NO.:	82554	DATE RECEIVED:	12/15/88
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	01/05/89
DESCRIPTION:	Water Sample	REPORT DATE:	01/05/89
ANALYST:	FJS, CC, PC		

ASI SAMPLE I.D.:	9650
CLIENT SAMPLE I.D.:	Wastewater Sample

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

ND = Non Detectable Detection Limit = 0.01 ug/L

All results are in ug/L

Robert Allard Jr. RA

Robert Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek Wastewater Treatment Plant		
PROJECT:	Quarterly	DATE SAMPLED:	12/07/88
ASI REF. NO.:	82505	DATE RECEIVED:	12/08/88
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	01/05/89
DESCRIPTION:	Water Sample	REPORT DATE:	01/05/89
ANALYST:	FJS, CC, PC		

ASI SAMPLE I.D.:	9502
CLIENT SAMPLE I.D.:	Wastewater Sample

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

ND = Non Detectable Detection Limit = 0.01 ug/L

All results are in ug/L

Robert Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek Wastewater Treatment Plant		
PROJECT:	Monthly	DATE SAMPLED:	11/29/88
ASI REF. NO.:	82434	DATE RECEIVED:	11/30/88
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	12/10/88
DESCRIPTION:	Water Sample	REPORT DATE:	12/12/88
ANALYST:	FJS, CC		

ASI SAMPLE I.D.:	9244
CLIENT SAMPLE I.D.:	Wastewater Sample

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

ND = Non Detectable Detection Limit = 0.01 ug/L

All results are in ug/L

Robert Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek Wastewater Treatment Plant		
PROJECT:	Monthly	DATE SAMPLED:	11/07/88
ASI REF. NO.:	82281	DATE RECEIVED:	11/09/88
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	12/08/88
DESCRIPTION:	Water Sample	REPORT DATE:	12/08/88
ANALYST:	FJS, CC		

ASI SAMPLE I.D.:	8508
CLIENT SAMPLE I.D.:	Wastewater Sample

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

ND = Non Detectable Detection Limit = 0.01 ug/L

All results are in ug/L

Robert Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek Wastewater Treatment Plant		
PROJECT:	Effluent Sample	DATE SAMPLED:	10/19/88
ASI REF. NO.:	82133	DATE RECEIVED:	10/21/88
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	11/04/88
DESCRIPTION:	Water Sample	REPORT DATE:	11/08/88
ANALYST:	FJS, CC		

ASI SAMPLE I.D.:	7784
CLIENT SAMPLE I.D.:	Effluent Sample

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

ND = Non Detectable Detection Limit = 0.01 ug/L

All results are in ug/L

Robert Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek Wastewater Treatment Plant		
PROJECT:	Effluent Sample	DATE SAMPLED:	10/06/88
ASI REF. NO.:	82008	DATE RECEIVED:	10/10/88
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	11/03/88
DESCRIPTION:	Water Sample	REPORT DATE:	11/07/88
ANALYST:	FJS, CC		

ASI SAMPLE I.D.:	6983
CLIENT SAMPLE I.D.:	Effluent Sample

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

ND = Non Detectable Detection Limit = 0.01 ug/L

All results are in ug/L

Robert Allard, Jr.
Vice President/Chemist

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek		
PROJECT:	September Monitoring	DATE SAMPLED:	09/21/88
ASI REF. NO.:	81858	DATE RECEIVED:	09/22/88
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	10/05/88
DESCRIPTION:	Water Sample	REPORT DATE:	10/07/88
ANALYST:	FJS, CC		

ASI SAMPLE I.D.:	6623
CLIENT SAMPLE I.D.:	Effluent

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

ND = Non Detectable Detection Limit = 0.01 ug/L

All results are in ug/L

Doug Conran

Doug Conran
Lab Director

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek		
PROJECT:	Quarterly	DATE SAMPLED:	09/12/88
ASI REF. NO.:	81772	DATE RECEIVED:	09/13/88
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	10/05/88
DESCRIPTION:	Wastewater Sample	REPORT DATE:	10/10/88
ANALYST:	FJS, CC		

ASI SAMPLE I.D.: 6340
CLIENT SAMPLE I.D.: Effluent Sample

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

ND = Non Detectable Detection Limit = 0.01 ug/L

All results are in ug/L

Doug Conran
Lab Director

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek		
PROJECT:	Effluent From 8/23/88	DATE SAMPLED:	08/23/88
ASI REF. NO.:	81600	DATE RECEIVED:	08/24/88
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	09/06/88
DESCRIPTION:	Water Sample	REPORT DATE:	09/09/88
ANALYST:	LBC, FJS, MSZ		

ASI SAMPLE I.D.:	5655
CLIENT SAMPLE I.D.:	Effluent Grab 8:10AM

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

ND = Non Detectable Detection Limit = 0.01 ug/L

All results are in ug/L

Doug Conran
Lab Director

ANALYTICAL SERVICES

CLIENT:	City of Battle Creek		
PROJECT:	August Monitoring	DATE SAMPLED:	08/12/88
ASI REF. NO.:	81534	DATE RECEIVED:	08/15/88
SAMPLED BY:	City of Battle Creek	DATE FINISHED:	09/02/88
DESCRIPTION:	Water Sample	REPORT DATE:	09/09/88
ANALYST:	LBC, FJS, MSZ		

ASI SAMPLE I.D.:	5396
CLIENT SAMPLE I.D.:	Effluent Grab 7:45AM

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

ND = Non Detectable Detection Limit = 0.01 ug/L

All results are in ug/L

Doug Conran

Doug Conran
Lab Director

ANALYTICAL SERVICES

PROJECT:	City of Battle Creek	DATE SAMPLED:	07/29/88
ASI REF. NO.:	81409	DATE RECEIVED:	08/01/88
SAMPLED BY:	ASI	DATE FINISHED:	08/09/88
DESCRIPTION:	Water Sample	REPORT DATE:	08/17/88
ANALYST:	LBC, FJS, MSZ		

ASI SAMPLE I.D.:	4979
CLIENT SAMPLE I.D.:	Effluent Grab

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

ND = Non Detectable Detection Limit = 0.01 ug/L

All results are in ug/L

Doug Conran
Lab Director

ANALYTICAL SERVICES

PROJECT:	City of Battle Creek	DATE SAMPLED:	07/21/88
ASI REF. NO.:	81357	DATE RECEIVED:	07/22/88
SAMPLED BY:	ASI	DATE FINISHED:	08/09/88
DESCRIPTION:	Water Sample	REPORT DATE:	08/17/88
ANALYST:	LBC, FJS, MSZ		

ASI SAMPLE I.D.:	4791
CLIENT SAMPLE I.D.:	Effluent Grab 9:30AM

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

ND = Non Detectable Detection Limit = 0.01 ug/L

All results are in ug/L

Doug Conran

Doug Conran
Lab Director

CITY OF BATTLE CREEK

SAMPLES RECEIVED 01/07/88 PAGE 1

LAB# 8010099 EFFLUENT 01/06/88

LAB#	8010099
UNITS	ug/l
PCB, Total	< 0.5
Carbon Tetrachloride	< 1
2-Chlorophenol	< 0.3
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 0.6
Benzidine	< 1.0

CAL

CITY OF BATTLE CREEK

SAMPLES RECEIVED 01/20/88 PAGE 1

LAB# 8010459 BATTLE CREEK EFFLUENT 1/19/88

LAB#	8010459
UNITS	ug/l
2-Chlorophenol	< 0.3
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 0.6
Carbon Tetrachloride	< 1
Benzidine	< 1
PCB, Total	< 0.5

CAL

CITY OF BATTLE CREEK

SAMPLES RECEIVED 02/04/89 PAGE 1

LAB# 8020114 2/3/89 EFFLUENT

LAB#	8020114
UNITS	ug/L
2-Chlorophenol	< 0.3
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 0.6
Carbon Tetrachloride	< 1
Benzidine	< 1.0
PCB, Total	< 0.5
Benzene	< 0.2

CAL

CITY OF BATTLE CREEK

SAMPLES RECEIVED 02/24/88 PAGE 1

LAB# 8020662 EFFLUENT, 2/23/88, 9:20AM

LAB#	8020662
UNITS	ug/l
2-Chlorophenol	< 0.3
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 0.6
Benzidine	< 1.0
PCB, Total	< 0.5
Carbon Tetrachloride	< 1.0

CAL

CITY OF BATTLE CREEK

SAMPLES RECEIVED 03/03/88 PAGE 1

LAB# 8030046 EFFLUENT, 3/2/88

LAB#	8030046
UNITS	ug/l
2-Chlorophenol	< 0.3
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 0.6
Benzidine	< 1
PCB, Total	< 0.5
Carbon Tetrachloride	< 1

CAL

LAB#	803045
UNITS	ug/L
2-Chlorophenol	< 4.3
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 4.6
Benzidine	< 2.0
PCB, Total	< 0.5
Carbon Tetrachloride	< 1.0

CAL

CITY OF BATTLE CREEK

SAMPLES RECEIVED 04/15/88 PAGE 1

LAB# 8040229 EFFLUENT 4/8/88

LAB#	8040229
UNITS	ug/l
2-Chlorophenol	< 0.3
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 0.6
Benzidine	< 1
PCB, Total	< 0.5
Carbon Tetrachloride	< 1

CAL

CITY OF BATTLE CREEK

SAMPLES RECEIVED 04/21/88 PAGE 1

LAB# 8040583 EFFLUENT SAMPLE 4/20/88

LAB#	8040583
UNITS	ug/l
2-Chlorophenol	< 0.3
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 0.6
Carbon Tetrachloride	< 1.0
PCB, Total	< 0.5
Benzidine	< 1.0

CAL

CITY OF BATTLE CREEK

SAMPLES RECEIVED 05/05/88 PAGE 1

LAB# 8050120 EFFLUENT SAMPLE 5/4/88

LAB#	8050120
UNITS	ug/l
2-Chlorophenol	< 0.3
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 0.6
Carbon Tetrachloride	< 1.0
Benzidine	< 1.0
PCB, Total	< 0.5
Benzene	< 0.2

CAL

CITY OF BATTLE CREEK

SAMPLES RECEIVED 05/19/88

LAB# 8050606 EFFLUENT SAMPLE 5/18/88

LAB#	8050606
UNITS	ug/l
2-Chlorophenol	< 0.3
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 0.6
Carbon Tetrachloride	< 5
Benzidine	< 1.0
PCB, Total	< 0.5

CAL

SAMPLES RECEIVED 06/08/00 PAGE 1

LAB# 8060215 EFFLUENT SAMPLE

LAB#	8060215
UNITS	ug/l
2-Chlorophenol	< 1.3
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 0.6
Carbon Tetrachloride	< 1.0
Benzidine	< 1.0
PCB, Total	< 4.5
Benzene	< 2.0

CAL

CITY OF BATTLE CREEK

SAMPLES RECEIVED 06/27/88 PAGE 1

LAB# 8060871 EFFLUENT SAMPLE

LAB#	8060871
UNITS	ug/l
2-Chlorophenol	< 0.3
2,4-Dichlorophenol	< 0.4
2,4,6-Trichlorophenol	< 0.6
Carbon Tetrachloride	< 1.0
Benzidine	< 1.0
PCB, Total	< 0.5

CAL

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

408 Auburn Avenue
Pontiac, Michigan 48058

313-334-4747

Battle Creek, WWTP
Attn: Christine Kosmowski, Chemist

February 21, 1989

PROGRAM: RESIDUAL SAMPLE

Date Received: 1-10-89

ALD Number: 50540

Client I.D.: Sludge Cake Comp 12/12-26/88

Organic Compounds, mg/kg	As Received	Dry Weight Basis
Pentachlorophenol	<5	<26
Phenathrene	<5	<26
Phenol	23	120
Polychlorinated biphenyls	<5	<26
Tetrachlorodibenzodioxins *	<5	<26
Tetrachlorodibenzofurans	NA	--
Tetrachloroethylene	<0.5	<3
Toxaphene	<12	<63
Trichloroethylene	<0.5	<3
2,4,6-Trichlorophenol	<5	<26
Tricresyl phosphate	<5	<26
Vinyl Chloride	<0.5	<3

NA - not analyzed

* 2,3,7,8-isomer analyzed only

RS/6r

Burmah

Battle Creek, WWTP
Attn: Christine Kosmowski, Chemist

November 1, 1988

PROGRAM: RESIDUAL SAMPLE

Date Received: 9-22-88
ALD Number: 45018
Client I.D.: 9/2-16/88

Organic Compounds, mg/kg	As Received	Dry Weight Basis
Pentachlorophenol	<2	<3
Phenathrene	<2	<3
Phenol	<2	<3
Polychlorinated biphenyls	<2	<3
Tetrachlorodibenzodioxins	<2*	<3
Tetrachlorodibenzofurans	NA	--
Tetrachloroethylene	<0.5	<0.6
Toxaphene	<2	<3
Trichloroethylene	<0.5	<0.6
2,4,6-Trichlorophenol	<2	<3
Tricresyl phosphate	<2	<3
Vinyl Chloride	<0.5	<0.6

NA - not analyzed

* 2,3,7,8-TCDD isomer analyzed only

RS/5r

ADDITIONAL CHEMICAL ANALYSES
BATTLE CREEK, MICHIGAN
ID# 130027

OCTOBER 1986

DAY	2-Chlorophenol ug/1	2,4-dichlorophenol ug/1	2,4,6-tri-chlorophenol ug/1	Carbon Tetrachloride ug/1	Benzidine ug/1	PCB's mg/1
01						
02						
03						
04						
05						
06						
07						
08						
09						
10	L0.31	L0.39	L0.64	L0.12	L0.08	L0.01
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

ADDITIONAL CHEMICAL ANALYSES

BATTLE CREEK, MICHIGAN
ID #130027

NOVEMBER 1986

DAY	PCB'S ug/l	CARBON TETRACHLORIDE ug/l	2-chlorophenol ug/l	2,4-dichlorophenol ug/l	2,4,6-trichlorophenol ug/l	Benzidine ug/l
01						
02						
03	L0.5	L0.12	L0.31	L0.39	L0.64	L0.08
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17	L0.5	L0.12	L0.31	L0.39	L0.64	L0.08
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

ADDITIONAL CHEMICAL ANALYSIS

BATTLE CREEK, MICHIGAN

ID #130027

DECEMBER 1986

Cortland V. Drenger

DAY	CARBON TETRA-CHLORIDE ug/1	2-CHLORO-PHENOL ug/1	2,4-DI-CHLORO-PHENOL ug/1	2,4,6-TRI-CHLORO-PHENOL ug/1	TOTAL PCB ug/1	BENZIDINE ug/1	BENZENE ug/1	CADMIUM ug/1	LEAD ug/1	SILVER ug/1
PN					39516			01027	01051	01077
01										
02										
03	L0.12	L0.31	L0.39	L0.64	L0.5	L0.08				
04								10	L50	27
05										
06										
07										
08								9	L50	38
09								7	L50	27
10								6	L50	22
11										
12										
13										
14										
15	L0.12	L0.31	L0.39	L0.64	L0.5	L0.08	L0.2	3	L50	L10
16								6	L50	L10
17								L2	L50	18
18										
19										
20										
21										
22								L2	L50	20
23										
24										
25										
26										
27										
28										
29										
30										
31										

ADDITIONAL CHEMICAL ANALYSES

BATTLE CREEK, MICHIGAN

ID #130027

JANUARY 1987

Cotton & V Overmyer

	CARBON TETRA-CHLORIDE ug/1	2-CHLORO-PHENOL ug/1	2,4-DI-CHLORO-PHENOL ug/1	2,4,6-TRI-CHLORO-PHENOL ug/1	TOTAL PCB ug/1	BENZIDINE ug/1	CADMIUM ug/1	SILVER ug/1	LEAD ug/1	CYANIDE AMENABLE Cl_2 ug/1
PN					39516		01027	01077	01051	
DAY										
01										
02										
03										
04										
05										
06	L0.12	L0.31	L0.39	L0.64	L0.5	L0.08				
07							L2.0	L10.0	99	
08							L2.0	L10.0	L50	
09										
10										
11										
12							L2.0	L10.0	L50.0	
13							L2.0	L10.0	L50.0	
14										
15							L2.0	L10.0	L50.0	
16										
17										
18										
19							3.0	L10.0	L50.0	
20							L2.0	L10.0	L50.0	L0.1
21							L2.0	26.5	L50.0	L0.1
22										L0.1
23	L0.12	L0.31	L0.39	L0.64	L0.5	L0.08				
24										
25										
26							L2.0	L10.0	L50.0	
27							L2.0	48.0	L50.0	20.8
28							L2.0	74.0	L50.0	5.1
29										L0.1
30										
31										
								11 | 148.5	11 | 99	
									9	
								13.5		
ME	L0.12	L0.31	L0.39	L0.64	L0.5	L0.08	L2.1	L20.1	L54.5	L4.4

ADDITIONAL CHEMICAL ANALYSES

BATTLE CREEK, MICHIGAN
ID #130027

FEBRUARY 1987

Carlton V. Doerger

	Carbon Tetrachloride ug/l	2-Chloro-Phenol ug/l	2,4 Di-Chlorophenol ug/l	2,4,6-tri Chloro Phenol ug/l	Total PCB ug/l	Benzidine ug/l	Cadmium ug/l	Lead ug/l	Silver ug/l	Cyanide (amenable to chlorination) ug/l
PN					39516		01027	01051	01077	
DAY										
01							L2.0	10.0	L50.0	
02	L0.12	L0.31	L0.39	L0.64	L0.5	L0.08	L2.0	L10.0	L50.0	
03							L2.0	L10.0	L50.0	*
04										*
05										
06										
07										
08										
09										
10							L2.0	L10.0	L50.0	*
11							L2.0	L10.0	L50.0	*
12							L2.0	L10.0	L50.0	**
13										
14										
15										
16							L2.0	L10.0	L50.0	**
17							L2.0	L10.0	50.0	**
18							L2.0	L10.0	L50.0	**
19										
20	L0.12	L0.31	L0.39	L0.64	L0.5	L0.08				
21										
22							L2.0	L10.0	L50.0	
23							L2.0	L10.0	52.0	*
24							L2.0	L10.0	L50.0	2.3
25									.	*
26										
27										
28										

* No determinable quantities of cyanide amenable to chlorination

** No results; equipment problems

ADDITIONAL CHEMICAL ANALYSES

BATTLE CREEK, MICHIGAN

ID #130027

MARCH 1987

Cortland V Overmyer

PN DAY	CARBON TETRACHLORIDE ug/l	2-CHLORO-PHENOL ug/l	2,4 DI-CHLOROPHENOL ug/l	2,4,6-TRI CHLOROPHENOL ug/l	TOTAL PCB ug/l 39516	BENZIDINE ug/l	BENZENE ug/l	CADMIUM ug/l 00680	LEAD ug/l 01051	SILVER ug/l 01077	CYANIDE (AMENABLE TO CHLORINATION) ug/l
01											
02											
03								L2.0	L50.0	L10.0	3.3
04	L0.12	L0.31	L0.39	L0.64	L0.5	L0.08		3.0	L50.0	L10.0	*
05								L2.0	L50.0	L10.0	*
06											
07											
08											
09								2.0	L50.0	L10.0	*
10								L2.0	L50.0	L10.0	*
11								9.0	L50.0	25.0	*
12											
13						?					
14											
15											
16	L0.12	L0.31	L0.39	L0.64	L0.5	0.84	L0.20	L2.0	L50.0	L10.0	*
17								L2.0	L50.0	11.0	*
18								L2.0	L50.0	L10.0	*
19											
20											
21											
22											
23											*
24								L2.0	L50.0	41	*
25											
26								3.0	L50.0	43.0	
27											
28											
29											
30								2.0	L50.0	10.0	*
31								4.0	L50.0	30.0	*
TL	0.12	0.31	0.39	0.64	1.0	0.92	0.20	37.0	650.0	230.0	3.3
ME	0.12	0.31	0.39	0.64	0.5	0.46	0.20	2.9	L 50.0	17.7	3.3

* = No determinable quantities of cyanide amenable to chlorination

ADDITIONAL CHEMICAL ANALYSES

BATTLE CREEK, MICHIGAN

ID# 130027

APRIL 1987

	CARBON TETRACHLORIDE ug/l	2-CHLORO-PHENOL ug/l	2,4 DI-CHLOROPHENOL ug/l	2,4,6-TRI CHLOROPHENOL ug/l	TOTAL PCB ug/l	BENZIDINE ug/l	BENZENE ug/l	CADMIUM ug/l	LEAD ug/l	SILVER ug/l	CYANIDE (AMENABLE TO CHLORINATION) ug/l
PN					39516			00680	01051	01077	
DAY											
01								2.0	L50.0	L10.0	*
02											
03	L0.12	L0.31	L0.39	L0.64	L0.5	L0.08					
04											
05											
06								L2.0	L50.0	L10.0	*
07											
08								L2.0	L50.0	L10.0	
09								L2.0	L50.0	L10.0	
10											
11											
12											
13								L2.0	L50.0	L10.0	5
14								L2.0	L50.0	L10.0	*
15								4.0	L50.0	L10.0	*
16	L0.12	L0.31	L0.39	L0.64	L0.5	L0.08					
17											
18											
19											
20								L2.0	L50.0	L10.0	*
21								2.0	L50.0	L10.0	*
22								L2.0	L50.0	L10.0	*
23											
24											
25											
26											
27								L2.0	L50.0	L10.0	*
28								L2.0	L50.0	L10.0	*
29								L2.0	L50.0	L10.0	*
30											
TL	L0.24	L0.62	L0.78	L1.28	L1.0	L0.16		L28.0	L650.0	L130.0	5
ME	L0.24	L0.31	L0.39	L0.64	L0.5	L0.08		L2.2	L50.0	L10.0	5

* No determinable quantities of cyanide amenable to chlorination

ADDITIONAL CHEMICAL ANALYSES
BATTLE CREEK, MICHIGAN
ID# 130027

MAY 1987

Cortland V Bremyer

	CARBON TETRACHLORIDE ug/1	2-CHLORO-PHENOL ug/1	2,4 DI-CHLOROPHENOL ug/1	2,4,6-TRI CHLOROPHENOL ug/1	TOTAL PCB ug/1	BENZIDINE ug/1	BENZENE ug/1	CADMIUM ug/1	LEAD ug/1	SILVER ug/1	CYANIDE (AMENABLE TO CHLORINATION) ug/1
PN					39516			00680	01051	01077	
DAY											
01											
02											
03											
04								L0.15**	L7.0**	1.9**	*
05								L0.15	L7.0	1.6	*
06								L0.15	L7.0	1.9	*
07	L0.12	L0.31	L0.39	L0.64	L0.5	L0.08					
08											
09											
10											
11								L0.15	L7.0	1.4	*
12								L0.15	L7.0	1.5	9
13											21
14								L0.15	L7.0	1.3	
15											
16											
17								L0.15	L7.0	1.2	*
18								L0.15	L7.0	1.3	4
19											
20								L0.15	L7.0	1.7	*
21	L0.12	L0.31	L0.39	L0.64	L0.5	L0.08					
22											
23											
24											
25								L0.15	L7.0	1.2	4
26								L0.15	L7.0	L1.1	*
27								L0.15	L7.0	L1.1	41
28											
29											
30											
31											
TL	L0.24	L0.62	L0.78	L1.28	L1.0	L0.16		L1.80	L84.0	L17.2	79
ME	L0.12	L0.31	L0.39	L0.64	L0.5	L0.08		L0.15	L 7.0	~~L 1.4~~ 1.7	6.6

* = NO DETERMINABLE QUANTITIES OF CYANIDE AMENABLE TO CHLORINATION

** = BEGIN USE OF GRAPHITE FURNACE FOR METAL DETECTION

ADDITIONAL CHEMICAL ANALYSES
BATTLE CREEK, MICHIGAN

TD# 130027

JUNE 1987

PN DAY	CARBON TETRACHLORIDE ug/l	2-CHLORO-PHENOL ug/l	2,4 DI-CHLOROPHENOL ug/l	2,4,6-TRI CHLOROPHENOL ug/l	TOTAL PCB ug/l	BENZIDINE ug/l	BENZENE ug/l	CADMIUM ug/l	LEAD ug/l	SILVER ug/l	CYANIDE (AMENABLE TO CHLORINATION ug/l
					39516						
01											13
02	LO.12	LO.31	LO.39	LO.64	LO.5	LO.08		LO.27	L7.0	L1.1	2
03								LO.27	L7.0	L1.1	4
04								LO.27	L7.0	L1.1	
05											
06											
07											
08										L1.1	
09								LO.27	L7.0	L1.1	49 *
10								LO.27	L7.0	L1.1	*
11								LO.27	L7.0		
12											
13											
14											
15											
16								LO.27	L7.0	L1.1	*
17	LO.12	LO.31	LO.39	LO.64	LO.5	LO.08	LO.20	LO.27	L7.0	L1.1	*
18								LO.27	L7.0	L1.1	
19											
20											
21											
22											
23								LO.27	8.8	1.4	13
24								LO.27	L7.0	L1.1	*
25								LO.27	7.9	1.5	*
26											
27											
28								0.34	L7.0	L1.1	*
29								LO.27	L7.0	L1.1	11
30								4.7	L7.0	L1.1	*
TL	LO.24	LO.62	LO.78	L1.28	L1.0			L15.00	L107.7	L17. 2	L92
ME	LO.12	LO.31	LO.39	LO.64	LO.5			LO.57	LO.2	L1. 2	L 6

* = NO DETERMINABLE QUANTITIES OF CYANIDE AMENABLE TO CHLORINATION

** = BEGIN USE OF GRAPHITE FURNACE FOR METAL DETECTION

ADDITIONAL CHEMICAL ANALYSES
BATTLE CREEK, MICHIGAN
ID# 130027

JULY 1987

	CARBON TETRACHLORIDE ug/l	2-CHLORO-PHENOL ug/l	2,4 DI-CHLOROPHENOL ug/l	2,4,6-TRI-CHLOROPHENOL ug/l	TOTAL PCB ug/l	BENZIDINE ug/l	BENZENE ug/l	CADMIUM ug/l	LEAD ug/l	SILVER ug/l	CYANIDE (AMENABLE TO CHLORINATION) ug/l
PN					39516			00680	01051	01077	
DAY											
01											
02											
03											
04											
05											
06											
07								L0.24	L7.0	L1.1	4
08								0.39	L7.0	1 8	1423
09	L1 0	L0.31	L0 39	L0.64	L0 5	**		L0 24	L7.0	L1 1	244
10											
11											
12								L0.24	L7.0	L1.1	8
13								L0.24	L7.0	L1 1	15
14								L0.24	L7.0	2.2	10
15											
16											
17	L1.0	L0.31	L0.39	L0.64	L0 5	**					
18											
19											
20								L0.24	7 6	1 7	*
21								L0 24	L7.0	2.1	*
22								L0.24	L7.0	L1.1	*
23											
24											
25											
26											
27											
28								L0.24	L7 0	L1 1	*
29								L0.24	8 5	1 1	*
30								L0.24	9 6	L1 1	1
31											
TL	L2.0	L0.62	L0.78	L1 28	L1 0			L2.79	L88 7	L16.6	1705
ME	L1.0	L0 31	L0 39	L0 64	L0 5			L0 25	L7 4	L1 4	142

* NO DETERMINABLE QUANTITIES OF CYANIDE AMENABLE TO CHLORINATION

** BENZIDINE RESULTS WILL BE SENT WHEN AVAILABLE

ADDITIONAL CHEMICAL ANALYSES
BATTLE CREEK, MICHIGAN
ID#130027

AUGUST 1987

PN / DAY	CARBON TETRACHLORIDE ug/1	2-CHLORO-PHENOL ug/1	2,4 DI-CHLOROPHENOL ug/1	2,4,6-TRI-CHLOROPHENOL ug/1	TOTAL PCB ug/1	BENZIDINE ug/1	BENZENE ug/1	CADMIUM ug/1	LEAD ug/1	SILVER ug/1	CYANIDE (AMENABLE TO CHLORINAT ION) ug/1
					39516			00680	01051	01077	
01											
02											
03								0.37	4.8	L1.1	*
04								0.45	L1.4	L1.1	8
05	*L0.5	L0.3	L0.4	L0.6	L0.5	L1.0		L0.30	6.7	L1.1	11
06											
07											
08											
09											
10								0.30	1.4	L1.1	9
11								L0.30	3.1	L1.1	12
12								L0.30	3.3	L1.1	10
13											
14											
15											
16								L0.30	1.5	L1.1	*
17								L0.30	6.5	L1.1	*
18	L0.5	L0.3	L0.4	L0.6	L0.5	L1.0		0.30	3.0	L1.1	*
19											
20											
21											
22											
23								L0.30	8.7	L1.1	5
24								0.37	L1.4	L1.1	13
25								L0.30	5.4	L1.1	*
26											
27											
28											
29											
30											
31											
TL	L1.0	L0.6	L0.8	L1.2	L1.0	L2.0		L3.89	L47.2	L13.2	68
ME	L0.5	L0.3	L0.4	L0.6	L0.5	L1.0		L0.32	L 3.9	L1.1	6

* NO DETERMINABLE QUANTITIES OF CYANIDE AMENABLE TO CHLORINATION

ADDITIONAL CHEMICAL ANALYSES

BATTLE CREEK, MICHIGAN

ID #130027

SEPTEMBER 1987

	CARBON TETRACHLORIDE ug/l	2-CHLORO-PHENOL ug/l	2,4 DI-CHLOROPHENOL ug/l	2,4,6-TRI-CHLOROPHENOL ug/l	TOTAL PCB ug/l	BENZIDINE ug/l	BENZENE ug/l	CADMIUM ug/l	LEAD ug/l	SILVER ug/l	CYANIDE (AMENABLE TO CHLORINATION) ug/l
PN					39516			00680	01051	01077	
DAY											
01	L0.5	L0.3	L0.4	L0.6	L0.5	L1.0		L0.15	2.7	L0.36	16
02								L0.15	1.1	0.38	*
03								L0.15	0.66	L0.36	9
04											
05											
06											
07											
08								L0.15	0.59	0.65	*
09								0.62	L0.39	L0.36	*
10								L0.15	0.66	L0.36	0
11											
12											
13								0.29	6.05	1.81	3
14	L0.5	L0.3	L0.4	L0.6	L0.5	L1.0	L0.2	L0.15	L0.39	L0.36	*
15								L0.15	0.55	L0.36	4
16											
17											
18											
19											
20											
21											
22								L0.15	1.72	L0.36	4
23								L0.15	0.92	L0.36	6
24								L0.15	1.38	L0.36	12
25											
26											
27								L0.15	L0.39	L0.36	9
28								L0.15	1.57	L0.36	9
29								L0.15	2.73	L0.36	7
30											
TL	L1.0	L0.6	L0.8	L1.2	L1.0	L2.0	L0.2	L2.86	L21.8	L7.16	79
ME	L0.5	L0.3	L0.4	L0.6	L0.5	L1.0	L0.2	L0.19	L1.4	L0.48	5.3

* NO DETERMINABLE QUANTITIES OF CYANIDE AMENABLE TO CHLORINATION

ADDITIONAL CHEMICAL ANALYSES

BATTLE CREEK, MICHIGAN

ID# 130027

Cortland V Doerrmyer

OCTOBER 1987

	CARBON TETRACHLORIDE ug/1	2-CHLORO-PHENOL ug/1	2,4 DI-CHLOROPHENOL ug/1	2,4,6-TRI-CHLOROPHENOL ug/1	TOTAL PCB ug/1	BENZIDINE ug/1	BENZENE ug/1	CADMIUM ug/1	LEAD ug/1	SILVER ug/1	CYANIDE (AMENABLE TO CHLORINATION) ug/1
PN					39516			00680	01051	01077	
DAY											
01											
02											
03											
04											
05											
06	L1.0	L0.3	L0.4	L0.6	L0.5	L1.0		L0.04	1.4	0.21	6
07								0.09	1.2	0.31	13
08								0.13	1.6	0.51	*
09											
10											
11								L0.04	1.3	0.38	8
12											
13											
14											
15								0.41	3.5	0.47	*
16								0.05	4.4	0.39	*
17											
18								0.14	3.0	0.23	*
19								0.09	3.5	0.23	12
20								0.14	3.6	0.22	*
21											
22	L1.0	L0.3	L0.4	L0.6	L0.5	L1.0					
23											
24											
25											
26								0.10	1.0	0.38	*
27								0.17	1.3	0.35	24
28								0.28	2.7	0.53	30
29											
30											
31											
TL	L2.0	L0.6	L0.8	L1.2	L1.0	L2.0		1.68	27.6	4 21	93
ME	L1.0	L0.3	L0.4	L0.6	L0.5	L1.0		0.14	2.3	0.35	7.8

* = NO DETERMINABLE QUANTITIES OF CYANIDE AMENABLE TO CHLORINATION

ADDITIONAL CHEMICAL ANALYSES
BATTLE CREEK, MICHIGAN
ID # 130027

NOVEMBER 1987

	CARBON TETRACHLORIDE ug/1	2-CHLORO-PHENOL ug/1	2,4 DI-CHLOROPHENOL ug/1	2,4,6-TRI CHLOROPHENOL ug/1	TOTAL PCB ug/1	BENZIDINE ug/1	BENZENE ug/1	CADMIUM ug/1	LEAD ug/1	SILVER ug/1	CYANIDE (AMENABLE TO CHLORINATION) ug/1
PN					39516			00680	01051	01077	
DAY											
01											
02											
03								0.16	2.6	0.49	31
04								0.09	2.1	0.44	13
05								0.12	3.5	0.52	1
06											
07											
08											
09								0.08	1.4	0.42	2
10											
11								0.09	1.9	0.52	8
12								0.10	1.7	0.75	26
13											
14											
15											
16								0.09	1.2	0.44	42
17								0.07	1.7	0.59	3802
18											
19								0.12	2.0	0.54	700
20											
21											
22								0.11	1.4	0.19	18
23								0.11	1.9	0.17	25
24								0.14	2.4	0.23	38
25	L1.0	L0.3	L0.4	L0.6	L0.5	L1.0					
26											
27											
28											
29											
30											*
31											
TL	L1.0	L0.3	L0.4	L0.6	L0.5	L1.0		1.28	23.8	5.30	4706
ME	L1.0	L0.3	L0.4	L0.6	L0.5	L1.0		0.11	2.0	0.44	362

* NO DETERMINABLE QUANTITIES OF CYANIDE AMENABLE TO CHLORINATION

ADDITIONAL CHEMICAL ANALYSES
BATTLE CREEK, MICHIGAN
ID # 130027

DECEMBER 1987

PN DAY	CARBON TETRACHLORIDE ug/l	2-CHLORO PHENOL ug/l	2,4 DI-CHLOROPHENOL ug/l	2,4,6-TRI CHLOROPHFNOL ug/l	TOTAL PCB ug/l 39516	BENZIDINE ug/l	BENZENE ug/l	CADMIUM ug/l 00680	LEAD ug/l 01051	SILVER ug/l 01077	CYANIDE (AMENABLE TO CHLORINATION) ug/l
01								0.07	1.6	0.10	9
02								0.05	2.3	0.08	3
03								0.07	1.9	0.16	—
04											
05											
06								0.04	2.2	0.28	23
07								0.07	2.4	0.29	17
08								0.06	2.3	0.24	18
09											
10											
11											
12											
13											
14								0.07	1.0	0.41	*
15	*L1.0	L0.3	L0.4	L0.6	L0.5	L1.0	L0.2	0.04	0.9	0.34	4
16								0.04	0.9	0.31	88
17											
18											
19											
20								0.10	2.3	0.55	8
21								0.08	2.0	0.47	9
22								0.11	2.4	0.60	32
23	*L1.0	L0.3	L0.4	L0.6	L0.5	L1.0					
24											
25											
26											
27								0.22	5.0	0.40	*
28								0.15	4.1	0.39	*
29								0.14	1.9	0.40	*
30											
31											
TL	L2.0	L0.6	L0.8	L1.2	L1.0	L2.0	L0.2	1.31	33.2	5.02	211
ME	L1.0	L0.3	L0.4	L0.6	L1.0	L1.0	L0.2	0.09	2.2	0.33	15

* NO DETERMINABLE QUANITITE OF CYANIDE AMENABLE TO CHLORINATION

ADDITIONAL CHEMICAL ANALYSES
BATTLE CREEK, MICHIGAN
ID# 130027

Cortland V. Seemyer

JANUARY 1988

DAY	CARBON TETRACHLORIDE ug/l	2-CHLORO PHENOL ug/l	2,4 DI-CHLOROPHENOL ug/l	2,4,6-TRI CHLOROPHENOL ug/l	TOTAL PCB ug/l	BENZIDINE ug/l	BENZENE ug/l	CADMIUM ug/l	LEAD ug/l	SILVER ug/l	CYANIDE (AMENABLE TO CHLORINATION) ug/l
PN					39516			00680	01051	01077	
01											
02											
03											
04											
05								0.12	1.7	0.39	36
06	*L1.0	L0.3	L0.4	L0.6	L0.5	L1.0		0.11	1.4	0.38	8
07								0.24	1.0	0.41	28
08											
09											
10											
11											
12								0.12	0.65	0.40	30
13								0.12	0.64	0.60	54
14								0.20	1.2	0.49	120
15											
16											
17											
18								0.23	1.4	0.71	77
19	*L1.0	L0.3	L0.4	L0.6	L0.5	L1.0		0.19	1.3	0.77	149
20								0.18	1.3	0.54*	136
21											
22											
23											
24								*	*	*	*
25								*	*	*	*
26								*	*	*	*
27											
28											
29											
30											
31								0.24	1.7	0.54	1
TL	L2.0	L0.6	L0.8	L1.2	L1.0	L2.0		1.75	12.29	5.23	639
ME	L1.0	L0.3	L0.4	L0.6	L0.5	L1.0		0.18	1.23	0.52	64

* Seven day average -- bad sample

ADDITIONAL CHEMICAL ANALYSES
BATTLE CREEK, MICHIGAN
ID# 130027

FEBRUARY 1988

PN DAY	CARBON TETRACHLORIDE ug/l	2-CHLORO PHENOL ug/l	2,4 DI-CHLOROPHENOL ug/l	2,4,6-TRI CHLOROPHENOL ug/l	TOTAL PCB ug/l	BENZIDINE ug/l	BENZENE ug/l	CADMIUM ug/l	LEAD ug/l	SILVER ug/l	CYANIDE (AMENABLE TO CHLORINATION) ug/l
					39516			00680	01051	01077	
01								0.24	1.5	0.38	1
02								0.20	1.0	0.46	1
03	L1.0	L0.3	L0.4	L0.6	L0.5	L1.0	L0.2				
04											
05											
06											
07											
08											
09								0.25	4.6	0.66	*
10								0.17**	3.3	0.76	*
11								0.30	3.8	0.63	*
12											
13											
14											
15											
16								0.19	3.5	0.45	2
17								0.11	3.8	0.68	*
18								0.10	3.8	0.52	54
19											
20											
21	L1.0	L0.3	L0.4	L0.6	L0.5	L1.0		0.11	4.9	0.46	*
22								0.10	3.9	0.75	55
23								0.12	4.3	0.73	47
24											
25											
26											
27											
28											
29								0.10	0.30	0.37	46
TL	2.0	0.6	0.8	1.2	1.0	2.0	0.2	1.99	39.6	6.85	206
ME	L1.0	L0.3	L0.4	L0.6	L0.5	L1.0	L0.2	0.17	3.3	0.57	17

* No determinable quantities of cyanide amenable to chlorinataion
** Questionable result - Monthly Average

MARCH 1988

ADDITIONAL CHEMICAL ANALYSES
BATTLE CREEK, MICHIGAN
ID#130027

	CARBON TETRACHLORIDE ug/l	2-CHLORO-PHENOL ug/l	2,4 DI-CHLOROPHENOL ug/l	2,4,6-TRI CHLOROPHENOL ug/l	TOTAL PCB ug/l	BENZIDINE ug/l	BENZENE ug/l	CADMIUM ug/l	LEAD ug/l	SILVER ug/l	CYANIDE (AMENABLE TO CHLORINATION) ug/l
PN					39516			00680	01051	01077	
DAY											
01								0.09	1.0	0.36	34
02	*L1.0	L0.3	L0.4	L0.6	L0.5	L1.0		0.11	1.4	0.33	36
03											
04											
05											
06											
07											
08								0.29	6.0	1.5	59
09								0.16	3.9	0.83	*
10								0.12	3.0	0.69	8
11											
12											
13								0.08	1.9	0.30	*
14								0.11	1.8	0.33	*
15	*L1.0	L0.3	L0.4	L0.6	L0.5	L1.0		0.09	1.5	0.23	5
16											
17											
18											
19											
20								0.09	1.5	0.15	*
21								0.10	1.7	0.34	7
22								0.05	1.7	0.27	5
23											
24											
25											
26											
27								0.06	3.0	0.26	*
28								0.05	2.1	0.21	2
29								0.08**	2.1	0.24	*
30											
31											
TL	L2.0	L0.6	L0.8	L1.2	L1.0	L2.0		1.48	32.6	6.04	148
ME	L1.0	L0.3	L0.4	L0.6	L0.5	L1.0		0.11	2.3	0.43	11

* NO DETERMINABLE QUANTITIES OF CYANIDE AMENABLE TO CHLORINATION

** QUESTIONABLE READING - 7-DAY AVERAGE

ADDITIONAL CHEMICAL ANALYSES

BATTLE CREEK, MICHIGAN

ID# 130027

Carla Q. V. Overmyer

	CARBON TETRACHLORIDE ug/l	2-CHLORO-PHENOL ug/l	2,4 DI-CHLOROPHENOL ug/l	2,4,6-TRI CHLOROPHENOL ug/l	TOTAL PCB ug/l	BENZIDINE ug/l	BENZENE ug/l	CADMIUM ug/l	LEAD ug/l	SILVER ug/l	CYANIDE (AMENABLE TO CHLORINATION) ug/l
PN					39516			00680	01051	01077	
DAY											
01											
02											
03											
04											
05								0.31	3.5	1.2	64
06								0.16	2.1	0.58	*
07								0.19	7.8	0.45	1
08	*L1.0	L0.3	L0.4	L0.6	L0.5	L1.0					
09											
10											
11											
12								0.38	1.1	0.56	1030
13								0.38	2.9	0.56	63
14								0.20	L1.1	0.30	60
15											
16											
17											
18											
19								0.08	L1.1	0.22	1
20	L1.0	L0.3	L0.4	L0.6	L0.5	L1.0		0.07	1.4	0.27	3
21								0.07	1.4	0.23	1
22											
23											
24								0.06	L1.1	0.17	4
25								0.07	L1.1	0.17	1
26								0.06	L1.1	0.21	1
27											
28											
29											
30											
TL	L2.0	L0.6	L0.8	L1.2	L1.0	L2.0		2.03	25.7	4.92	1229
MF	L1.0	L0.3	L0.4	L0.6	L1.0	L1.0		0.17	2.1	0.41	102

* NO DETERMINABLE QUANTITIES OF CYANIDE AMENABLE TO CHLORINATION

ADDITIONAL CHEMICAL ANALYSES

BATTLE CREEK, MICHIGAN

ID#130027

	CARBON TETRACHLORIDE ug/l	2-CHLORO-PHENOL ug/l	2,4 DI-CHLOROPHENOL ug/l	2,4,6-TRI CHLOROPHENOL ug/l	TOTAL PCB ug/l	BENZIDINE ug/l	BENZENE ug/l	CADMIUM ug/l	LEAD ug/l	SILVER ug/l	CYANIDE (AMENABLE TO CHLORINATION) ug/l
PN					39516			00680	01051	01077	
DAY											
01											
02											
03								0.15	1.4	1.8	*
04	L1.0	L0.3	L0.4	L0.6	L0.5	L1.0	L0.2	0.33	3.1	1.4	*
05								0.06	0.84	0.09	*
06											
07											
08											
09											
10								L0.06	L0.39	0.54	*
11								L0.06	L0.39	0.62	*
12								L0.06	0.58	0.87	*
13											
14											
15											
16											
17								L0.06	0.70	1.4	14
18	L5.0	L0.3	L0.4	L0.6	L0.5	L1.0		L0.06	1.0	1.1	2
19								0.08	3.8	1.7	*
20											
21											
22								0.30	2.8	0.90	1
23								L0.60	3.1	0.84	1
24								L0.60	1.9	0.22	*
25											
26											
27											
28											
29											
30								L0.06	1.7	1.0	*
31								L0.06	1.4	0.78	*
'L	L6.0	L0.6	L0.8	L1.2	L1.0	L2.0	L0.2	0.92	22.31	13.26	18
IE	L3.0	L0.3	L0.4	L0.6	L0.5	L1.0	L0.2	0.07	1.6	0.95	1.3

* NO DETERMINABLE QUANTITIES OF CYANIDE AMENABLE TO CHLORINATION

ADDITIONAL CHEMICAL ANALYSES
BATTLE CREEK, MICHIGAN
ID#130027

Cortland V. Dearing

	CARBON TETRACHLORIDE ug/l	2-CHLORO-PHENOL ug/l	2,4 DI-CHLOROPHENOL ug/l	2,4,6-TRI CHLOROPHENOL ug/l	TOTAL PCB ug/l	BENZIDINE ug/l	BENZENE ug/l	CADMIUM ug/l	LEAD ug/l	SILVER ug/l	CYANIDE (AMENABLE TO CHLORINATION) ug/l
PN					39516			00680	01051	01077	
DAY											
01								L0.06	3.4	1.8	23
02											
03											
04											
05											
06								0.06	0.96	0.60	2
07	*L1.0	L0.3	L0.4	L0.6	L0.5	L1.0		L0.06	1.9	0.73	5
08								L0.06	2.3	0.55	8
09											
10											
11											
12											
13								L0.06	4.2	0.84	19
14								L0.06	3.6	0.68	9
15								L0.06	2.8	0.94	7
16											
17											
18											
19											
20											
21								L0.06	2.0	0.43	9
22								L0.06	1.2	0.29	*
23								L0.06	1.1	0.65	*
24	*L1.0	L0.3	L0.4	L0.6	L0.5	L1.0					
25											
26											
27											
28								0.39	1.4	1.1	1
29								0.36	0.80	0.25	*
30								0.41	0.69	0.26	1
TL	L2.0	L0.6	L0.8	L1.2	L1.0	L2.0		1.22	26.25	9.12	84
ME	L1.0	L0.3	L0.4	L0.6	L0.5	L1.0		0.09	2.0	0.70	6

* NO DETERMINABLE QUANTITIES OF CYANIDE AMENABLE TO CHLORINATION

ADDITIONAL CHEMICAL ANALYSES
BATTLE CREEK, MICHIGAN
ID# 130027
JULY 1988

Carlton V. Overmyer

	CARBON TETRACHLORIDE ug/l	2-CHLORO-PHENOL ug/l	2,4 DI-CHLOROPHENOL ug/l	2,4,6-TRI CHLOROPHENOL ug/l	TOTAL PCB ug/l	BENZIDINE ug/l	BENZENE ug/l	CADMIUM ug/l	LEAD ug/l	SILVER ug/l	CYANIDE (AMENABLE TO CHLORINATION) ug/l
PN					39516			00680	01051	01077	
DAY											
01								L0.06	L0.39	1.1	*
02								L0.06	L0.39	1.1	*
03								L0.06	2.8	0.62	2
04								L0.06	1.4	0.93	*
05								L0.06	1.6	0.48	39
06								L0.06	0.40	0.35	2
07											
08											
09											
10								L0.06	1.3	0.20	*
11								L0.06	0.53	0.28	3
12								L0.06	L0.39	0.21	*
13								L0.06	2.8	0.07	*
14								L0.06	1.9	0.13	*
15											
16											
17								L0.06	1.4	0.13	*
18								L0.06	0.39	0.36	1
19								L0.06	0.46	0.49	*
20								L0.06	0.37	0.34	*
21	L0.12	L0.31	L0.39	L0.64	L0.5	L50.0		L0.06	4.4	0.52	*
22											
23											
24								L0.06	0.41	0.35	*
25								L0.06	0.93	0.32	*
26								L0.06	0.51	0.91	2
27								L0.06	L0.39	0.27	*
28								0.93	0.48	0.36	1
29	L0.12	L0.31	L0.39	L0.64	L0.5	L50.0					
30											
31								0.08	2.3	1.4	*
TL								1.01	24.38	9.82	50
ME	L0.12	L0.31	L0 39	L0.64	L0.5	L50.0		0.05	1.2	0.47	2

*NO DETERMINABLE QUANTITIES OF CYANIDE AMENABLE TO CHLORINATION

EXHIBIT 32
Page 2

August 1988

ADDITIONAL CHEMICAL ANALYSES
BATTLE CREEK, MICHIGAN
ID #130027

PN / DAY	CARBON TETRACHLORIDE ug/1	2-CHLORO-PHENOL ug/1	2,4 DI-CHLOROPHENOL ug/1	2,4,6-TRI CHLOROPHENOL ug/1	TOTAL PCB ug/1 39516	BENZIDINE ug/1	BENZENE ug/1	CADMIUM ug/1 00680	LEAD ug/1 01051	SILVER ug/1 01077	CYANIDE (AMENABLE TO CHLORINATION) ug/1
01								0.16	2.0	0.67	1
02								L0.06	1.4	0.38	*
03								0.22	2.6	1.0	*
04								0.23	6.1	1.8	*
05											
06											
07								0.09	1.8	0.62	*
08								0.13	1.9	0.48	*
09								L0.06	1.9	0.57	*
10								0.10	1.8	0.55	*
11								0.07	1.7	0.62	*
12	*L0.12	L0.31	L0.39	L0.64	L0.01	L0.08					
13											
14											
15								L0.06	2.9	0.15	*
16								L0.06	0.96	0.32	1
17								L0.06	0.77	0.19	*
18								L0.06	1.6	0.14	*
19								0.06	1.1	0.22	*
20											
21											
22								0.12	1.3	0.12	2
23	*L0.12	L0.31	L0.39	L0.64	L0.01	L0.08		0.06	1.6	0.24	2
24								L0.06	1.5	0.27	3
25								0.12	1.3	0.31	1
26								0.08	1.2	0.26	*
27											
28											
29								0.07	1.2	0.29	*
30								0.13	1.1	0.30	*
31								L0.06	3.4	0.26	*
TL								1.64	41.1	9.76	10.0
ME	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08		0.07	1.9	0.4	0.46

* NO DETERMINABLE QUANTIITES OF CYANIDE AMENABLE TO CHLORINATION

SEPTEMBER 1988
Cortland V. Overmyer

ADDITIONAL CHEMICAL ANALYSIS
BATTLE CREEK, MICHIGAN
ID# 130027

	CARBON TETRACHLORIDE ug/1	2-CHLORO-PHENOL ug/1	2,4 DI-CHLOROPHENOL ug/1	2,4,6-TRI CHLOROPHENOL ug/1	TOTAL PCB ug/1	BENZIDINE ug/1	BENZENE ug/1	CADMIUM ug/1	LEAD ug/1	SILVER ug/1	CYANIDE (AMENABLE TO CHLORINATION) ug/1
PN					39516			00680	01051	01077	
DAY											
01								0.16	0.97	0.77	*
02								0.21	1.8	1.2	*
03								0.24	2.1	1.5	*
04								0.19	2.4	1.4	*
05								0.19	2.5	1.3	3
06								0.14	1.5	0.64	5
07								0.34	1.5	0.64	5
08											
09											
10											
11								0.08	2.7	0.98	1 **
12	L0.1	L0.31	L0.39	L0.64	L0.01	L0.08	L0.1	0.07	3.5	0.99	1 **
13								0.19**	3.5**	0.93**	1 **
14								0.21	5.2	0.84	*
15								0.20	5.6	0.62	*
16								0.19	6.1	0.72	2
17											
18								0.31	6.4	0.65	*
19								0.13	4.9	0.47	*
20								***	***	***	18
21	*L0.1	L0.31	L0.39	1.1	L0.01	L0.08		***	***	***	*
22											
23											
24											
25											
26								***	***	***	*
27								***	***	***	*
28								***	***	***	*
29								***	***	***	*
30								***	***	***	*
TL	L0.2	L0.62	L0.78	1.1	L0.02	L0.16	L0.1	2.85	51.9	13.9	31
ME	L0.1	L0.31	L0.39	0.55	L0.01	L0.08	L0.1	0.19	3.5	0.93	1.3

* NO DETERMINABLE QUANTITIES OF CYANIDE AMENABLE TO CHLORINATION

** MONTHLY AVERAGE (SAMPLE LOST DUE TO BROKEN FLASK)

*** REMAINDER OF METAL ANALYSES TO FOLLOW DUE TO MALFUNCTION OF THE A.A.

ADDITIONAL CHEMICAL ANALYSIS
BATTLE CREEK, MICHIGAN
ID# 130027

SEPTEMBER 1988

REVISED COPY

	CARBON TETRACHLORIDE ug/l	2-CHLORO-PHENOL ug/l	2,4 DI-CHLOROPHENOL ug/l	2,4,6-TRI CHLOROPHENOL ug/l	TOTAL PCB /1	BENZIDINE ug/l	BENZENE ug/l	CADMIUM ug/l	LEAD ug/l	SILVER ug/l	CYANIDE (AMENABLE TO CHLORINATION) ug/l
PN					39516			00680	01051	01077	
DAY											
01								0.16	0.97	0.77	*
02								0.21	1.8	1.2	*
03								0 24	2.1	1.5	*
04								0.19	2.4	1.4	*
05								0.19	2 5	1.3	3
06								0.14	1.5	0.64	5
07								0.34	1.5	0.64	5
08											
09											
10											
11								0.08	2.7	0.98	1 **
12	10.1	L0.31	10.39	10.64	10.01	10.08	L0.1	0.07	3.5	0 .9	1 **
13								0.19**	3.5**	0.93**	1 **
14								0.21	5.2	0.84	*
15								0.20	5 6	0.62	*
16								0.19	6.1	0.72	2
17											
18								0.31	6.4	0.65	*
19								0 13	4.9	0.47	*
20								0.07	3.4	0.57	18
21	*L0.1	L0.31	L0.39	1.1	10.01	L0.08		0.09	3.1	0.69	*
22								L0.06	1.0	0.73	
23											
24											
25											
26								0.07	1.9	0.74	*
27								0.08	1.6	0.60	*
28								0.07	1.6	0.79	*
29								0.63	1.9	0.60	*
30								L0.06	1.7	0.51	*
TL	L0.2	10.62	L0.78	1.1	10.02	L0.16	10.1	3.86	66.9	18.9	31
ME	10.1	L0.31	L0.39	0.55	L0.01	L0.08	L0.1	0.17	2.9	0.82	1.3

* NO DETERMINABLE QUANTITIES OF CYANIDE AMENABLE TO CHLORINATION
** MONTHLY AVERAGE (SAMPLE LOST DUE TO BROKEN FLASK)
*** REMAINDER OF METAL ANALYSES TO FOLLOW DUE TO MALFUNCTION OF THE A.A.

ADDITIONAL CHEMICAL ANALYSIS
BATTLE CREEK, MICHIGAN
ID# 130027

OCTOBER 1988

	CARBON TETRACHLORIDE ug/1	2-CHLORO-PHENOL ug/1	2,4 DI-CHLOROPHENOL ug/1	2,4,6-TRI CHLRORPHENOL ug/1	TOTAL PCB ug/1	BENZIDINE ug/1	BENZENE ug/1	CADMIUM ug/1	LEAD ug/1	SILVER ug/1	CYANIDE (AMLNABLE TO CHLORINATION) ug/1
PN					39516			00680	01051	01077	
DAY											
01								L0.06	1.8	0.61	*
02								L0.06	1.8	1.1	*
03								L0.06	1.8	0.72	3
04								L0.06	2.0	0.94	*
05								L0.06	2.0	0.88	2
06	*L0.1	L0.31	L0.39	L0.64	L0.01	L0.08					
07											
08											
09											
10								L0.06	2.0	0.75	0.8**
11								L0.06	1.8	0.86	*
12								L0.06	1.9	0.69	*
13								L0.06	2.1	0.74	*
14											
15								L0.06	2.1	0.66	*
16								L0.06	2.4	0.73	*
17								L0.06	2.2	0.63	*
18								L0.06	2.2	0.44	*
19	*L0.1	L0.31	L0.39	L0.64	L0.01	L0.08		L0.06	1.9	0.45	*
20								0.12	6.4	0.54	*
21											
22											
23											
24								L0.06	1.5	0.56	*
25								L0.06	1.5	0.53	1
26								0.15	2.0	0.46	3
272								0.14	2.0	0.54	5
28								0.14	2.2	0.51	*
29											
30								0.11	1.9	0.52	2
31								0.12	1.7	0.37	*
TL								0.78	47.2	14.23	16.8
ME	L0.1	L0.31	L0.39	L0.64	L0.01	L0.08		0.04	2.1	0.65	0.76

* NO DETERMINABLE QUANTITIES OF CYANIDE AMENABLE TO CHLORINATION
** MONTHLY AVERAGE - FUSE BLEW ON MANTLES AND COULD NOT DISTILL SAMPLES

BATTLE CREEK, MICHIGAN
ID# 130027

NOVEMBER 1988

		CARBON TETRACHLORIDE ug/l	2-CHLORO-PHENOL ug/l	2,4 DI-CHLOROPHENOL ug/l	2, 4, 6-TRI CHLOROPHENOL ug/l	TOTAL PCB ug/l	BENZIDINE ug/l	BENZENE ug/l	CADMIUM ug/l	LEAD ug/l	SILVER ug/l	CYANIDE (AMENDABLE TO CHLORINATION) ug/l
PN						39516			00680	01051	01077	
DAY												
01									0.16	2.9	1.2	*
02									0.51	2.5	1.2	1
03									0.07	2.4	1.5	*
04												
05												
06									0.10	3.0	1.5	*
07	*	LO.1	LO.31	LO.39	LO.64	LO.01	LO.08		0.10	2.6	1.3	*
08									0.11	2.1	0 64	3
09									0.14	2.5	0.62	1
10									0.23	2.6	0.56	*
11												
12												
13									0.10	2.3	0 43	*
14									0.09	1.9	0.47	*
15									0.11	1.7	0.51	*
16									0.11	0.94	0.47	4
17									0.10	0.98	0.71	17
18												
19												
20												
21									0.14	0.73	0.79	*
22									0.21	0.79	0.60	24
23									0.09	0.85	0.59	39
24									0.10	0.78	0.80	66
25									0.15	0.51	0 63	28
26									0.14	0.65	3.3	66
27									0.15	0.76**	0.91	58
28									0.23	0.71	0.66	81
29	*	LO.1	LO.31	LO.39	LO.64	LO.01	LO.08		0.14	0.72	0.81	10
30									0.11	0.60	0.86	7
31												
TL									3.39	35.5	21.1	405
ME		LO.1	LO.31	LO.39	LO.64	LO.01	LO.08		0.15	1.5	0.92	18

* NO DETERMINABLE QUANTITIES OF CYANIDE AMENABLE TO CHLORINATION
** 7 DAY AVERAGE SAMPLE DISCARDED

ADDITIONAL CHEMICAL ANALYSES
BATTLE CREEK, MICHIGAN
ID# 130027

DECEMBER 1988

	CARBON TETRACHLORIDE ug/l	2-CHLORO-PHENOL ug/l	2,4-DI-CHLOROPHENOL ug/l	2,4,6-TRI-CHLOROPHENOL ug/l	TOTAL PCB ug/l	BENZIDINE ug/l	BENZENE ug/l	CADMIUM ug/l	LEAD ug/l	SILVER ug/l	(CN AMENABLE TO CHLORINATION) ug/l
PN					39516			00680	01051	01077	
DAY											
01											
02											
03											
04								0.10	0.82	0.28	6
05								0.10	0.73	0.30	2
06								0.14	0.91	0.38	4
07	*L0.1	L0.31	L0.32	L0.64	L0.01	L0.08	0.7	0.11	1.0	0.38	3
08								0.12	1.1	0.47	4
09											
10											
11											
12								0.13	0.81	0.37	4
13								0.19	1.1	0.44	7
14	*L0.1	L0.31	L0.32	L0.64	L0.01	L0.08		0.22	0.93	0.59	4
15								0.19	0.77	0.50	6
16								0.13	0.74	0.50	3
17											
18											
19								L0.06	0.44	0.32	1
20								L0.06	0.59	0.38	3
21								L0.06	0.76	0.40	3
22								L0.06	0.79	0.57	1
23								L0.06	0.58	0.39	1
24											
25											
26											
27								L0.06	L0.39	0.49	*
28								L0.06	L0.39	0.31	*
29								L0.06	L0.39	0.26	*
30								L0.06	L0.39	0.23	*
31								L0.06	L0.39	0.26	*
TL	L0.2	L0.62	L0.64	L1.24	L0.02	L0.16	0.7	1.43	12.07	7.82	52
ME	L0.1	L0.31	L0.32	L0.64	L0.01	L0.08	0.7	0.07	0.60	0.39	2.6

* NO DETERMINABLE QUANTITIES OF CYANIDE AMENABLE TO CHLORINATION

ADDITIONAL CHEMICAL ANALYSES
BATTLE CREEK, MICHIGAN
JANUARY 1989

ID# MI00022276

	CARBON TETRACHLORIDE ug/l	2-CHLORO-PHENOL ug/l	2-4-DI-CHLORO-PHENOL ug/l	2,4,6-TRI-CHLORO-PHENOL ug/l	TOTAL PCB ug/l	BENZIDINE ug/l	BENZENE ug/l	CADMIUM ug/l	LEAD ug/l	SILVER ug/l	(CN AMENABLE TO CHLORINATION) ug/l
PN					39516			00680	01051	01077	
DAY											
01											
02								L0.06	L0.39	0.27	*
03								0.19	L0.39	0.61	*
04								0.26	L0.39	0.46	*
05								0.13	L0.39	0.34	*
06	*L0.1	L0.31	L0.32	L0.64	L0.01	L0.08		L0.06		0.45	*
07											
08								0.08	L0.39	0.37	*
09								L0.06	L0.39	0.40	
10								0.09*	L0.39*	0.41*	*
11								0.09*	L0.39*	0.41*	*
12								L0.06	0.72	0.67	*
13											
14											
15								0.15	1.3	0.99	*
16								0.23	0.76	1.2	*
17								0.19	0.80	1.3	*
18								0.16	0.65	1.1	*
19								0.12	0.87	0.46	*
20											
21											
22											
23	*L0.1	L0.31	L0.32	L0.64	L0.01	L0.08		0.15	1.1	0.63	*
24								0.17	1.1	0.66	
25								0.09	0.50	0.44	*
26								L0.06	0.77	0.41	*
27								0.13	1.2	0.41	*
28											
29											
30								0.11	1.3	0.35	*
31								0.11	1.2	0.36	*
TL								2.45	12.69	12.7	
ME	L0.1	L0.31	L0.32	L0.64	L0.01	L0.08		0.11	1.7	0.58	*

*=NON DETERMINABLE QUANTITIES OF CYANIDE AMENABLE TO CHLORINATION

*=7-Day Average

DEPARTMENT OF NATURAL RESOURCES

STATE OF MICHIGAN

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

MONTH: February, 1989 # DAYS: 28

Day	Carbon Tetrachloride ug/L	2-Chloro-phenol ug/L	2,4-Di-chloro-phenol ug/L	2,4,6-Tri-chloro-phenol ug/L	Total PCB ug/L	Benzidine ug/L	Benzene ug/L	Cadmium ug/L	Lead ug/L	Silver ug/L	Cyanide Amenable to Chlorination ug/L
PN					39516			00680	01051	01077	
1								0.27	5.14	0.32	NDQ
2								0.3	4.9	0.37	NDQ
3								0.24	4.9	0.35	NDQ
4											
5											
6								0.21	7.3	0.31	NDQ
7								0.22	3.2	0.3	NDQ
8	L0.12	L0.31	L0.32	L0.64	L0.01	L0.08		0.25	2.87	0.29	NDQ
9								0.25	3.01	2.55	NDQ
10								0.21	3.01	0.44	NDQ
11								0.24	2.52	0.41	NDQ
12								0.21	2.2	0.43	NDQ
13								0.26	2.03	0.26	NDQ
14								0.23	2.02	0.32	NDQ
15								0.21	2.18	0.35	NDQ
16											
17											
18											
19								0.2	1.21	0.2	NDQ
20								0.2	0.89	0.17	NDQ
21	L0.12	L0.31	L0.32	1.69	L0.01	L0.08		0.3	2.05	0.24	NDQ
22								0.36	2.52	0.2	NDQ
23								0.3	2.78	0.19	NDQ
24											
25											
26											
27								0.12	0.4	0.18	NDQ
28								0.13	0.22	0.16	NDQ
TL				1.69			0	4.71	55.35	8.04	
ME	L0.12	L0.31	L0.32	0.845	L0.01	L0.08	ERR	0.24	2.77	0.40	NDQ

NOTE: * = 7 day average
NDQ = no determinable quantities of cyanide amenable to chlorination
L = below detectable limit

Certified V. Downey

DEPARTMENT OF NATURAL RESOURCES STATE OF MICHIGAN

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

MONTH: MARCH # DAYS: 31

Day	Carbon Tetrachloride ug/L	2-Chloro-phenol ug/L	2,4-Di-chloro-phenol ug/L	2,4,6-Tri-chloro-phenol ug/L	Total PCB ug/L	Benzidine ug/L	Benzene ug/L	Cadmium ug/L	Lead ug/L	Silver ug/L	Cyanide Amenable to Chlorination ug/L
PN					39516			00680	01051	01077	
1								0.27	3.75	0.42	NDQ
2								0.06	1.68	0.16	NDQ
3								0.07	1.18	0.21	NDQ
4											
5											
6								0.13	1.50	0.23	NDQ
7								0.13	0.77	0.31	NDQ
8								0.18	0.78	0.35	NDQ
9								0.17	0.73	0.64	NDQ
10	L0.12	L0.31	L0.32	L0.64	L0.01	L0.08	L0.20	0.22	1.25	0.49	NDQ
11											
12											
13								0.27	1.08	0.43	NDQ
14								0.28	0.89	0.50	NDQ
15								0.42	0.75	0.42	NDQ
16								0.25	1.02	0.57	NDQ
17	L0.12	L0.31	L0.32	L0.64	L0.01			0.21	0.70	0.30	NDQ
18											
19											
20								0.26	1.39	0.25	NDQ
21								0.26	0.84	1.29	NDQ
22								0.17	1.30	0.32	NDQ
23								0.28	0.84	0.49	NDQ
24								0.50	3.26	0.61	NDQ
25								0.33	2.22	0.94	NDQ
26								0.51	1.48	2.11	NDQ
27								0.43	1.36	0.46	NDQ
28								0.24	5.07	1.01	NDQ
29								0.25	4.16	0.57	NDQ
30											
31											
TL						0	0	5.39	38	13.37	0
ME	L0.12	L0.31	L0.32	L0.64	L0.01	0.00	ERR	0.26	1.65	0.57	0.00

NOTE: * = 7 day average
NDQ = no determinable quantities of cyanide amenable to chlorination
L = below detectable limit

DEPARTMENT OF NATURAL RESOURCES

STATE OF MICHIGAN

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

MONTH: APRIL, 1989 # DAYS: 30

Day	Carbon Tetrachloride ug/L	2-Chloro-phenol ug/L	2,4-Di-chloro-phenol ug/L	2,4,6-Tri-chloro-phenol ug/L	Total PCB ug/L	Benzidine ug/L	Benzene ug/L	Cadmium ug/L	Lead ug/L	Silver ug/L	Cyanide Amenable to Chlorination ug/L
PN					39516			00680	01051	01077	
1											
2								0.22	3.00	0.62	NDQ
3								0.24	2.90	0.45	NDQ
4								0.23	2.30	0.45	NDQ
5								0.28	2.10	0.51	NDQ
6								0.20	1.70	0.45	NDQ
7											
8											
9								0.11	0.57	0.52	NDQ
10								0.25	0.45	0.53	NDQ
11								0.16	0.49	0.72	NDQ
12	L0.1	L0.31	L0.39	L0.64	L0.01	L0.08		0.15	0.65	0.87	NDQ
13								0.13	L0.39	0.66	NDQ
14											
15											
16											
17								0.08	1.78	1.04	NDQ
18								L0.06	1.27	0.31	NDQ
19								0.07	0.77	0.22	NDQ
20	**	**	**	**	**	**		L0.06	0.54	0.12	NDQ
21								L0.06	0.57	0.20	NDQ
22								0.06	0.57	0.14	NDQ
23								0.07	0.91	0.17	NDQ
24								0.09	1.13	0.16	NDQ
25								0.10	0.40	0.17	NDQ
26								0.15	0.56	0.61	NDQ
27											
28											
29											
30											
TL								2.59	22.66	8.92	0.0
ME	L0.1	L0.31	L0.39	L0.64	L0.01	L0.08		0.13	1.13	0.45	0.0
MAX	L0.1	L0.31	L0.39	L0.64	L0.01	L0.08		0.28	3.00	1.04	0.00

NOTE: ** = NO ANALYSIS. THESE SAMPLES WERE LOST IN THE UPS SYSTEM AND NEVER REACHED THE CONTRACT LABORATORY.
NDQ = *no determinable quantities of cyanide amenable to chlorination*
L = below detectable limit

DEPARTMENT OF NATURAL RESOURCES

STATE OF MICHIGAN

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

MONTH: MAY, 1989 # DAYS: 31

Day	Carbon Tetrachloride ug/L	2-Chloro-phenol ug/L	2,4-Di-chloro-phenol ug/L	2,4,6-Tri-chloro-phenol ug/L	Total PCB ug/L	Benzidine ug/L	Benzene ug/L	Cadmium ug/L	Lead ug/L	Silver ug/L	Cyanide Amenable to Chlorination ug/L
PN					39516			00680	01051	01077	
1								0.19	9.7	0.36	NDQ
2								0.08	2.0	0.99	NDQ
3								0.06	1.5	0.42	NDQ
4								L0.06	2.2	0.39	NDQ
5								0.12	1.8	0.36	NDQ
6											
7								0.22	2.1	0.33	NDQ
8								0.19	0.9	0.40	NDQ
9								0.10	1.6	0.27	NDQ
10								L0.06	1.4	0.22	0.8
11								0.06	1.0	0.26	NDQ
12											
13											
14								0.09	1.3	0.25	NDQ
15	L0.12	L0.31	2.00	L0.64				0.07	1.2	0.18	NDQ
16								0.06	1.8	0.23	NDQ
17								0.08	1.4	0.23	0.5
18					L0.01	L0.08		0.09	2.6	0.25	NDQ
19											
20											
21								0.14	1.5	0.21	0.2
22	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08		L0.06	1.0	0.27	NDQ
23								L0.06	1.2	0.22	NDQ
24								L0.06	1.4	0.28	NDQ
25								L0.06	1.4	0.30	NDQ
26											
27											
28											
29								L0.06	0.8	0.35	NDQ
30								L0.06	0.8	0.28	NDQ
31								L0.06	0.8	0.36	NDQ
TL			2.00					1.55	32.4	7.41	1.5
ME	L0.12	L0.31	1.00	L0.64	L0.01	L0.08		0.07	1.4	0.32	0.1
MAX	L0.12	L0.31	2.00	L0.64	L0.01	L0.08		0.22	2.6	0.99	0.8

NOTE: * = 7 day average
NDQ = no determinable quantities of cyanide amenable to chlorination
L = below detectable limit

DEPARTMENT OF NATURAL RESOURCES

STATE OF MICHIGAN

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

MONTH: JUNE, 1989 # DAYS: 30

Day	Carbon Tetrachloride ug/L	2-Chloro-phenol ug/L	2,4-Di-chloro-phenol ug/L	2,4,6-Tri-chloro-phenol ug/L	Total PCB ug/L	Benzidine ug/L	Benzene ug/L	Cadmium ug/L	Lead ug/L	Silver ug/L	Cyanide Amenable to Chlorination ug/L
PN					39516			00680	01051	01077	
1								L0.06	1.8	0.28	NDQ
2								L0.06	1.1	0.21	NDQ
3											
4								L0.06	0.4	0.34	3.0
5								0.23	1.9	0.09	NDQ
6								0.11	1.8	0.07	NDQ
7	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08	L0.20	0.16	1.2	0.08	NDQ
8								0.14	1.3	0.12	NDQ
9											
10											
11								0.20	2.6	0.19	NDQ
12								0.19	2.0	0.20	0.9
13								0.11	2.5	0.21	NDQ
14								0.21	1.2	0.11	NDQ
15	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08		2.36	1.8	0.17	NDQ
16											
17								0.17	2.1	0.08	
18								0.18	1.2	0.29	NDQ
19								0.17	1.6	0.17	NDQ
20								0.11	68.4	0.12	NDQ
21								0.14	1.7	0.11	NDQ
22											NDQ
23											
24											
25								0.19	1.8	0.09	NDQ
26								0.12	3.2	0.11	NDQ
27								0.08	4.4	0.08	NDQ
28								0.14	2.3	0.10	NDQ
29								0.11	1.8	0.08	NDQ
30											
TL	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08	L0.20	5.12	108.10	3.30	3.9
ME	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08	L0.20	0.23	4.91	0.15	0.2
MAX	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08	L0.20	2.36	68.4	0.34	3.0

NOTE: * = 7 day average
NDQ = no determinable quantities of cyanide amenable to chlorination
L = below detectable limit

DEPARTMENT OF NATURAL RESOURCES

STATE OF MICHIGAN

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

MONTH: JULY, 1989 # DAYS: 31

Day	Carbon Tetrachloride ug/L	2-Chloro-phenol ug/L	2,4-Di-chloro-phenol ug/L	2,4,6-Tri-chloro-phenol ug/L	Total PCB ug/L	Benzidine ug/L	Benzene ug/L	Cadmium ug/L	Lead ug/L	Silver ug/L	Cyanide Amenable to Chlorination ug/L
PN					39516			00680	01051	01077	
1											
2								1.20	1.0	0.12	NDQ
3								1.27	2.0	0.32	NDQ
4								0.27	2.2	0.33	NDQ
5								0.16	1.4	0.50	NDQ
6								0.15	1.2	0.30	NDQ
7											
8											
9								0.07	1.6	0.27	
10		L0.12	L0.31	L0.39	L0.64	L0.01	L0.08	0.16	0.8	0.18	NDQ
11								0.07	0.9	0.23	NDQ
12								0.06	0.8	0.23	NDQ
13								0.15	1.2	0.18	NDQ
14											NDQ
15											
16								L0.06	1.1	0.20	NDQ
17		L0.12	L0.31	L0.39	L0.64	L0.01	L0.08	0.12	1.4	0.23	NDQ
18								0.09	L0.4	0.25	NDQ
19								0.09	0.7	0.34	NDQ
20								0.10	0.5	0.30	NDQ
21											
22											
23								L0.06	0.7	0.46	NDQ
24								0.10	4.2	0.59	NDQ
25								0.10	1.2	0.73	13.5
26								0.73	2.5	0.58	NDQ
27								1.11	2.5	0.86	0.1
28											
29											
30								L0.06	1.1	0.43	NDQ
31								L0.06	1.1	0.31	
TL		L0.12	L0.31	L0.39	L0.64	L0.01	L0.08	6.00	38.10	7.94	13.6
ME		L0.12	L0.31	L0.39	L0.64	L0.01	L0.08	0.27	1.37	0.36	0.6
MAX		L0.12	L0.31	L0.39	L0.64	L0.01	L0.08	1.27	4.2	0.86	13.5

NOTE: * = 7 day average
NDQ = no determinable quantities of cyanide amenable to chlorination
L = below detectable limit

DEPARTMENT OF NATURAL RESOURCES

STATE OF MICHIGAN

Cortland V. Overmyer

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

MONTH: AUGUST 1989 # DAYS: 31

Day	Carbon Tetrachloride ug/L	2-Chloro-phenol ug/L	2,4-Di-chloro-phenol ug/L	2,4,6-Tri-chloro-phenol ug/L	Total PCB ug/L	Benzidine ug/L	Benzene ug/L	Cadmium ug/L	Lead ug/L	Silver ug/L	Cyanide Amenable to Chlorination ug/L
PN					39516			00680	01051	01077	
1	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08		0.19	0.4	0.20	1.2
2								0.11	0.8	0.23	0.4
3								0.12	0.4	0.20	0.2
4											
5											
6								2.70	0.4	0.28	6.1
7								0.13	0.4	0.20	1.4
8								0.10	0.4	0.20	1.0
9								0.10	0.5	0.19	2.0
10								0.07	0.6	0.18	0.9
11											
12											
13								0.30	0.7	0.19	NDQ
14	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08		0.25	0.3	0.34	NDQ
15								0.16	0.5	0.28	NDQ
16								0.21	0.4	0.48	
17								0.27	1.7	0.65	NDQ
18											NDQ
19											
20								0.22	0.8	0.70	NDQ
21								0.23	1.1	0.50	NDQ
22								0.20	2.4	0.44	NDQ
23								0.14	0.9	0.41	2.5
24								0.10	0.7	0.36	0.4
25											
26											
27								0.21	1.1	0.39	NDQ
28								0.21	1.1	0.46	NDQ
29								0.08	0.7	0.46	NDQ
30								0.12	0.5	0.30	NDQ
31								0.09	0.6	0.28	1.5
TL	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08		6.31	17.40	7.92	17.6
ME								0.27	0.76	0.34	0.8
MAX								2.7	2.4	0.7	6.1

NOTE: * = 7 day average
NDQ = no determinable quantities of cyanide amenable to chlorination
L = below detectable limit

DEPARTMENT OF NATURAL RESOURCES

STATE OF MICHIGAN

Cortland V. Bemiger

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

MONTH: SEPTEMBER 1989 # DAYS: 30

Day	Carbon Tetrachloride ug/L	2-Chloro-phenol ug/L	2,4-Di-chloro-phenol ug/L	2,4,6-Tri-chloro-phenol ug/L	Total PCB ug/L	Benzidine ug/L	Benzene ug/L	Cadmium ug/L	Lead ug/L	Silver ug/L	Cyanide Amenable to Chlorination ug/L
PN					39516			00680	01051	01077	
1											
2											
3											
4								0.13	0.4	0.22	1.6
5								0.11	0.4	0.19	NDQ
6								0.20	0.8	0.24	NDQ
7	L0.12	L0.31	L0.39	L0.64	L0.01	*11.00	L1.00	0.27	0.9	0.24	NDQ
8								0.30	2.8	0.27	NDQ
9								0.14	1.1	0.20	NDQ
10								0.13	1.1	0.21	2.0
11								0.17	1.3	0.29	3.5
12								0.13	1.2	0.26	1.0
13								0.14	1.4	0.42	1.9
14											
15											
16								0.14	0.7	0.29	NDQ
17								0.08	L0.39	0.24	NDQ
18								0.08	0.5	0.24	NDQ
19	**	**	**	**	**	**		0.08	0.5	0.23	0.4
20								0.09	0.4	0.18	NDQ
21											
22											
23											
24											
25								L0.06	0.8	0.17	1.7
26								0.06	0.8	0.17	3.6
27								L0.06	0.5	0.17	1.1
28								0.16	0.8	0.26	0.9
29								0.27	L0.39	0.16	NDQ
30											
TL	L0.12	L0.31	L0.39	L0.64	L0.01	11.00	L1.00	2.68	16.40	4.65	17.8
ME	L0.12	L0.31	L0.39	L0.64	L0.01	11.00	L1.00	0.13	0.82	0.23	0.9
MAX	L0.12	L0.31	L0.39	L0.64	L0.01	11.00	L1.00	0.3	2.8	0.42	3.6

NOTE: * = Questionable Benzidine result. We are checking the validity of this number.
NDQ = no determinable quantities of cyanide amenable to chlorination
L = below detectable limit
** = Organic analysis results not yet received from ASI Environmental.

DEPARTMENT OF NATURAL RESOURCES STATE OF MICHIGAN

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

MONTH: OCTOBER 1989 # DAYS: 31

Day	Carbon Tetrachloride ug/L	2-Chloro-phenol ug/L	2,4-Di-chloro-phenol ug/L	2,4,6-Tri-chloro-phenol ug/L	Total PCB ug/L	Benzidine ug/L	Benzene ug/L	Cadmium ug/L	Lead ug/L	Silver ug/L	Cyanide Amenable to Chlorination ug/L
PN					39516			00680	01051	01077	
1								L0.06	L0.39	0.20	2.1
2								0.12	0.2	0.63	NDQ
3								0.11	L0.39	0.20	NDQ
4								0.09	1.2	0.16	NDQ
5	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08		0.10	0.6	0.23	2.7
6											
7											
8								0.06	L0.39	0.27	NDQ
9								0.07	L0.39	0.39	NDQ
10								0.10	L0.39	0.37	NDQ
11								0.06	0.4	0.59	NDQ
12								0.08	0.4	0.44	NDQ
13											
14											
15								0.06	0.6	0.43	NDQ
16								0.08	5.3	0.17	NDQ
17								L0.06	4.2	0.20	2.4
18								L0.06	4.6	0.41	NDQ
19								L0.06	4.6	0.34	NDQ
20											
21											
22								L0.06	4.3	0.25	NDQ
23								0.09	4.1	0.75	NDQ
24								L0.06	3.4	0.31	NDQ
25								L0.06	4.6	0.26	0.5
26								0.66	6.9	0.36	0.7
27											
28											
29								0.22	3.3	0.84	NDQ
30	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08		5.27	1.6	0.65	NDQ
31								0.21	2.4	0.71	NDQ
TL	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08		7.38	52.65	9.16	8.3
ME	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08		0.32	2.29	0.40	0.4
MAX	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08		5.27	6.9	0.84	2.7

NOTE: * = 7 day average
NDQ = no determinable quantities of cyanide amenable to chlorination
L = below detectable limit

DEPARTMENT OF NATURAL RESOURCES STATE OF MICHIGAN

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

MONTH: NOVEMBER 1989 # DAYS: 30

Day	Carbon Tetrachloride ug/L	2-Chloro-phenol ug/L	2,4-Di-chloro-phenol ug/L	2,4,6-Tri-chloro-phenol ug/L	Total PCB ug/L	Benzidine ug/L	Benzene ug/L	Cadmium ug/L	Lead ug/L	Silver ug/L	Cyanide Amenable to Chlorination ug/L
PN					39516			00680	01051	01077	
1	L0.12	L0.31	L0.39	L0.64	L0.01	*		0.15	2.0	0.52	0.9
2								0.22	2.2	0.54	0.9
3											
4											
5								0.17	1.5	0.37	NDQ
6								0.20	1.0	0.29	NDQ
7								0.13	1.0	0.37	NDQ
8								0.18	0.8	0.30	NDQ
9								0.15	0.8	0.27	NDQ
10											
11											
12								0.21	0.7	0.30	NDQ
13								0.18	0.5	0.21	NDQ
14								0.14	0.8	0.31	
15	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08		0.17	0.5	0.29	NDQ
16								0.12	0.4	0.22	NDQ
17											NDQ
18											
19								0.21	2.4	0.54	NDQ
20								0.11	1.6	0.47	NDQ
21								0.09	1.6	0.37	NDQ
22								0.12	1.1	0.35	NDQ
23								0.09	1.2	0.68	NDQ
24											
25											
26								L0.06	0.6	1.20	NDQ
27								L0.06	1.9	0.37	NDQ
28								0.09	0.5	0.41	NDQ
29								L0.06	0.6	0.41	1.0
30								0.11	0.6	0.25	1.5
TL	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08		2.84	24.30	9.04	4.2
ME	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08		0.13	1.10	0.41	0.2
MAX	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08		0.22	2.40	1.20	1.5

NOTE: * = No result. Refrigerator malfunction at contract laboratory and sample for 11-01-89 froze and broke.
NDQ = no determinable quantities of cyanide amenable to chlorination
L = below detectable limit

DEPARTMENT OF NATURAL RESOURCES

STATE OF MICHIGAN

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

MONTH: DECEMBER 1989 # DAYS: 31

Day	Carbon Tetrachloride ug/L	2-Chloro-phenol ug/L	2,4-Di-chloro-phenol ug/L	2,4,6-Tri-chloro-phenol ug/L	Total PCB ug/L	Benzidine ug/L	Benzene ug/L	Cadmium ug/L	Lead ug/L	Silver ug/L	Cyanide Amenable to Chlorination ug/L
PN					39516			00680	01051	01077	
1											
2											
3								0.11	0.4	0.17	NDQ
4	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08	L0.20	0.12	L0.4	0.25	NDQ
5								0.09	1.0	0.27	NDQ
6								0.07	1.1	0.27	NDQ
7								L0.36	1.2	0.28	0.5
8											
9											
10								0.09	1.6	0.30	NDQ
11								0.12	1.4	0.22	NDQ
12								0.10	1.7	0.31	NDQ
13	L0.12	L0.31	L0.39	L0.64	L0.01			0.09	1.7	0.26	NDQ
14								0.06	2.5	0.35	NDQ
15											
16											
17								0.12	1.4	0.28	NDQ
18								0.11	1.5	0.52	NDQ
19								0.08	1.0	0.51	NDQ
20								0.13	0.9	0.41	NDQ
21						L0.08		0.13	0.9	0.30	NDQ
22											
23											
24											
25											
26								0.20	1.0	0.31	0.8
27								0.18	1.2	0.57	NDQ
28								0.21	1.0	0.53	NDQ
29								0.16	0.7	0.47	NDQ
30								0.14	1.4	0.34	NDQ
31											
TL	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08	L0.20	2.31	23.60	6.92	1.3
ME	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08	L0.20	0.12	1.18	0.35	0.1
MAX	L0.12	L0.31	L0.39	L0.64	L0.01	L0.08	L0.20	0.21	2.5	0.57	0.8

NOTE: + = 7 day average
NDQ = no determinable quantities of cyanide amenable to chlorination
L = below detectable limit

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

MARCH , 1990

Day	Total PCB ug/L	Cadmium ug/L	Silver ug/L	Cyanide Amenable to Chlorination ug/L
PN	39516	00680	01077	
1				NDQ
2				NDQ
3				NDQ
4				NDQ
5				NDQ
6				NDQ
7				NDQ
8				NDQ
9				NDQ
10				NDQ
11				NDQ
12				NDQ
13				NDQ
14	L0.01			NDQ
15				0.3
16				NDQ
17				NDQ
18				NDQ
19				14.8
20				NDQ
21				0.5
22				0.9
23				NDQ
24				NDQ
25				1.1
26				0.9
27		L0.2	0.26	1.0
28				1.6
29				1.7
30				0.1
31				NDQ
TL	L0.01	L0.2	0.26	22.9
ME	L0.01	L0.2	0.26	0.7
MAX	L0.01	L0.2	0.26	14.8

NOTE: * = 7 day average
NDQ = no determinable quantities
L = below detectable limit

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

JUNE , 1990

Day	Total PCB ug/L	Cadmium ug/L	Silver ug/L	Cyanide Amenable to Chlorination ug/L
PN	39516	00680	01077	
1				NDQ
2				0.7
3				NDQ
4				0.2
5				0.1
6	L0.01			NDQ
7				0.7
8				NDQ
9				NDQ
10				NDQ
11		0.18	0.49	NDQ
12				NDQ
13				NDQ
14				NDQ
15				NDQ
16				NDQ
17				NDQ
18				NDQ
19				NDQ
20				NDQ
21				NDQ
22				NDQ
23				NDQ
24				NDQ
25				NDQ
26				1.7
27				0.9
28				0.4
29				NDQ
30				NDQ
TL	L0.01	0.18	0.49	4.7
ME	L0.01	0.18	0.49	0.2
MAX	L0.01	0.18	0.49	1.7

NOTE: * = 7 day average
NDQ = no determinable quantities
L = below detectable limit

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

JULY , 1990

QUARTERLY

Day	Influent Total PCB ug/L	Sludge Total PCB ug/L	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	00680	01077	
1						NDQ
2						NDQ
3						NDQ
4						NDQ
5						NDQ
6						NDQ
7						NDQ
8						1.5
9						2.3
10						2.4
11						1.7
12	L0.2					1.8
13						1.1
14						NDQ
15						0.8
16						0.1
17						1.5
18						1.4
19						0.8
20						NDQ
21						NDQ
22						NDQ
23						1.5
24						2.9
25						NDQ
26						2.4
27						NDQ
28						NDQ
						0.7
						2.3
						1.8
TL	0.00	0.00	0.00	0.00	0.00	27.1
ME	ERR	ERR	ERR	ERR	ERR	0.9
MAX	ERR	ERR	ERR	ERR	ERR	2.9

NOTE: * = 7 day average
NDQ = no determinable quantities
L = below detectable limit

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

SEPTEMBER, 1990

QUARTERLY

Day	Influent Total PCB ug/L	Sludge Total PCB * mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	00680	01077	
1						NDQ
2		L27.0				NDQ
3		L27.0				NDQ
4		L27.0		L0.2	0.21	NDQ
5		L27.0				0.8
6		L27.0				0.4
7		L27.0				NDQ
8		L27.0				NDQ
9		L27.0				NDQ
10		L27.0				0.1
11		L27.0				0.1
12		L27.0				0.2
13		L27.0				NDQ
14		L27.0				NDQ
15		L27.0				NDQ
16						NDQ
17						0.9
18						NDQ
19						NDQ
20						0.6
21						NDQ
22						NDQ
23						NDQ
24	L0.065		L0.065			NDQ
25						1.6
26						NDQ
27						6.4
28						NDQ
29						NDQ
30						NDQ
TL	L0.065	L27.0	L0.065	L0.2	0.21	11.1
ME	L0.065	L27.0	L0.065	L0.2	0.21	0.4
MAX	L0.065	L27.0	L0.065	L0.2	0.21	6.4

NOTE: * = Dry weight basis, 2 week grab composite sample.
NDQ = no determinable quantities
L = below detectable limit

Cortland V. Dreyer

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

DECEMBER , 1990

QUARTERLY

Day	Influent Total PCB ug/L	Sludge Total PCB * mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	00680	01077	
1		L1.0				NDQ
2		*				NDQ
3		*				NDQ
4		*				NDQ
5		*				NDQ
6		*				NDQ
7		*				NDQ
8		*				NDQ
9		*				NDQ
10	L10.0		L1.0			NDQ
11						1.8
12				0.23	0.76	8.6
13						NDQ
14						NDQ
15						NDQ
16						NDQ
17						4.1
18						0.9
19						4.5
20						1.3
21						NDQ
22						NDQ
23						NDQ
24						NDQ
25						NDQ
26						NDQ
27						NDQ
28						NDQ
29						NDQ
30						NDQ
31						NDQ
TL	L10.0	L1.0	L1.0	0.23	0.76	21.2
ME	L10.0	L1.0	L1.0	0.23	0.76	0.7
MAX	L10.0	L1.0	L1.0	0.23	0.76	8.6

NOTE: * = Dry weight basis, 2 week grab composite sample (11-27-90 TO 12-09-90
NOTE: THE DETECTION LIMIT FOR THE INFLUENT AND ASE TOTAL PCB ANALYSIS IS HIGHER THAN EXPECTED DUE TO POSSIBLE MATRIX INTERFERENCE.
NDQ = no determinable quantities

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

Crtt. 2 V.S

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

MARCH , 1991

QUARTERLY

Day	Influent Total PCB ug/L	Sludge Total PCB * mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	ØØ68Ø	Ø1Ø77	
1						NDQ
2						NDQ
3						NDQ
4						NDQ
5						NDQ
6	BDL	L7.1	BDL			NDQ
7						1.3
8						NDQ
9						NDQ
1Ø						NDQ
11						NDQ
12						NDQ
13						NDQ
14						Ø.4
15						NDQ
16						NDQ
17						NDQ
18						NDQ
19						NDQ
2Ø						1.5
21						NDQ
22						Ø.7
23						NDQ
24						Ø.1
25						NDQ
26				Ø.2Ø	Ø.96	Ø.2
27						1.3
28						NDQ
29						NDQ
3Ø						NDQ
31						NDQ
TL	See	L7.1	See	Ø.2Ø	Ø.96	5.6
ME	Below	L7.1	Below	Ø.2Ø	Ø.96	Ø.2
MAX		L7.1		Ø.2Ø	Ø.96	1.5

NOTE: * = Dry weight basis, 2 week grab composite sample (3/Ø6/91 to 3/19/91).
NDQ = no determinable quantities
BDL = Below Detectable Limit.
= For Aroclor-1Ø16, -1221, -1232, -1242, -1248 = LØ.5Ø ug/L.
= For Aroclor-1254, -126Ø = L1.Ø ug/L.

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

Cortland V. Dewey

JUNE , 1991

QUARTERLY

Day	Influent Total PCB ug/L	Sludge Total PCB * mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	00680	01077	
1		L1.0				NDQ
2						1.4
3						6.1
4						2.5
5						2.9
6						2.9
7						5.8
8						NDQ
9						NDQ
10	BDL		BDL			NDQ
11						0.3
12						4.2
13						NDQ
14						0.3
15						NDQ
16						NDQ
17				L0.2	L0.2	1.3
18						2.4
19						1.7
20						5.3
21						NDQ
22						NDQ
23						NDQ
24						6.9
25						NDQ
26						NDQ
27						1.7
28						1.6
29						1.4
30						1.5
TL	See Below	L1.0	See Below	L0.2	L0.2	50.0
ME		L1.0		L0.2	L0.2	1.7
MAX		L1.0		L0.2	L0.2	6.9

NOTE: * = Dry weight basis, 2 week grab composite sample -
= (5/29/91 TO 6/11/91).
NDQ = no determinable quantities
BDL = below detectable limit
= For Aroclor-1016, -1221, -1232, -1242, -1248 -
= L5.0 ug/L (ASE) & L50.0 ug/L (I).
= For Aroclor-1254, -1260 = L10.0 ug/L (ASE) & L100.0 ug/L (I).

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

SEPTEMBER, 1991

QUARTERLY

Day	Influent Total PCB ug/L	Sludge Total PCB * mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	00680	01077	
1						NDQ
2						NDQ
3						NDQ
4		L1.0				NDQ
5						NDQ
6						16.8
7						3.0
8						NDQ
9						14.7
10						4.0
11						NDQ
12						8.1
13						NDQ
14						NDQ
15						NDQ
16						5.2
17						NDQ
18	L0.05		L0.05			NDQ
19						NDQ
20						NDQ
21						0.3
22						NDQ
23						NDQ
24						0.8
25				0.2	0.3	NDQ
26						NDQ
27						NDQ
28						NDQ
29						NDQ
30						NDQ
TL	L0.05	L1.0	L0.05	0.2	0.3	52.9
ME	L0.05	L1.0	L0.05	0.2	0.3	1.8
MAX	L0.05	L1.0	L0.05	0.2	0.3	16.8

NOTE: * = Dry weight basis -
2 week grab composite sample (9/04/91 - 9/17/91).
NDQ = no determinable quantities
L = below detectable limit

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

DECEMBER , 1991

QUARTERLY

Day	Influent Total PCB ug/L	Sludge Total PCB * mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	00680	01077	
1		L1.0				NDQ
2						NDQ
3	L1.0		L1.0			NDQ
4						NDQ
5						NDQ
6						NDQ
7						NDQ
8						NDQ
9				L0.2	0.3	NDQ
10						NDQ
11						1.2
12						NDQ
13						NDQ
14						0.9
15						NDQ
16						NDQ
17						NDQ
18						NDQ
19						NDQ
20						NDQ
21						NDQ
22						NDQ
23						NDQ
24						NDQ
25						NDQ
26						NDQ
27						NDQ
28						NDQ
29						NDQ
30						NDQ
31						NDQ
L	L1.0	L1.0	L1.0	L0.2	0.3	2.1
E	L1.0	L1.0	L1.0	L0.2	0.3	0.1
X	L1.0	L1.0	L1.0	L0.2	0.3	1.2

TE: * = Dry weight basis, 2 week grab composite sample (11/27/91 - 12/11/91).
NDQ = no determinable quantities
L = below detectable limit

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

MARCH , 1992

QUARTERLY

Day	Influent Total PCB ug/L	Sludge Total PCB * mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	00680	01077	
1						NDQ
2						NDQ
3						NDQ
4						NDQ
5		L1.0				NDQ
6						NDQ
7						NDQ
8						NDQ
9						NDQ
10						NDQ
11						NDQ
12	L1.0		L1.0			NDQ
13						NDQ
14						2.2
15						0.1
16						0.7
17						NDQ
18						NDQ
19						NDQ
20						NDQ
21						NDQ
22						NDQ
23						NDQ
24						NDQ
25						NDQ
26						NDQ
27						NDQ
28						NDQ
29						NDQ
30				0.2	0.6	NDQ
31						NDQ
TL	L1.0	L1.0	L1.0	0.2	0.6	3.1
ME	L1.0	L1.0	L1.0	0.2	0.6	0.1
MAX	L1.0	L1.0	L1.0	0.2	0.6	2.2

NOTE: * = Dry weight basis, 2 week grab composite sample.
NDQ = no determinable quantities
L = below detectable limit

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

JUNE , 1992

QUARTERLY

Day	Influent Total PCB ug/L	Sludge Total PCB * mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	00680	01077	
1						NDQ
2						NDQ
3						NDQ
4						NDQ
5						NDQ
6						NDQ
7						NDQ
8						NDQ
9		L6.2				NDQ
10						1.1
11						NDQ
12						NDQ
13						NDQ
14						NDQ
15	L0.5		L0.5			NDQ
16						NDQ
17				L0.2	0.32	NDQ
18						NDQ
19						NDQ
20						NDQ
21						NDQ
22						NDQ
23						NDQ
24						NDQ
25						NDQ
26						NDQ
27						0.6
28						NDQ
29						NDQ
30						0.4
TL	L0.5	L6.2	L0.5	L0.2	0.32	2.1
ME	L0.5	L6.2	L0.5	L0.2	0.32	0.1
MAX	L0.5	L6.2	L0.5	L0.2	0.32	1.1

NOTE: * = Dry weight basis, 2 week grab composite sample.
NDQ = no determinable quantities
L = below detectable limit

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

SEPTEMBER, 1992

QUARTERLY

Day	Influent Total PCB ug/L	Sludge Total PCB * mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	ØØ68Ø	Ø1Ø77	
1		LØ.33				2.5
2						NDQ
3						NDQ
4						NDQ
5						NDQ
6						NDQ
7						NDQ
8						NDQ
9						NDQ
10						NDQ
11						NDQ
12						NDQ
13						NDQ
14						NDQ
15				LØ.2Ø	Ø.34	NDQ
16						NDQ
17	LØ.1		LØ.1			NDQ
18						NDQ
19						NDQ
20						NDQ
21						NDQ
22						NDQ
23						NDQ
24						NDQ
25						NDQ
26						NDQ
27						NDQ
28						NDQ
29						NDQ
30						NDQ
TL	LØ.1	LØ.33	LØ.1	LØ.2Ø	Ø.34	2.5
ME	LØ.1	LØ.33	LØ.1	LØ.2Ø	Ø.34	Ø.1
MAX	LØ.1	LØ.33	LØ.1	LØ.2Ø	Ø.34	2.5

NOTE: * = Dry weight basis, 2 week grab composite sample.
NDQ = no determinable quantities
L = below detectable limit

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

DECEMBER , 1992

QUARTERLY

Day	Influent Total PCB ug/L	Sludge Total PCB * mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	00680	01077	
1		L0.330				NDQ
2						NDQ
3						NDQ
4						NDQ
5						0.1
6				0.26	1.34	NDQ
7						NDQ
8	L0.1		L0.1			NDQ
9						NDQ
10						2.4
11						NDQ
12						NDQ
13						NDQ
14						NDQ
15						NDQ
16						NDQ
17						NDQ
18						NDQ
19						NDQ
20						NDQ
21						NDQ
22						NDQ
23						NDQ
24						NDQ
25						NDQ
26						NDQ
27						NDQ
28						2.9
29						NDQ
30						NDQ
31						NDQ
TL	L0.1	L0.330	L0.1	0.26	1.34	5.5
ME	L0.1	L0.330	L0.1	0.26	1.34	0.2
MAX	L0.1	L0.330	L0.1	0.26	1.34	2.9

NOTE: * = Dry weight basis, 2 week grab composite sample.
NDQ = no determinable quantities
L = below detectable limit

Walter R Thompson

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

MARCH , 1993

QUARTERLY

Day	Influent Total PCB ug/L	Sludge Total PCB * ug/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	00680	01077	
1		L330				NDQ
2						NDQ
3						NDQ
4						NDQ
5						NDQ
6						NDQ
7						NDQ
8	L0.1		L0.1			NDQ
9				0.42	0.63	NDQ
10						NDQ
11						NDQ
12						NDQ
13						NDQ
14						NDQ
15						NDQ
16						NDQ
17						NDQ
18						NDQ
19						NDQ
20						NDQ
21						NDQ
22						NDQ
23						NDQ
24						NDQ
25						NDQ
26						NDQ
27						NDQ
28						NDQ
29						NDQ
30						NDQ
31						NDQ
TL	L0.1	L330	L0.1	0.42	0.63	0.0
ME	L0.1	L330	L0.1	0.42	0.63	0.0
MAX	L0.1	L330	L0.1	0.42	0.63	0.0

NOTE: * = Dry weight basis, 2 week grab composite sample.
NDQ = no determinable quantities
L = below detectable limit

Walter K Thompson

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

JUNE , 1993

QUARTERLY

Day	Influent Total PCB ug/L	Sludge Total PCB * ug/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	00680	01077	
1						NDQ
2						NDQ
3						NDQ
4						NDQ
5						NDQ
6		L330				NDQ
7						NDQ
8						NDQ
9						NDQ
10						NDQ
11						NDQ
12						NDQ
13						NDQ
14	L0.1		L0.1			NDQ
15				L0.2	0.37	NDQ
16						NDQ
17						NDQ
18						NDQ
19						NDQ
20						NDQ
21						NDQ
22						NDQ
23						NDQ
24						NDQ
25						NDQ
26						NDQ
27						NDQ
28						NDQ
29						NDQ
30						NDQ
TL	L0.1	L330	L0.1	L0.2	0.37	0.0
ME	L0.1	L330	L0.1	L0.2	0.37	0.0
MAX	L0.1	L330	L0.1	L0.2	0.37	0.0

NOTE: * = Dry weight basis, 2 week grab composite sample.
NDQ = no determinable quantities
L = below detectable limit

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

SEPTEMBER, 1993

QUARTERLY

Day	Influent Total PCB ug/L	Sludge Total PCB * ug/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	00680	01077	
1		L330				NDQ
2						NDQ
3						NDQ
4						NDQ
5						NDQ
6						NDQ
7						NDQ
8						NDQ
9						NDQ
10						NDQ
11						NDQ
12						NDQ
13						NDQ
14	L0.1		L0.1			NDQ
15						NDQ
16						NDQ
17						NDQ
18						NDQ
19						NDQ
20						NDQ
21						NDQ
22						NDQ
23						NDQ
24						NDQ
25						NDQ
26						NDQ
27						NDQ
28				0.3	0.2	NDQ
29						NDQ
30						NDQ
TL	L0.1	L330	L0.1	0.3	0.2	0.0
ME	L0.1	L330	L0.1	0.3	0.2	0.0
AX	L0.1	L330	L0.1	0.3	0.2	0.0

NOTE: * = Dry weight basis, 2 week grab composite sample (8/29/93 - 9/11/93).
NDQ = no determinable quantities
L = below detectable limit

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

DECEMBER , 1993

QUARTERLY

Day	Influent Total PCB ug/L	Sludge Total PCB * ug/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	00680	01077	
1		L330				NDQ
2						NDQ
3						NDQ
4						NDQ
5						NDQ
6						NDQ
7				0.51	0.25	NDQ
8	L0.01		L0.01			NDQ
9						NDQ
10	L0.1		L0.1			NDQ
11						NDQ
12						NDQ
13						NDQ
14						NDQ
15						NDQ
16						NDQ
17						NDQ
18						NDQ
19						NDQ
20						NDQ
21						NDQ
22						NDQ
23						NDQ
24						NDQ
25						NDQ
26						NDQ
27						NDQ
28						NDQ
29						NDQ
30						NDQ
31						NDQ
TL	L0.01	L330	L0.01	0.51	0.25	0.0
ME	L0.01	L330	L0.01	0.51	0.25	0.0
MAX	L0.01	L330	L0.01	0.51	0.25	0.0

NOTE: * = Dry weight basis, 2 week grab composite sample from 11/25/93 To 12/08/93.
NDQ = no determinable quantities
L = below detectable limit

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

MARCH , 1994

QUARTERLY

Day	Influent Total PCB ug/L	BFP Cake Total PCB * ug/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	00680	01077	
1						NDQ
2	L0.01	L330**	L0.01	0.44	0.47	NDQ
3						NDQ
4						NDQ
5						NDQ
6						NDQ
7						NDQ
8						NDQ
9						NDQ
10						NDQ
11						NDQ
12						NDQ
13						NDQ
14						NDQ
15						NDQ
16						NDQ
17						NDQ
18						NDQ
19						NDQ
20						NDQ
21						NDQ
22						NDQ
23						NDQ
24						NDQ
25						NDQ
26						NDQ
27						NDQ
28						NDQ
29						NDQ
30						NDQ
31						NDQ
TL						0.0
ME						0.0
MAX						0.0

NOTE: * = Dry weight basis, 2 week grab composite sample.
NDQ = no determinable quantities
L = below detectable limit
**=Last day of sample, 2/17-3/2/94

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

JUNE , 1994

QUARTERLY

Day	Influent Total PCB ug/L	BFP Cake Total PCB * ug/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	00680	01077	
1						NDQ
2						NDQ
3						NDQ
4						NDQ
5						NDQ
6						NDQ
7						NDQ
8						NDQ
9						NDQ
10	L0.1	L330	L0.1			NDQ
11						NDQ
12						NDQ
13						NDQ
14						NDQ
15				L0.2	0.31	NDQ
16						NDQ
17						NDQ
18						NDQ
19						NDQ
20						NDQ
21						NDQ
22						NDQ
23						NDQ
24						NDQ
25						NDQ
26						NDQ
27						NDQ
28						NDQ
29						NDQ
30						7.9
TL	L0.1	L330	L0.1	L0.2	0.31	7.9
ME	L0.1	L330	L0.1	L0.2	0.31	0.3
MAX	L0.1	L330	L0.1	L0.2	0.31	7.9

NOTE: * = Dry weight basis, 2 week grab composite sample.
NDQ = no determinable quantities
L = below detectable limit

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

SEPTEMBER , 1994

QUARTERLY

Day	Influent Total PCB ug/L	LIME-STAB. SLUDGE Total PCB * mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	00680	01077	
1						NDQ
2						NDQ
3						NDQ
4						NDQ
5						NDQ
6						NDQ
7						NDQ
8						NDQ
9						NDQ
10						NDQ
11						NDQ
12						0.4
13						NDQ
14		L20				NDQ
15						NDQ
16						NDQ
17						NDQ
18						NDQ
19						NDQ
20				L0.2	L0.2	NDQ
21						NDQ
22	L0.050		L0.050			NDQ
23						NDQ
24						NDQ
25						NDQ
26						NDQ
27						NDQ
28						NDQ
29						NDQ
30						NDQ
TL	L0.050	L20	L0.050	L0.2	L0.2	0.4
ME	L0.050	L20	L0.050	L0.2	L0.2	0.0
MA	L0.050	L20	L0.050	L0.2	L0.2	0.4

NOTE: * = Dry weight basis, grab sample.
NDQ = no determinable quantities
L = below detectable limit

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

DECEMBER , 1994

Walter L Compton

Day	QUARTERLY					ASE Cyanide Amenable to Chlorination ug/L
	Influent Total PCB ug/L	Sludge Total PCB * mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	
PN	39516	39516	39516	00680	01077	
1						NDQ
2						NDQ
3						NDQ
4						NDQ
5						NDQ
6						NDQ
7	L0.05					NDQ
8		L8.3				NDQ
9						NDQ
10						NDQ
11						NDQ
12						NDQ
13				0.47	0.43	NDQ
14		-				NDQ
15						NDQ
16						NDQ
17						NDQ
18						NDQ
19						NDQ
20						NDQ
21						NDQ
22						NDQ
23						NDQ
24						NDQ
25						NDQ
26						NDQ
27						NDQ
28						NDQ
29			L0.05			NDQ
30						NDQ
31						NDQ
TL	L0.05	L8.3	L0.05	0.47	0.43	0.0
ME	L0.05	L8.3	L0.05	0.47	0.43	0.0
MA	L0.05	L8.3	L0.05	0.47	0.43	0.0

NOTE: * = Lime-stabilized sludge. Dry weight basis.
NDQ = no determinable quantities
L = below detectable limit

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

MARCH , 1995

Day	QUARTERLY					ASE Cyanide Amenable to Chlorination ug/L
	Influent Total PCB ug/L	Cake Sludge Total PCB * mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	
PN	39516	39516	39516	00680	01077	
1						NDQ
2						4.2
3						NDQ
4						NDQ
5						NDQ
6						NDQ
7						NDQ
8		L1.0				NDQ
9	L0.2		L0.05			NDQ
10						NDQ
11						2.9
12						NDQ
13						0.4
14						NDQ
15						0.8
16						2.8
17						3.3
18						NDQ
19						NDQ
20						3.1
21						3.2
22						NDQ
23						NDQ
24						2.6
25						3.3
26						5.5
27						NDQ
28						NDQ
29						NDQ
30				0.3	0.9	2.9
31						NDQ
TL	L0.2	L1.0	L0.05	0.3	0.9	35.0
ME	L0.2	L1.0	L0.05	0.3	0.9	1.1
MA	L0.2	L1.0	L0.05	0.3	0.9	5.5

NOTE: * = Dry weight basis, 2 week grab composite sample.
NDQ = no determinable quantities
L = below detectable limit

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

JUNE , 1995 Walter L Thompson

Day	QUARTERLY					ASE Cyanide Amenable to Chlorination ug/L
	Influent Total PCB ug/L	Centrifuge Cake Total PCB * mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	
PN	39516	39516	39516	00680	01077	
1						NDQ
2						NDQ
3						NDQ
4						NDQ
5						NDQ
6						NDQ
7		L3.8				NDQ
8						NDQ
9						NDQ
10						NDQ
11						NDQ
12	L0.05		L0.05	0.5	0.7	NDQ
13						NDQ
14						3.2
15						NDQ
16						NDQ
17						NDQ
18						NDQ
19						NDQ
20						NDQ
21						NDQ
22						NDQ
23						0.2
24						NDQ
25						NDQ
26						NDQ
27						NDQ
28						NDQ
29						NDQ
30						NDQ
TL	L0.05	L3.8	L0.05	0.5	0.7	3.4
ME	L0.05	L3.8	L0.05	0.5	0.7	0.1
MA	L0.05	L3.8	L0.05	0.5	0.7	3.2

NOTE: * = Dry weight basis, 2 week grab composite sample.
NDQ = no determinable quantities
L = below detectable limit

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

SEPTEMBER , 1995

Day	QUARTERLY					
	Influent Total PCB ug/L	Lime-stab. Sludge Total PCB mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	00680	01077	
1						NDQ
2						NDQ
3						NDQ
4						NDQ
5						NDQ
6						NDQ
7		L1.0				NDQ
8						NDQ
9						NDQ
10						NDQ
11						NDQ
12						NDQ
13						NDQ
14						NDQ
15						NDQ
16						NDQ
17						NDQ
18						NDQ
19						NDQ
20						NDQ
21						NDQ
22						NDQ
23						NDQ
24						NDQ
25						NDQ
26						NDQ
27						NDQ
28				0.2	0 2	NDQ
29						NDQ
30						NDQ
TL		L1.0		0.2	0.2	0.0
ME		L1.0		0.2	0.2	0.0
MA		L1.0		0 2	0.2	0.0

NOTE: * = Influent and ASE PCB analysis not performed in September
PCB analysis will be performed in October.
NDQ = no determinable quantities
L = below detectable limit

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

OCTOBER , 1995

Day	QUARTERLY					ASE Cyanide Amenable to Chlorination ug/L
	Influent Total PCB ug/L	Total PCB * mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	
PN	39516	39516	39516	00680	01077	
1						NDQ
2						NDQ
3						NDQ
4						NDQ
5						NDQ
6						NDQ
7						NDQ
8						NDQ
9						NDQ
10						NDQ
11						NDQ
12						NDQ
13						NDQ
14						NDQ
15						NDQ
16						NDQ
17	L0.05		L0.05			NDQ
18						NDQ
19						NDQ
20						NDQ
21						NDQ
22						NDQ
23						NDQ
24						NDQ
25						NDQ
26						NDQ
27						NDQ
28						NDQ
29						NDQ
30						NDQ
31						NDQ
TL	L0.05		L0.05			0.0
ME	L0.05		L0.05			0.0
MA	L0.05		L0.05			0.0

QUARTERLY ANALYSIS NOT REQUIRED FOR OCTOBER. I & ASE PCB ANAL FOR MISSED SEPTEMBER ANALYSIS.

NOTE: * = Dry weight basis, 2 week grab composite sample.
NDQ = no determinable quantities
L = below detectable limit

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

DECEMBER , 1995

Walter L Thompson

Day	QUARTERLY					ASE Cyanide Amenable to Chlorination ug/L
	Influent Total PCB ug/L	Total PCB * mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	
PN	39516	39516	39516	00680	01077	
1						NDQ
2						NDQ
3						NDQ
4						NDQ
5						NDQ
6						NDQ
7	L0 05		L0 05			NDQ
8						NDQ
9						NDQ
10				L0.2	0.9	NDQ
11						NDQ
12						NDQ
13		L1 0				NDQ
14						NDQ
15						NDQ
16						NDQ
17						NDQ
18						NDQ
19						NDQ
20						NDQ
21						NDQ
22						NDQ
23						NDQ
24						NDQ
25						NDQ
26						NDQ
27						NDQ
28						NDQ
29						NDQ
30						NDQ
31						NDQ
TL						0.0
ME						0 0
MA						0 0

NOTE * = Dry weight basis, 2 week grab composite sample 11/21/95 to 12/13/
NDQ = no determinable quantities
L = below detectable limit

DEPARTMENT OF ENVIRONMENTAL QUALITY
MONTH: MARCH ,1996

STATE OF MICHIGAN

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

Day	QUARTERLY					ASE
	Influent Total PCB ug/L	Lime-stab Sludge Total PCB * mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	Cyanide Amenable Chlorinati ug/L
PN	39516	39516	39516	00680	01077	
1						NDQ
2						NDQ
3		L19				NDQ
4						NDQ
5						NDQ
6						NDQ
7						NDQ
8						NDQ
9						NDQ
10				L0.2	0.3	NDQ
11						NDQ
12						NDQ
13						NDQ
14	L0.05		L0.05			NDQ
15						NDQ
16						NDQ
17						NDQ
18						NDQ
19						NDQ
20						NDQ
21						NDQ
22						NDQ
23						NDQ
24						NDQ
25						NDQ
26						NDQ
27						NDQ
28						NDQ
29						NDQ
30						NDQ
31						NDQ
TL	L0.05	L19	L0.05	L0.2	0.3	0.0
ME	L0.05	L19	L0.05	L0.2	0.3	0.0
MAX	L0.05	L19	L0.05	L0.2	0.3	0.0

NOTE: * = Dry weight basis, grab sample.
NDQ = no determinable quantities
L = below detectable limit

DEPARTMENT OF ENVIRONMENTAL QUALITY

STATE OF MICHIGAN

MONTH: JUNE ,1996

ADDITIONAL CHEMICAL ANALYSES

Battle Creek, Michigan

ID #130027

	QUARTERLY					
Day	Influent Total PCB ug/L	Lime-stab Sludge Total PCB * mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable Chlorinati ug/L
PN	39516	39516	39516	00680	01077	
1						NDQ
2						NDQ
3						NDQ
4						NDQ
5						NDQ
6						NDQ
7						NDQ
8						NDQ
9						NDQ
10						NDQ
11						NDQ
12						NDQ
13						NDQ
14						NDQ
15						NDQ
16						NDQ
17				L0 2	1.0	NDQ
18	L0.05		L0.05			NDQ
19						NDQ
20						NDQ
21		L1.0				NDQ
22						NDQ
23						NDQ
24						NDQ
25						NDQ
26						NDQ
27						NDQ
28						NDQ
29						NDQ
30						NDQ
TL	L0.05	L1.0	L0.05	L0.2	1.0	0.0
ME	L0 05	L1.0	L0.05	L0 2	1.0	0.0
MAX	L0.05	L1.0	L0.05	L0.2	1.0	0.0

NOTE: * = Dry weight basis, 2 week grab composite sample.

NDQ = no determinable quantities

L = below detectable limit

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

REPLY TO

PLAINWELL DISTRICT OFFICE
1342 SR 89 W STE B
PLAINWELL MI 49080-1915

October 18, 1999

Mr. Larry Delong, Superintendent
Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Dear Mr. Delong:

SUBJECT: Point Source Monitoring Report for Sampling Performed on May 24-25, 1999
Battle Creek WWTP – MI0022276

Enclosed you will find analytical results for the sampling performed at your facility on May 24-25, 1999. As standard practice, I have forwarded a copy of the data to our Water Quality Appraisal Unit for their evaluation. If they have any comments or recommendations concerning the data, I will forward those to you when I receive them.

If you have any questions, please feel free to call me.

Sincerely,

Deborah Quinn
Environmental Quality Analyst
Plainwell District Office
Surface Water Quality Division
(616) 692-6964

dq: km

Enclosure

cc/enc: Mr. Bill Creal, DEQ-SWQD, GLEAS, Lansing
IPP file

RECEIVED

OCT 22 1999

WASTEWATER
TREATMENT PLANT

pc: m. Wing
m. Andrews
10-27-99
ac

EQP 0100e
(Rev 1/98)

TABLE 3 Battle Creek WWTP TABLE 3

Scan 3-Chlorinated Hydrocarbons, PCBs & Organochlorine Pesticides

Outfall		(001)		Influent	
Matrix		water		water	
Sample Type		composite		composite	
Survey Period	from	05/24/99 1040		05/23/99 2400	
	to	05/25/99 1040		05/24/99 2400	
Dilution Factor		1		1	
		ug/l		ug/l	
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	<	.02 ND	<	.02 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)		.02		.017	
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 Battle Creek WWTP TABLE 3

Scan 3-Chlorinated Hydrocarbons, PCBs & Organochlorine Pesticides

Matrix		Sludge
Sample Type		sediment
Date & Time Collected		grab
		05/25/99 0745
Dilution Factor		1
		ug/kg
Hexachloroethane	<	1700 ND
1,2,4-Trichlorobenzene	<	17000 ND
Hexachlorobutadiene	<	1700 ND
2-Chloronaphthalene	<	50000 ND
Hexachlorobenzene	<	1700 ND
g-BHC (lindane)	<	1700 ND
Pentachloronitrobenzene	<	1700 ND
Heptachlor	<	1700 ND
Aldrin	<	1700 ND
Heptachlor epoxide	<	1700 ND
g-Chlordane	<	1700 ND
a-Chlordane	<	1700 ND
4,4'-DDE	<	1700 ND
4,4'-DDD	<	1700 ND
4,4'-DDT	<	1700 ND
Hexabromobenzene	<	3300 ND
Mirex	<	1700 ND
Aroclor 1242	<	17000 ND
Aroclor 1254	<	17000 ND
Aroclor 1260	<	17000 ND
*Aroclor 1016	<	17000 ND
*Aroclor 1221	<	17000 ND
*Aroclor 1232	<	17000 ND
*Aroclor 1248	<	17000 ND
*Aroclor 1262	<	17000 ND
*Aroclor 1268	<	17000 ND
BP-6 (PBB)	<	8300 ND
*Toxaphene	<	17000 ND

* Seldomly encountered, reported semi-quantitatively

CITY OF BATTLE CREEK, MICHIGAN

PUBLIC WORKS DEPARTMENT

Wastewater Division

Cortland V. Overmyer, Superintendent

October 3, 1991

Mr. Arnold Leder
PCS Manager, USEPA Region 5
230 South Dearborn St.
Chicago, IL 60604

Dear Mr. Leder:

RE: PCS DATA FOR BATTLE CREEK

I have corrected the PCS report that you sent me several months ago and am returning the same to both you and Ms. Patty Brandt, MDNR. As you indicated in your transmittal letter, these corrections will be entered into the PCS system to update some of the erroneous entries made to our files.

I appreciate the phone call that started this whole review process and feel good that these problems were resolved before the data was released to the Congress! I only wish that the entire organization functioned as reasonably as you have in this situation--good job!

Please let me know if I can be of further assistance to you or your staff.

Sincerely,

Cortland V. Overmyer
Superintendent

/cvo

Enclosure

cc: P. Levy, City Attorney
K. Tsuchiyama, Public Works Director
P. Brandt, PCS Coordinator, MDNR
File

2000 West River Road, Battle Creek, MI 49015-1181 (616) 966-3513

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

JUL 19 1991

REPLY TO ATTENTION OF:
5WCC-TUB-8

Mr. Courtland Overmyer
Superintendent
City of Battle Creek
Waste Water Division
2000 W. River Rd.
Battle Creek, MI 49015

Re: PCS Data for Battle Creek

Dear Mr. Overmyer:

Inclosed for your use is a Permit Compliance System (PCS) report showing all Battle Creek effluent data in the system. Also inclosed is a set of definitions of the column headings used in the report.

The corrections we have made are shown on page 15 for lead and on page 24 for PCBs. You will note that we have not changed the values reported, other than by adding the < sign and by adding in the reported unit concentration code (RCUN) which designates these values as μg/liter rather than milligrams.

Please annotate this report with the appropriate corrections and return to both myself and to Patty Brandt, PCS Coordinator for the Michigan DNR, PO Box 30028, Lansing, MI 48909.

Sincerely,

Arnold E. Leder

Arnold E. Leder
PCS Manager

CC: Patty Brandt, MDNR

RECEIVED
JUL 23 1991
WASTEWATER
TREATMENT PLANT

Printed on Recycled Paper

FACSIMILE TRANSMISSION FORM

DATE: 16 MAY 91

TIME: 1:20 P.M.

WASTEWATER DIVISION OFFICES
2000 WEST RIVER ROAD
BATTLE CREEK, MI 49015-1181

PHONE: (616) 966-3513

FAX: (616) 965-3290

TOTAL NUMBER OF PAGES (INCLUDING COVER SHEET) 2

TO: MR. ARNOLD LEDER

COMPANY: REGION V - USEPA

FAX: (312) 886-0957

FROM: CORTLAND V OVERMYER

SUBJECT: DMR CORRECTIONS AS DISCUSSED BY TELEPHONE THIS A.M.

SPECIAL INSTRUCTIONS:

I AM CONCERNED AT OTHER KEY-PUNCH ERRORS THAT MAY BE IN MY DATA FILES FROM MDNR -- IS THERE SOME WAY TO GET A PRINT-OUT OF THIS DATA TO CHECK FOR OTHER ERRORS? AS A SUGGESTION, IF THIS IS POSSIBLE AND WERE DONE MONTHLY FOR ~~BY~~ THE POTW, I'M CERTAIN ERRORS WOULD BE FOUND SOONER AND CORRECTED IN A MORE TIMELY MANNER. PLEASE ADVISE -- THX!
(I WILL ALSO SEND YOU THE ORIGINAL TO THIS FAX FOR YOUR FILE.)

CITY OF BATTLE CREEK, MICHIGAN

PUBLIC WORKS DEPARTMENT

Wastewater Division

Cortland V. Overmyer, Superintendent

May 16, 1991

Mr. Arnold Leder
USEPA Region V
5WC 8-TUB
230 South Dearborn Street
Chicago, IL 60604

Dear Mr. Leder:

RE: CORRECTIONS TO DMR DATA FOR CITY OF BATTLE CREEK -- PCB'S

As discussed on the telephone with you today, an error has been discovered with the City of Battle Creek's reported DMR data for 1988. I understand that you will correct these numbers in Chicago with your staff.

All numbers reported for PCB's were entered into the system as the detection limit and apparently were also entered as mg/l instead of ug/l. The City of Battle Creek has not detected PCB's in this facility since monitoring began in July 1987. The actual reported data for 1988 (January - June) should be <0.5 ug/l. The data for 1988 (July - December) should be <0.01 ug/l. The data for 1989 (January - December) should be <0.01 ug/l also.

I also understand that a problem may exist with lead for 1988. The numbers reported on the DMR were all in ug/l as requested. I am not sure how they were entered in the system.

I truly appreciate your follow up on this error so corrections could be properly made. Please let me know if I can assist you any further in this regard.

Sincerely,

Cortland V. Overmyer
Superintendent

/ac

cc: P. Levy, City Attorney
K. Tsuchiyama, Public Works Director
J. Braunscheidel, MDNR
File

2000 West River Road, Battle Creek, MI 49015-1181 (616) 966-3513

OL ********** OL

NPID	FNMS	MADI	PIPE

PDSG	ELSD	ELED	PRAM	MLOC	LQUC	LQAV	LQMX	LCUC	LCAV	LCMX	ALLS
	MLOC	MLOC		STAT	STAT						
	VDSG	VPRM				MQAV	MQMX	MCMN	MCAV	MCMX	RCUN	MVDT	NODI

001A 11/01/85 12/31/39 39516 1 MG/L OPTMON 0.5 YYYYYYYYYYYY
1 EFFLUENT GROSS VALUE 10 30DA AVG DAILY MX 30DA AVG DAILY MX

	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.5	< 0.5	28	03/31/87	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.5	< 0.5	28	04/30/87	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.5	< 0.5	28	05/31/87	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.5	< 0.5	28	01/31/88	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.5	< 0.5	28	02/29/88	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.5	< 0.5	28	03/31/88	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.5	< 0.5	28	04/30/88	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.5	< 0.5	28	05/31/88	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.5	< 0.5	28	06/30/88	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						<0.5 ~~0.01~~	<0.5 ~~0.01~~	28	07/31/88	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.01	< 0.01	28	08/31/88	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.01	< 0.01	28	09/30/88	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.01	< 0.01	28	10/31/88	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.01	< 0.01	28	11/30/88	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.01	< 0.01	28	12/31/88	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.01	< 0.01	28	01/31/89	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.01	< 0.01	28	02/28/89	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.01	< 0.01	28	03/31/89	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.01	< 0.01	28	04/30/89	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.01	< 0.01	28	05/31/89	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.01	< 0.01	28	06/30/89	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.01	< 0.01	28	07/31/89	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.01	< 0.01	28	08/31/89	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.01	< 0.01	28	09/30/89	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.01	< 0.01	28	10/31/89	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.01	< 0.01	28	11/30/89	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						0	0	28	12/31/89	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.5	< 0.5	28	09/30/87	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.5	< 0.5	28	10/31/87	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.5	< 0.5	28	11/30/87	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.5	< 0.5	28	12/31/87	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						< 0.5	< 0.5	28	08/31/87	✓

001A 01/01/90 01/31/91 39516 G UG/L DELMON NNYNNYNNYNNY
G RAW SEW/INFLUENT 42 DAILY MX DAILY MX

	001A	POLYCHLORINATED	BIPHENYLS (PCBS)							< 0.01		03/31/90	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)							0		06/30/90	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						0	0		09/30/90	✓
	001A	POLYCHLORINATED	BIPHENYLS (PCBS)						0	0		12/31/90	✓

BATTLE CREEK WWTP
MICHIGAN

QL ********** QL

NPID FNMS MADI PIPE

PDSG ELSD ELED PRAM MLOC LQUC LQAV LQMX LCUC LCAV LCMX ALLS

MLOC MLOC STAT STAT

VDSG VPRM MQAV MQMX MCMN MCAV MCMX RCUN MVDT NODI

001A 01/01/90 01/31/91 39516 S UG/L DELMON NNYNNYNNYNNY
S SEE COMMENTS BELOW 42 DAILY MX DAILY MX
001A POLYCHLORINATED BIPHENYLS (PCBS) 0 03/31/90 ✓
001A POLYCHLORINATED BIPHENYLS (PCBS) 0 06/30/90 F ✓
001A POLYCHLORINATED BIPHENYLS (PCBS) ~~0~~ 0 09/30/90 ✓
001A POLYCHLORINATED BIPHENYLS (PCBS) ~~0~~ 0 12/31/90 ✓
001A 01/01/90 01/31/91 39516 1 UG/L DELMON NNYNNYNNYNNY
1 EFFLUENT GROSS VALUE 42 DAILY MX DAILY MX.
001A POLYCHLORINATED BIPHENYLS (PCBS) 0 03/31/90 ✓
001A POLYCHLORINATED BIPHENYLS (PCBS) 0 06/30/90 ✓
001A POLYCHLORINATED BIPHENYLS (PCBS) ~~0~~ 0 09/30/90 ✓
001A POLYCHLORINATED BIPHENYLS (PCBS) ~~0~~ 0 12/31/90 ✓
MI0022276 BATTLE CREEK WWTP M 001 KALAMAZOO RIVER
001A 02/01/91 09/30/95 39516 G UG/L NNYNNYNNYNNY
G RAW SEW/INFLUENT 10 30DA AVGDAILY MX 30DA AVGDAILY MX
001A POLYCHLORINATED BIPHENYLS (PCBS) ~~0~~ 0 03/31/91 ✓ QTRLY GRAB
001A 02/01/91 09/30/95 39516 S UG/L NNYNNYNNYNNY
S SEE COMMENTS BELOW 10 30DA AVGDAILY MX 30DA AVGDAILY MX
001A POLYCHLORINATED BIPHENYLS (PCBS) ~~0~~ 0 03/31/91 ✓ QTRLY GRAB
001A 02/01/91 09/30/95 39516 1 UG/L NNYNNYNNYNNY
1 EFFLUENT GROSS VALUE 10 30DA AVGDAILY MX 30DA AVGDAILY MX
001A POLYCHLORINATED BIPHENYLS (PCBS) ~~0~~ 0 03/31/91 ✓ QTRLY GRAB

SUB-TOTAL QUICK LOOK PRINT LINES: 62

NPID	ENMS	MADI	PIPE

PDSG	ELSD	ELED	PRAM	MLOC	LQUC	LQAV	LQMX	LCUC	LCAV	LCMX	ALLS
	MLOC	MLOC		STAT	STAT						

	VDSG	VPRM	MQAV	MQMX	MCMN	MCAV	MCMX	RCUN	MVDT	NODI
001A	11/01/85	12/31/39 39516 1			MG/L OPTMON		0.5 YYYYYYYYYYYY			
	1	EFFLUENT GROSS VALUE 10	30DA AVG	DAILY MX	30DA AVG	DAILY MX				
		001A POLYCHLORINATED BIPHENYLS (PCBS)							03/31/87	
		001A POLYCHLORINATED BIPHENYLS (PCBS)							04/30/87	
		001A POLYCHLORINATED BIPHENYLS (PCBS)							05/31/87	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.5	< 0.5 28		01/31/88	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.5	< 0.5 26		02/29/88	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.5	< 0.5 28		03/31/88	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.5	< 0.5 28		04/30/88	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.5	< 0.5 28		05/31/88	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.5	< 0.5 26		06/30/88	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.01	< 0.01 28		07/31/88	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.01	< 0.01 28		08/31/88	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.01	< 0.01 28		09/30/88	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.01	< 0.01 28		10/31/88	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.01	< 0.01 28		11/30/88	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.01	< 0.01 28		12/31/88	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.01	< 0.01 28		01/31/89	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.01	< 0.01 28		02/28/89	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.01	< 0.01 28		03/31/89	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.01	< 0.01 28		04/30/89	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.01	< 0.01 26		05/31/89	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.01	< 0.01 28		06/30/89	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.01	< 0.01 26		07/31/89	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.01	< 0.01 28		08/31/89	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.01	< 0.01 26		09/30/89	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.01	< 0.01 28		10/31/89	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.01	< 0.01 28		11/30/89	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				0	0 28		12/31/89	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.5	< 0.5 26		09/30/87	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.5	< 0.5 26		10/31/87	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.5	< 0.5 26		11/30/87	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				0.5	0.5 26		12/31/87	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.5	< 0.5 26		08/31/87	
001A	01/01/90	01/31/91 39516 G			UG/L DELMON		NNY NYNNYNNY			
	G	RAW SEW/INFLUENT 42		DAILY MX		DAILY MX				
		001A POLYCHLORINATED BIPHENYLS (PCBS)				< 0.01			03/31/90	
		001A POLYCHLORINATED BIPHENYLS (PCBS)							06/30/90	E
		001A POLYCHLORINATED BIPHENYLS (PCBS)				0	0		09/30/90	
		001A POLYCHLORINATED BIPHENYLS (PCBS)				0	0		12/31/90	

BATTLE CREEK WWTP
MICHIGAN

QL **********

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NPID      FNMS                          MADI PIPE
--------- ------------------------------ ---- ------------------------------
PDSG ELSD     ELED     PRAM  MLOC LQUC LQAV     LQMX     LCUC         LCAV     LCMX     ALLS
---- -------- -------- ----- ---- ---- -------- -------- ------------ -------- -------- ------------
     MLOC MLOC                  STAT STAT
     ---- -------------------- ---- ------------------------------------
          VDSG VPRM                                  MQAV     MQMX     MCMN     MCAV     MCMX     RCUN MVDT     NODI
          ---- ------------------------------------- -------- -------- -------- -------- -------- ---- -------- ----

001A 01/01/90 01/31/91 39516 S                                UG/L   DELMON            NNYNNYNNYNNY
     S    SEE COMMENTS BELOW   42          DAILY MX                DAILY MX
          001A POLYCHLORINATED     BIPHENYLS (PCBS)                                                0      03/31/90
          001A POLYCHLORINATED     BIPHENYLS (PCBS)                                                       06/30/90 F
          001A POLYCHLORINATED     BIPHENYLS (PCBS)                                        0       0      09/30/90
          001A POLYCHLORINATED     BIPHENYLS (PCBS)                                        0       0      12/31/90
001A 01/01/90 01/31/91 39516 1                                UG/L   DELMON            NNYNNYNNYNNY
     1    EFFLUENT GROSS VALUE 42          DAILY MX                DAILY MX
          001A POLYCHLORINATED     BIPHENYLS (PCBS)                                                0      03/31/90
          001A POLYCHLORINATED     BIPHENYLS (PCBS)                                                0      06/30/90
          001A POLYCHLORINATED     BIPHENYLS (PCBS)                                        0       0      09/30/90
          001A POLYCHLORINATED     BIPHENYLS (PCBS)                                        0       0      12/31/90
MI0022276 BATTLE CREEK WWTP              M    001 KALAMAZOO RIVER
001A 02/01/91 09/30/95 39516 G                                UG/L                      NNYNNYNNYNNY
     G    RAW SEW/INFLUENT     10   30DA AVGDAILY MX        30DA AVGDAILY MX
          001A POLYCHLORINATED     BIPHENYLS (PCBS)                                        0       0      03/31/91
001A 02/01/91 09/30/95 39516 S                                UG/L                      NNYNNYNNYNNY
     S    SEE COMMENTS BELOW   10   30DA AVGDAILY MX        30DA AVGDAILY MX
          001A POLYCHLORINATED     BIPHENYLS (PCBS)                                        0       0      03/31/91
001A 02/01/91 09/30/95 39516 1                                UG/L                      NNYNNYNNYNNY
     1    EFFLUENT GROSS VALUE 10   30DA AVGDAILY MX        30DA AVGDAILY MX
          001A POLYCHLORINATED     BIPHENYLS (PCBS)                                        0       0      03/31/91
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SUB-TOTAL QUICK LOOK PRINT LINES: 62

U.S. GENERAL ACCOUNTING OFFICE

Survey of National Pretreatment Program

INTRODUCTION

The U.S. General Accounting Office (GAO) is an agency that assists the U.S. Congress in evaluating federal programs. At the request of the Subcommittee on Investigations and Oversight, Public Works and Transportation Committee, U.S. House of Representatives, we are examining how control authorities (Publicly Owned Treatment Works-POTWs) are managing the operation of their industrial pretreatment programs.

The purpose of this questionnaire is to obtain information from POTWs to provide a picture of the national pretreatment program, with particular emphasis on compliance and enforcement issues. In addition, a small number of case studies will be conducted by GAO staff to develop a more in-depth understanding of the program. The results of these activities will be used by GAO in reporting to the Congress on the implementation of the pretreatment program.

Please have the supervisor of the pretreatment program complete and return the enclosed questionnaire. Depending on the complexity of your pretreatment program, the questionnaire could take a few hours to complete. Most of the questions can be completed by checking boxes or filling in blanks. There is space at the end of the questionnaire for any comments you may have.

Please return your completed questionnaire in the enclosed self-addressed postage-paid envelope within 2 weeks after receipt. If you have any questions, please call either James Van Blarcom or George Pagnillo of the GAO's New York Regional Office at (212) 264-0730.

Thank you for your cooperation.

If the self-addressed envelope is misplaced, please mail your completed questionnaire to:

James Van Blarcom
U.S. General Accounting Office
Room 4476
441 G Street, N.W.
Washington, DC 20548

I. GENERAL INFORMATION

1. What is the beginning and ending date of the most recently completed 12 months for which your POTW provided pretreatment program reports to the state or EPA regional office serving as your approval authority? (Enter month and year. For example, if the date was March 1988, you would enter 03 88. If reporting is not required, then use the 12 month period ending March 31, 1988 in answering the following questions.)

		ID1(1-3) CD1(4-5)
Beginning date	6 / 87 (Month / Year)	(6-9)
Ending date	6 / 88 (Month / Year)	(10-13)

2. During the 12 months you specified in Question 1, did your POTW receive industrial flow? (Check one.)

(14)

1. [✓] Yes---> CONTINUE TO QUESTION 3

2. [ ] No----> **STOP! PLEASE RETURN THE QUESTIONNAIRE IN THE ENCLOSED ENVELOPE**

3. Is the state government or EPA regional office your approval authority? (Check one.)

(15)

1. [✓] State government

2. [ ] EPA regional office

II. TREATMENT PLANT INFORMATION

4. Considering the 12 months you specified in Question 1, please provide the following information for **each** of the treatment facilities your POTW manages.

   a. In Column A, write in the name of **each** facility your POTW manages.

   b. In Column B, indicate the design daily average flow for **each** facility. (mgd=Million gallons per day)

   c. In Column C, indicate the actual daily average flow for **each** facility. (mgd=Million gallons per day)

   d. In Column D, indicate the actual daily average industrial flow for **each** facility. (mgd=Million gallons per day)

   e. In Column E, indicate for **each** facility whether the level of treatment is primary, secondary, or tertiary. (For each facility enter P for primary, S for secondary, or T for tertiary.)

   f. In Column F, indicate for **each** facility its NPDES or equivalent state Permit Number.

Column A	Column B	Column C	Column D	Column E	Column F	
Name of Facility	Design Daily Average Flow	Actual Daily Average Flow	Actual Daily Average Industrial Flow	Level of Treatment	Permit Number	
a. BATTLE CREEK W.W.T.P.	27.0 mgd	13.0 mgd	7.8 mgd	S	MI 0022276	2:(6-43
b.	mgd	mgd	mgd			(44-91)
c.	mgd	mgd	mgd			3:(6-43
d.	mgd	mgd	mgd			(44-91)

QUESTION 4 CONTINUES ON THE NEXT PAGE

CONTINUATION OF QUESTION 4

Column A	Column B	Column C	Column D	Column E	Column F	
Name of Facility	Design Daily Average Flow	Actual Daily Average Flow	Actual Daily Average Industrial Flow	Level of Treatment	Permit Number	
e.	mgd	mgd	mgd			4:(6-43
f.	mgd	mgd	mgd			(44-91)
g.	mgd	mgd	mgd			5:(6-43
h.	mgd	mgd	mgd			(44-91)
i.	mgd	mgd	mgd			6:(6-43
j.	mgd	mgd	mgd			(44-91)
k.	mgd	mgd	mgd			7:(6-43
l.	mgd	mgd	mgd			(44-91)
m.	mgd	mgd	mgd			8:(6-43
n.	mgd	mgd	mgd			(44-91)
o.	mgd	mgd	mgd			9:(6-43
p.	mgd	mgd	mgd			(44-91)
q.	mgd	mgd	mgd			10:(6-4
r.	mgd	mgd	mgd			(44-91)
s.	mgd	mgd	mgd			11:(6-4
t.	mgd	mgd	mgd			(44-91)
u.	mgd	mgd	mgd			12:(6-4
v.	mgd	mgd	mgd			(44-91)
w.	mgd	mgd	mgd			13:(6-4.
x.	mgd	mgd	mgd			(44-91)
y.	mgd	mgd	mgd			14:(6-4.

III. BACKGROUND INFORMATION

5. In what month and year did your POTW receive approval of the original pretreatment program submission? (Enter month and year. For example, if the date was March 1988, you would enter 03 88.)

9 / 85 (44-47)
Month / Year

6. Considering the 12 months you specified in Question 1, what was the **total** number industrial users (IUs) your POTW had in each of the following categories? (If none enter 0.)

	Total Number	
a. Categorical IUs	10	(48-51)
b. Significant noncategorical IUs	34	(52-55)
c. Other regulated noncategorical IUs	38	(56-59)
d. Other nondomestic IUs	0	(60-63)

7. Consider the substances listed below, then answer the following two questions about **local limits** your POTW may have set.

   a. Which of the following substances has your POTW **ever** evaluated to determine whether or not a local limit is needed? (For each substance check one box under Column A.)

   b. For which of the evaluated substances indicated in Column A did your POTW adopt a limit? (For each substance evaluated, check one box under Column B.)

Substances	Column A: Not Evaluated 1	Column A: Yes Evaluated 2	Column B: Not Adopted 1	Column B: Yes Adopted 2	
a. Cadmium		X		X	(64-65)
b. Chromium		X		X	(66-67)
c. Copper		X		X	(68-69)
d. Lead		X		X	(70-71)
e. Nickel		X		X	(72-73)
f. Zinc		X		X	(74-75)
g. Phenol		X		X	(76-77)
h. Cyanide		X		X	(78-79)
i. Silver		X		X	(80-81)

QUESTION 7 CONTINUES ON THE NEXT PAGE

CONTINUATION OF QUESTION 7

Substances	Column A: Not Evaluated 1	Column A: Yes Evaluated 2	Column B: Not Adopted 1	Column B: Yes Adopted 2	
j. Arsenic		X		X	15:(6-7)
k. Mercury		X		X	(8-9)
l. Total Toxic Organics		X			(10-11)
m. Boron	X		X		(12-13)
n. Suspended Solids		X		X	(14-15)
o. Biochemical Oxygen Demand (BOD)		X		X	(16-17)
p. Other (Specify) Barium		X		X	(18-19)
q. Other (Specify) Benzidine		X		X	(20-21)
r. Other (Specify) Beryllium		X		X	(22-23)
s. Other (Specify) Carbon Tet		X		X	(24-25)
t. Other (Specify) 2-chlorophenol		X		X	(26-27)
u. Other (Specify) Chromium Hex		X		X	(28-29)
v. Other (Specify) 2,4 dichlorophenol		X		X	(30-31)
w. Other (Specify) PBB		X		X	(32-33)
x. Other (Specify) PCB's		X		X	(34-35)
y. Other (Specify) Selenium		X		X	(36-37)

2,4,6-trichlorophenol X

8. Has your POTW evaluated any of the substances listed in Question 7, but has **not** adopted a local limit for the substances? (Check one.)

(38)

1. [ ] POTW has not evaluated any substances---> **SKIP TO QUESTION 10**

2. [✓] POTW has adopted a local limit for all evaluated substances---> **SKIP TO QUESTION 10**

3. [ ] POTW has not adopted a local limit for one or more evaluated substances---> **CONTINUE TO QUESTION 9**

9. For **each** of the substances your POTW has evaluated, but has **not** adopted a local limit please indicate the reason which best explains why a local limit has not been adopted. (For each substance evaluated check **one** reason.)

Substances	Not Needed 1	Local Limit In Process Of Being Adopted 2	Local Limit Needed But Insufficient Resources 3	Local Limit Needed But No State Water Quality Standard 4	Local Limit Needed But Economic Hardship To Industry 5	Other (Specify) 6
a. Cadmium						
b. Chromium						
c. Copper						
d. Lead						
e. Nickel						
f. Zinc						
g. Phenol						
h. Cyanide						
i. Silver						
j. Arsenic						
k. Mercury						
l. Total Toxic Organics						
m. Boron	X					
n. Suspended Solids						
o. Biochemical Oxygen Demand (BOD)						

(39-53)

QUESTION 9 CONTINUES ON THE NEXT PAGE

CONTINUATION OF QUESTION 9

Substances	Not Needed 1	Local Limit In Process Of Being Adopted 2	Local Limit Needed But Insufficient Resources 3	Local Limit Needed But No State Water Quality Standard 4	Local Limit Needed But Economic Hardship To Industry 5	Other (Specify) 6	(54-63)
p. Other (Specify)							
q. Other (Specify)							
r. Other (Specify)							
s. Other (Specify)							
t. Other (Specify)							
u. Other (Specify)							
v. Other (Specify)							
w. Other (Specify)							
x. Other (Specify)							
y. Other (Specify)							

IV. MONITORING PROGRAM

10. For the 12 months you specified in Question 1, please provide the following information about your POTW's monitoring program of significant IUs. (If none enter 0.)

	Number of Industrial Users		
	Categorical	Significant Noncategorical	
a. Number of IUs where the POTW conducted nonsampling inspections	10	34	16:(6-13)
b. Number of IUs where the POTW was **required** to conduct nonsampling inspections	10	34	(14-21)
c. Number of IUs where the POTW conducted sampling inspections	10	34	(22-29)
d. Number of IUs where the POTW was **required** to conduct sampling inspections	10	34	(30-37)
e. Number of IUs where sampling inspections indicated that discharge exceeded one or more permit limitations	4	30	(38-45)
f. Number of self-monitoring reports which IUs submitted	~~37~~	70	(46-53)
g. Number of self-monitoring reports which IUs were **required** to submit	~~40~~ 30	~~150~~ 91	(54-61)
h. Number of self-monitoring reports where discharge exceeded one or more permit limitations	~~30~~ 24	~~120~~ 60	(62-69)

11. During the 12 months you specified in Question 1, did your POTW publish a list of significant IU violators? (Check one.) (70)

1. [✓] Yes---> **CONTINUE TO QUESTION 12**

2. [ ] No----> **SKIP TO QUESTION 13**

12. Using your POTWs list of significant IU violators which was published during the 12 months you specified in Question 1, please provide the following information. (If none enter 0.)

	Number of Industrial Users		
	Categorical	Significant Noncategorical	
a. Total number of IUs appearing in the list	2	2	(71-78)
b. Number of IUs not meeting reporting requirements	—	11	(79-86)
c. Number of IUs exceeding discharge limitations	4	30	(87-94)
d. Number of IUs failing to meet compliance schedule milestone dates	1	—	(95-102)
e. Number of IUs failing to meet pretreatment requirements other than those listed above (Specify) Installation of Pretreatment equipment	1		(103-110

13. For the 12 months you specified in Question 1, about how frequently (if at all) did the following types of adverse effects occur as a result of IUs exceeding discharge limitations? (For each type of adverse effect check one.)

Types of Adverse Effects	Never-- 0 times 1	Rarely-- 1-2 times 2	Sometimes-- 3-4 times 3	Frequently More than 5 times 4
a. Pass-through of pollutants	○			
b. Sludge contamination	○			
c. Plant inhibition/upset	○			
d. Health or safety problems to POTW workers	○			
e. POTW exceeded its NPDES permit limit	○			
f. Other (Specify)	○			

17:(6-11

V. ENFORCEMENT ACTIONS

14. Consider the enforcement actions listed below, then answer the following two questions. (Please refer to the "Pretreatment Compliance Monitoring and Enforcement Guide"--PCME.)

    a. Which of the following enforcement actions (if any) can your POTW use? (For each action check one box under Column A.)

    b. Of those enforcement actions which your POTW can use how frequently (if at all) was each of these enforcement actions taken against categorical and significant noncategorical IUs during the 12 months you specified in Question 1? (For each action enter the number of times under Column B. If none enter 0.)

Enforcement Actions	Column A		Column B		
			Times Used		
	Cannot Use 1	Can Use 2	Categorical Industrial Users	Significant Noncategorical Industrial Users	
a. Verbal warning		X	[redacted] / 0	5	(12-16)
b. Written notice of violation		X	2	9	(17-21)
c. Compliance schedule		X	1	0	(22-26)
d. Show cause hearing		X	0	0	(27-31)
e. Permit revocation	X				(32-36)
f. Administrative fine		X	0	0	(37-41)
g. Civil penalties		X	1	0	(42-46)
h. Criminal penalties		X	0	0	(47-51)
i. Injunctive relief		X	0	0	(52-56)
j. Terminate service		X	0	0	(57-61)
k. Publish list of violators		X	0	0	(62-66)
l. Other (Specify) City Attorney Injunctive relief		X	0	Ø	(67-71)

15. Considering **only** your local sewer use ordinance, for the 12 months you specified in Question 1, please provide the following information. (Round to the nearest dollar.)

a. The maximum daily fine the POTW can seek against a significant IU for one violation	$ 10000 .00	18:(6-10
b. The actual maximum daily fine imposed against a significant IU for one violation	$ -0- .00	(11-15)
c. The maximum daily fine that the POTW can seek against a significant IU for multiple violations	$ -0- .00	(16-20)
d. The actual maximum daily fine imposed against a significant IU for multiple violations	$ -0- .00	(21-25)

16. For the 12 months you specified in Question 1, what was the total dollar value of the fines and penalties assessed against significant IUs for activities relating to the pretreatment program? (Round to the nearest dollar. If none enter 0.)

$10,000 civil penalty United Steel & Wire

$ -0- .00 Total fines assessed (26-31)

17. For the 12 months you specified in Question 1, what was the total number of fines and penalties assessed against significant IUs for activities relating to the pretreatment program? (If none enter 0.)

Number of fines and penalties -0- (32-34)

18. For the 12 months you specified in Question 1, have any enforcement actions been taken against your POTW for failing to implement the pretreatment program by the EPA, state, or citizens groups? (Check one.) (35)

1. [X] No enforcement actions taken against POTW--> **SKIP TO QUESTION 20**

2. [ ] Yes, enforcement actions taken against POTW--> **CONTINUE TO QUESTION 19**

19. What type of action(s) were taken against your POTW? (Check all that apply.) (36-38)

1. [ ] Administrative order with fine

2. [ ] Administrative order without fine

3. [ ] Other (Specify) -0-

VI. OTHER TOPICS

20. Did your POTW have a pretreatment program before the EPA pretreatment program? (Check one.)

(39)

1. [ ] Yes
2. [X] No
3. [ ] Uncertain

21. In your opinion, on average, during the 12 months prior to EPA's pretreatment program, what was the quality of the receiving water your facility(s) discharge into? (Check one.)

(40)

1. [ ] Exceeded state water quality standards
2. [X] Met state water quality standards
3. [ ] Did not meet state water quality standards

22. In your opinion for your POTW, how much (if at all) has the pretreatment program improved the quality of the receiving water your facility(s) discharge into? (Check one.)

(41)

1. [ ] No improvement
2. [ ] Little improvement
3. [ ] Some improvement
4. [X] Moderate improvement
5. [ ] Great improvement

23. In your opinion, how much positive or negative impact (if any) have the following factors had on the implementation of the pretreatment program by your POTW? (For each factor check one column.)

Factors	Very Positive Impact 1	Somewhat Positive Impact 2	Neither Positive Nor Negative Impact 3	Somewhat Negative Impact 4	Very Negative Impact 5	(42-54)
a. Availability of staff			X			
b. POTW staff turnover			X			
c. EPA staff turnover			X			
d. EPA guidance (manuals, discussions, etc.)			X			
e. Availability of technical expertise			X			
f. Availability of adequate legal assistance			X			
g. Availability of enforcement tools			X			
h. Availability of funds			X			
i. Availability of equipment		X				
j. Availability of technology			X			
k. Industry attitudes toward the program		X				
l. POTW management attitudes			X			
m. Other (Specify)						

24. Please provide any additional comments on problems your control authority has experienced in implementing the pretreatment program and any suggestions you may have on solutions to those problems. In addition, if your control authority has experienced any successful methods of implementing the program, please describe them below.

(55)

25. In the event that we need clarification of any of the answers to this questionnaire, please provide the following information.

Name of person completing this questionnaire Bruce Kempainen

Title of person completing this questionnaire ~~Chief~~ Chief of Operations

Telephone number (616) 966-3513
Area Code

THANK YOU FOR YOUR COOPERATION

CITY OF BATTLE CREEK, MICHIGAN

PUBLIC WORKS DEPARTMENT
Wastewater Division

October 9, 1995

Mr. Matthew Campbell
Environmental Quality Analyst
DNR - Surface Water Quality Division
301 East Louis B Glick Highway
Jackson, MI 49201-1556

Dear Mr. Campbell:

RE: PERM VIOLATION (PERM NO. MI0022276) PCB TEST OMISSION

During the month of September, the Battle Creek Wastewater Treatment Plant personnel assigned to ship plant influent and effluent samples to a contract laboratory to perform PCB analysis failed to submit the appropriate sample. As a result, no analysis was performed during September on the plant influent or plant effluent. The sludge which is tested separately was tested with negative results. While this is unacceptable performance on the part of the employee and a notable violation of the PERM reporting procedure, it should be noted that Battle Creek has not recorded PCB's in our samples for sometime, and we have no reason to believe that there was on this occasion. Please be assured that every effort will be taken to see that there won't be any reoccurrences of this type of problem.

Sincerely,

Walter L. Thompson
Superintendent

/ac

cc: K. Tsuchiyama, Public Works Director
C. Kohs, Environmental Services Administrator
File

2000 West River Road, Battle Creek, Michigan 49015-1181
Phone (616) 966-3513
Fax (616) 965-3290

Table 2 Quantitative analyses of the two consecutive 24-hour grab composite samples collected from the Battle Creek Wastewater Treatment Plant influent to determine the concentration of the wastewater constituents present in the samples.

	Influent	
	7-19-76 - 1730 7-20-76 - 1730	7-20-76 - 1730 7-21-76 - 1600
pH (S.U.)	7.1	--
	mg/l	mg/l
5-day BOD	370	330
COD	410	510
Suspended solids	364	114
Dissolved solids	800	868
Orthophosphate-P	0.2	1.0
Total phosphorus-P	4.0	4.3
Nitrite & nitrate nitrogen-N	< 0.1	0.1
Ammonia nitrogen-N	4.0	4.5
Organic nitrogen-N	14	14
Chlorides (Cl)	140	120
Phenols	0.27	0.07
Total iron (Fe)	7.0	3.0
Total nickel (Ni)	0.55	0.29
Total zinc (Zn)	0.60	0.65
Total copper (Cu)	0.18	0.16
Hexavalent chromium (Cr^{+6})	< 0.01	< 0.01
Trivalent chromium (Cr^{+3})	0.90	0.85
Total lead (Pb)	0.16	0.16
Cadmium (Cd)	< 0.01	< 0.01
Aluminum (Al)	5.0	2.2

* Flow rates used in the computation of lbs/day.

Table 3 Quantitative analyses of the 48-hour grab composite samples collected from the Battle Creek Wastewater Treatment Plant discharges 001 and 002 as well as a grab sample of sludge prior to incineration for selected polychlorinated biphenyls.

	1242 PCB	1254 PCB	1260 PCB
001 (ug/l)	< 0.1	< 0.1	< 0.1
002 (ug/l)	< 0.1	< 0.1	< 0.1
Sludge (ug/kg dry weight)	< 200	420	< 200

PCB - Polychlorinated biphenyls.

AVERAGE SLUDGE ANALYSIS

1984

(11-30-83 through 11-29-84)

PARAMETER	AVERAGE
% Solids	22.5%
% Volatile	56%
Aluminum	8152
Antimony	28
Arsenic	3.0
Barium	138
Beryllium	0.34
Boron	BDL
Cadmium	3.8
Calcium	102,500
Chromium	380
Cobalt	7.3
Copper	360
Iron	14,875
Lead	83
Lithium	6.2
Magnesium	3508
Manganese	248
Mercury	0.29
Molybdenum	8.3
Nickel	302
Potassium	1283
Selenium	0.36
Silver	18.2
Sodium	940
Thallium	10.9
Titanium	640
Zinc	646
Nitrate N	15.3
Total Phosphorus	7577
Ammonia N	942
Total Kjeldahl N	29,850
Total PCB's	3.2
PBB	BDL
Lime	26.9%
AVN	13.7 lbs/dry ton

All results expressed in mg/kg (dry weight) unless otherwise specified

BDL = Below Detectable Limits

Monitoring Study cont'd
September 8, 1981

SEG Number:	11592*	11602*	11610*	11620*	11640*	11657*	11695*	11713*	11696
Tag:	Grab 7/15/81 ug/l	Composite 7/16/81 ug/l	Grab 7/21/81 ug/l	Composite 7/22/81 ug/l	Grab 7/27/81 ug/l	Composite 7/28/81 ug/l	Grab 8/5/81 ug/l	Composite 8/6/81 ug/l	Sludge 8/5/81 mg/kg
Polycylic Aromatic Hydrocarbons cont'd									
Benzo(a)anthracene	-	-	-	-	-	-	-	-	2.7
Benzo(a)pyrene	-	-	-	-	-	-	-	-	16
Benzo(b)fluoranthene	-	-	-	-	-	-	-	-	LT 2
Benzo(ghi)perylene	-	-	-	-	-	-	-	-	LT 2
Benzo(k)fluoranthene	-	-	-	-	-	-	-	-	LT 2
Chrysene	-	-	-	-	-	-	-	-	LT 2
Dibenzo(a,h)anthracene	-	-	-	-	-	-	-	-	LT 2
Fluoranthene	-	-	-	-	-	-	-	-	5.4
Fluorene	-	-	-	-	-	-	-	-	10
Napthalene	-	-	-	-	-	-	-	-	LT 2
Phenanthrene	-	-	-	-	-	-	-	-	14
Pyrene	-	-	-	-	-	-	-	-	LT 2
PCB's									
1242	-	-	-	-	-	-	-	-	LT 0.25
1254	-	-	-	-	-	-	-	-	LT 0.25
1260	-	-	-	-	-	-	-	-	LT 0.25

SEG Number:	11724*	11739*	11766*	11770*	11802*	11812*	11833*	11876*	11832
Tag:	Grab 8/12/81 ug/l	Composite 8/14/81 ug/l	Grab 8/20/81 ug/l	Composite 8/21/81 ug/l	Grab 8/28/81 ug/l	Composite 8/29/81 ug/l	Grab 9/3/81 ug/l	Composite 9/8/81 ug/l	Sludge 9/3/81 mg/kg
Polycyclic Aromatic Hydrocarbons									
Benzo(a)anthracene	-	-	-	-	-	-	-	-	17
Benzo(a)pyrene	-	-	-	-	-	-	-	-	LT 4
Benzo(b)fluoranthene	-	-	-	-	-	-	-	-	LT 4
Benzo(ghi)perylene	-	-	-	-	-	-	-	-	LT 4
Benzo(k)fluoranthene	-	-	-	-	-	-	-	-	48
Chrysene	-	-	-	-	-	-	-	-	LT 4
Dibenzo(a,h)anthracene	-	-	-	-	-	-	-	-	LT 4
Fluoranthene	-	-	-	-	-	-	-	-	5.0
Fluorene	-	-	-	-	-	-	-	-	7.0
Napthalene	-	-	-	-	-	-	-	-	20
Phenanthrene	-	-	-	-	-	-	-	-	73
Pyrene	-	-	-	-	-	-	-	-	LT 4
PCB's									
1242	-	-	-	-	-	-	-	-	0.84
1254	-	-	-	-	-	-	-	-	0.17
1260	-	-	-	-	-	-	-	-	LT 0.25

*Chlorinated Final Effluent

LT = Less Than

NOTE: Sludge (#11832) values are reported on the

CITY OF BATTLE CREEK, MICHIGAN

DEPARTMENT OF PUBLIC WORKS
ZIP CODE 49017

WASTE WATER TREATMENT PLANT — 2000 WEST RIVER ROAD

AVERAGE SLUDGE ANALYSIS
1982
(11-30-81 through 11-21-82)

All results expressed in mg/kg (dry weight) unless otherwise specified.
BDL= Below Detectable Limits

PARAMETER	MEDIAN	MEAN
% Solids	20.2%	20.5%
% Volatile	50%	50%
Potassium	0.08%	0.08%
Magnesium	0.45%	0.44%
Calcium	12.0%	12.1%
Aluminum	-	3,700
Antimony	-	BDL
Arsenic	-	0.71
Barium	-	415
Beryllium	-	0.31
Boron	-	18.2
Cadmium	3.8	3.7
Chromium	320	333
Cobalt	-	7.3
Copper	420	436
Iron	-	2.7%
Lead	210	207
Lithium	-	4.0
Manganese	-	205
Mercury	-	0.56
Molybdenum	-	4.5
Nickel	190	229
Selenium	-	0.07
Silver	-	11.6
Sodium	-	890
Thallium	-	4.8
Titanium	-	77
Zinc	880	823
PBB	-	BDL
PCB (Total)	-	0.19
Phosphorus	0.64%	0.70%
Total Kjeldahl Nitrogen	3.3%	3.4%
Ammonia Nitrogen	0.12%	0.12%
Nitrate Nitrogen	TRACE	TRACE
Available Nitrogen	15.4 lb/T	16.1 lb/T
Lime (As $CaCO_3$ & $MgCO_3$)	31.4%	32.0%

DNR Submittal

CITY OF BATTLE CREEK, MICHIGAN

WASTEWATER DIVISION

OFFICE OF THE SUPERINTENDENT

Cortland V. Overmyer

(616) 966-3513

2000 W. River Road

Battle Creek, MI 49015

January 17, 1986

Mr. Jeffrey J. Braunscheidel
Surface Water Quality Division
MI Department of Natural Resources
301 E. Louis B. Glick Highway, 4th Floor
Jackson, MI 49201

SUBJECT: SAMPLING AND MONITORING INFORMATION FOR ISPP PROGRAM

Dear Jeff:

As we have discussed several times in the past, we were required upon approval of our Industrial Pretreatment Program to submit a sampling and monitoring schedule by December 15. I had indicated to you that we were not prepared to do that on that date and we both agreed that it would be submitted as rapidly as possible. I have attached for your use a copy of this information, and hope that it will provide you with enough data to receive approval and an indication to go forward and collect the information.

I believe the tables and information to be self-explanatory, but would like to point out that we have conducted some sampling on our own prior to this request, and have found that some of the parameters listed in our Sewer Use Ordinance were nondetectable in our influent. It is our logic, therefore, to assume that since they were not available that there is no longer any need to analyze for these parameters except through occasional grab sampling throughout the year. As we also discussed, we have plans on doing this periodically so that we also might monitor our influent for extraneous materials that should not be there.

The results in Table I have led to the sampling and monitoring schedule listed in Table II. Upon receipt of your approval we will proceed with this Sampling and Monitoring Program and will notify you by telephone as to

when we will conduct the sampling. I trust this information will be satisfactory and you would not hesitate to contact either myself or Mike Andrews if you desire additional information.

Sincerely,

CITY OF BATTLE CREEK, MICHIGAN

Cortland V. Overmyer

Cortland V. Overmyer
Division Superintendent

CVO/ac

Attachments

cc: L. Osborn, Public Utilities Director
W. Burke/M. Andrews, Operations
[redacted]

TABLE 1

BATTLE CREEK SEWER USE ORDINANCE	REMOVAL RATE (%) USED TO CALCULATE ORDINANCE LIMITS	REMOVAL RATE (%) PER TESTING PERFORMED (SEPT. 1985)
Antimony	15	No Data
Arsenic	50	BDL
Barium	--	No Data
Benzidine	--	BDL
Beryllium	--	No Data
Cadmium	50	Lower Detection Required
Carbon Tetrachloride	--	BDL
2-Chlorophenol	--	BDL
Chromium, Hexavalent	--	Further Data Needed
Chromium, Total	70	90
Copper	82	71
Cyanides	59	Lower Detection Required
2,4-Dichlorophenol	--	BDL
Herbicides and/or Pesticides	--	No Data
Lead	57	BDL
Mercury	51	BDL
Nickel	32	38
PBB	--	BDL
PCB's	--	Further Data Needed
Phenols	69	Further Data Needed
Selenium	--	BDL
Silver	70	Lower Detection Required
2,4,6-Trichlorophenol	--	BDL
Zinc	75	85

TABLE 2

PARAMETER	SAMPLING SCHEDULE	REQUIRED DETECTION LIMIT
Antimony	1 Grab/Week/4 Weeks	1.0 mg/l
Barium	1 Grab/Week/4 Weeks	2.0 mg/l
Beryllium	1 Grab/Week/4 Weeks	0.5 mg/l
Cadmium	1 Grab/Week/4 Weeks	1.0 ug/l
Chromium, Hexavalent	1 Grab/Week/4 Weeks	0.5 mg/l
Cyanides	1 Grab/Week/4 Weeks	1.0 ug/l
PCB's	1 Grab/Week/4 Weeks	0.1 ug/l
Phenols	1 Grab/Week/4 Weeks	3.0 mg/l
Silver	1 Grab/Week/4 Weeks	0.4 ug/l
4-Chloro-3-Methyl Phenol*	1 Grab/Week/4 Weeks	5.0 ug/l

*Not included in the Sewer Use Ordinance, but requested by the DNR staff as a result of the Toxic Substance Monitoring Report data.

CITY OF BATTLE CREEK

Inter-Office
MEMO

Date January 16, 1986

To: Cortland V. Overmyer, Superintendent
Wastewater Division
From: Michael G. Andrews
Industrial Surveillance
Regarding: Sampling Information per DNR's Request

The City proposes the following sampling program to prove actual removal rates based on the results from Table 1 and requested parameters from DNR staff.

Parameter	Sampling Schedule	Required Detection Limit
Antimony	1 Grab/Week/4 Weeks	1.0 mg/l
Barium	1 Grab/Week/4 Weeks	2.0 mg/l
Beryllium	1 Grab/Week/4 Weeks	0.5 mg/l
Cadmium	1 Grab/Week/4 Weeks	1.0 ug/l
Chromium, Hexavalent	1 Grab/Week/4 Weeks	0.5 mg/l
Cyanides	1 Grab/Week/4 Weeks	1.0 ug/l
PCB's	1 Grab/Week/4 Weeks	0.1 ug/l
Phenols	1 Grab/Week/4 Weeks	3.0 mg/l
Silver	1 Grab/Week/4 Weeks	0.4 ug/l
4-chloro-3-methyl phenol*	1 Grab/Week/4 Weeks	5.0 ug/l

*Not included in the Sewer Use Ordinance, but requested by the DNR staff as a result of the Toxic Substance Monitoring Report data.

Testing has been performed by the City that has proven that several pollutants are no longer detectable in the wastewater influent. We feel justified in not testing for these materials any further. The above-mentioned parameters still require further testing and we propose to accomplish the same upon approval from DNR staff.

MA/cj

Attachment

CITY OF BATTLE CREEK, MICHIGAN

WASTEWATER DIVISION

OFFICE OF THE SUPERINTENDENT

Cortland V. Overmyer

(616) 966-3513

2000 W. River Road

Battle Creek, MI 49015

July 18, 1989

Ms. Diane Miller
Permits Section, SWQD
MI Department of Natural Resources
Stevens T. Mason Building
Post Office Box 30028
Lansing, MI 48909

Dear Ms. Miller:

RE: DRAFT NPDES PERMIT NO. MI0022276

I appreciated the time you and Mr. Braunscheidel gave me last week (July 11, 1989) to discuss the conditions in the City of Battle Creek's draft NPDES Permit. I would like to take this opportunity to re-state what I believe to be the resolutions of these issues:

1. The City of Battle Creek requests the results of the MDNR Kalamazoo River Study, conducted during late 1986, be used as a basis for demonstration that aquatic weeds cause a dissolved oxygen fluctuation greater than 1 mg/l in the river. It is reasoned therefore that the 4.0 mg/l limit should be used as the dissolved oxygen standard for this facility as Mr. John Suppnick indicated in his report. Further, it is requested that his recommendations of 30 mg/l $CBOD_5$ and 4 mg/l NH_3-N be reviewed as well.

2. The City requests that all "organics" monitoring be removed from the Permit since previous monitoring has failed to reveal any significant discharges to the river or concentrations in sludges since October 1986. Benzene was only ever detected once in December 1988 and only ever found in the discharge of the cyanide user who closed down (See #3 Below). We are assuming therefore that this problem has corrected itself through the elimination of this user from the system. We will continue monitoring for benzene through the IPP Program but feel it should be removed from the required monitoring in the Permit. It is further understood that PCB's, silver and cadmium will remain as quarterly monitoring only until more data on discharge frequencies and concentrations can be collected. If non-detectable, it is understood that we can request to have the monitoring removed from the Permit also. Copies of certifications for chlorophenolic use are attached.

3. The City requests the elimination of cyanide monitoring as Industrial Pretreatment surveys have revealed only one (1) cyanide user in the City who has since closed down (See Attachments). We have not found cyanide since early 1989 with exceptions in May when we surmise that final clean-up was taking place at the facility where cyanide was previously used.

4. The City requests that its design flow data be revised to reflect the design loading limits of 65,000 pounds per day of BOD_5 and 62,000 pounds per day of suspended solids. Based on the past seventeen (17) months of influent data, concentrations are roughly double the basis of design (288 mg/l vs 447 mg/l) of BOD_5 and (274 mg/l vs. 478 mg/l) of suspended solids which effectively lowers the design flow of 27 MGD to 17 or 18 MGD. Please recalculate the discharge parameters for this facility based on this revised flow data using 18 MGD.

I trust this information will be reviewed and will change the draft accordingly. Again, I appreciate the time you have spent working with us to create a document that assures water quality with a reasonable and economical approach.

Sincerely,

CITY OF BATTLE CREEK, MICHIGAN

Cortland V. Overmyer
Superintendent
Wastewater Division

/ac

Attachments

cc: R. Leaders, City Manager
P. Levy, City Attorney
J. Braun-Seidel, MDNR
K. Chandler, WWOS
File

ANALYTICAL SERVICES

CLIENT:	Battle Creek WWTP		
PROJECT:	Quarterly Sampling	DATE SAMPLED:	09/07/89
ASI REF. NO.:	92322	DATE RECEIVED:	09/11/89
SAMPLED BY:	Battle Creek WWTP - CK	DATE FINISHED:	10/02/89
DESCRIPTION:	Water Sample	REPORT DATE:	10/03/89
ANALYST:	LBC, MSZ, EE		

ASI SAMPLE I.D.:	8069	Limit of
CLIENT SAMPLE I.D.:	Battle Creek WWTP	Detection
AROCHLOR 1016	ND	0.50 ug/L
AROCHLOR 1221	ND	0.50 ug/L
AROCHLOR 1232	ND	0.50 ug/L
AROCHLOR 1242	ND	0.50 ug/L
AROCHLOR 1248	ND	0.50 ug/L
AROCHLOR 1254	ND	0.50 ug/L
AROCHLOR 1260	ND	0.50 ug/L
AROCHLOR 1262	ND	0.50 ug/L
AROCHLOR 1268	ND	0.50 ug/L

ND = Non Detectable

All results are in ug/L

Robert J. Allard, Jr.
Vice President/Chemist

CITY OF BATTLE CREEK, MICHIGAN

WASTEWATER DIVISION

OFFICE OF THE SUPERINTENDENT

Cortland V. Overmyer

(616) 966-3513

2000 W. River Road

Battle Creek, MI 49015

January 12, 1990

Mr. Jeff Braunscheidel
Environmental Quality Analyst
Surface Water Quality Division
301 East Louis B Glick Highway
Jackson, MI 49201

Dear Jeff:

RE: CORRECTIONS TO 1989 DMR'S

After recent conversations with staff at EPA concerning previous deficiencies on Discharge Monitoring Report (DMR) forms, I have agreed to certain changes in the way our data is reported. These changes are as follows:

- On BOD5 results run on a weekly basis, we will report the highest weekly reading as the "7-day average" even though only one sample was analyzed for the week and the number is not representative of a 7-day average.

- On data where results are "non-detectable", the figures will be given as "less than the detection limit" and not "less than or equal to."

With these changes in place, I have taken the time to review the MOR's and DMR's for 1989 and would like to formally change the data as follows:

- Carbon tetrachloride was reported as "less than or equal to" for the months of January, April, May, June, July, August, and September. I have also noticed that this parameter evidently was omitted from the October, November, and December DMR. The values on the DMR's for all these months should be "less than the detection limit" and not "less than or equal to".

- Flow figures for March 1989 DMR should be 12.29 MGD (30 - DAY AVG) and 14.03 MGD (DLY MAX). These were accidentally left off the DMR but were on the MOR's submitted to MDNR.

- Benzene was reported as "less than or equal to" for the months of June and September and accidentally left off the March DMR and MOR. The reported values for all these quarterly samples were "non-detectable" or "less than the detection limit" for the DMR's.

- 2-chlorophenol was reported as "less than or equal to" for the months of January, April, May, June, July, August, and September. This parameter also was omitted from the pre-printed DMR's for October, November, and December but was reported on the MOR to MDNR. The values for these months should be "less than the detection limit".

- 2,4-dichlorophenol was reported as "less than or equal to" for the months of January, April, June, July, August, September, October, and November. The values for these months should be "less than the detection limit".

- 2,4,6-trichlorophenol was reported as "less than or equal to" for the months of January, April, May, June, July, August, September, October, and November. The values for these months should be "less than the detection limit".

- Benzidine was reported as "less than or equal to" for the months of January, April, May, June, July, and August. The parameter was also omitted from the October, November, and December preprinted DMR but was reported to MDNR on the MOR's. The values for these months should be "less than the detection limit".

- PCB's were reported as "less than or equal to" for the months of January, April, May, June, July, August, September, October, and November. The values for these months should be "less than the detection limit".

- Cadmium was accidentally reported on the November DMR as "less than or equal to". The reported values of 0.13 and 0.22 are actual readings as reflected on the MDNR's MOR.

- Lead was left off the preprinted October, November, and December DMR's but was reported on the MOR's to MDNR. The values for these months respectively are: (2.3 ug/l - 30 DAY AVG; 6.9 ug/l DLY MAX), (1.1 ug/l - 30 DAY AVG; 2.4 ug/l - DLY MAX), and (1.2 ug/l - 30 DAY AVG; 2.5 ug/l - DLY MAX).

- Silver was left off the preprinted October, November, and December DMR's but was reported on the MOR's to MDNR. The values for these months respectively are: (0.4 ug/l - 30 DAY AVG; 0.84 ug/l - DLY MAX), (0.41 ug/l - 30 DAY AVG; 1.2 ug/l - DLY MAX), and (0.35 ug/l - 30 DAY AVG; 0.57 ug/l - DLY MAX).

- BOD5 for the months of May, June, July, and August did not have a number placed in the "7-day average" box on the DMR. These numbers should be 13, 7, 19, and 7 respectively.

Sincerely,

CITY OF BATTLE CREEK, MICHIGAN

Cortland V. Overmyer
Superintendent
Wastewater Division

/ac

cc: P. Levy, City Attorney
L. Ross-Sides, Deputy Public Works Director
D. Keglik, USEPA Region V
File ✓

CITY OF BATTLE CREEK, MICHIGAN

WASTEWATER DIVISION

OFFICE OF THE SUPERINTENDENT

Cortland V. Overmyer

(616) 966-3513

2000 W. River Road

Battle Creek, MI 49015

August 8, 1990

Mr. Jeff Braunscheidel
Environmental Quality Analyst
Surface Water Quality Division
301 East Louis B Glick Highway
Jackson, MI 49201

Dear Jeff:

RE: PCB DATA FOR INFLUENT/SLUDGE -- SECOND QUARTER 1990

As indicated to you by telephone last month and on the note attached to the June 1990 DMR, we were unable to send timely results for PCB, Influent, and Sludge for the Second Quarter 1990. The data is now available and I am forwarding you the results, formally, by way of this letter and will also send another note attached to the July DMR for the Data Center. Would you please see that our records appropriately reflect that these results were obtained to prevent any enforcement actions? As you can see, the results are still showing PCB's as non-detectable at this site.

TOTAL PCB (SLUDGE) = 0
TOTAL PCB (INFLUENT) = 0

Please let me know if you need additional clarification on this matter.

Sincerely,

Cortland V. Overmyer
Superintendent

/ac
Attachments
cc: P. Levy, City Attorney
L. Ross-Sides, Deputy Public Works Director
File

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

June , 1990

QUARTERLY

Day	Influent Total PCB ug/L	Sludge Total PCB mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	00680	01077	
1						NDQ
2						0.7
3						NDQ
4						0.2
5						0.1
6			L0.01			NDQ
7						0.7
8		L63*				NDQ
9						NDQ
10						NDQ
11				0.18	0.49	NDQ
12						NDQ
13						NDQ
14						NDQ
15						NDQ
16						NDQ
17						NDQ
18						NDQ
19						NDQ
20						NDQ
21						NDQ
22						NDQ
23						NDQ
24						NDQ
25						NDQ
26						1.7
27						0.9
28						0.4
						NDQ
						NDQ
TL		L63*	L0.01	0.18	0.49	4.7
ME		L63*	L0.01	0.18	0.49	0.2
MAX		L63*	L0.01	0.18	0.49	1.7

NOTE: * = Two week grab composite sample; Dates 6-8-90 to 6-22-90
NDQ = no determinable quantities
L = below detectable limit

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

JULY , 1990

QUARTERLY

Day	Influent Total PCB ug/L	Sludge Total PCB ug/L	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	00680	01077	
1						NDQ
2						NDQ
3						NDQ
4						NDQ
5						NDQ
6						NDQ
7						NDQ
8						1.5
9						2.3
10						2.4
11						1.7
12	L0.2					1.8
13						1.1
14						NDQ
15						0.8
16						0.1
17						1.5
18						1.4
19						0.8
20						NDQ
21						NDQ
22						NDQ
23						1.5
24						2.9
25						NDQ
26						2.4
27						NDQ
28						NDQ
						0.7
						2.3
						1.8
TL	0.00	0.00	0.00	0.00	0.00	27.1
ME	ERR	ERR	ERR	ERR	ERR	0.9
MAX	ERR	ERR	ERR	ERR	ERR	2.9

NOTE: * = 7 day average
NDQ = no determinable quantities
L = below detectable limit

CITY OF BATTLE CREEK, MICHIGAN

PUBLIC WORKS DEPARTMENT

Wastewater Division

Cortland V. Overmyer, Superintendent

May 20, 1991

Mr. Jeff Braunscheidel
Environmental Quality Analyst
Surface Water Quality Division-MDNR
301 East Louis B Glick Highway
Jackson, MI 49201-1556

Dear Jeff:

RE: CORRECTIONS TO DMR'S (1986 - 1988)

As you are well aware, the City of Battle Creek was cited by USEPA for a number of DMR discrepancies in October 1989. Most of the allegations were attributable to several reporting transpositions and a misrepresentation of the reported values of several organic chemicals and seven (7) day BOD's.

I call your attention to a January 12, 1990, letter that I sent to you requesting a formal correction of the 1989 DMR deficiencies. The first paragraph cites two (2) misunderstandings as to how data was to be reported. We did not, however, go back and change the period questioned by EPA at that time (i.e. 1986-1988).

I recently received a phone call from USFPA (Region V) regarding validation of some PCB data for 1988. I discovered that the values used by EPA in their study were the values we found to be reported erroneously. Since I had not considered that these numbers might be used in studies of this sort, I believe it would be in the City's best interests to go back into the data reporting system archives and immediately change the data to the properly reported values.

With this information in place, I have reviewed the MOR's and DMR's for 1986-1988 and would like to formally change the reported data as follows:

- 1986 -

. JUNE (TOTAL BOD-5) -- 7 DA = 12 mg/l

. JULY (DISSOLVED OXYGEN) -- July 12 should be "blank" instead of zero (0) as the chlorine contact tank was being cleaned that day and no measurement was recorded at the normal sampling point.

2000 West River Road, Battle Creek, MI 49015-1181 (616) 966-3513

- 1987 -

. MAY (CADMIUM, LEAD, SILVER) = < 0.15 ug/l, < 7.0 ug/l, 1.2 ug/l, respectively.

. JUNE (BOD, 5-DAY) -- 7 DA AV = 14 mg/l

. JULY (BOD, 5-DAY) -- 7 DA AV = 15 mg/l

. AUGUST (BOD, 5-DAY) -- 7 DA AV = 9 mg/l

. SEPTEMBER (BOD, 5-DAY) -- 7 DA AV = 6 mg/l

. OCTOBER (BOD, 5-DAY) -- 7 DA AV = 11 mg/l

. NOVEMBER (BOD, 5-DAY) -- 7 DA AV = 15 mg/l

- 1988 -

. JUNE (BOD, 5-DAY) -- 7 DA AV = 20 mg/l

. JUNE (BENZENE) -- < 0.2 (Data reported on May MOR for quarter)

. JULY (BOD, 5-DAY) -- 30 DA AV = 3 mg/l instead of 11.9 mg/l

. JULY (BOD, 5-DAY) -- 7 DA AV = 3 mg/l

. JULY (BENZIDINE) -- < 50 ug/l

. JULY (PCB's) -- < 0.5 ug/l

. JULY (CARBON TETRACHLORIDE) -- <0.12 ug/l

. JULY (2-CHLOROPHENOL) -- < 0.31 ug/l

. JULY (2,4-DICHLOROPHENOL) -- < 0.39 ug/l

. JULY (2,4,6-TRICHLOROPHENOL) -- < 0.64 ug/l

. AUGUST (BOD, 5-DAY) -- 7 DA AV = 7 mg/l

. AUGUST (DISSOLVED OXYGEN) -- DAILY MIN = 6.5 mg/l

. OCTOBER (BOD, 5-DAY) -- 7 DA AV = 8 mg/l

. OCTOBER (BENZIDINE) -- < 0.08 ug/l

. NOVEMBER (BOD, 5-DAY) -- 30 DA AV = 8 mg/l

. NOVEMBER (BOD, 5-DAY) -- 7 DA AV = 11 mg/l

. NOVEMBER (BENZIDINE) -- < 0.08 ug/l

. DECEMBER (BENZIDINE) -- < 0.08 ug/l

I would appreciate having some type of confirmation that these changes as well as the changes requested in 1989 were indeed made by the Data Center. Is this possible?

I appreciate your assistance in this matter and trust if you have any questions that you would not hesitate to contact me.

Sincerely,

CITY OF BATTLE CREEK

Cortland V. Overmyer
Superintendent
Wastewater Division

/ac

cc: Paul Levy, City Attorney
Kenneth Tsuchiyama, Public Works Director
Arnold Leder, USEPA Region V
File

CITY OF BATTLE CREEK, MICHIGAN

WASTEWATER DIVISION

OFFICE OF THE SUPERINTENDENT

Cortland V. Overmyer

(616) 966-3513

2000 W. River Road

Battle Creek, MI 49015

July 11, 1990

Mr. Jeff Braunscheidel
Environmental Quality Analyst
Surface Water Quality Division
301 East Louis B Glick Highway
Jackson, MI 49201

Dear Jeff:

RE: DMR CORRECTIONS -- MARCH 1990

As discussed with you on the telephone yesterday, I am sending this letter correcting the March 1990 DMR values for Cadmium and PCB's (Influent).

The Cadmium value should be "0" instead of $\leq$ 0.2 as reported since the measured value was below detection.

The PCB (Influent) value should be blank since I am unable to locate any results from our laboratory indicating that testing was conducted on this sample. I have discovered that through an oversight, this testing was left off of our bid request for contracted analytical work. We have collected a sample for analysis and will be certain it is included in the next quarter.

I would also point out the attached note to the June 1990 DMR explaining the blanks for PCB (Influent) and PCB (Sludge). Once values are available, they will be forwarded.

I trust this information is satisfactory for your use and you would not hesitate to contact me with any questions.

Sincerely,

Cortland V. Overmyer
Superintendent

/ac

cc: P. Levy, City Attorney
L. Ross-Sides, Deputy Public Works Director
File

CITY OF BATTLE CREEK, MICHIGAN

WASTEWATER DIVISION

OFFICE OF THE SUPERINTENDENT

Cortland V. Overmyer

(616) 966-3513

2000 W. River Road

Battle Creek, MI 49015

July 17, 1991

Jeff Braunscheidel
MDNR - Jackson State Office Bldg.
301 Lewis Glick Highway
Jackson, MI 49201

Dear Jeff:

Enclosed is a revised Additional Chemical Analysis sheet reflecting updated PCB analysis for the Influent and Activated Sludge Effluent (ASE).

Kemron Laboratories repeated the PCB analysis to try and achieve lower detection limits. They were able to lower the detection limits for both samples.

Should you have any questions, please contact me.

Sincerely,

CITY OF BATTLE CREEK

Cortland V. Overmyer
Superintendent

/ck

cc: File

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ADDITIONAL CHEMICAL ANALYSES
Battle Creek, Michigan
ID #130027

JUNE , 1991 (REVISED)

QUARTERLY

Day	Influent Total PCB ug/L	Sludge Total PCB * mg/kg	ASE Total PCB ug/L	ASE Cadmium ug/L	ASE Silver ug/L	ASE Cyanide Amenable to Chlorination ug/L
PN	39516	39516	39516	00680	01077	
1		L1.0				NDQ
2						1.4
3						6.1
4						2.5
5						2.9
6						2.9
7						5.8
8						NDQ
9						NDQ
10	BDL		BDL			NDQ
11						0.3
12						4.2
13						NDQ
14						0.3
15						NDQ
16						NDQ
17				L0.2	L0.2	1.3
18						2.4
19						1.7
20						5.3
21						NDQ
22						NDQ
23						NDQ
24						6.9
25						NDQ
26						NDQ
27						1.7
28						1.6
29						1.4
30						1.5
TL	See Below	L1.0	See Below	L0.2	L0.2	50.0
ME		L1.0		L0.2	L0.2	1.7
MAX		L1.0		L0.2	L0.2	6.9

NOTE: * = Dry weight basis, 2 week grab composite sample -
= (5/29/91 TO 6/11/91).
NDQ = no determinable quantities
BDL = below detectable limit; revised, PCB analysis repeated.
= For Aroclor-1016, -1221, -1232, -1242, -1248 -
= L0.5 ug/L (ASE) & L5.0 ug/L (I).
= For Aroclor-1254, -1260 = L1.0 ug/L (ASE) & L10.0 ug/L (I).

STATE OF MICHIGAN

NATURAL RESOURCES COMMISSION
HARRY H. WHITELEY
Chairman
CARL T. JOHNSON
E. M. LAITALA
HILARY F. SNELL

WILLIAM G. MILLIKEN, Governor

DEPARTMENT OF NATURAL RESOURCES
STEVENS T. MASON BUILDING, LANSING, MICHIGAN 48926
RALPH A. MAC MULLAN, Director

WATER RESOURCES COMMISSION
JOHN H. KITCHEL, M.D.
Chairman
JOHN P. WOODFORD
Vice Chairman
CHARLES D. HARRIS
JOHN E. VOGT
STANLEY QUACKENBUSH
ALVIN R. BALDEN
THOMAS F. JAMES

October 26, 1972

Mr. Edward Johnson, Supt.
Wastewater Treatment Plant
21000 West River Rd.
Battle Creek, MI 49014

Dear Sir:

Within the past year, the Michigan Water Resources Commission has collected water samples from over fifty wastewater treatment plants in the state to analyze for polychlorinated biphenyls (PCB's). The results of these analyses have been used as a screening device to identify systems that are receiving high levels of PCB's. The wastewater treatment plants that were discharging problem levels of PCB's have been resampled, and if high concentrations were still present, many were further sampled via interceptor systems to locate possible sources of the contaminants.

PCB concentrations in the effluent at the 1,000 parts per trillion (ppt) range or higher have our highest priority for further investigation. As time permits, wastewater treatment systems with more intermediate levels will probably be investigated also. Values with a less than (<) sign indicate that PCB concentrations were not detectable at the given detectability concentration.

The results from the samples collected at your plant are attached. Thank you for your cooperation.

Sincerely,

WATER RESOURCES COMMISSION

John L. Hesse

John L. Hesse, Aquatic Biologist
Water Quality Appraisal Section

JLH:sc

RECEIVED
Date Oct. 27-72
By
City of Battle Creek

MICHIGAN
THE GREAT LAKE STATE

PCB Analysis Results

Location	Date	Conc. in ppt.
Battle Creek WWTP	10-5-71	390
8 hr. composite	3-28-72	160
Final effluent	2-21-72	920
	6-6-72	280
	6-7-72	210

Facility: BATTLE CREEK WWTP

Permit No.: MI0022276

SECTION D. COMPLIANCE SCHEDULE STATUS REVIEW

YES	NO	N/A	
	X		THE PERMITTEE IS MEETING THE COMPLIANCE SCHEDULE FOR CONSTRUCTION ACTIVITIES.
X			THE PERMITTEE IS MEETING THE COMPLIANCE SCHEDULE FOR PERMIT CONDITIONS.
	X		1. The permittee has obtained necessary approvals to begin construction.
	X		2. Financing arrangements are complete.
	X		3. Contracts for engineering services have been executed.
	X		4. Design plans and specifications have been completed.
	X		5. Construction has begun.
	X		6. Construction is on schedule.
	X		7. Equipment acquisition is on schedule.
	X		8. Construction has been completed.
	X		9. Start-up has begun.
	X		10. The permittee has requested an extension of time.

11. Other permit schedule items:

	Due	Submitted	Approved
Program for Effective Residual Management:	12/31/84		2/19/85
Chlorine Control Status Rep:	12/31/88	12/29/88	
Long-Term PCB Compliance Plan:	7/1/87	6/29/87	
Alternate Power Source Rep.:	3/31/85		4/1/85
IPP Status Report:	10/31/88	10/31/88	

Section D. completed by: JEFFREY BRAUNSCHEIDEL Date: 8/30/89

CC: CHRIS
5-13-92
ac

STATE OF MICHIGAN

NATURAL RESOURCES COMMISSION
LARRY DEVUYST
PAUL EISELE
GORDON E. GUYER
JAMES P. HILL
DAVID HOLLI
O. STEWART MYERS
JOEY M. SPANO

JOHN ENGLER, Governor

DEPARTMENT OF NATURAL RESOURCES

ROLAND HARMES, Director

4th Floor State Office Building
301 E. Louis Glick Hwy., Jackson, Michigan 49201

May 9, 1992

John F. O'Brien, Public Utilities Manager
2000 West River Road
PO Box 1717
Battle Creek, Michigan 49016

Dear Mr. O'Brien:

Subject: PCB Sampling
Battle Creek WWTP NPDES Permit No. MI0022276

Per discussions yesterday with Chris Kusmowski of your staff, regarding PCB detection levels, the following level and methodology shall be used:

Detection level: 0.1 ug/l
EPA method: 608

Thank you.

Sincerely,

Brett Wisely

Brett Wiseley
Environmental Quality Analyst
Surface Water Quality Division
517-780-5000

RECEIVED

MAY 12 1992

WASTEWATER TREATMENT PLANT

RECYCLED PAPER

SAMPLE ID 1 FRACTION 01C TEST CODE SC 8 NAME Scan 3 Water
Date & Time Collected 10/21/92 Category

ANALYST W MS
ANALYZED 11/03/92
DILUTION 1 UNITS ug/L ppb

CAS#	COMPONENT	RESULT	REMARK	DETECTION LIMIT
541-73-1	1,3-Dichlorobenzene	ND		[illegible]
106-46-7	1,4-Dichlorobenzene	[illegible]		[illegible]
95-50-1	1,2-Dichlorobenzene	ND		[illegible]
67-72-1	Hexachloroethane	ND		[illegible]
108-70-3	1,3,5-Trichlorobenzene	ND		[illegible]
120-82-1	1,2,4-Trichlorobenzene	ND		[illegible]
87-61-6	1,2,3-Trichlorobenzene	ND		[illegible]
87-68-3	Hexachlorobutadiene	ND		[illegible]
95-94-7	1,2,4,5-Tetrachlorobenzene	[illegible]		[illegible]
77-47-4	Hexachlorocyclopentadiene	ND		[illegible]
91-58-7	2-Chloronaphthalene	ND		[illegible]
634-66-2	1,2,3,4-Tetrachlorobenzene	ND		[illegible]
608-93-5	Pentachlorobenzene	ND		[illegible]
319-84-6	a-BHC	ND		0.010
118-74-1	Hexachlorobenzene	ND		0.01[illegible]
319-85-7	b-BHC	ND		[illegible]
58-89-9	g-BHC (Lindane)	0.009		0.010 ← PESTICIDE
82-68-8	Pentachloronitrobenzene	ND		[illegible]
319-86-8	d-BHC	ND		[illegible]
76-44-8	Heptachlor	ND		[illegible]
309-00-2	Aldrin	ND		0.010
1024-57-3	Heptachlor epoxide	ND		0.010
5103-74-2	g-Chlordane	ND		[illegible]
959-98-8	Endosulfan I	ND		0.010
5103-71-9	a-Chlordane	ND		[illegible]
72-55-9	4,4'-DDE	ND		0.010
72-20-8	Endrin	ND		0.010
60-57-1	Dieldrin	ND		0.010
72-54-8	4,4'-DDD	ND		0.01[illegible]
50-29-3	4,4'-DDT	ND		0.010
87-82-1	Hexabromobenzene	ND		0.010
72-43-5	Methoxychlor	ND		0.010
2385-85-5	Mirex	ND		0.010
53469-21-9	Aroclor 1242 (PCB)	ND		0.10
11097-69-1	Aroclor 1254 (PCB)	ND		0.10
11096-82-5	Aroclor 1260 (PCB)	ND		[illegible]
12674-11-2	*Aroclor 1016 (PCB)	ND		0.10
11104-28-2	*Aroclor 1221 (PCB)	ND		0.10
11141-16-5	*Aroclor 1232 (PCB)	ND		0.10
12672-29-6	*Aroclor 1248 (PCB)	ND		0.10
- -	*Aroclor 1262 (PCB)	ND		0.10
11100-14-4	*Aroclor 1268 (PCB)	ND		[illegible]
37324-23-5	*BP-6 (PBB)	ND		0.050

KAR Laboratories, Inc.

ANALYTICAL REPORT

: Nippondenso Mfg. U.S.A., Inc.

Project No. : 921303
Report Date : 6/26/92
Sample Number : 921303-01

: **U.S. EPA PESTICIDE AND PCB PRIORITY POLLUTANTS**

ample
.D. : "IWWT, 5:00pm"

	CONC.		CONC.
CB-1016	<100	4,4'-DDD	<10
CB-1221	<100	Alpha-Endosulfan	<50
CB-1232	<100	Beta-Endosulfan	<50
CB-1242	<100	Endosulfan Sulfate	<10
PCB-1248	<100	Endrin	<10
PCB-1254	<100	Endrin Aldehyde	<10
PCB-1260	<100	Heptachlor	<10
Chlordane	<100	Heptachlor Epoxide	<10
Toxaphene	<100	Alpha-BHC	<10
Aldrin	<10	Beta-BHC	<10
Dieldrin	<10	Delta-BHC	<10
4,4'-DDT	<10	Gamma-BHC (lindane)	<10
4,4'-DDE	<10		

Concentrations are expressed as ug/L

"<" indicates not detected at the stated detection limit

An individual grab is a single instantaneous sample.

Samples were analyzed by the Environmental Protection Bureau Laboratories located in Lansing.

Samples were preserved according to Table 6. The results of the physical, chemical and bacteriological analyses are presented in Tables 1 & 2. Letter codes for laboratory results are defined in Table 6.

Table 1 Analyses of composite samples.

Outfalls		130027 (001)		Influent
Survey Period	From	6-8-81 - 1200		6-8-81 - 1220
	To	6-9-81 - 1200		6-9-81 - 1220
Computed flow rate[1] (M^3/day)		44,900		--
		mg/l	kg/day	mg/l
COD		57	2,600	--
TOC		15.	670	--
$CBOD_5$		4.7	210	--
BOD_5		8.5	380	420
Nitrite & nitrate nitrogen-N		1.8	81	0.16
Ammonia nitrogen-N		1.6	72	4.6
Kjeldahl nitrogen-N		4.2	190	20.
Orthophosphates-P		0.12	5.4	0.60
Total phosphorus-P		0.46	21	4.2
Chlorides		190	8,500	--
Suspended solids		13	580	230
Dissolved solids		700	30,000	--
		ug/l		ug/l
Total cadmium (Cd)		< 20	--	< 20
Total chromium (Cr)		< 50	--	600
Total copper (Cu)		< 50	--	170
Total nickel (Ni)		100	4	330
Total lead (Pb)		< 50	--	< 50
Total zinc (Zn)		60	3	300
Total iron (Fe)		160	7.2	14,000
Total mercury (Hg)		< 1	--	< 1
Total aluminum (Al)		< 1,000	--	1,400
PCB 1242		< 0.1	--	< 0.3
PCB 1254		< 0.1	--	< 0.3
PCB 1260		< 0.1	--	< 0.3
Organochlorine Pesticides		U	--	U

1 - Flow rates used in the computation of kg/day.
To obtain MGD multiply M^3/day by 0.0002642
To obtain lbs/day multiply kg/day by 2.205

Battle Creek Wastewater Treatment Plant

Table 5 Comparison of the previous survey results with the results obtained in this survey.

Outfall		130027 (001)	
Survey Date	From	1-17-80	6-8-81
	To	1-18-80	6-9-81
Flow Rate (M^3/day)		31,300	44,900
		mg/l	mg/l
COD		96	57
TOC		30	15.
BOD_5		18	8.5
BOD_5 (Carb.)		14	4.7
Nitrite & nitrate nitrogen-N		2.3	1.8
Ammonia nitrogen-N		0.082	1.6
Total phosphorus-P (Effluent)		0.62	0.46
Total phosphorus-P (Influent)		4.3	4.2
Chlorides		155	190
Suspended solids		46	13
Dissolved solids		676	700
		ug/l	ug/l
Total chromium (Cr)		< 100	< 50
Total copper (Cu)		20	< 50
Total nickel (Ni)		300	100
Total lead (Pb)		< 50	< 50
Total zinc (Zn)		80	60
Total iron (Fe)		700	160
PCB 1242		< 0.1	< 0.1
PCB 1254		< 0.1	< 0.1
PCB 1260		< 0.1	< 0.1

Table 6 Sample Preservation

Parameter	Preservative
COD & TOC	10 drops conc. H_2SO_4/250 ml (to pH <2).
D.O.	Fixed on site.
Total Metals	2 ml 1:1 HNO_3/250 ml (to pH <2).
Microbiology	2 drops 10% sodium thiosulfate/125 ml to dechlorinate sample.
Oil & Grease	10 drops conc. H_2SO_4/250 ml (to pH <2).
Acid & base-neutral extractables Purgeable Organics	Dechlorinated (if needed) with sodium thiosulfate (1 drop 0.141 N/mg/l Cl_2/250 ml).

All samples cooled to 4°C and preserved upon collection and chain of custody maintained.

Lab Letter Codes

U - Undetected
T - Trace
B - Results based upon colony counts outside acceptable range.
GC - Number of colonies counted greater than the upper limit '60 for fecal coliform).

Survey by: Ralph Reznick, Environmental Engineer
William Long, Water Quality Investigator
Richard Irvin, Water Quality Technician

Contact with Management: Cortland Overmyer, Superintendent and Certified Operator

Hydrocarbon Analyses by: Environmental Protection Bureau Laboratory

Physical, Chemical & Bacieriological Analyses by: Environmental Protection Bureau Laboratory

Report by: Ralph Reznick
Richard Irvin
Point Source Studies Section
Environmental Services Division
Environmental Protection Bureau
Michigan Dept. of Natural Resources

Distribution "A"
MM
10/23/81

Table 4 Comparison of the laboratory analytical results obtained by Battle Creek Wastewater Treatment Plant and the Environmental Protection Bureau from the split composite sample.

Outfall	130027 (001)	
	Battle Creek WWTP mg/l	E.P.B. mg/l
BOD_5	10	8.5
Total phosphorus-P (Effluent)	0.5	0.46
Total phosphorus-P (Influent)	4.1	4.2
Suspended solids	5	13

Battle Creek Wastewater Treatment Plant

Table 5 Comparison of the previous survey results with the results obtained in this survey.

Outfall		130027 (001)	
Survey Date	From	1-17-80	6-8-81
	To	1-18-80	6-9-81
Flow Rate (M^3/day)		31,300	44,900
		mg/l	mg/l
COD		96	57
TOC		30	15.
BOD_5		18	8.5
BOD_5 (Carb.)		14	4.7
Nitrite & nitrate nitrogen-N		2.3	1.8
Ammonia nitrogen-N		0.082	1.6
Total phosphorus-P (Effluent)		0.62	0.46
Total phosphorus-P (Influent)		4.3	4.2
Chlorides		155	190
Suspended solids		46	13
Dissolved solids		676	700
		ug/l	ug/l
Total chromium (Cr)		< 100	< 50
Total copper (Cu)		20	< 50
Total nickel (Ni)		300	100
Total lead (Pb)		< 50	< 50
Total zinc (Zn)		80	60
Total iron (Fe)		700	160
PCB 1242		< 0.1	< 0.1
PCB 1254		< 0.1	< 0.1
PCB 1260		< 0.1	< 0.1

TX Oct 10, 1990 - 2:30 pm

J. Braunscheidel

PCB Det Limit (Method 608) 0.065 ug/l

Pg 4 - PCB 0.01 ug/l - EPA Meth 608

INF (Method 608) Desired Det Limit 0.2 ug/l

10 Jul 90 2:50 PM. Tr to Jeff Braunscheidel
Re: Error in Monitoring PCBs

I discovered that we had not been monitoring PCB's on the influent as req'd by the new NPDES Permit (effective 1/1/90)
I told Jeff that I would write a letter indicating that Raw Sewage/Influent had been erroneously reported for Mar 90 DMR as ≤0.01 and in reality, no test had been run.
I also told him since we discovered this today -- we would collect a PCB (influent) sample and get it analyzed ASAP. I also pointed out that the sludge sample was collected June 8-22, 1990 and was sent to Contractor today -- obviously results would not be available until later.

DNR Phone Call

Date 6-30-81

Name _____

WHILE YOU WERE OUT

Name JoAnn Davidhizar - sludge mgmt.

Called to see / Telephoned you at 9:40A o'clock. Will / come in telephone again at _____ o'clock.

Wants you to phone. Telephone Number is _____

Remarks I called to ask if arachlor 1252 in her letter of 6-19-81 was correct or should it be 1254 not at desk - left message for her to return call

Signed Ruth VanTassell

(see back)

Returned call 9:45
said she'd check on
Aroclor 1254

Also said sludge sample she took
recently was screened up by
their lab. I said OK if
she wanted to throw out results

NATURAL RESOURCES COMMISSION
THOMAS J. ANDERSON
E. R. CAROLLO
JACOB A. HOEFER
STEPHEN F. MONSMA
HILARY F. SNELL
PAUL H. WENDLER
HARRY H. WHITELEY

STATE OF MICHIGAN

JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

RONALD O. SKOOG, Director

Reply to:

4th Flr. State Ofc. Bldg.
301 E. Louis Glick Hwy.
Jackson, MI 49201

RECEIVED

SEP 14 1984

WASTEWATER TREATMENT PLANT

September 12, 1984

Mr. Cortland Overmyer, Superintendent
Wastewater Treatment Plant
2000 West River Road
Battle Creek, Michigan 49015

Re: Nondomestic User Survey Approval,
Battle Creek IPP

Dear Mr. Overmyer:

Staff of the Department of Natural Resources have now completed review of the Industrial Pretreatment Program (IPP) Nondomestic User Survey submitted to meet the requirements contained in your NPDES permit. Your submittal has now met the User Survey Checklist requirements and is thus approved.

Our Toxic Chemical Evaluation Section (TCES) and Water Quality Surveillance Section (WQSS) have also reviewed the submittal. They have identified pollutants that are passing through the treatment process and being discharged at levels of concern. When the city's NPDES permit is modified to implement the pretreatment program, permit limits for these pollutants will be established. The pollutants and recommended limits are in table 1 below.

TCES has also identified pollutants that are of concern because of their potential to pass through the treatment process and be discharged. The modified NPDES permit will require the city to monitor these pollutants at the frequency and duration indicated in table 2.

Table 1

Parameter	Recommended Limit(ug/l) 30 Day Avg.	Daily Maximum		Monitoring Method	Detection Limit Necessary (ug/l)
cadmium	1.4	200	TEST 2000 ∠	-	0.5
cyanide (A)		33	MAYBE	-	15
silver		11.7	1000 ∠	-	2.0
2-chlorophenol		25	0.50 ∠	604	specified by method
2,4-dichlorophenol		45	0.66	604	"
benzidine		.01	?	605	"
2,4,6-trichlorophenol		9	1.2 ∠	604	"
PCB's	1.0×10^{-5}		MAYBE	608	"

Table 2

Parameter	Monitoring Frequency	Monitoring Method
4-chloro-3-methyl phenol	weekly for 6 weeks	604
*carbon tetrachloride	quarterly	601
*tetrachloroethylene	"	601
*benzene	"	602
*styrene	"	602

*carcinogenic

The city has the opportunity to demonstrate that these pollutants are not currently being discharged at levels of concern. To do so, a monitoring program consisting of weekly effluent sampling for six weeks would have to be performed. Since TCES and WQSS based their review on the 1981 TSMR submitted by the city, and because many changes have occurred at the WWTP since then, this monitoring would likely show that some of these pollutants are no longer being discharged.

We will recommend to the Water Resources Commission that your permit be modified to include the above limits and monitoring requirements unless your monitoring program (or available data of comparable reliability) demonstrates that these pollutants are not discharged at levels of concern and that no specific limit or monitoring is necessary.

Review of the remaining portions of your IPP will continue, and will not be held up awaiting results of effluent quality monitoring. Data supporting a revision in the recommended effluent limits or monitoring must be submitted to the District Office prior to the Department's approval of your final pretreatment program submittal and "Request to Implement".

Local limits that are derived to meet the recommended permit limits should be compared to the local limits needed to prevent interference with wastewater treatment processes and local limits needed to protect sludge management practices. The most restrictive of these should be used in establishing ordinance limits for the Legal Authority portion of the IPP.

Please notify us by September 21, 1984 if you intend to provide monitoring data supporting the deletion of recommended permit limits or monitoring requirements. If you have any questions or comments feel free to contact me.

Sincerely,

Jeffrey J. Braunscheidel

Jeffrey J. Braunscheidel
Water Quality Specialist
Surface Water Quality Division
517-788-9598

JJB:ys

cc: Mike Andrews, Industrial Surveillance
Pauline LeBlanc, EPA
Bruce Moore, Permits

CC: LEVY
OSBORN

CITY OF BATTLE CREEK, MICHIGAN

WASTEWATER DIVISION

OFFICE OF THE SUPERINTENDENT

Cortland V. Overmyer

(616) 966-3513

2000 W. River Road

Battle Creek, MI 49015

August 12, 1987

Mr. Fred Cowles, P.E.
Chief, Municipal Permits Unit
Surface Water Quality Division
Stevens T. Mason Building
Box 30028
Lansing, MI 48909

Dear Mr. Cowles:

Please find attached copies of data requested to substantiate our variance from the PCB Permit requirement. As mentioned in our earlier letter, we have been unable to detect this particular chemical in our plant influent and therefore do not feel it necessary to continue monitoring at the frequencies required in the Permit.

I believe the data attached will give you reasonable justification to grant this variance so that we might continue trying to provide a cost effective service to our users. If you need additional information, please do not hesitate to contact me.

Sincerely,

CITY OF BATTLE CREEK, MICHIGAN

Cortland V. Overmyer

Cortland V. Overmyer
Superintendent

/ac
Attachments
cc: L. Osborn, Public Utilities Director
M. Andrews, Industrial Surveillance
File

PCB ANALYSES

BATTLE CREEK WWTP INFLUENT

Analytical Services EDI Laboratory Report

for the

City of Battle Creek Wastewater Treatment Plant

Influent Characterization	Sample Date and Type			Detection Limit (ug/l)
	9/11/85 (Grab) Influent	9/13/85 (Grab) Influent	9/15/85 (Grab) Influent	
PCB: Aroclor 1016	<4.0	<8.0	<2.0	—
PCB: Aroclor 1221	<4.0	<8.0	<2.0	—
PCB: Aroclor 1232	<4.0	<8.0	<2.0	—
PCB: Aroclor 1242	<4.0	<8.0	<2.0	—
PCB: Aroclor 1248	<4.0	<8.0	<2.0	—
PCB: Aroclor 1254	<2.0	<8.0	<2.0	—
PCB: Aroclor 1260	<2.0	<8.0	<2.0	—

ANALYTICAL SERVICES
EDI LABORATORY REPORT

CLIENT: CITY OF BATTLE CREEK
PROJECT NO.: 25552
LOCATION: WWTP
SAMPLED BY: MIKE ANDREWS
DESCRIPTION: WASTEWATER MONITORING

DATE SAMPLED: 05/07/86 TIME: AM
DATE RECEIVED: 05/09/86 TIME: 12:00 PM
DATE COMPLETED: 05/30/86
SCHEDULED COMPLETION: 053086
ANALYST: PCC,PT,MB,CS
QUALITY CONTROL REVIEW BY: SJL,DEK
WORKSHEET NO: 3

	INFLUENT	EFFLUENT	DETECTION LIMIT	UNITS
EDI SAMPLE NO:	62415	62416		
PCB: AROCLOR 1016	<0.010	<0.008		mg/l
PCB: AROCLOR 1221	<0.010	<0.004		mg/l
PCB: AROCLOR 1232	<0.010	<0.008		mg/l
PCB: AROCLOR 1242	<0.004	<0.008		mg/l
PCB: AROCLOR 1248	<0.004	<0.008		mg/l
PCB: AROCLOR 1254	<0.008	<0.004		mg/l
PCB: AROCLOR 1260	<0.008	<0.004		mg/l

ANALYSIS BY STANDARD METHODS 16TH EDITION AND/OR METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES, USEPA, 1983.

EDI Engineering & Science
Environmental Engineering, Geology, Biology & Chemistry
611 Cascade W Pkwy, SE, Grand Rapids, MI 49506-2179, (616) 942 9600
a subsidiary of WW Engineering & Science

ANALYTICAL SERVICES
EDI LABORATORY REPORT

CLIENT: CITY OF BATTLE CREEK
PROJECT NO.: 25552
LOCATION: BATTLE CREEK, MI WWTP
SAMPLED BY: MIKE ANDREWS
DESCRIPTION: WASTEWATER MONITORING

DATE SAMPLED: 05/21/86 TIME: 9:00 AM
DATE RECEIVED: 05/21/86 TIME: 1:30 PM
DATE COMPLETED: 06/09/86
SCHEDULED COMPLETION: 061186
ANALYST: MB,CS,PCC,PT
QUALITY CONTROL REVIEW BY: SJL
WORKSHEET NO: 5

	INFLUENT	EFFLUENT	DETECTION LIMIT	UNITS
EDI SAMPLE NO:	62741	62742		
PCB: AROCLOR 1016	<0.002	<0.0008		mg/l
PCB: AROCLOR 1221	<0.004	<0.0008		mg/l
PCB: AROCLOR 1232	<0.004	<0.0008		mg/l
PCB: AROCLOR 1242	<0.002	<0.0008		mg/l
PCB: AROCLOR 1248	<0.002	<0.0008		mg/l
PCB: AROCLOR 1254	<0.0008	<0.0004		mg/l
PCB: AROCLOR 1260	<0.0008	<0.0004		mg/l

ANALYSIS BY STANDARD METHODS 16TH EDITION AND/OR METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES, USEPA, 1983.

EDI Engineering & Science
Environmental Engineering, Geology, Biology & Chemistry
611 Cascade W Pkwy, SE, Grand Rapids MI 49506-2179, (616) 942-9600
a subsidiary of WW Engineering & Science

ANALYTICAL SERVICES
EDI LABORATORY REPORT

CLIENT: CITY OF BATTLE CREEK
PROJECT NO.: 25552
LOCATION: BATTLE CREEK, MI
SAMPLED BY: MIKE ANDREWS
DESCRIPTION: WASTEWATER MONITORING

DATE SAMPLED: 05/27/86 TIME: 8:30 AM
DATE RECEIVED: 05/28/86 TIME: 2:30 PM
DATE COMPLETED: 06/17/86
SCHEDULED COMPLETION: 061886
ANALYST: MB,PCC,CS
QUALITY CONTROL REVIEW BY: DEK
WORKSHEET NO: 31

	INFLUENT	EFFLUENT	DETECTION LIMIT	UNITS
EDI SAMPLE NO:	62895	62896		
PCB: AROCLOR 1016	<0.002	<0.002		mg/l
PCB: AROCLOR 1221	<0.002	<0.002		mg/l
PCB: AROCLOR 1232	<0.004	<0.004		mg/l
PCB: AROCLOR 1248	<0.002	<0.002		mg/l
PCB: AROCLOR 1254	<0.002	<0.002		mg/l
PCB: AROCLOR 1260	<0.002	<0.002		mg/l

ANALYSIS BY STANDARD METHODS 16TH EDITION AND/OR METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES, USEPA, 1983.

EDI Engineering & Science
Environmental Engineering, Geology, Biology & Chemistry
611 Cascade W Pkwy SE Grand Rapids, MI 49506-2179 (616) 942-9000
a subsidiary of WW Engineering & Science

ANALYTICAL SERVICES
EDI LABORATORY REPORT

CLIENT: CITY OF BATTLE CREEK
PROJECT NO.: 25552
LOCATION: BATTLE CREEK, MI
SAMPLED BY: MIKE ANDREWS
DESCRIPTION: WASTEWATER MONITORING

DATE SAMPLED: 05/28/86 TIME: 9:00 AM
DATE RECEIVED: 05/28/86 TIME: 2:30 PM
DATE COMPLETED: 06/17/86
SCHEDULED COMPLETION: 061886
ANALYST: MB,PCC,CS
QUALITY CONTROL REVIEW BY: DEK
WORKSHEET NO: 33

	INFLUENT	EFFLUENT	DETECTION LIMIT	UNITS
EDI SAMPLE NO:	62897	62899		
PCB: AROCLOR 1016	<0.001	<0.001		mg/l
PCB: AROCLOR 1221	<0.002	<0.002		mg/l
PCB: AROCLOR 1232	<0.002	<0.002		mg/l
PCB: AROCLOR 1242	<0.001	<0.001		mg/l
PCB: AROCLOR 1248	<0.001	<0.001		mg/l
PCB: AROCLOR 1254	<0.001	<0.001		mg/l
PCB: AROCLOR 1260	<0.001	<0.001		mg/l

ANALYSIS BY STANDARD METHODS 16TH EDITION AND/OR METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES, USEPA, 1983.

EDI Engineering & Science
Environmental Engineering, Geology, Biology & Chemistry
611 Cascade W Pkwy SE Grand Rapids, MI 49506-2179 (616) 940-9561
a subsidiary of WW Engineering & Science

PCB ANALYSES

BATTLE CREEK WWTP EFFLUENT

DETECTION LIMIT = 0.5 ug/l

SEG LABORATORIES, INC.

November 11, 1986

Battle Creek Wastewater
Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christina Kosmowski

Analytical results for a wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received on October 13, 1986.

PO#: 3320

SEG Number:	65644
Tag:	10/12/86
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen
Michael G. Goergen

MGG/mdw

1120 May Street, Lansing, Michigan 48906 • (517) 374-6800 • CABLE "SNELL" • TELEX 229458

SEG LABORATORIES, INC.

December 3, 1986

RECEIVED

DEC 08 1986

WASTEWATER
TREATMENT PLANT

Battle Creek Wastewater
Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for wastewater samples submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received by SEG Laboratories, Inc. on November 5 and 18, 1986.

PO#: 3320/4606

SEG Number:	66026	66350
Tag:	City of Battle Creek	No Tag
Carbon Tetrachloride ug/L	<0.12	<0.12
2-Chlorophenol ug/L	<0.31	<0.31
2,4-Dichlorophenol ug/L	<0.39	<0.39
2,4,6-Trichlorophenol ug/L	<0.64	<0.64
Total PCB ug/L	<0.5	<0.5
Benzidine ug/L	<0.08	<0.08

Approved by Michael G. Goergen

Michael G. Goergen

MGG/brs

SEG LABORATORIES, INC.

December 22, 1986

Battle Creek Wastewater
Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for wastewater samples submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received by SEG Laboratories, Inc. on December 4, 1986.

PO#: 3320/4606

SEG Number:	66590
Tag:	City of Battle Creek
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen (MS)
Michael G. Goergen

MGG/bld

1120 May Street, Lansing, Michigan 48906 • (517) 374-6800 • CABLE "SNELL" • TELEX 229458
A Snell Environmental Group Company

SEG LABORATORIES, INC.

January 7, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received by SEG Laboratories, Inc., on December 16, 1986.

PO#: 3320/4606

SEG Number:	66739
Tag:	No Tag
Carbon Tetrachloride ug/L	<0.12
Benzene ug/L	<0.20
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen (ms)
Michael G. Goergen

MGG/bld

1120 May Street, Lansing, Michigan 48906 • (517) 374-6800 • CABLE "SNELL" • TELEX 229458
A Snell Environmental Group Company

SEG LABORATORIES, INC.

Janaury 23, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received by SEG Laboratories, Inc., on January 7, 1987.

PO#: 4177/4606

SEG Number:	66962
Tag:	No Tag 1-687
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen

Michael G. Goergen

MGG/bld

1120 May Street, Lansing, Michigan 48906 • (517) 374-6800 • CABLE "SNELL" • TELEX 229458
A Shell Environmental Group Company

SEG LABORATORIES, INC.

February 6, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received by SEG Laboratories, Inc., on January 26, 1987.

PO#: 4177/4606

SEG Number:	67565
Tag:	Battle Creek WWTP Grab 01/23/87
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G Goergen(MS)
Michael G. Goergen

Mgg/bld

RECEIVED
FEB 09 1987
WASTEWATER
TREATMENT PLANT

1120 May Street, Lansing, Michigan 48906 • (517) 374-6800 • CABLE "SNELL" • TELEX 229458
A Snell Environmental Group Company

SEG LABORATORIES, INC.

Feburary 6, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received by SEG Laboratories, Inc., on February 3, 1987.

PO#: 4177/4606

SEG Number:	68008
Tag:	Battle Creek WWTP 02/02/87
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G Goergen(ms)
Michael G. Goergen

MGG/bld

RECEIVED
FEB 09 1987
WASTEWATER
TREATMENT PLANT

1120 May Street, Lansing, Michigan 48906 • (517) 374-6800 • CABLE "SNELL" • TELEX 229458
A Snell Environmental Group Company

SEG LABORATORIES, INC.

March 6, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for a wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received by SEG Laboratories, Inc., on February 23, 1987.

PO#: 4177/4606

SEG Number:	68713
Tag:	WWTP Grab 02/20/87
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

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MAR 09 1987
WASTEWATER TREATMENT PLANT

Approved by Michael G. Goergen (V.F.)
Michael G. Goergen

MGG?bld

1120 May Street, Lansing, Michigan 48906 • (517) 374-6800 • CABLE "SNELL" • TELEX 229458
A Snell Environmental Group Company

SEG LABORATORIES, INC. April 1, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for a wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received by SEG Laboratories, Inc., on March 5, 1987.

PO#: 4177/4606

SEG Number:	68850
Tag:	WWTP Grab 03/04/87
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen I.V.P.
Michael G. Goergen

MGG/bld

SEG LABORATORIES, INC. April 1, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for a wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received by SEG Laboratories, Inc., on March 17, 1987.

PO#: 4177/4606

SEG Number:	69077
Tag:	WWTP 03/16/87
Carbon Tetrachloride ug/L	<0.12
Benzene ug/L	<0.20
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	0.84

Approved by Michael G. Goergen (V.F
Michael G. Goergen

MGG/bld

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SEG LABORATORIES, INC.

May 4, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for a wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, MI, received by SEG Laboratories, Inc., on April 6, 1987

PO#: 4177/4606

SEG Number:	69376
Tag:	WWTP 04/03/87
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen (V.F.)
Michael G. Goergen

MGG/bld

SEG LABORATORIES, INC.

May 4, 1987

Battle Creek Wastewater Treatment Plant
1000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for a wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, MI, received by SEG Laboratories, Inc., on April 17, 1987.

PO#: 4177/4606

SEG Number:	69561
Tag:	WWTP 04/16/87
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen (V.F.

Michael G. Goergen

MGG/bld

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SEG

SEG LABORATORIES, INC.

June 3, 1987

Battle Creek Wastewater Treatment Plant
2000 West Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for a wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, MI received by SEG Laboratories, Inc., on May 8, 1987.

PO#: 4177/4606

SEG Number:	69853
Tag:	Battle Creek WWTP 05/07/87
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen (V.P.M.)
Michael G. Goergen

MGG/bld

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SEG LABORATORIES, INC.

June 10, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for a wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, MI received by SEG Laboratories, Inc., on May 22, 1987.

PO#: 4177/4606

SEG Number:	70095
Tag:	WWTP 05/21/87
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen (V.F.m)
Michael G. Goergen

MGG/bld

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SEG LABORATORIES, INC.

July 7, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Ms. Christine Kosmowski

Analytical results for a wastewater sample submitted by Battle Creek Watewater Treatment Plant, Battle Creek, MI, received by SEG Laboratories, Inc., on June 4, 1987.

PO#: 4177/4606

SEG Number:	70276
Tag:	BCWWTP 06/02/87
Carbon Tetrachloride ug/L	<0.12
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen (M.G.

Michael G. Goergen

MGG/bld

SEG LABORATORIES, INC.

July 7, 1987

Battle Creek Wastewater Treatment Plant
2000 W. River Road
Battle Creek, MI 49017

Attn: Chris Kosmowski

Analytical results for a wastewater sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, MI, recieved by SEG Laboratories, Inc., on June 18, 1987.

PO#: 4177/4606

SEG Number:	70552
Tag:	Battle Creek WWTP 06/17/87
Carbon Tetrachloride ug/L	<0.12
Benzene ug/L	<0.20
2-Chlorophenol ug/L	<0.31
2,4-Dichlorophenol ug/L	<0.39
2,4,6-Trichlorophenol ug/L	<0.64
Total PCB ug/L	<0.5
Benzidine ug/L	<0.08

Approved by Michael G. Goergen (V.O.m)
Michael G. Goergen

MGG/bld

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PCB ANALYSES

BATTLE CREEK WWTP SLUDGE

DETECTION LIMIT = 1 mg/kg dry wt basis

SEG LABORATORIES, INC.

July 30, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Wayne Kukuk

Analytical results for a sludge sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, MI, received by SEG Laboratories, Inc., on June 23, 1987.

PO#: 3320

SEG Number:	70628
Tag:	Filter Cake through 06/21/87 06/21/87
Aluminum mg/kg	15,000
Arsenic mg/kg	1.78
Barium mg/kg	270
Beryllium mg/kg	0.46
Boron mg/kg	<180
Cadmium mg/kg	4.2
Calcium mg/kg	112,000
Total Chromium mg/kg	400
Cobalt mg/kg	14
Copper mg/kg	460
Iron mg/kg	31,000
Lead mg/kg	61
Lithium mg/kg	14
Magnesium mg/kg	3,500
Manganese mg/kg	320
Mercury mg/kg	0.377

REC'D AUG 06 1987

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Battle Creek Wastewater Treatment Plant
Analytical Results Continued
Attn: Wayne Kukuk
July 30, 1987

SEG Number:	70628
Tag:	Filter Cake Through 06/21/87 06/21/87
Molybdenum mg/kg	10
Nickel mg/kg	140
Potassium mg/kg	920
Selenium mg/kg	3.70
Silver mg/kg	11
Sodium mg/kg	700
Zinc mg/kg	750
Antimony mg/kg	42
Thallium mg/kg	19
Titanium mg/kg	370
Nitrate-N mg/kg	36
Total Phosphorus mg/kg	6,700
Ammonia-N mg/kg	1,800
Total Kjeldahl Nitrogen mg/kg	27,000
Total PCB mg/kg	<1
PBB mg/kg	<1
Total Solids %	21.6

NOTE: Calculated on a dry weight basis.

Approved by

JP

SEG LABORATORIES, INC.

May 21, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Wayne Kukuk

Analytical results for a sludge sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received by SEG Laboratories, Inc., on March 31, 1987.

PO#: 3320

SEG Number:	69310
Tag:	Filter Cake Composite through 03/29/87 03/29/87
Aluminum mg/kg	9,200
Arsenic mg/kg	0.763
Barium mg/kg	210
Beryllium mg/kg	0.5
Boron mg/kg	<200
Cadmium mg/kg	0.48
Calcium mg/kg	77,000
Total Chromium mg/kg	230
Cobalt mg/kg	11
Copper mg/kg	310
Iron mg/kg	12,000
Lead mg/kg	49
Lithium mg/kg	3.9
Magnesium mg/kg	3,000
Manganese mg/kg	160
Mercury mg/kg	0.242
Molybdenum mg/kg	8.7
Nickel mg/kg	480

REC'D MAY 22 1987

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SEG Number:	69310
Tag:	Filter Cake Composite through 03/29/87 03/29/87
Potassium mg/kg	1,600
Selenium mg/kg	0.080
Silver mg/kg	22
Sodium mg/kg	1,600
Zinc mg/kg	680
Antimony mg/kg	29
Thallium mg/kg	15
Titanium mg/kg	190
Nitrate-N mg/kg	30
Total Phosphorus mg/kg	7,600
Ammonia-N mg/kg	1,000
Total Kjeldahl Nitrogen mg/kg	58,000
Total PCB mg/kg	<1
PBB mg/kg	<0.1
Total Solids %	20.6

NOTE: Calculated on a dry weight basis.

Approved by Michael G. Goergen

Michael G. Goergen

MGG/bld

SEG ENGINEERS & CONSULTANTS, INC.
ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS

January 15, 1987

Battle Creek Wastewater Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Wayne Kukuk

Analytical results for a sludge sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received by SEG Laboratories, Inc., on December 16, 1986.

PO#: 3320

SEG Number	66738
Tag:	WWTP Through 12/14/86 Filter Cake
Aluminum mg/kg	7,300
Arsenic mg/kg	1.99
Barium mg/kg	260
Beryllium mg/kg	<0.51
Boron mg/kg	<200
Cadmium mg/kg	3.6
Calcium mg/kg	80,000
Total Chromium mg/kg	380
Cobalt mg/kg	7.1
Copper mg/kg	650
Iron mg/kg	10,000
Lead mg/kg	65
Lithium mg/kg	5.1

Rec'd
16 Jan 87

SEG Number:	66738
Tag:	WWTP Through 12/14/86 Filter Cake
Magnesium mg/kg	3,300
Manganese mg/kg	390
Mercury mg/kg	0.276
Molybdenum mg/kg	52
Nickel mg/kg	220
Potassium mg/kg	1,100
Selenium mg/kg	0.505
Silver mg/kg	24
Sodium mg/kg	2,800
Zinc mg/kg	660
Antimony mg/kg	<26
Thallium mg/kg	15
Titanium mg/kg	71
Nitrate mg/kg	75
Total Phosphorus mg/kg	3,900
Ammonia-N mg/kg	970
Total Kjeldahl Nitrogen mg/kg	41,000
Total PCB mg/kg	<1
PBB mg/kg	<1
Total Solids %	19.6

NOTE: Calculated on dry weight basis.

Approved by Michael G. Goergen (ms)
Michael G. Goergen

MGG/bld

SEG LABORATORIES, INC.

October 27, 1986

Battle Creek Wastewater
Treatment Plant
2000 West River Road
Battle Creek, MI 49015

Attn: Mr. Wayne Kukuk

Analytical results for a sludge sample submitted by Battle Creek Wastewater Treatment Plant, Battle Creek, Michigan, received on September 17, 1986.

PO#: 3320

SEG Number:	65135
Tag:	WWTP Filter Cake Through 9/14/86
Aluminum mg/kg	15,000
Arsenic mg/kg	2.65
Barium mg/kg	380
Beryllium mg/kg	<0.5
Boron mg/kg	<210
Cadmium mg/kg	5.3
Calcium mg/kg	60,000
Total Chromium mg/kg	640
Cobalt mg/kg	10
Copper mg/kg	490
Iron mg/kg	20,000
Lead mg/kg	88
Lithium mg/kg	8.0
Magnesium mg/kg	3,500
Manganese mg/kg	630
Mercury mg/kg	0.500

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OCT 29 1986
WASTEWATER TREATMENT PLANT

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A Snell Environmental Group Company

Battle Creek Wastewater
Treatment Plant
Analytical results con't
Attn: Mr. Wayne Kukuk
October 27, 1986
Page Two

SEG Number:	65135
Tag:	WWTP Filter Cake Through 9/14/86
Molybdenum mg/kg	59
Nickel mg/kg	430
Potassium mg/kg	1,200
Selenium mg/kg	0.990
Silver mg/kg	64
Sodium mg/kg	320
Zinc mg/kg	1,000
Antimony mg/kg	32
Thallium mg/kg	16
Titanium mg/kg	2,100
Nitrate-N mg/kg	<16
Total Phosphorus mg/kg	12,000
Ammonia-N mg/kg	3,100
Total Kjeldahl Nitrogen mg/kg	42,000
Total Solids %	18.7
Total PCB's mg/kg	<1
PBB mg/kg	<1

RECEIVED
OCT 29 1986
WASTEWATER
TREATMENT PLANT

Note: Calculated on Dry Weight Basis

Approved by Michael G. Goergen (MS)
Michael G. Goergen

MGG/brs

MICHIGAN PAPER BOARD CORPORATION
79 EAST FOUNTAIN STREET
BATTLE CREEK, MICHIGAN 49016
616/963-4004

August 19, 1985

City Sewer Treatment Plant
Battle Creek, Michigan 49016

Attn: Mike Andrews

Results received from Kar Laboratories are as follows:

Mill effluent:	Expressed as milligrams per liter
Cadmium	< 0.01
Cyanide	0.02
Silver	< 0.001
Lead	< 0.05
Mercury	< 0.001
2 - Chlorophenol	< 0.001
2, 4 - Dichlorophenol	< 0.001
2, 4, 6, - Trichlorophenol	0.006
Benzedine	< 0.05
P C B	0.002 * as Arochlor 1254
Carbon Tetrachloride	< 0.01

If any further questions arise please feel free to contact the writer.

Thank you,

Jim Hosking

Jim Hosking
Technical
mj

RESPONSES TO:

#16 Process Wastewater
Rock Tenn & Waldorf

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **May** **2003**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			8580359			
01	1,042	223	8583624	0.32650	2,837	607
02	1,200	90	8586429	0.28050	2,807	211
03	1,032	154	8589112	0.26830	2,309	345
04	1,148	360	8591970	0.28580	2,736	858
05	1,440	543	8596485	0.45150	5,422	2,045
06	1,012	184	8599211	0.27260	2,301	418
07	1,140	175	8601212	0.20010	1,902	292
08	1,200	680	8603585	0.23730	2,375	1,346
09	1,590	525	8605673	0.20880	2,769	914
10	1,470	368	8607260	0.15870	1,946	487
11	1,350	780	8610044	0.27840	3,135	1,811
12	1,290	365	8612570	0.25260	2,718	769
13	1,380	256	8615357	0.27870	3,208	595
14	1,320	173	8617898	0.25410	2,797	367
15	1,380	214	8620607	0.27090	3,118	483
16	1,530	140	8622809	0.22020	2,810	257
17	1,365	142	8624562	0.17530	1,996	208
18	1,620	252	8626709	0.21470	2,901	451
19	1,440	605	8628446	0.17370	2,086	876
20	1,320	280	8630694	0.22480	2,475	525
21	1,230	627	8634741	0.40470	4,151	2,116
22	1,350	200	8637617	0.28760	3,238	480
23	1,380	115	8640066	0.24490	2,819	235
24	1,245	152	8642664	0.25980	2,698	329
25	1,230	3,290	8647952	0.52880	5,425	14,510
26	765	1,105	8653810	0.58580	3,737	5,399
27	998	180	8660143	0.63330	5,271	951
28	938	337	8662160	0.20170	1,578	567
29	1,230	390	8664575	0.24150	2,477	786
30	1,500	163	8667015	0.24400	3,052	332
31	1,290	169	8669793	0.27780	2,989	392
TOTAL				8.94340	92,082	39,960
AVG.	1,272	427		0.28850	2,970	1,289

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - May 2003

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **APRIL** **2003**

 # DAYS **30**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			8489959			
01	1,005	503	8493583	0.36240	3,038	1,520
02	1,170	152	8496854	0.32710	3,192	415
03	990	123	8499138	0.22840	1,886	234
04	675	350	8500997	0.18590	1,047	543
05	1,418	328	8504182	0.31850	3,767	871
06	742	120	8505914	0.17320	1,072	173
07	1,500	157	8508970	0.30560	3,823	400
08	878	595	8511024	0.20540	1,504	1,019
09	1,290	170	8514412	0.33880	3,645	480
10	1,230	565	8516877	0.24650	2,529	1,162
11	1,530	173	8520196	0.33190	4,235	479
12	998	390	8522348	0.21520	1,791	700
13	1,200	1,055	8526140	0.37920	3,795	3,336
14	1,500	430	2-Day Avg.	0.34350	4,297	1,232
15	975	1,225	8533010	0.34350	2,793	3,509
16	915	335	8536393	0.33830	2,582	945
17	1,072	510	8539401	0.30080	2,689	1,279
18	668	200	8541243	0.18420	1,026	307
19	1,515	652	8544999	0.37560	4,746	2,042
20	1,470	600	8547775	0.27760	3,403	1,389
21	1,320	228	8550130	0.23550	2,593	448
22	1,260	244	8552760	0.26300	2,764	535
23	1,350	210	8557288	0.45280	5,098	793
24	1,380	198	8560934	0.36460	4,196	602
25	1,230	450	8563924	0.29900	3,067	1,122
26	1,650	360	8567662	0.37380	5,144	1,122
27	1,215	214	8570678	0.30160	3,056	538
28	1,170	242	8574012	0.33340	3,253	673
29	1,050	102	8577307	0.32950	2,885	280
30	1,200	114	8580359	0.30520	3,054	290
TOTAL				9.04000	91,970	28,442
AVG.	1,186	367		0.30133	3,066	948

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - April 2003

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **March** **2003**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			8416923				
01	1,167	121	8419076	0.21530	2,095	217	*
02	1,290	86	8421610	0.25340	2,726	182	
03	1,005	72	8423388	0.17780	1,490	107	
04	1,088	188	8425513	0.21250	1,928	333	
05	1,440	86	8428536	0.30230	3,631	217	
06	600	147	8430326	0.17900	896	219	
07	1,410	130	8433322	0.29960	3,523	325	
08	1,275	107	8435536	0.22140	2,354	198	
09	1,050	84	8437199	0.16630	1,456	117	
10	1,350	100	8439357	0.21580	2,430	180	
11	1,410	114	8441231	0.18740	2,204	178	
12	1,710	167	8443794	0.25630	3,655	357	
13	1,470	920	8448451	0.46570	5,709	3,573	
14	1,027	107	8451240	0.27890	2,389	249	
15	1,215	140	8453594	0.23540	2,385	275	
16	1,005	138	8456708	0.31140	2,610	358	
17	998	119	8458975	0.22670	1,887	225	
18	1,221	127	2 Day Avg.	0.24880	2,534	264	*
19	1,221	127	8463951	0.24880	2,534	264	*
20	1,320	180	8466026	0.20750	2,284	311	
21	1,253	130	8468122	0.20960	2,190	227	*
22	1,695	222	8470287	0.21650	3,061	401	
23	1,260	294	8472769	0.24820	2,608	609	
24	1,500	177	8474659	0.18900	2,364	279	
25	1,530	194	8476463	0.18040	2,302	292	
26	1,800	143	8479186	0.27230	4,088	325	
27	1,440	280	8481202	0.20160	2,421	471	
28	1,260	480	8483607	0.24050	2,527	963	
29	1,380	560	8487874	0.42670	4,911	1,993	
30	1,320	448	8487986	0.01120	123	42	
31	1,260	136	8489959	0.19730	2,073	224	
TOTAL				7.30360	79,390	13,972	
AVG.	1,289	204		0.23560	2,561	451	

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - March 2003

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **FEBRUARY** **2003**

 # DAYS **28**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			8341353			
01	1,012	196	8343690	0.23370	1,972	382
02	1,080	134	8345647	0.19570	1,763	219
03	1,290	277	8349871	0.42240	4,544	976
04	1,050	323	8352776	0.29050	2,544	783
05	1,380	310	8355480	0.27040	3,112	699
06	952	137	8357319	0.18390	1,460	210
07	1,170	114	8360522	0.32030	3,125	305
08	893	282	8364577	0.40550	3,020	954
09	1,012	257	8366467	0.18900	1,595	405
10	1,250	970	8369583	0.31160	3,248	2,521
11	1,042	173	8372047	0.24640	2,141	356
12	900	160	8374833	0.27860	2,091	372
13	885	170	8376923	0.20900	1,543	296
14	698	86	8378655	0.17320	1,008	124
15	1,155	135	8381717	0.30620	2,950	345
16	952	92	8385327	0.36100	2,866	277
17	1,320	160	8388263	0.29360	3,232	392
18	930	92	8390581	0.23180	1,798	178
19	990	86	8392517	0.19360	1,598	139
20	1,320	130	8395195	0.26780	2,948	290
21	908	78	8397253	0.20580	1,558	134
22	1,455	128	8400016	0.27630	3,353	295
23	1,350	230	8402406	0.23900	2,691	458
24	1,380	590	8405543	0.31370	3,610	1,544
25	922	76	8408678	0.31350	2,411	199
26	1,140	70	8411321	0.26430	2,513	154
27	832	99	8413264	0.19430	1,348	160
28	1,410	132	8416923	0.36590	4,303	403
TOTAL				7.55700	70,348	13,568
AVG.	1,096	203		0.26989	2,512	485

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - February 2003

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **January** **2003**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			8261609			
01	300	232	8262420	0.08110	203	157
02	465	276	8265859	0.34390	1,334	792
03	810	90	8268448	0.25890	1,749	194
04	1,024	126	8271057	0.26090	2,228	274
05	1,290	156	8272965	0.19080	2,053	248
06	1,140	307	8275033	0.20680	1,966	529
07	1,320	190	8277521	0.24880	2,739	394
08	1,590	490	8281302	0.37810	5,014	1,545
09	1,290	430	8284250	0.29480	3,172	1,057
10	1,260	340	8286726	0.24760	2,602	702
11	1,166	291	8289228	0.25020	2,433	607
12	908	158	8291444	0.22160	1,678	292
13	1,290	270	8294455	0.30110	3,239	678
14	1,012	333	8298514	0.40590	3,426	1,127
15	952	185	8301815	0.33010	2,621	509
16	1,035	124	8303737	0.19220	1,659	199
17	862	265	8305259	0.15220	1,094	336
18	1,072	236	8307553	0.22940	2,051	452
19	1,260	320	8310385	0.28320	2,976	756
20	1,260	273	8313093	0.27080	2,846	617
21	1,470	287	8316104	0.30110	3,691	721
22	1,470	183	8321404	0.53000	6,498	809
23	1,102	850	8325112	0.37080	3,408	2,629
24	818	1,740	8326467	0.13550	924	1,966
25	300	835	8326774	0.03070	77	214
26	300	112	8327040	0.02660	67	25
27	562	373	8329963	0.29230	1,370	909
28	480	272	8332668	0.27050	1,083	614
29	810	380	8335622	0.29540	1,996	936
30	990	1,140	8338554	0.29320	2,421	2,788
31	1,025	200	8341353	0.27990	2,393	467
TOTAL				7.97440	71,009	23,543
AVG.	988	370		0.25724	2,291	759

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - January 2003

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **DECEMBER** **2002**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			8200877				
01	960	230	8203202	0.23250	1,861	446	
02	1,132	135	8206247	0.30450	2,875	343	
03	952	118	8208100	0.18530	1,471	182	
04	1,042	173	8210575	0.24750	2,151	357	
05	1,252	165	8213521	0.29460	3,076	405	
06	1,170	227	8215971	0.24500	2,391	464	
07	1,121	292	8218793	0.28220	2,638	687	
08	1,080	178	8221791	0.29980	2,700	445	
09	780	156	8223404	0.16130	1,049	210	
10	1,620	180	8226524	0.31200	4,215	468	
11	1,132	280	8229310	0.27860	2,630	651	
12	1,230	353	8232491	0.31810	3,263	936	
13	900	273	8234457	0.19660	1,476	448	
14	922	364	8236858	0.24010	1,846	729	
15	1,440	108	8239878	0.30200	3,627	272	
16	998	192	8242358	0.24800	2,064	397	
17	1,260	198	8245106	0.27480	2,888	454	
18	1,290	315	8248345	0.32390	3,485	851	
19	1,290	860	8253848	0.55030	5,920	3,947	
20	780	3,080	8257421	0.35730	2,324	9,178	
21	300	512	8257988	0.05670	142	242	
22	300	805	8258601	0.06130	153	412	
23	135	370	8258990	0.03890	44	120	
24	45	48	8259624	0.06340	24	25	@
25	45	48	2 Day Avg	0.02680	10	11	@
26	120	120	8260160	0.02680	27	27	
27	30	31	8260414	0.02540	6	7	
28	30	47	8260691	0.02770	7	11	
29	30	25	8260778	0.00870	2	2	
30	30	56	8261308	0.05300	13	25	
31	30	12	8261609	0.03010	8	3	
TOTAL				6.07320	54,388	22,754	
AVG.	756	321		0.19591	1,754	734	

APPROVED BY:_____ **DATE:**_____

@ Denotes Holiday Shut down 2 day average for Flow. Following six days used as BOD and Solids average.

File Name: Billing - December 2002

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **NOVEMBER** **2002**

 # DAYS **30**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			8127119			
01	1,260	484	8130942	0.38230	4,017	1,543
02	1,215	214	8134474	0.35320	3,579	630
03	1,140	140	8137336	0.28620	2,721	334
04	952	148	8140412	0.30760	2,442	380
05	870	1,120	8144712	0.43000	3,120	4,017
06	390	930	8147853	0.31410	1,022	2,436
07	885	263	8151168	0.33150	2,447	727
08	1,028	278	8153042	0.18740	1,607	434
09	922	163	8155602	0.25600	1,969	348
10	1,012	170	8157841	0.22390	1,890	317
11	975	197	8159694	0.18530	1,507	304
12	1,500	208	8162021	0.23270	2,911	404
13	1,028	146	8163927	0.19060	1,634	232
14	1,350	212	8165527	0.16000	1,801	283
15	1,470	333	8167561	0.20340	2,494	565
16	1,530	255	12 Day Avg	0.24325	3,104	517
17	1,042	142	12 Day Avg	0.24325	2,114	288
18	1,710	244	8170112	0.24325	3,469	495
19	1,650	207	8172476	0.23640	3,253	408
20	1,410	197	8174283	0.18070	2,125	297
21	1,620	210	8176663	0.23800	3,216	417
22	1,500	230	8178646	0.19830	2,481	380
23	1,320	345	8181361	0.27150	2,989	781
24	1,560	227	8184120	0.27590	3,590	522
25	1,230	435	8187204	0.30840	3,164	1,119
26	1,290	277	8190201	0.29970	3,224	692
27	525	370	8192926	0.27250	1,193	841
28	1,230	183	8194711	0.17850	1,831	272
29	960	317	8196954	0.22430	1,796	593
30	1,305	470	8200877	0.39230	4,270	1,538
TOTAL				7.85045	76,977	22,117
AVG.	1,196	304		0.26168	2,566	737

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - November 2002

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **OCTOBER** **2002**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			8046293				
01	870	550	8050442	0.41490	3,010	1,903	
02	1,500	263	8053665	0.32230	4,032	707	
03	1,272	296	8056979	0.33140	3,516	818	*
04	345	240	8057512	0.05330	153	107	
05	1,263	290	8058680	0.11680	1,230	282	*
06	300	80	8059715	0.10350	259	69	
07	810	440	8064057	0.43420	2,933	1,593	
08	735	220	8065211	0.11540	707	212	
09	1,102	290	8067398	0.21870	2,010	529	
10	1,320	410	8069667	0.22690	2,498	776	
11	1,058	360	8072645	0.29780	2,628	894	
12	1,245	388	8075105	0.24600	2,554	796	
13	1,290	345	8078024	0.29190	3,140	840	
14	1,680	225	8081081	0.30570	4,283	574	
15	1,260	185	8085000	0.39190	4,118	605	
16	1,066	293	8087698	0.26980	2,399	659	*
17	1,620	160	8089772	0.20740	2,802	277	
18	1,230	200	8091223	0.14510	1,488	242	
19	1,680	385	8095275	0.40520	5,677	1,301	
20	1,230	330	8097951	0.26760	2,745	736	
21	1,740	205	8100687	0.27360	3,970	468	
22	1,500	280	8103578	0.28910	3,617	675	
23	1,470	520	8106388	0.28100	3,445	1,219	
24	1,200	320	8108946	0.25580	2,560	683	
25	1,230	202	8111180	0.22340	2,292	376	
26	874	178	8112931	0.17510	1,276	260	
27	1,230	342	8116084	0.31530	3,234	899	
28	892	595	8118845	0.27610	2,054	1,370	
29	1,530	257	8121921	0.30760	3,925	659	
30	1,440	405	8125146	0.32250	3,873	1,089	
31	765	202	8127119	0.19730	1,259	332	
TOTAL				8.08260	83,690	21,951	
AVG.	1,185	305		0.26073	2,700	708	

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - October 2002

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **SEPTEMBER** **2002**

 # DAYS **30**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			7961370				
01	1,890	220	7964327	0.29570	4,661	543	
02	1,290	132	7966440	0.21130	2,273	233	
03	1,500	267	7969075	0.26350	3,296	587	
04	1,410	194	7971313	0.22380	2,632	362	
05	1,740	340	7974228	0.29150	4,230	827	
06	1,260	173	7976997	0.27690	2,910	400	
07	1,575	171	7979390	0.23930	3,143	341	
08	1,590	230	7982569	0.31790	4,216	610	
09	825	133	7984950	0.23810	1,638	264	
10	1,200	191	7988796	0.38460	3,849	613	
11	1,530	114	7991910	0.31140	3,974	296	
12	1,050	151	7994856	0.29460	2,580	371	
13	1,440	196	7997122	0.22660	2,721	370	
14	1,380	250	7999687	0.25650	2,952	535	
15	1,028	226	8002176	0.24890	2,134	469	
16	1,890	357	8005242	0.30660	4,833	913	
17	1,470	744	8008711	0.34690	4,253	2,153	
18	1,352	208	8012771	0.40600	4,578	704	*
19	1,352	208	8016720	0.39490	4,453	685	*
20	1,530	212	8018700	0.19800	2,527	350	
21	926	301	8020821	0.21210	1,638	532	
22	1,650	276	8024123	0.33020	4,544	760	
23	832	130	8026275	0.21520	1,493	233	
24	1,320	490	8029686	0.34110	3,755	1,394	
25	1,410	320	8033452	0.37660	4,429	1,005	
26	848	232	8035481	0.20290	1,435	393	
27	1,095	164	8039040	0.35590	3,250	487	
28	1,395	188	8041134	0.20940	2,436	328	
29	1,890	413	8043661	0.25270	3,983	870	
30	1,710	317	8046293	0.26320	3,754	696	
TOTAL				8.49230	98,569	18,323	
AVG.	1,379	252		0.28308	3,286	611	

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - September 2002

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **August** **2002**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			7850267				
01	1,140	217	7854067	0.38000	3,613	688	
02	1,260	136	7857572	0.35050	3,683	398	
03	968	160	7860277	0.27050	2,184	361	
04	1,650	368	7865037	0.47600	6,550	1,461	
05	1,530	217	7868543	0.35060	4,474	635	
06	1,380	175	7871473	0.29300	3,372	428	
07	982	267	7874378	0.29050	2,379	647	
08	1,200	955	7879803	0.54250	5,429	4,321	
09	990	246	7883362	0.35590	2,939	730	
10	1,058	329	7886909	0.35470	3,130	973	
11	1,470	298	7891686	0.47770	5,857	1,187	
12	1,320	250	7896887	0.52010	5,726	1,084	
13	1,260	330	7901368	0.44810	4,709	1,233	
14	938	303	7906260	0.48920	3,827	1,236	
15	1,140	1,444	7910782	0.45220	4,299	5,446	
16	1,350	446	7915083	0.43010	4,842	1,600	
17	1,185	240	7918838	0.37550	3,711	752	
18	1,140	240	7921057	0.22190	2,110	444	
19	1,320	240	7924183	0.31260	3,441	626	
20	1,200	192	7926224	0.20410	2,043	327	
21	1,860	250	7929388	0.31640	4,908	660	
22	1,650	408	7933293	0.39050	5,374	1,329	
23	1,590	542	7937933	0.46400	6,153	2,097	
24	1,275	674	7941984	0.40510	4,308	2,277	
25	1,118	462	7945094	0.31100	2,900	1,198	
26	1,350	373	7948637	0.35430	3,989	1,102	
27	810	122	7950319	0.16820	1,136	171	
28	1,770	172	7953360	0.30410	4,489	436	
29	1,360	236	7956082	0.27220	3,087	536	#
30	1,710	230	7959299	0.32170	4,588	617	
31	1,009	251	7961370	0.20710	1,743	434	
TOTAL				11.11030	120,992	35,433	
AVG.	1,290	348		0.35840	3,903	1,143	

APPROVED BY:_____ **DATE:**_____

 # Denotes 12 day average for BOD.

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - August 2002

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **JULY** **2002**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			7757607			
01	1,050	170	7759916	0.23090	2,022	327
02	1,290	220	7763619	0.37030	3,984	679
03	1,470	387	7768129	0.45100	5,529	1,456
04	938	210	7770324	0.21950	1,717	384
05	788	198	7772392	0.20680	1,359	341
06	1,755	1,085	7776650	0.42580	6,232	3,853
07	1,230	560	7780481	0.38310	3,930	1,789
08	1,170	884	7783594	0.31130	3,038	2,295
09	998	343	7786936	0.33420	2,782	956
10	1,065	580	7792181	0.52450	4,659	2,537
11	998	204	7794864	0.26830	2,233	456
12	1,095	137	7797194	0.23300	2,128	266
13	1,260	333	7801527	0.43330	4,553	1,203
14	1,042	200	7803787	0.22600	1,964	377
15	1,035	525	7807493	0.37060	3,199	1,623
16	1,440	1,230	7814479	0.69860	8,390	7,166
17	652	3,500	7818318	0.38390	2,088	11,206
18	390	812	7818791	0.04730	154	320
19	345	338	7818981	0.01900	55	54
20	375	205	7819116	0.01350	42	23
21	375	173	7819349	0.02330	73	34
22	300	1,107	7819704	0.03550	89	328
23	825	548	7819833	0.01290	89	59
24	300	925	7820287	0.04540	114	350
25	630	295	7825177	0.48900	2,569	1,203
26	885	334	7828956	0.37790	2,789	1,053
27	1,065	158	7833363	0.44070	3,914	581
28	1,350	298	7838387	0.50240	5,657	1,249
29	855	254	7841809	0.34220	2,440	725
30	930	296	7846515	0.47060	3,650	1,162
31	922	182	7850267	0.37520	2,885	570
TOTAL				9.26600	84,326	44,626
AVG.	930	538		0.29890	2,720	1,440

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - July 2002

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **JUNE** **2002**

 # DAYS **30**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			7669921				
01	1,320	163	7673178	0.32570	3,586	443	
02	1,155	357	7676505	0.33270	3,205	991	
03	1,320	320	7679330	0.28250	3,110	754	
04	1,500	560	7681781	0.24510	3,066	1,145	
05	1,350	287	7683831	0.20500	2,308	491	
06	1,110	393	7687454	0.36230	3,354	1,187	
07	780	985	7689761	0.23070	1,501	1,895	
08	934	406	7693353	0.35920	2,798	1,216	*
09	1,410	600	7696193	0.28400	3,340	1,421	
10	1,200	497	7699166	0.29730	2,975	1,232	
11	1,140	467	7702685	0.35190	3,346	1,371	
12	1,230	410	7705626	0.29410	3,017	1,006	
13	1,470	2,110	7711264	0.56380	6,912	9,921	
14	1,500	540	7711765	0.05010	627	226	
15	1,288	290	7712227	0.04620	496	112	@
16	300	417	7713144	0.09170	229	319	
17	608	690	7716347	0.32030	1,624	1,843	
18	735	740	7719986	0.36390	2,231	2,246	
19	1,042	300	7723202	0.32160	2,795	805	
20	982	357	7725965	0.27630	2,263	823	
21	945	433	7728342	0.23770	1,873	858	
22	900	628	7731407	0.30650	2,301	1,605	
23	930	660	7734028	0.26210	2,033	1,443	
24	968	386	7736893	0.28650	2,313	922	
25	1,035	240	7741062	0.41690	3,599	834	
26	1,012	845	7743664	0.26020	2,196	1,834	
27	1,650	777	7747354	0.36900	5,078	2,391	
28	1,342	1,020	7750952	0.35980	4,027	3,061	
29	888	560	7754651	0.36990	2,739	1,728	
30	908	360	7757607	0.29560	2,238	888	
TOTAL				8.76860	81,179	45,009	
AVG.	1,098	560		0.29229	2,706	1,500	

APPROVED BY:_____ **DATE:**_____

@ Denotes 12 day average for BOD.

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - June 2002

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **May** **2002**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			7579910			
01	1,042	463	7584811	0.49010	4,259	1,892
02	765	230	7586701	0.18900	1,206	363
03	982	158	7589664	0.29630	2,427	390
04	802	108	7590942	0.12780	855	115
05	1,185	116	7592868	0.19260	1,903	186
06	968	245	7596439	0.35710	2,883	730
07	802	104	7599008	0.25690	1,718	223
08	1,065	140	7601640	0.26320	2,338	307
09	510	172	7602929	0.12890	548	185
10	1,350	82	7605523	0.25940	2,921	177
11	1,380	203	7608524	0.30010	3,454	508
12	1,320	242	7611573	0.30490	3,357	615
13	1,620	184	7613757	0.21840	2,951	335
14	930	295	7616158	0.24010	1,862	591
15	1,110	287	7618087	0.19290	1,786	462
16	1,320	195	7621030	0.29430	3,240	479
17	1,470	257	7623537	0.25070	3,074	537
18	1,335	322	7626123	0.25860	2,879	694
19	1,125	760	7631211	0.50880	4,774	3,225
20	908	640	7636122	0.49110	3,719	2,621
21	638	260	7639476	0.33540	1,785	727
22	930	365	7641293	0.18170	1,409	553
23	922	475	7643749	0.24560	1,889	973
24	998	3,290	7648480	0.47310	3,938	12,981
25	300	49	7650376	0.02500	63	10
26	300	110	7654829	0.02500	63	23
27	1,420	40	7660371	0.02500	296	8
28	138	98	7660947	0.02500	29	20
29	600	505	7661810	0.08630	432	363
30	638	2,060	7666547	0.47370	2,521	8,138
31	930	387	7669921	0.33740	2,617	1,089
TOTAL				7.85440	67,192	39,524
AVG.	961	414		0.25337	2,167	1,275

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **April** **2002**

 # DAYS **30**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			7472381				
01	1,620	158	7475215	0.28340	3,829	373	
02	1,072	136	7477498	0.22830	2,041	259	
03	1,260	393	7481278	0.37800	3,972	1,239	
04	1,320	297	7483505	0.22270	2,452	552	
05	1,110	500	7485900	0.23950	2,217	999	
06	1,470	674	7489659	0.37590	4,608	2,113	
07	1,230	117	7491924	0.22650	2,323	221	
08	1,740	128	7495784	0.38600	5,601	412	
09	975	580	7501013	0.52290	4,252	2,529	
10	870	252	7503660	0.26470	1,921	556	
11	1,155	163	7506777	0.31170	3,003	424	
12	975	138	7509103	0.23260	1,891	268	
13	1,024	275	7512596	0.34930	2,983	801	
14	1,020	510	7516248	0.36520	3,107	1,553	
15	1,230	150	7519877	0.36290	3,723	454	
16	1,140	1,940	7525798	0.59210	5,629	9,580	
17	300	555	7528617	0.28190	705	1,305	
18	300	1,487	7530947	0.23300	583	2,890	
19	300	300	7533328	0.23810	596	596	*
20	300	300	7535557	0.22290	558	558	*
21	300	300	7538180	0.26230	656	656	*
22	728	450	7543805	0.56250	3,415	2,111	
23	982	335	7548729	0.49240	4,033	1,376	
24	1,042	330	7555441	0.67120	5,833	1,847	
25	645	285	7560581	0.51400	2,765	1,222	
26	840	136	7565237	0.46560	3,262	528	
27	802	105	7568909	0.36720	2,456	322	
28	862	1,180	7575435	0.65260	4,692	6,422	
29	1,260	220	7577080	0.16450	1,729	302	
30	885	277	7579910	0.28300	2,089	654	
TOTAL				10.75290	86,924	43,121	
AVG.	959	422		0.35843	2,897	1,437	

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - April 2002

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **March** **2002**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			7344149				
01	772	450	7349150	0.50010	3,220	1,877	
02	833	406	7353034	0.38840	2,698	1,315	
03	1,050	122	7357152	0.41180	3,606	419	
04	818	627	7363219	0.60670	4,139	3,173	
05	690	326	7367641	0.44220	2,545	1,202	
06	832	600	7371967	0.43260	3,002	2,165	
07	952	204	7375842	0.38750	3,077	659	
08	1,095	258	7379705	0.38630	3,528	831	
09	1,106	1,865	7387657	0.79520	7,335	12,369	
10	960	1,120	7394116	0.64590	5,171	6,033	
11	652	577	7398832	0.47160	2,564	2,269	
12	765	130	7403055	0.42230	2,694	458	
13	870	657	7408298	0.52430	3,804	2,873	
14	1,035	497	7412990	0.46920	4,050	1,945	
15	1,020	945	7419630	0.66400	5,649	5,233	
16	1,155	137	7422777	0.31470	3,031	360	
17	1,350	182	7426278	0.35010	3,942	531	
18	1,065	138	7429409	0.31310	2,781	360	
19	1,042	80	7433442	0.40330	3,505	269	
20	1,560	158	7443014	0.46526	6,053	613	*
21	1,080	116	7444122	0.46526	4,191	450	*
22	1,065	280	7450680	0.46526	4,132	1,086	*
23	960	145	7455049	0.46526	3,725	563	*
24	585	86	7456048	0.46526	2,270	334	*
25	1,230	630	7456810	0.46526	4,773	2,445	*
26	1,110	104	7458828	0.20180	1,868	175	
27	1,080	122	7461448	0.26200	2,360	267	
28	1,080	94	7463650	0.22020	1,983	173	
29	1,290	157	7467129	0.34790	3,743	456	
30	1,102	125	7470163	0.30340	2,788	316	
31	1,072	112	7472381	0.22180	1,983	207	
TOTAL				13.27796	110,211	51,425	
AVG.	1,009	369		0.42832	3,555	1,659	

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Flow due to meter malfunction.**

File Name: Billing - March 2002

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **February** **2002**

 # DAYS **28**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			7209686			
01	675	690	7215057	0.53710	3,024	3,091
02	776	735	7219020	0.39630	2,565	2,429
03	862	1,180	7223665	0.46450	3,339	4,571
04	878	490	7227336	0.36710	2,688	1,500
05	818	867	7231310	0.39740	2,711	2,874
06	720	575	7234564	0.32540	1,954	1,560
07	1,410	950	7239246	0.46820	5,506	3,710
08	1,020	475	7244391	0.51450	4,377	2,038
09	1,031	842	7249157	0.47660	4,098	3,347
10	938	587	7254023	0.48660	3,807	2,382
11	780	420	7258957	0.49340	3,210	1,728
12	922	487	7264089	0.51320	3,946	2,084
13	908	186	7268114	0.40250	3,048	624
14	990	390	7273968	0.58540	4,833	1,904
15	892	140	7279288	0.53200	3,958	621
16	648	163	7283354	0.40660	2,197	553
17	952	487	7288415	0.50610	4,018	2,056
18	818	292	7292516	0.41010	2,798	999
19	818	497	7297698	0.51820	3,535	2,148
20	945	1,870	7305077	0.73790	5,816	11,508
21	848	1,460	7311669	0.65920	4,662	8,027
22	420	363	7315790	0.41210	1,444	1,248
23	495	246	7318836	0.30460	1,257	625
24	1,005	75	7323153	0.43170	3,618	270
25	1,035	128	7327457	0.43040	3,715	459
26	1,230	1,050	7332380	0.49230	5,050	4,311
27	772	990	7338411	0.60310	3,883	4,980
28	825	665	7344149	0.57380	3,948	3,182
TOTAL				13.44630	99,005	74,829
AVG.	873	618		0.48023	3,536	2,672

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - February 2002

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **January** **2002**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			7105587				
01	1,058	210	7108928	0.33410	2,948	585	
02	840	143	7111785	0.28570	2,001	341	
03	1,125	174	7115458	0.36730	3,446	533	
04	1,065	149	7119022	0.35640	3,166	443	
05	911	138	7122170	0.31480	2,392	362	
06	1,132	150	7125028	0.28580	2,698	358	
07	1,290	183	7128150	0.31220	3,359	476	
08	1,320	180	7131398	0.32480	3,576	488	
09	960	138	7134252	0.28540	2,285	328	
10	1,065	227	7137653	0.34010	3,021	644	
11	1,095	140	7140952	0.32990	3,013	385	
12	1,095	152	7143846	0.28940	2,643	367	
13	1,200	202	7147594	0.37480	3,751	631	
14	1,118	1,667	7154033	0.64390	6,004	8,952	
15	315	710	7157062	0.30290	796	1,794	
16	300	2,930	7159520	0.24580	615	6,006	
17	600	1,930	2 Day Avg	0.10040	502	1,616	
18	300	205	7161528	0.10040	251	172	
19	45	115	7162922	0.13940	52	134	
20	300	80	7164308	0.13860	347	92	
21	300	128	7165926	0.16180	405	173	
22	300	548	2 Day Avg	0.16255	407	743	*
23	300	548	7169177	0.16255	407	743	*
24	300	910	7170732	0.15550	389	1,180	*
25	300	1,050	7173003	0.22710	568	1,989	
26	300	149	7178349	0.53460	1,338	664	
27	300	140	7184830	0.64810	1,622	757	
28	300	337	7190542	0.57120	1,429	1,605	
29	300	192	7195390	0.48480	1,213	776	
30	300	516	2 Day Avg	0.71480	1,788	3,076	*
31	300	516	7209686	0.71480	1,788	3,076	*
TOTAL				10.40990	58,219	39,490	
AVG.	659	479		0.33580	1,878	1,274	

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - January 2002

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **December** **2001**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			7006032			
01	1,016	222	7009098	0.30660	2,598	568
02	1,058	437	7012546	0.34480	3,042	1,257
03	1,170	133	7015296	0.27500	2,683	305
04	1,042	162	7018001	0.27050	2,351	365
05	1,102	135	7022224	0.42230	3,881	475
06	1,095	184	7024931	0.27070	2,472	415
07	1,440	122	7028338	0.34070	4,092	347
08	1,290	142	7030925	0.25870	2,783	306
09	1,410	280	7035350	0.44250	5,204	1,033
10	990	260	7038735	0.33850	2,795	734
11	922	390	7044693	0.59580	4,581	1,938
12	788	90	7047152	0.24590	1,616	185
13	1,230	144	7050280	0.31280	3,209	376
14	1,350	176	7052991	0.27110	3,052	398
15	1,530	153	7056641	0.36500	4,657	466
16	1,118	387	7060533	0.38920	3,629	1,256
17	780	2,880	7065093	0.45600	2,966	10,953
18	690	112	7067826	0.27330	1,573	255
19	855	196	7071478	0.36520	2,604	597
20	825	282	7074462	0.29840	2,053	702
21	1,012	250	7077550	0.30880	2,606	644
22	1,635	1,570	2 day avg	0.27385	3,734	3,586
23	300	120	7083027	0.27385	685	274
24	300	120	2 day avg	0.17505	438	175
25	300	120	7086528	0.17505	438	175
26	615	340	7090333	0.38050	1,952	1,079
27	600	343	7092864	0.25310	1,267	724
28	892	240	7096697	0.38330	2,851	767
29	450	124	7098779	0.20820	781	215
30	832	172	7102848	0.40690	2,823	584
31	892	164	7105587	0.27390	2,038	375
TOTAL				9.95550	81,456	31,529
AVG.	953	337		0.32115	2,628	1,017

APPROVED BY:_____**DATE:**_____

*** Denotes previous day as this days value for Suspended Solids and BOD.**

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **NOVEMBER** **2001**

 # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			6906595			
01	682	1,650	6911495	0.49000	2,787	6,743
02	750	338	6914744	0.32490	2,032	916
03	1,020	580	6919182	0.44380	3,775	2,147
04	682	236	6922085	0.29030	1,651	571
05	848	143	6924971	0.28860	2,041	344
06	960	165	6927608	0.26370	2,111	363
07	938	800	6932612	0.50040	3,915	3,339
08	750	290	6935668	0.30560	1,912	739
09	728	217	6939034	0.33660	2,044	609
10	630	122	6941438	0.24040	1,263	245
11	668	517	6944669	0.32310	1,800	1,393
12	915	1,040	6947878	0.32090	2,449	2,783
13	802	870	6950847	0.29690	1,986	2,154
14	855	373	6953433	0.25860	1,844	804
15	802	200	6956376	0.29430	1,968	491
16	848	175	6959769	0.33930	2,400	495
17	772	194	6962995	0.32260	2,077	522
18	945	180	6967149	0.41540	3,274	624
19	998	2,300	6970465	0.33160	2,760	6,361
20	938	157	6973601	0.31360	2,453	411
21	1,012	64	6976623	0.30220	2,551	161
22	750	108	6979982	0.33590	2,101	303
23	1,260	118	6984347	0.43650	4,587	430
24	1,110	132	6987102	0.27550	2,550	303
25	1,200	144	6989752	0.26500	2,652	318
26	1,200	166	6993607	0.38550	3,858	534
27	1,260	162	6997798	0.41910	4,404	566
28	1,140	150	7000660	0.28620	2,721	358
29	862	124	7003638	0.29780	2,141	308
30	1,410	180	7006032	0.23940	2,815	359
TOTAL				9.94370	76,923	35,694
AVG.	925	397		0.33146	2,564	1,190

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - November 2001

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **OCTOBER** **2001**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			6804491			
01	1,260	860	6808001	0.35100	3,688	2,518
02	870	988	6812079	0.40780	2,959	3,360
03	1,170	132	6815114	0.30350	2,961	334
04	690	118	6817166	0.20520	1,181	202
05	1,058	198	6820453	0.32870	2,900	543
06	1,152	123	6823164	0.27110	2,605	278
07	1,080	108	6826510	0.33460	3,014	301
08	862	1,280	6829660	0.31500	2,265	3,363
09	1,290	540	6834372	0.47120	5,069	2,122
10	1,005	182	6836939	0.25670	2,152	390
11	1,440	140	6840081	0.31420	3,773	367
12	1,132	114	6842447	0.23660	2,234	225
13	1,125	210	6845021	0.25740	2,415	451
14	1,260	160	6846699	0.16780	1,763	224
15	1,500	90	6849208	0.25090	3,139	188
16	1,290	252	6852285	0.30770	3,310	647
17	1,260	373	6855732	0.34470	3,622	1,072
18	1,380	610	6859955	0.42230	4,860	2,148
19	668	210	6862678	0.27230	1,517	477
20	814	395	6867446	0.47680	3,237	1,571
21	1,080	430	6871600	0.41540	3,742	1,490
22	1,080	333	6875467	0.38670	3,483	1,074
23	772	415	6878393	0.29260	1,884	1,013
24	1,170	517	6882234	0.38410	3,748	1,656
25	1,170	238	6885306	0.30720	2,998	610
26	938	144	6887998	0.26920	2,106	323
27	971	151	6890661	0.26630	2,157	335
28	1,095	313	6894164	0.35030	3,199	914
29	1,192	395	6898130	0.39660	3,943	1,307
30	1,020	360	6901304	0.31740	2,700	953
31	1,350	5,300	6906595	0.52910	5,957	23,387
TOTAL				10.21040	94,581	53,843
AVG.	1,101	506		0.32937	3,051	1,737

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY | September | 2001

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			6699835			
01	945	106	6702801	0.29660	2,338	262
02	1,440	164	6704852	0.20510	2,463	281
03	1,075	400	6709161	0.43090	3,863	1,437
04	1,350	162	6713865	0.47040	5,296	636
05	1,012	565	6719383	0.55180	4,657	2,600
06	915	725	6725048	0.56650	4,323	3,425
07	420	380	6727515	0.24670	864	782
08	1,009	170	6729666	0.21510	1,810	305
09	1,230	180	6732430	0.27640	2,835	415
10	1,530	208	6735165	0.27350	3,490	474
11	1,380	487	6738403	0.32380	3,727	1,315
12	735	174	6740487	0.20840	1,277	302
13	1,470	148	6744504	0.40170	4,925	496
14	1,042	78	6746538	0.20340	1,768	132
15	1,275	196	6750016	0.34780	3,698	569
16	990	196	6752845	0.28290	2,336	462
17	1,320	343	6755850	0.30050	3,308	860
18	1,230	128	6759580	0.37300	3,826	398
19	960	445	6762470	0.28900	2,314	1,073
20	1,170	425	6766599	0.41290	4,029	1,464
21	1,005	920	6769825	0.32260	2,704	2,475
22	1,170	1,995	6773870	0.40450	3,947	6,730
23	1,035	870	6777480	0.36100	3,116	2,619
24	840	480	6780913	0.34330	2,405	1,374
25	1,170	202	6784660	0.37470	3,656	631
26	1,140	1,870	6789800	0.51400	4,887	8,016
27	608	670	6794931	0.51310	2,602	2,867
28	900	193	6798581	0.36500	2,740	588
29	694	99	6800978	0.23970	1,387	198
30	1,425	353	6804491	0.35130	4,175	1,034
TOTAL				10.46560	94,767	44,221
AVG.	1,083	444		0.34885	3,159	1,474

APPROVED BY: _____ DATE: 10/8/01

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY | August | 2001

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			6597286				
01	300	1,800	6599634	0.23480	587	3,525	
02	300	5,560	6602545	0.29110	728	13,498	
03	300	425	6604507	0.19620	491	695	
04	300	552	6606851	0.23440	586	1,079	
05	300	240	6609611	0.27600	691	552	
06	630	355	6613494	0.38830	2,040	1,150	
07	772	867	6616178	0.26840	1,728	1,941	
08	870	830	6619506	0.33280	2,415	2,304	
09	728	915	6622495	0.29890	1,815	2,281	
10	1,058	154	6626893	0.43980	3,881	565	
11	405	94	6629165	0.22720	767	178	
12	1,530	124	6633749	0.45840	5,849	474	
13	1,290	227	6637434	0.36850	3,965	698	
14	1,410	172	6640710	0.32760	3,852	470	
15	1,290	565	6643981	0.32710	3,519	1,541	
16	1,530	975	6648359	0.43780	5,586	3,560	
17	795	1,610	6650905	0.25460	1,688	3,419	
18	829	1,125	6654530	0.36250	2,506	3,401	
19	952	302	6658190	0.36600	2,906	922	
20	615	670	6660817	0.26270	1,347	1,468	
21	1,230	400	6665384	0.45670	4,685	1,524	
22	1,035	255	6670174	0.47900	4,135	1,019	
23	1,170	150	6673803	0.36290	3,541	454	
24	1,380	190	6677337	0.35340	4,067	560	
25	1,200	261	6679760	0.24230	2,425	527	
26	1,065	175	6682396	0.26360	2,341	385	
27	1,095	492	6685569	0.31730	2,898	1,302	*
28	1,320	130	6688942	0.33730	3,713	366	
29	945	140	6692377	0.34350	2,707	401	
30	668	150	6694686	0.23090	1,286	289	
31	1,260	450	6699835	0.51490	5,411	1,932	
TOTAL				10.25490	84,159	52,479	
AVG.	922	657		0.33080	2,715	1,693	

APPROVED BY: Mike Adams DATE: 9/10/01

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY JULY 2001

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			6485135			
01	1,530	493	6488878	0.37430	4,776	1,539
02	1,080	166	6491151	0.22730	2,047	315
03	1,590	228	6494505	0.33540	4,448	638
04	1,320	86	6496866	0.23610	2,599	169
05	1,530	132	6500778	0.39120	4,992	431
06	1,012	445	6504440	0.36620	3,091	1,359
07	1,335	490	6506957	0.25170	2,802	1,029
08	1,260	405	6510269	0.33120	3,480	1,119
09	1,095	168	6513159	0.28900	2,639	405
10	1,065	134	6516209	0.30500	2,709	341
11	1,440	143	6520290	0.40810	4,901	487
12	1,178	180	6526341	0.60510	5,945	908
13	1,050	113	6529778	0.34370	3,010	324
14	1,410	189	6534155	0.43770	5,147	690
15	1,200	280	6537782	0.36270	3,630	847
16	1,020	192	6541561	0.37790	3,215	605
17	832	280	6546834	0.52730	3,659	1,231
18	930	278	6550432	0.35980	2,791	834
19	1,290	144	6554588	0.41560	4,471	499
20	1,200	112	6557165	0.25770	2,579	241
21	994	124	6559523	0.23580	1,955	244
22	1,380	227	6562514	0.29910	3,442	566
23	1,410	250	6566588	0.40740	4,791	849
24	832	278	6569725	0.31370	2,177	727
25	938	1,070	6574953	0.52280	4,090	4,665
26	938	243	6578644	0.36910	2,887	748
27	1,080	110	6582162	0.35180	3,169	323
28	998	138	6584845	0.26830	2,233	309
29	1,830	3,120	6592196	0.73510	11,219	19,128
30	480	1,430	6594722	0.25260	1,011	3,013
31	315	6,043	6597286	0.25640	674	12,922
TOTAL				11.21510	110,579	57,504
AVG.	1,147	571		0.36178	3,567	1,855

APPROVED BY: Mike Andrews DATE: 8/8/01

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY JUNE 2001

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			6352637			
01	915	402	6356335	0.36980	2,822	1,240
02	1,380	255	6360034	0.36990	4,257	787
03	1,500	337	6364418	0.43840	5,484	1,232
04	1,290	825	6367810	0.33920	3,649	2,334
05	1,500	620	6372293	0.44830	5,608	2,318
06	1,590	533	6376227	0.39340	5,217	1,749
07	1,470	555	6380368	0.41410	5,077	1,917
08	1,290	525	6385991	0.56230	6,050	2,462
09	1,335	200	6390043	0.40520	4,511	676
10	1,102	184	6393822	0.37790	3,473	580
11	1,470	380	6401424	0.76020	9,320	2,409
12	855	337	6406010	0.45860	3,270	1,289
13	1,560	2,000	6411203	0.51930	6,756	8,662
14	780	1,910	6417213	0.60100	3,910	9,574
15	848	172	6422751	0.55380	3,917	794
16	948	151	6428241	0.54900	4,341	691
17	998	162	6431836	0.35950	2,992	486
18	1,230	180	6436389	0.45530	4,671	683
19	1,140	272	6440369	0.39800	3,784	903
20	1,170	230	6446292	0.59230	5,780	1,136
21	1,035	202	6451716	0.54240	4,682	914
22	735	212	6456219	0.45030	2,760	796
23	855	189	6459497	0.32780	2,337	517
24	1,290	285	6464583	0.50860	5,472	1,209
25	1,072	180	6469516	0.49330	4,410	741
26	1,072	122	6473176	0.36600	3,272	372
27	795	205	6476274	0.30980	2,054	530
28	878	157	6479046	0.27720	2,030	363
29	1,500	395	6482504	0.34580	4,326	1,139
30	1,335	343	6485135	0.26310	2,929	753
TOTAL				13.24980	129,162	49,254
AVG.	1,165	417		0.44166	4,305	1,642

APPROVED BY:_____ DATE:_____

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY MAY 2001

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			6205183			
01	450	1,800	6210780	0.55970	2,101	8,402
02	892	745	6215910	0.51300	3,816	3,187
03	945	210	6219399	0.34890	2,750	611
04	1,260	685	6224494	0.50950	5,354	2,911
05	1,019	850	6230057	0.55630	4,728	3,944
06	1,200	705	6235102	0.50450	5,049	2,966
07	862	320	6239052	0.39500	2,840	1,054
08	1,380	296	6245019	0.59670	6,868	1,473
09	1,200	237	6250162	0.51430	5,147	1,017
10	1,065	190	6254674	0.45120	4,008	715
11	1,200	333	6259315	0.46410	4,645	1,289
12	1,155	390	6264363	0.50480	4,863	1,642
13	1,290	420	6268366	0.40030	4,307	1,402
14	1,147	465	6272623	0.42570	4,072	1,651
15	1,770	130	6277282	0.46590	6,878	505
16	1,110	435	6281922	0.46400	4,295	1,683
17	1,560	238	6286368	0.44460	5,784	882
18	1,410	225	6290384	0.40160	4,723	754
19	1,740	287	6294810	0.44260	6,423	1,059
20	1,470	770	6301980	0.71700	8,790	4,604
21	982	363	6306469	0.44890	3,676	1,359
22	1,058	628	6310359	0.38900	3,432	2,037
23	1,200	545	6315314	0.49550	4,959	2,252
24	1,110	560	6319901	0.45870	4,246	2,142
25	885	740	6325292	0.53910	3,979	3,327
26	908	1,470	6331782	0.64900	4,915	7,957
27	750	385	6335662	0.38800	2,427	1,246
28	862	470	6339603	0.39410	2,833	1,545
29	1,260	360	6343462	0.38590	4,055	1,159
30	1,470	505	6348380	0.49180	6,029	2,071
31	1,380	347	6352637	0.42570	4,899	1,232
TOTAL				14.74540	142,891	68,080
AVG.	1,161	519		0.47566	4,609	2,196

APPROVED BY: Mike Andrews DATE: 6/7/01

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY | April | 2001

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			6043212			
01	1,680	940	6049022	0.58100	8,141	4,555
02	1,080	163	6052552	0.35300	3,180	480
03	1,740	827	6059031	0.64790	9,402	4,469
04	1,320	630	6064205	0.51740	5,696	2,719
05	1,012	980	6070929	0.67240	5,675	5,496
06	1,050	685	6081249	1.03200	9,037	5,896
07	971	159	6085541	0.42920	3,476	569
08	937	910	6089687	0.41460	3,240	3,147
09	1,170	600	6095597	0.59100	5,767	2,957
10	922	340	6100399	0.48020	3,692	1,362
11	645	720	6106027	0.56280	3,027	3,380
12	938	84	6108643	0.26160	2,046	183
13	1,680	158	6113628	0.49850	6,985	657
14	1,395	257	6118258	0.46300	5,387	992
15	1,230	603	6122649	0.43910	4,504	2,208
16	1,230	136	6127734	0.50850	5,216	577
17	1,170	108	6132251	0.45170	4,408	407
18	1,380	227	6137348	0.50970	5,866	965
19	1,140	290	6143797	0.64490	6,131	1,560
20	945	258	6149227	0.54300	4,280	1,168
21	1,215	488	6153839	0.46120	4,673	1,877
22	990	480	6159639	0.58000	4,789	2,322
23	982	373	6165889	0.62500	5,119	1,944
24	1,110	288	6171069	0.51800	4,795	1,244
25	997	648	6177213	0.61440	5,109	3,320
26	1,260	775	6182303	0.50900	5,349	3,290
27	1,200	300	6188032	0.57290	5,734	1,433
28	945	74	6192301	0.42690	3,365	263
29	1,050	155	6198175	0.58740	5,144	759
30	1,110	1,520	6205183	0.70080	6,488	8,884
TOTAL				16.19710	155,719	69,083
AVG.	1,150	473		0.53990	5,191	2,303

APPROVED BY: Mike Andrews DATE: 5/14/01

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **MARCH** **2000**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			5919212			
01	1,830	550	5923595	0.43830	6,689	2,010
02	1,650	186	5927023	0.34280	4,717	532
03	1,245	50	5929106	0.20830	2,163	87
04	1,350	540	5932518	0.34120	3,842	1,537
05	1,620	263	5935834	0.33160	4,480	727
06	2,040	2,660	5940839	0.50050	8,515	11,103
07	885	1,010	5945755	0.49160	3,628	4,141
08	1,080	360	5949808	0.40530	3,651	1,217
09	1,560	104	5953175	0.33670	4,381	292
10	1,305	163	5956781	0.36060	3,925	490
11	1,800	172	5961071	0.42900	6,440	615
12	1,290	100	5964194	0.31230	3,360	260
13	1,260	564	5968703	0.45090	4,738	2,121
14	1,650	540	5974170	0.54670	7,523	2,462
15	1,170	172	5977552	0.33820	3,300	485
16	1,800	565	5982582	0.50300	7,551	2,370
17	1,620	79	5985627	0.30450	4,114	201
18	1,380	790	5990532	0.49050	5,645	3,232
19	1,590	363	5996796	0.62640	8,306	1,896
20	1,440	1,010	6001582	0.47860	5,748	4,031
21	705	530	6006022	0.44400	2,611	1,963
22	1,148	635	6009786	0.37640	3,604	1,993
23	1,200	330	6013131	0.33450	3,348	921
24	1,260	123	6016542	0.34110	3,584	350
25	1,320	162	6021095	0.45530	5,012	615
26	870	360	6024858	0.37630	2,730	1,130
27	1,470	160	6029647	0.47890	5,871	639
28	1,072	243	6032479	0.28320	2,532	574
29	1,380	250	6035942	0.34630	3,986	722
30	1,830	248	6040103	0.41610	6,351	861
31	1,380	323	6043212	0.31090	3,578	838
TOTAL				12.40000	145,924	50,415
AVG.	1,394	439		0.40000	4,707	1,626

APPROVED BY: Mike Andrews **DATE:** 4/9/01

* Denotes 12 day average for Suspended Solids and BOD.

File Name. Billing - March 2001.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY DECEMBER 2000

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			5635742				
01	915	1,285	5638883	0.31410	2,397	3,366	
02	1,065	475	5642780	0.38970	3,461	1,544	
03	1,260	760	5646753	0.39730	4,175	2,518	
04	1,035	1,070	5651292	0.45390	3,918	4,051	
05	862	720	5654945	0.36530	2,626	2,194	
06	960	166	5659226	0.42810	3,428	593	
07	945	795	5662870	0.36440	2,872	2,416	
08	1,095	146	5666483	0.36130	3,299	440	
09	990	335	5670484	0.40010	3,303	1,118	
10	922	252	5674920	0.44360	3,411	932	
11	1,006	541	2-day Avg.	0.38830	3,258	1,752	*@
12	1,006	541	5682686	0.38830	3,258	1,752	*@
13	1,200	252	5686132	0.34460	3,449	724	
14	1,140	118	5689339	0.32070	3,049	316	
15	1,110	126	5692446	0.31070	2,876	326	
16	1,046	403	2-day Avg.	0.33640	2,935	1,131	*@
17	1,046	403	5699174	0.33640	2,935	1,131	*@
18	1,590	395	5701955	0.27810	3,688	916	
19	1,470	110	2-day Avg.	0.25325	3,105	232	@
20	1,020	540	5707020	0.25325	2,154	1,141	@
21	1,890	2,510	5713790	0.67700	10,671	14,172	
22	435	1,650	5716063	0.22730	825	3,128	
23	132	89	5717140	0.10770	119	80	
24	717	602	2-day Avg.	0.08035	480	403	^@
25	717	602	5718747	0.08035	480	403	^@
26	375	398	5721416	0.26690	835	886	
27	728	407	5728630	0.72140	4,380	2,449	
28	720	297	5732476	0.38460	2,309	953	
29	712	847	5735711	0.32350	1,921	2,285	
30	1,038	722	5739876	0.41650	3,606	2,508	
31	727	940	5742707	0.28310	1,716	2,219	
TOTAL				10.69650	90,940	58,078	
AVG.	964	597		0.34505	2,934	1,873	

APPROVED BY: Mike Anderson DATE: 1/8/01

^ Denotes an average For BOD and Solids using the succeeding 6 days data.

* Denotes 12 day average for Suspended Solids and BOD.

@ Denotes 2 day average for Flow.

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY NOVEMBER 2000

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			5530428			
01	926	450	5534576	0.41480	3,203	1,557
02	922	525	5537367	0.27910	2,146	1,222
03	930	140	5539730	0.23630	1,833	276
04	1,335	105	5542695	0.29650	3,301	260
05	1,500	190	5546977	0.42820	5,357	679
06	1,740	90	5550797	0.38200	5,543	287
07	1,440	270	5554293	0.34960	4,199	787
08	1,680	2,180	5559514	0.52210	7,315	9,492
09	1,620	2,300	5563490	0.39760	5,372	7,627
10	715	1,760	5565879	0.23890	1,425	3,507
11	1,095	760	5573053	0.71740	6,552	4,547
12	982	102	5576801	0.37480	3,070	319
13	1,140	80	5579327	0.25260	2,402	169
14	892	96	5580644	0.13170	980	105
15	1,050	285	5585189	0.45450	3,980	1,080
16	998	90	5588460	0.32710	2,723	246
17	1,170	152	5592034	0.35740	3,487	453
18	1,260	358	5594941	0.29070	3,055	868
19	1,170	270	5597789	0.28480	2,779	641
20	1,380	162	5601141	0.33520	3,858	453
21	1,020	270	5605082	0.39410	3,353	887
22	1,230	90	5608768	0.36860	3,781	277
23	1,500	160	5611533	0.27650	3,459	369
24	1,890	142	5615597	0.40640	6,406	481
25	1,410	116	5618889	0.32920	3,871	318
26	1,470	196	5621948	0.30590	3,750	500
27	1,110	317	5624003	0.20550	1,902	543
28	1,020	1,170	5627679	0.36760	3,127	3,587
29	1,080	690	5633189	0.55100	4,963	3,171
30	1,050	102	5635742	0.25530	2,236	217
TOTAL				10.53140	109,426	44,925
AVG.	1,224	454		0.35105	3,648	1,497

APPROVED BY: Mike Anderson DATE: 12/11/00

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY | OCTOBER | 2000

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			5349282				
01	877	5,000	5357805	0.85230	6,234	35,541	
02	780	2,660	5364522	0.67170	4,370	14,901	
03	795	2,600	5371584	0.70620	4,682	15,313	
04	652	1,750	5377471	0.58870	3,201	8,592	
05	825	214	5383356	0.58850	4,049	1,050	
06	735	224	5387294	0.39380	2,414	736	
07	881	254	5391160	0.38660	2,841	819	
08	1,080	780	5396980	0.58200	5,242	3,786	
09	900	715	5403345	0.63650	4,778	3,796	
10	862	110	5407697	0.43520	3,129	399	
11	938	455	5414847	0.71500	5,593	2,713	
12	922	128	5419901	0.50540	3,886	540	
13	735	480	5426416	0.65150	3,994	2,608	
14	870	625	5433337	0.69210	5,022	3,608	
15	615	655	5440145	0.68080	3,492	3,719	
16	1,012	880	5446281	0.61360	5,179	4,503	
17	772	1,170	5452443	0.61620	3,967	6,013	
18	915	573	5459015	0.65720	5,015	3,141	
19	712	1,043	5466022	0.70070	4,161	6,095	
20	555	218	5472507	0.64850	3,002	1,179	
21	608	256	5477911	0.54040	2,740	1,154	
22	990	206	5483433	0.55220	4,559	949	
23	1,080	337	5487742	0.43090	3,881	1,211	
24	1,080	567	5492725	0.49830	4,488	2,356	
25	1,230	520	5499132	0.64070	6,572	2,779	
26	865	567	3 Day Avg.	0.49847	3,596	2,357	*
27	865	567	3 Day Avg.	0.49847	3,596	2,357	*
28	942	498	5514086	0.49847	3,916	2,070	
29	750	240	5517770	0.36840	2,304	737	
30	802	545	5525581	0.78110	5,225	3,550	
31	645	267	5530428	0.48470	2,607	1,079	
TOTAL				18.11461	127,736	139,652	
AVG.	848	810		0.58434	4,121	4,505	

APPROVED BY: Mike Anderson DATE: 11/14/00

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY | September | 2000

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			5144183			
01	1,065	915	5149047	0.48640	4,320	3,712
02	1,092	1,670	5158951	0.99040	9,020	13,794
03	1,072	595	5164911	0.59600	5,329	2,958
04	885	72	5169716	0.48050	3,547	289
05	960	66	5173808	0.40920	3,276	225
06	1,050	1,230	5178801	0.49930	4,372	5,122
07	758	1,130	5185492	0.66910	4,230	6,306
08	840	1,390	5195487	0.99950	7,002	11,587
09	585	200	5202896	0.74090	3,615	1,236
10	645	260	5211182	0.82860	4,457	1,797
11	645	500	5217687	0.65050	3,499	2,713
12	630	440	5223356	0.56690	2,979	2,080
13	960	50	5228636	0.52800	4,227	220
14	758	530	5237387	0.87510	5,532	3,868
15	810	102	5242580	0.51930	3,508	442
16	1,028	882	5249225	0.66450	5,697	4,888
17	1,230	1,030	5253994	0.47690	4,892	4,097
18	1,290	1,690	5259873	0.58790	6,325	8,286
19	892	1,640	5265830	0.59570	4,432	8,148
20	1,020	4,620	5276258	1.04280	8,871	40,180
21	930	2,970	5281849	0.55910	4,336	13,849
22	1,042	4,120	5290260	0.84110	7,309	28,901
23	866	1,270	5297016	0.67560	4,879	7,156
24	952	1,990	5301506	0.44900	3,565	7,452
25	982	2,360	5307849	0.63430	5,195	12,485
26	1,200	5,770	5315503	0.76540	7,660	36,832
27	765	2,670	5326118	1.06150	6,772	23,637
28	712	3,100	5335565	0.94470	5,610	24,424
29	780	810	5340847	0.52820	3,436	3,568
30	889	3,680	5349282	0.84350	6,254	25,888
TOTAL				20.50990	154,147	306,138
AVG.	911	1,592		0.68366	5,138	10,205

APPROVED BY: Mike Anderson DATE: 10/9/00

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - September 2000.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY AUGUST 2000

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			4963095			
01	1,200	1,095	4968379	0.52840	5,288	4,826
02	1,290	2,780	4976049	0.76700	8,252	17,783
03	555	2,110	4983247	0.71980	3,332	12,667
04	765	1,810	4991057	0.78100	4,983	11,790
05	949	3,440	4998272	0.72150	5,710	20,700
06	952	1,025	5003848	0.55760	4,427	4,767
07	1,042	104	5008403	0.45550	3,958	395
08	1,290	362	5010411	0.20080	2,160	606
09	870	80	5014180	0.37690	2,735	251
10	1,020	166	5019829	0.56490	4,805	782
11	818	1,430	5026468	0.66390	4,529	7,918
12	908	950	5026649	0.01810	137	143
13	1,065	1,300	5029142	0.24930	2,214	2,703
14	772	2,010	5030156	0.10140	653	1,700
15	982	2,290	5037275	0.71190	5,830	13,596
16	1,110	3,060	5046167	0.88920	8,232	22,693
17	638	1,710	5052769	0.66020	3,513	9,415
18	682	232	5062052	0.92830	5,280	1,796
19	735	192	5068538	0.64860	3,976	1,039
20	690	353	5076942	0.84040	4,836	2,474
21	675	753	5084499	0.75570	4,254	4,746
22	615	1,570	5092221	0.77220	3,961	10,111
23	712	1,480	5097657	0.54360	3,228	6,710
24	780	3,410	5107382	0.97250	6,326	27,657
25	682	925	5111897	0.45150	2,568	3,483
26	889	978	5116131	0.42340	3,139	3,453
27	1,230	1,090	5121065	0.49340	5,061	4,485
28	1,200	350	5126289	0.52240	5,228	1,525
29	1,035	453	5131576	0.52870	4,564	1,997
30	1,080	160	5137327	0.57510	5,180	767
31	1,148	547	5144183	0.68560	6,564	3,128
TOTAL				18.10880	134,926	206,106
AVG.	915	1,233		0.58415	4,352	6,649

APPROVED BY: Mike Andrews DATE: 9/11/00

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - August 2000.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY JULY 2000

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			4791896			
01	852	158	4797028	0.51320	3,647	676
02	1,050	86	4802222	0.51940	4,548	373
03	1,042	94	4806478	0.42560	3,699	334
04	1,320	116	4812458	0.59800	6,583	579
05	1,170	1,230	4817238	0.47800	4,664	4,903
06	1,012	1,490	4824090	0.68520	5,783	8,515
07	600	1,560	4829148	0.50580	2,531	6,581
08	776	2,455	4835173	0.60250	3,899	12,336
09	968	246	4840544	0.53710	4,336	1,102
10	982	88	4845742	0.51980	4,257	381
11	690	413	4853036	0.72940	4,197	2,512
12	660	158	4857733	0.46970	2,585	619
13	585	98	4863844	0.61110	2,981	499
14	585	200	4869774	0.59300	2,893	989
15	626	265	4874247	0.44730	2,335	989
16	900	146	4879487	0.52400	3,933	638
17	840	466	4884477	0.49900	3,496	1,939
18	938	448	4888556	0.40790	3,191	1,524
19	758	190	4894899	0.63430	4,010	1,005
20	975	553	4901030	0.61310	4,985	2,828
21	1,140	300	4906749	0.57190	5,437	1,431
22	1,260	812	4913034	0.62850	6,605	4,256
23	1,320	178	4917974	0.49400	5,438	733
24	1,102	1,660	4922734	0.47600	4,375	6,590
25	1,230	2,610	4929164	0.64300	6,596	13,996
26	870	780	4933721	0.45570	3,306	2,964
27	1,050	730	4939731	0.60100	5,263	3,659
28	930	263	4943869	0.41380	3,210	908
29	941	2,450	4952140	0.82710	6,491	16,900
30	908	224	4957973	0.58330	4,417	1,090
31	818	200	4963095	0.51220	3,494	854
TOTAL				17.11990	133,188	102,704
AVG.	932	667		0.55225	4,296	3,313

APPROVED BY: Nick Anderson DATE: 8/14/00

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - July 2000

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY JUNE 2000

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			4636946			
01	772	603	4642733	0.57870	3,726	2,910
02	1,005	257	4647912	0.51790	4,341	1,110
03	975	157	4652788	0.48760	3,965	638
04	1,005	154	4657199	0.44110	3,697	567
05	1,028	1,608	4663282	0.60830	5,215	8,158
06	600	6,290	4666330	0.30480	1,525	15,989
07	300	2,295	4668714	0.23840	596	4,563
08	592	2,680	4680200	1.14860	5,671	25,673
09	675	728	4685585	0.53850	3,031	3,270
10	776	1,200	4692841	0.72560	4,696	7,262
11	750	116	4696400	0.35590	2,226	344
12	810	507	4701489	0.50890	3,438	2,152
13	1,020	710	4707672	0.61830	5,260	3,661
14	825	1,515	4715017	0.73450	5,054	9,280
15	908	677	4719446	0.44290	3,354	2,501
16	795	2,520	4726255	0.68090	4,515	14,310
17	664	463	4730823	0.45680	2,530	1,764
18	1,050	750	4736409	0.55860	4,892	3,494
19	772	505	4740121	0.37120	2,390	1,563
20	570	945	4746520	0.63990	3,042	5,043
21	870	275	4751160	0.46400	3,367	1,064
22	1,170	383	4756354	0.51940	5,068	1,659
23	862	260	4760446	0.40920	2,942	887
24	918	340	4765492	0.50460	3,863	1,431
25	1,042	320	4768800	0.33080	2,875	883
26	675	124	4771886	0.30860	1,737	319
27	698	676	4777748	0.58620	3,412	3,305
28	712	675	4783661	0.59130	3,511	3,329
29	758	790	4787615	0.39540	2,500	2,605
30	825	580	4791896	0.42810	2,946	2,071
TOTAL				15.49500	105,384	131,806
AVG.	814	970		0.51650	3,513	4,394

APPROVED BY: _____ DATE: 7/1/00

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY MAY 2000

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			4494877			
01	908	130	4500914	0.60370	4,572	655
02	908	68	4505565	0.46510	3,522	264
03	915	3,180	4511292	0.57270	4,370	15,189
04	728	3,030	4516706	0.54140	3,287	13,681
05	975	144	4518985	0.22790	1,853	274
06	912	94	4521079	0.20940	1,593	164
07	1,620	1,000	4525841	0.47620	6,434	3,972
08	1,290	613	4531184	0.53430	5,748	2,732
09	960	108	4536313	0.51290	4,106	462
10	998	150	4540747	0.44340	3,691	555
11	1,080	106	4544641	0.38940	3,507	344
12	982	473	4550794	0.61530	5,039	2,427
13	994	81	4554592	0.37980	3,149	257
14	1,028	800	4559102	0.45100	3,867	3,009
15	1,020	715	4564011	0.49090	4,176	2,927
16	1,035	1,027	4568114	0.41030	3,542	3,514
17	1,200	1,420	4572736	0.46220	4,626	5,474
18	1,125	825	4578395	0.56590	5,310	3,894
19	345	2,190	4583018	0.46230	1,330	8,444
20	1,114	410	4586625	0.36070	3,351	1,233
21	1,230	435	4590719	0.40940	4,200	1,485
22	1,080	725	4594880	0.41610	3,748	2,516
23	1,110	827	4598968	0.40880	3,784	2,820
24	1,020	1,340	4603249	0.42810	3,642	4,784
25	900	770	4609124	0.58750	4,410	3,773
26	930	440	4611810	0.26860	2,083	986
27	900	1,110	4615981	0.41710	3,131	3,861
28	1,080	146	4621210	0.52290	4,710	637
29	982	80	4625902	0.46920	3,843	313
30	1,200	280	4630387	0.44850	4,489	1,047
31	1,200	124	4636946	0.65590	6,564	678
TOTAL				14.20690	121,675	92,369
AVG.	1,025	737		0.45829	3,925	2,980

APPROVED BY: Mike Anderson DATE: 6/8/00

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - May 2000.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY | APRIL | 2000

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			4347819			
01	964	1,045	4351832	0.40130	3,226	3,497
02	1,140	1,000	4355953	0.41210	3,918	3,437
03	1,028	560	4359908	0.39550	3,391	1,847
04	990	284	4363435	0.35270	2,912	835
05	1,200	1,710	4370511	0.70760	7,082	10,091
06	578	1,730	4376099	0.55880	2,694	8,062
07	705	173	4380362	0.42630	2,507	615
08	540	258	4385314	0.49520	2,230	1,066
09	915	363	4390908	0.55940	4,269	1,694
10	855	455	4396050	0.51420	3,667	1,951
11	878	435	4400224	0.41740	3,056	1,514
12	915	310	4404849	0.46250	3,529	1,196
13	1,035	567	4409144	0.42950	3,707	2,031
14	1,170	550	4414641	0.54970	5,364	2,521
15	1,305	76	4418317	0.36760	4,001	233
16	1,072	120	4421512	0.31950	2,856	320
17	1,140	262	4427914	0.64020	6,087	1,399
18	930	445	4432778	0.48640	3,773	1,805
19	975	395	4436941	0.41630	3,385	1,371
20	1,260	1,780	4442354	0.54130	5,688	8,036
21	885	1,670	4447368	0.50140	3,701	6,983
22	690	2,027	4453249	0.58810	3,384	9,942
23	892	280	4457755	0.45060	3,352	1,052
24	990	535	4462952	0.51970	4,291	2,319
25	1,140	630	4468112	0.51600	4,906	2,711
26	1,095	90	4473028	0.49160	4,489	369
27	1,230	80	4477376	0.43480	4,460	290
28	1,350	110	4482963	0.55870	6,290	513
29	862	141	4487791	0.48280	3,471	568
30	1,005	447	4494877	0.70860	5,939	2,642
TOTAL				14.70580	121,626	80,911
AVG.	991	618		0.49019	4,054	2,697

APPROVED BY: Mike Andrews DATE: 5/12/00

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - April 2000.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY | MARCH | 2000

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			4217949			
01	870	277	4222257	0.43080	3,126	995
02	1,080	1,900	4230060	0.78030	7,028	12,365
03	435	2,275	4235524	0.54640	1,982	10,367
04	518	360	4239459	0.39350	1,700	1,181
05	855	857	4241987	0.25280	1,803	1,807
06	735	296	4244732	0.27450	1,683	678
07	968	443	4248396	0.36640	2,958	1,354
08	825	174	4251783	0.33870	2,330	492
09	982	300	4255508	0.37250	3,051	932
10	938	313	4259559	0.40510	3,169	1,057
11	818	342	4262625	0.30660	2,092	875
12	1,140	490	4266888	0.42630	4,053	1,742
13	1,200	575	4271039	0.41510	4,154	1,991
14	930	570	4275501	0.44620	3,461	2,121
15	990	190	4278882	0.33810	2,792	536
16	1,020	242	4283149	0.42670	3,630	861
17	930	373	4287337	0.41880	3,248	1,303
18	1,002	890	4291424	0.40870	3,415	3,034
19	848	1,170	4295718	0.42940	3,037	4,190
20	1,042	1,780	4302804	0.70860	6,158	10,519
21	1,050	544	4306319	0.35150	3,078	1,595
22	1,050	156	4309904	0.35850	3,139	466
23	1,440	240	4314053	0.41490	4,983	830
24	1,020	725	4317545	0.34920	2,971	2,111
25	1,290	394	4321853	0.43080	4,635	1,416
26	1,290	930	4324676	0.28230	3,037	2,190
27	1,560	1,200	4329556	0.48800	6,349	4,884
28	1,230	1,920	4334989	0.54330	5,573	8,700
29	1,020	1,770	4338714	0.37250	3,169	5,499
30	1,072	1,435	4342454	0.37400	3,344	4,476
31	1,230	1,125	4347819	0.53650	5,504	5,034
TOTAL				12.98700	110,651	95,599
AVG.	1,012	782		0.41894	3,569	3,084

APPROVED BY: Mike Andrews DATE: 4/10/2000

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - March 2000.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY FEBRUARY 2000

DAYS 29

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			4111228			
01	1,140	440	4114308	0.30800	2,928	1,130
02	1,200	490	4117640	0.33320	3,335	1,362
03	1,200	400	4120567	0.29270	2,929	976
04	1,230	210	4122794	0.22270	2,285	390
05	1,515	652	4126097	0.33030	4,173	1,796
06	1,350	590	4128666	0.25690	2,892	1,264
07	1,440	595	4132709	0.40430	4,855	2,006
08	1,410	1,740	4136508	0.37990	4,467	5,513
09	922	1,830	4141586	0.50780	3,905	7,750
10	922	300	4145921	0.43350	3,333	1,085
11	1,065	565	4150370	0.44490	3,952	2,096
12	904	1,352	4154168	0.37980	2,863	4,283
13	990	1,350	4158436	0.42680	3,524	4,805
14	878	793	4161958	0.35220	2,579	2,329
15	998	833	4166415	0.44570	3,710	3,096
16	810	130	4168610	0.21950	1,483	238
17	1,140	363	4173482	0.48720	4,632	1,475
18	945	340	4176765	0.32830	2,587	931
19	1,305	176	4179175	0.24100	2,623	354
20	1,290	214	4182005	0.28300	3,045	505
21	2,130	160	4184982	0.29770	5,288	397
22	1,410	258	4187347	0.23650	2,781	509
23	1,590	487	4190565	0.32180	4,267	1,307
24	1,470	1,500	4193974	0.34090	4,179	4,265
25	1,350	1,080	4198577	0.46030	5,183	4,146
26	949	1,152	4201773	0.31960	2,530	3,071
27	1,088	1,220	4207657	0.58840	5,339	5,987
28	1,230	860	4213220	0.55630	5,707	3,990
29	945	240	4217949	0.47290	3,727	947
TOTAL				10.67210	105,102	68,003
AVG.	1,201	701		0.36800	3,624	2,345

APPROVED BY: Mike Anderson DATE: 3/8/00

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - February 2000.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY JANUARY 2000

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			3994936			
01	1,065	160	3999830	0.48940	4,347	653
02	1,095	72	4003448	0.36180	3,304	217
03	1,140	74	4006794	0.33460	3,181	207
04	1,230	102	4010626	0.38320	3,931	326
05	975	1,460	4016341	0.57150	4,647	6,959
06	870	198	4019740	0.33990	2,466	561
07	832	114	4024298	0.45580	3,163	433
08	862	64	4027625	0.33270	2,392	178
09	938	76	4033328	0.57030	4,461	361
10	720	93	4036409	0.30810	1,850	239
11	735	270	4042663	0.62540	3,834	1,408
12	750	257	4045430	0.27670	1,731	593
13	1,170	246	4048893	0.34630	3,379	710
14	878	1,275	4054260	0.53670	3,930	5,707
15	728	1,147	4057449	0.31890	1,936	3,051
16	1,028	405	4061853	0.44040	3,776	1,488
17	1,200	370	4064990	0.31370	3,140	968
18	1,065	530	4067521	0.25310	2,248	1,119
19	1,530	2,860	4071798	0.42770	5,458	10,202
20	862	266	4073995	0.21970	1,579	487
21	1,050	1,300	4076912	0.29170	2,554	3,163
22	1,320	1,575	4081980	0.50680	5,579	6,657
23	952	447	4084613	0.26330	2,091	982
24	1,088	1,990	4088464	0.38510	3,494	6,391
25	960	390	4092585	0.41210	3,299	1,340
26	1,020	200	4095813	0.32280	2,746	538
27	1,260	148	4098301	0.24880	2,614	307
28	1,380	212	4102664	0.43630	5,021	771
29	956	136	4105133	0.24690	1,969	280
30	1,260	317	4108015	0.28820	3,029	762
31	1,470	180	4111228	0.32130	3,939	482
TOTAL				11.62920	101,089	57,541
AVG.	1,045	546		0.37514	3,261	1,856

APPROVED BY: Mike Andrews DATE: Feb 10, 2000

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - January 2000.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **DECEMBER** **1999**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			3874454				
01	930	66	3877055	0.26010	2,017	143	
02	1,050	108	3880196	0.31410	2,751	283	
03	1,260	124	3883789	0.35930	3,776	372	
04	1,215	104	3886959	0.31700	3,212	275	
05	998	505	3891888	0.49290	4,103	2,076	
06	1,012	747	3896541	0.46530	3,927	2,899	
07	1,050	715	3902063	0.55220	4,836	3,293	
08	600	1,330	3908138	0.60750	3,040	6,739	
09	690	158	3912271	0.41330	2,378	545	
10	675	52	3914932	0.26610	1,498	115	
11	1,125	70	3919073	0.41410	3,885	242	
12	1,440	70	3922930	0.38570	4,632	225	
13	1,230	88	3928132	0.52020	5,336	382	
14	1,020	108	3932415	0.42830	3,643	386	
15	1,110	60	3936143	0.37280	3,451	187	
16	1,042	96	3939032	0.28890	2,511	231	
17	1,028	190	3943555	0.45230	3,878	717	
18	994	1,135	3948120	0.45650	3,784	4,321	
19	1,260	870	3954066	0.59460	6,248	4,314	
20	878	90	3958945	0.48790	3,573	366	
21	938	218	3962538	0.35930	2,811	653	
22	1,035	320	3967069	0.45310	3,911	1,209	
23	720	10,800	3973737	0.66680	4,004	60,060	
24	1,057	318	2 Day Avg	0.08485	748	225	**
25	300	300	3975434	0.08485	212	212	
26	300	300	3976744	0.13100	328	328	
27	465	2,580	3981304	0.45600	1,768	9,812	
28	818	69	3984668	0.33640	2,295	194	
29	915	212	3988457	0.37890	2,891	670	
30	930	60	3991488	0.30310	2,351	152	
31	855	210	3994936	0.34480	2,459	604	
TOTAL				12.04820	96,258	102,228	
AVG.	934	712		0.38865	3,105	3,298	

APPROVED BY: Mike Andrews **DATE:** 3/8/00

*** Denotes 12 day average for Suspended Solids and BOD.**

**** Denotes 12 day average for BOD and TSS and 2 day average for flow.**

File Name: Billing - December 1999.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY NOVEMBER 1999

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			3756840			
01	1,095	218	3760812	0.39720	3,627	722
02	990	417	3764846	0.40340	3,331	1,403
03	938	1,155	3770348	0.55020	4,304	5,300
04	1,020	184	3773113	0.27650	2,352	424
05	1,200	167	3777111	0.39980	4,001	557
06	1,050	182	3780750	0.36390	3,187	552
07	780	82	3784060	0.33100	2,153	226
08	1,095	80	3787712	0.36520	3,335	244
09	1,170	84	3791206	0.34940	3,409	245
10	952	66	3795415	0.42090	3,342	232
11	1,260	174	3799482	0.40670	4,274	590
12	1,110	282	3802485	0.30030	2,780	706
13	1,054	1,420	3805178	0.26930	2,367	3,189
14	375	360	3810104	0.49260	1,541	1,479
15	1,140	750	3814406	0.43020	4,090	2,691
16	990	627	3820236	0.58300	4,814	3,049
17	945	580	3825607	0.53710	4,233	2,598
18	772	450	3829057	0.34500	2,221	1,295
19	1,058	600	3832686	0.36290	3,202	1,816
20	915	80	3835488	0.28020	2,138	187
21	1,110	188	3839744	0.42560	3,940	667
22	1,042	1,150	3844841	0.50970	4,429	4,889
23	885	313	3847988	0.31470	2,323	821
24	802	375	3851450	0.34620	2,316	1,083
25	750	174	3855588	0.41380	2,588	600
26	832	78	3857919	0.23310	1,617	152
27	754	510	3862866	0.49470	3,111	2,104
28	735	145	3866906	0.40400	2,476	489
29	825	114	3871073	0.41670	2,867	396
30	750	128	3874454	0.33810	2,115	361
TOTAL				11.76140	92,485	39,067
AVG.	946	371		0.39205	3,083	1,302

APPROVED BY: Mike Anderson DATE: 12/10/99

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY | OCTOBER | 1999

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			3642687			
01	758	145	3647574	0.48870	3,089	591
02	840	492	3648590	0.10160	712	417
03	1,320	144	3651672	0.30820	3,393	370
04	765	460	3653690	0.20180	1,288	774
05	645	120	3655637	0.19470	1,047	195
06	1,350	180	3658753	0.31160	3,508	468
07	1,350	610	3661830	0.30770	3,464	1,565
08	1,410	123	3663925	0.20950	2,464	215
09	1,215	355	3668144	0.42190	4,275	1,249
10	1,410	2,310	3674320	0.61760	7,263	11,898
11	878	530	3678440	0.41200	3,017	1,821
12	1,058	126	3680701	0.22610	1,995	238
13	1,170	1,225	3683452	0.27510	2,684	2,811
14	892	1,075	3689235	0.57830	4,302	5,185
15	765	122	3692843	0.36080	2,302	367
16	735	376	3697906	0.50630	3,104	1,588
17	960	106	3701219	0.33130	2,653	293
18	1,140	96	3705549	0.43300	4,117	347
19	1,200	66	3708547	0.29980	3,000	165
20	968	60	3711774	0.32270	2,605	161
21	1,140	146	3716513	0.47390	4,506	577
22	908	188	3720407	0.38940	2,949	611
23	1,050	138	3726461	0.60540	5,301	697
24	945	112	3730043	0.35820	2,823	335
25	1,042	185	3733933	0.38900	3,381	600
26	1,170	368	3738802	0.48690	4,751	1,494
27	1,012	210	3742402	0.36000	3,038	631
28	1,350	192	3746846	0.44440	5,003	712
29	1,170	113	3749314	0.24680	2,408	233
30	1,425	175	3753172	0.38580	4,585	563
31	1,230	176	3756840	0.36680	3,763	538
TOTAL				11.41530	102,790	37,707
AVG.	1,073	346		0.36824	3,316	1,216

APPROVED BY: Mike Anderson DATE: 11/10/99

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - October 1999.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY SEPTEMBER 1999

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			3526609				
01	975	417	3530413	0.38040	3,093	1,323	
02	1,042	283	3533739	0.33260	2,890	785	
03	1,260	198	3537771	0.40320	4,237	666	
04	994	77	3541024	0.32530	2,697	209	
05	952	154	3543870	0.28460	2,260	366	
06	1,290	108	3547658	0.37880	4,075	341	
07	1,005	110	3551782	0.41240	3,457	378	
08	922	640	3555335	0.35530	2,732	1,896	
09	682	1,340	3562043	0.67080	3,815	7,497	
10	840	132	3565348	0.33050	2,315	364	
11	964	176	3568555	0.32070	2,578	471	
12	964	288	3572645	0.40900	3,288	982	*
13	1,500	478	3575750	0.31050	3,884	1,238	
14	742	1,473	3579494	0.37440	2,317	4,599	
15	870	660	3583754	0.42600	3,091	2,345	
16	772	1,000	3589812	0.60580	3,900	5,052	
17	698	150	3593978	0.41660	2,425	521	
18	698	132	3598090	0.41120	2,394	453	
19	720	116	3602960	0.48700	2,924	471	
20	735	96	3606061	0.31010	1,901	248	
21	945	178	3608933	0.28720	2,264	426	
22	900	485	3613181	0.42480	3,189	1,718	
23	1,110	253	3616536	0.33550	3,106	708	
24	735	315	3620564	0.40280	2,469	1,058	
25	802	312	3624859	0.42950	2,873	1,118	
26	1,230	193	3629045	0.41860	4,294	674	
27	885	480	3632804	0.37590	2,774	1,505	
28	682	125	3636027	0.32230	1,833	336	
29	818	740	2-Day Avg.	0.33300	2,272	2,055	
30	525	600	3642687	0.33300	1,458	1,666	
TOTAL				11.60780	86,807	41,470	
AVG.	909	390		0.38693	2,894	1,382	

APPROVED BY: Mike Andrews DATE: 10/8/99

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY AUGUST 1999

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			3413970				
01	375	1,740	3417234	0.32640	1,021	4,737	
02	300	3,630	3418805	0.15710	393	4,756	
03	300	5,720	3419436	0.06310	158	3,010	
04	450	4,370	3420247	0.08110	304	2,956	
05	300	5,830	3421508	0.12610	316	6,131	
06	300	3,025	3422709	0.12010	300	3,030	
07	745	2,162	3423854	0.11450	711	2,065	*
08	300	453	3425791	0.19370	485	732	
09	300	2,920	3433466	0.76750	1,920	18,691	
10	465	1,595	3437148	0.36820	1,428	4,898	
11	510	625	3440393	0.32450	1,380	1,691	
12	788	212	3442945	0.25520	1,677	451	
13	922	2,380	3445264	0.23190	1,783	4,603	
14	668	680	3447106	0.18420	1,026	1,045	
15	885	172	3451333	0.42270	3,120	606	
16	930	102	3453637	0.23040	1,787	196	
17	780	350	3459599	0.59620	3,878	1,740	
18	930	465	3465781	0.61820	4,795	2,397	
19	655	985	3467415	0.16340	893	1,342	*
20	1,050	825	3474586	0.71710	6,280	4,934	
21	330	422	3480403	0.58170	1,601	2,047	
22	728	940	3483445	0.30420	1,847	2,385	
23	758	770	3489580	0.61350	3,878	3,940	
24	788	620	3494680	0.51000	3,352	2,637	
25	818	440	3499232	0.45520	3,105	1,670	
26	1,050	357	3501574	0.23420	2,051	697	
27	1,350	122	3505059	0.34850	3,924	355	
28	1,095	714	3510565	0.55060	5,028	3,279	
29	772	310	3518811	0.82460	5,309	2,132	
30	780	162	3523722	0.49110	3,195	664	
31	855	660	3526609	0.28870	2,059	1,589	
TOTAL				11.26390	69,004	91,406	
AVG.	686	1,412		0.36335	2,226	2,949	

APPROVED BY: Mike Andrews DATE: 9/9/99

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - August 1999.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY JULY 1999

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			3296204			
01	1,110	136	3299145	0.29410	2,723	334
02	1,320	102	3301676	0.25310	2,786	215
03	1,560	152	3304408	0.27320	3,554	346
04	1,560	283	3307857	0.34490	4,487	814
05	1,620	237	3311238	0.33810	4,568	668
06	1,140	212	3314412	0.31740	3,018	561
07	1,380	357	3317321	0.29090	3,348	866
08	1,590	186	3320861	0.35400	4,694	549
09	1,470	150	3324021	0.31600	3,874	395
10	1,500	167	3327869	0.38480	4,814	536
11	1,260	188	3331467	0.35980	3,781	564
12	1,035	3,080	3335893	0.44260	3,820	11,369
13	900	180	3339685	0.37920	2,846	569
14	1,320	350	3344366	0.46810	5,153	1,366
15	1,260	1,035	3349086	0.47200	4,960	4,074
16	1,350	128	3352488	0.34020	3,830	363
17	1,080	354	3357288	0.48000	4,323	1,417
18	1,080	157	3360771	0.34830	3,137	456
19	1,178	425	3364823	0.40520	3,981	1,436
20	1,058	547	3368817	0.39940	3,524	1,822
21	1,020	116	3372433	0.36160	3,076	350
22	840	555	3375033	0.26000	1,821	1,203
23	1,020	407	3378299	0.32660	2,778	1,109
24	1,410	950	3383381	0.50820	5,976	4,026
25	1,350	703	3387504	0.41230	4,642	2,417
26	1,170	118	3390784	0.32800	3,201	323
27	1,110	112	3395415	0.46310	4,287	433
28	1,170	120	3399237	0.38220	3,729	383
29	1,800	112	3402631	0.33940	5,095	317
30	1,560	1,390	3408724	0.60930	7,927	7,063
31	716	1,390	3413970	0.52460	3,133	6,081
TOTAL				11.77660	122,890	52,429
AVG.	1,256	464		0.37989	3,964	1,691

APPROVED BY: Mike Andrews DATE: 8/9/99

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - July 1999.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY MAY 1999

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			3062016				
01	1,238	80	3066034	0.40180	4,149	268	
02	892	82	3069066	0.30320	2,256	207	
03	1,028	5,360	3073530	0.44640	3,827	19,955	
04	1,050	1,030	3077414	0.38840	3,401	3,336	
05	1,005	226	3080491	0.30770	2,579	580	
06	1,350	347	3084502	0.40110	4,516	1,161	
07	1,012	683	3090392	0.58900	4,971	3,355	
08	780	514	3094996	0.46040	2,995	1,974	
09	862	510	3100372	0.53760	3,865	2,287	
10	615	915	3106432	0.60600	3,108	4,624	
11	495	880	3113194	0.67620	2,792	4,963	
12	615	253	3117930	0.47360	2,429	999	
13	765	228	3122990	0.50600	3,228	962	
14	900	559	3127811	0.48210	3,619	2,248	**
15	952	88	3132046	0.42350	3,362	311	
16	765	815	3137562	0.55160	3,519	3,749	
17	915	225	3142102	0.45400	3,465	852	
18	900	144	3145394	0.32920	2,471	395	
19	952	100	3148889	0.34950	2,775	291	
20	855	233	3151453	0.25640	1,828	498	
21	1,410	102	3154571	0.31180	3,667	265	
22	1,028	1,535	3158876	0.43050	3,691	5,511	
23	908	178	3161559	0.26830	2,032	398	
24	945	162	3164394	0.28350	2,234	383	
25	1,200	315	3169263	0.48690	4,873	1,279	
26	788	277	3171945	0.26820	1,763	620	
27	930	118	3175315	0.33700	2,614	332	
28	942	257	3179037	0.37220	2,924	798	*
29	1,001	1,308	3183135	0.40980	3,421	4,470	
30	952	200	3186799	0.36640	2,909	611	
31	975	118	3190005	0.32060	2,607	316	
TOTAL				12.79890	97,889	67,999	
AVG.	936	576		0.41287	3,158	2,194	

APPROVED BY: Mike Andrews DATE: 6/8/99

* Denotes 12 day average for Suspended Solids and BOD.

** Denotes 12 day average for Suspended Solids.

File Name: Billing - May 1999.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY APRIL 1999

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			2937757			
01	998	1,580	2943293	0.55360	4,608	7,295
02	300	770	2945531	0.22380	560	1,437
03	300	1,115	2947283	0.17520	438	1,629
04	300	100	2949606	0.23230	581	194
05	555	430	2958078	0.84720	3,921	3,038
06	832	62	2962416	0.43380	3,010	224
07	915	96	2965715	0.32990	2,517	264
08	1,020	98	2969660	0.39450	3,356	322
09	735	247	2972971	0.33110	2,030	682
10	975	590	2977618	0.46470	3,779	2,287
11	840	1,780	2983577	0.59590	4,175	8,846
12	885	725	2988609	0.50320	3,714	3,043
13	780	880	2994025	0.54160	3,523	3,975
14	938	615	2997567	0.35420	2,771	1,817
15	960	280	3001161	0.35940	2,878	839
16	922	572	3005987	0.48260	3,711	2,302
17	713	730	3009502	0.35150	2,090	2,140
18	848	635	3012785	0.32830	2,322	1,739
19	1,110	200	3017447	0.46620	4,316	778
20	1,012	110	3021273	0.38260	3,229	351
21	810	430	3025934	0.46610	3,149	1,672
22	960	230	3030113	0.41790	3,346	802
23	1,050	525	3033967	0.38540	3,375	1,687
24	975	942	3037924	0.39570	3,218	3,109
25	1,140	483	3041367	0.34430	3,273	1,387
26	1,020	810	3046656	0.52890	4,499	3,573
27	945	68	3050811	0.41550	3,275	236
28	1,230	78	3054667	0.38560	3,956	251
29	1,230	76	3058720	0.40530	4,158	257
30	1,185	84	3062016	0.32960	3,257	231
TOTAL				12.42590	93,034	56,406
AVG.	883	511		0.41420	3,101	1,880

REVIEWED BY: Mike Andrews DATE: 5/18/99

APPROVED BY: Lawrence DeLong DATE: 5-19-99

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **MARCH** **1999**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			2828957				
01	900	76	2831335	0.23780	1,785	151	
02	1,290	225	2834223	0.28880	3,107	542	
03	1,080	197	2837186	0.29630	2,669	487	
04	1,230	500	2840302	0.31160	3,196	1,299	
05	1,410	415	2843592	0.32900	3,869	1,139	
06	1,095	415	2846702	0.31100	2,840	1,076	
07	1,200	400	2850224	0.35220	3,525	1,175	
08	1,020	90	2853430	0.32060	2,727	241	
09	900	100	2856760	0.33300	2,499	278	
10	990	104	2860144	0.33840	2,794	294	
11	900	157	2863372	0.32280	2,423	423	
12	1,020	123	2866217	0.28450	2,420	292	
13	1,005	134	2868740	0.25230	2,115	282	
14	1,200	3,530	2871722	0.29820	2,984	8,779	
15	1,200	160	2873940	0.22180	2,220	296	
16	1,500	245	2876836	0.28960	3,623	592	
17	1,590	1,862	2881033	0.41970	5,565	6,518	
18	832	930	2886619	0.55860	3,876	4,333	
19	1,020	1,110	2892424	0.58050	4,938	5,374	
20	1,076	86	2894175	0.17510	1,571	126	**
21	1,076	492	2896381	0.22060	1,980	905	*
22	720	1,375	2901774	0.53930	3,238	6,184	
23	952	220	2905465	0.36910	2,931	677	
24	990	810	2910913	0.54480	4,498	3,680	
25	862	320	2914303	0.33900	2,437	905	
26	1,140	173	2917333	0.30300	2,881	437	
27	1,230	855	2921463	0.41300	4,237	2,945	
28	1,020	162	2925498	0.40350	3,432	545	
29	1,110	447	2930086	0.45880	4,247	1,710	
30	1,148	220	2934155	0.40690	3,896	747	
31	990	195	2937757	0.36020	2,974	586	
TOTAL				10.88000	97,499	53,016	
AVG.	1,087	520		0.35097	3,145	1,710	

REVIEWED BY: Mike Andrews **DATE:** April 8, 1999

APPROVED BY: Lawrence DeKorp **DATE:** 4-8-99

* Denotes 12 day average for Suspended Solids and BOD.

** Denotes 12 day average for BOD.

File Name: Billing - March 1999.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY FEBRUARY 1999

DAYS 28

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			2731598			
01	938	1,010	2737833	0.62350	4,878	5,252
02	1,230	73	2741287	0.34540	3,543	210
03	990	78	2744011	0.27240	2,249	177
04	1,410	114	2747670	0.36590	4,303	348
05	1,080	207	2750591	0.29210	2,631	504
06	1,155	138	2754279	0.36880	3,553	424
07	1,440	103	2757738	0.34590	4,154	297
08	1,080	94	2761658	0.39200	3,531	307
09	1,020	158	2765333	0.36750	3,126	484
10	1,050	96	2769255	0.39220	3,434	314
11	960	297	2772919	0.36640	2,934	908
12	930	287	2777681	0.47620	3,694	1,140
13	975	87	2781345	0.36640	2,979	266
14	1,020	92	2784663	0.33180	2,823	255
15	990	156	2788382	0.37190	3,071	484
16	870	203	2791676	0.32940	2,390	558
17	1,470	115	2794987	0.33110	4,059	318
18	1,260	120	2798511	0.35240	3,703	353
19	1,230	1,575	2803501	0.49900	5,119	6,555
20	390	415	2806072	0.25710	836	890
21	330	325	2 Day Avg.	0.29375	808	796
22	780	3,000	2811947	0.29375	1,911	7,350
23	952	78	2815222	0.32750	2,600	213
24	1,035	110	2818937	0.37150	3,207	341
25	930	110	2822233	0.32960	2,556	302
26	840	132	2824265	0.20320	1,424	224
27	1,170	236	2826538	0.22730	2,218	447
28	1,350	133	2828957	0.24190	2,724	268
TOTAL				9.73590	84,457	29,984
AVG.	1,031	341		0.34771	3,016	1,071

REVIEWED BY: Mike Andrews DATE: 3/9/99

APPROVED BY: LaVerne DeFoy DATE: 3-9-99

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY JANUARY 1999

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			2632168			
01	705	100	2634114	0.19460	1,144	162
02	442	265	2638360	0.42460	1,565	938
03	728	1,400	2642102	0.37420	2,272	4,369
04	878	1,015	2645695	0.35930	2,631	3,042
05	938	93	2648168	0.24730	1,935	192
06	675	104	2651034	0.28660	1,613	249
07	1,125	202	2654410	0.33760	3,168	569
08	1,350	143	2657596	0.31860	3,587	380
09	1,185	73	2660136	0.25400	2,510	155
10	1,042	257	2663311	0.31750	2,759	681
11	990	106	2666141	0.28300	2,337	250
12	1,088	90	2669168	0.30270	2,747	227
13	1,200	142	2672233	0.30650	3,067	363
14	1,012	88	2674781	0.25480	2,151	187
15	1,260	485	2679089	0.43080	4,527	1,743
16	926	71	2681564	0.24750	1,911	147
17	682	102	2683758	0.21940	1,248	187
18	1,590	106	2686954	0.31960	4,238	283
19	1,080	207	2689773	0.28190	2,539	487
20	1,140	820	2693561	0.37880	3,601	2,591
21	1,320	132	2697045	0.34840	3,835	384
22	1,650	90	2700165	0.31200	4,293	234
23	1,410	1,066	2704680	0.45150	5,309	4,014
24	1,058	1,110	2709471	0.47910	4,227	4,435
25	938	505	2712151	0.26800	2,097	1,129
26	1,260	1,610	2716671	0.45200	4,750	6,069
27	742	1,670	2720849	0.41780	2,585	5,819
28	1,200	150	2723270	0.24210	2,423	303
29	1,200	1,570	2728206	0.49360	4,940	6,463
30	352	76	2729703	0.14970	439	95
31	300	133	2731598	0.18950	474	210
TOTAL				9.94300	86,925	46,353
AVG.	1,015	451		0.32074	2,804	1,495

REVIEWED BY: Mike Andrews DATE: 2/10/99

APPROVED BY: Lawrence DeFoy DATE: 2-10-99

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - January 1999.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY DECEMBER 1998

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			2542108				
01	195	72	2544739	0.26310	428	158	
02	1,350	82	2547359	0.26200	2,950	179	
03	1,200	74	2550094	0.27350	2,737	169	
04	900	92	2552625	0.25310	1,900	194	
05	1,020	90	2555193	0.25680	2,185	193	
06	1,590	138	2558599	0.34060	4,517	392	
07	990	587	2563729	0.51300	4,236	2,511	
08	990	132	2566780	0.30510	2,519	336	
09	885	350	2569486	0.27060	1,997	790	
10	900	650	2572957	0.34710	2,605	1,882	
11	915	98	2575255	0.22980	1,754	188	
12	938	126	2578227	0.29720	2,325	312	
13	1,080	495	2583525	0.52980	4,772	2,187	
14	1,050	110	2586173	0.26480	2,319	243	
15	1,020	66	2588985	0.28120	2,392	155	
16	1,260	78	2592956	0.39710	4,173	258	
17	990	84	2597151	0.41950	3,464	294	
18	1,080	64	2600681	0.35300	3,180	188	
19	1,088	281	2604908	0.42270	3,836	991	
20	1,005	182	2610127	0.52190	4,374	792	*
21	968	114	2614242	0.41150	3,322	391	
22	982	93	2617022	0.27800	2,277	216	
23	1,148	3,960	2624498	0.74760	7,158	24,691	
24	-	-	2-Day Avg	0.10885	-	-	**
25	-	-	2626675	0.10885	-	-	**
26	159	105	2627869	0.11940	158	105	
27	300	423	2629097	0.12280	307	433	
28	300	380	2630017	0.09200	230	292	
29	435	932	2-Day Avg	0.05000	181	389	
30	300	350	2631017	0.05000	125	146	
31	66	28	2632168	0.11510	63	27	
TOTAL				9.00600	72,483	39,100	
AVG.	810	330		0.29052	2,338	1,261	

REVIEWED BY: [signature] DATE: 1/7/99

APPROVED BY: Laurence DeLong DATE: 1-7-99

* Denotes 12 day average for Suspended Solids and BOD.

** Denotes sampler off for Holiday no sample collected.

File Name: Billing - December 1998.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY NOVEMBER 1998

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			2452362			
01	878	124	2455463	0.31010	2,271	321
02	1,020	117	2458340	0.28770	2,447	281
03	1,320	80	2461426	0.30860	3,397	206
04	1,140	84	2465263	0.38370	3,648	269
05	1,260	118	2468784	0.35210	3,700	347
06	840	110	2472183	0.33990	2,381	312
07	1,050	74	2475298	0.31150	2,728	192
08	975	106	2478481	0.31830	2,588	281
09	975	88	2481547	0.30660	2,493	225
10	1,080	98	2484514	0.29670	2,672	242
11	1,080	302	2486661	0.21470	1,934	541
12	1,380	477	2489419	0.27580	3,174	1,097
13	1,080	187	2491941	0.25220	2,272	393
14	1,110	90	2494400	0.24590	2,276	185
15	1,290	100	2497086	0.26860	2,890	224
16	1,500	78	2500209	0.31230	3,907	203
17	1,020	108	2503134	0.29250	2,488	263
18	1,050	118	2505963	0.28290	2,477	278
19	960	115	2507951	0.19880	1,592	191
20	960	170	2510267	0.23160	1,854	328
21	1,065	212	2513213	0.29460	2,617	521
22	1,140	250	2517146	0.39330	3,739	820
23	825	1,210	2523393	0.62470	4,298	6,304
24	818	293	2528277	0.48840	3,332	1,193
25	405	4,030	2532218	0.39410	1,331	13,246
26	30	108	2533218	0.10000	25	90
27	70	92	2534166	0.09480	55	73
28	300	315	2535648	0.14820	371	389
29	300	397	2537794	0.21460	537	711
30	630	370	2542108	0.43140	2,267	1,331
TOTAL				8.97460	71,763	31,058
AVG.	918	334		0.29915	2,392	1,035

REVIEWED BY: Mike Andrews DATE: 12/8/98

APPROVED BY: Lawrence DeKing DATE: 12-8-98

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - November 1998.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY OCTOBER 1998

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			2299888				
01	1,140	1,240	2306233	0.63450	6,033	6,562	
02	510	3,030	2308816	0.25830	1,099	6,527	
03	548	1,275	2311146	0.23300	1,065	2,478	
04	465	1,160	2314283	0.31370	1,217	3,035	
05	900	710	2322992	0.87090	6,537	5,157	
06	900	280	2329115	0.61230	4,596	1,430	
07	1,710	18	2333025	0.39100	5,576	59	
08	1,020	310	2337564	0.45390	3,861	1,174	
09	1,020	560	2342686	0.51220	4,357	2,392	
10	900	545	2347698	0.50120	3,762	2,278	
11	990	460	2352880	0.51820	4,279	1,988	
12	898	698	3-Day Avg	0.46253	3,464	2,693	*@
13	898	698	3-Day Avg	0.46253	3,464	2,693	*@
14	898	698	2366756	0.46253	3,464	2,693	*@
15	898	698	2372705	0.59490	4,455	3,463	*
16	705	74	2377073	0.43680	2,568	270	
17	888	81	2380691	0.36180	2,679	244	
18	1,170	153	2384837	0.41460	4,046	529	
19	1,110	150	2389067	0.42300	3,916	529	
20	960	325	2392516	0.34490	2,761	935	
21	1,050	337	2399419	0.69030	6,045	1,940	
22	870	347	2405982	0.65630	4,762	1,899	
23	780	460	2413022	0.70400	4,580	2,701	
24	712	110	2418602	0.55800	3,313	512	
25	758	180	2423885	0.52830	3,340	793	
26	832	104	2429588	0.57030	3,957	495	
27	915	158	2433229	0.36410	2,778	480	
28	818	90	2436208	0.29790	2,032	224	
29	1,050	1,450	2442705	0.64970	5,689	7,857	
30	914	232	2-day avg	0.48280	3,680	934	*@
31	914	232	2452362	0.48280	3,680	934	*@
TOTAL				15.24729	117,057	65,895	
AVG.	908	544		0.49185	3,776	2,126	

REVIEWED BY: Nigel Andrews DATE: Nov 13, 1998

APPROVED BY: Lawrence Debay DATE: 11-13-98

* Denotes 12 day average for Suspended Solids and BOD.

@ Denotes average for Flow.

File Name: Billing - October 1998.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY | SEPTEMBER | 1998

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			2173387				
01	705	187	2177468	0.40810	2,400	636	
02	1,110	315	2181871	0.44030	4,076	1,157	
03	1,080	250	2185968	0.40970	3,690	854	
04	1,080	2,050	2190342	0.43740	3,940	7,478	
05	300	1,285	2192247	0.19050	477	2,042	
06	135	156	2194566	0.23190	261	302	
07	300	82	2197669	0.31030	776	212	
08	555	147	2204138	0.64690	2,994	793	
09	616	528	2 Day AVG	0.40190	2,065	1,770	*
10	616	528	2212176	0.40190	2,065	1,770	*
11	1,290	197	2215907	0.37310	4,014	613	
12	1,185	136	2219232	0.33250	3,286	377	
13	1,110	247	2223012	0.37800	3,499	779	
14	870	144	2226812	0.38000	2,757	456	
15	1,110	565	2230170	0.33580	3,109	1,582	
16	1,530	425	2234873	0.47030	6,001	1,667	
17	1,380	1,300	2238737	0.38640	4,447	4,189	
18	1,230	1,270	2246565	0.78280	8,030	8,291	
19	870	1,700	2250304	0.37390	2,713	5,301	
20	952	485	2254834	0.45300	3,597	1,832	
21	1,035	90	2259991	0.51570	4,451	387	
22	930	83	2264546	0.45550	3,533	315	
23	938	243	2269043	0.44970	3,518	911	
24	922	267	2273597	0.45540	3,502	1,014	
25	900	126	2277502	0.39050	2,931	410	
26	1,155	490	2281518	0.40160	3,868	1,641	
27	840	227	2286221	0.47030	3,295	890	
28	795	695	2291389	0.51680	3,427	2,996	
29	1,050	445	2295823	0.44340	3,883	1,646	
30	959	464	2299888	0.40650	3,251	1,573	*
TOTAL				12.65010	99,856	53,886	
AVG.	918	504		0.42167	3,329	1,796	

REVIEWED BY: Mike Andrews DATE: 10/8/98

APPROVED BY: Lawrence DeBorg DATE: 10-9-98

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - September 1998.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY | August | 1998

DAYS | 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			2046280				
01	60	54	2048370	0.20900	105	94	
02	300	186	2050839	0.24690	618	383	
03	795	730	2058359	0.75200	4,986	4,578	
04	915	202	2064019	0.56600	4,319	954	
05	915	205	2066864	0.28450	2,171	486	
06	756	510	2070880	0.40160	2,532	1,708	*
07	990	415	2075983	0.51030	4,213	1,766	
08	918	1,090	2080984	0.50010	3,829	4,546	
09	1,005	287	2084821	0.38370	3,216	918	
10	456	960	2088953	0.41320	1,571	3,308	
11	1,080	590	2094495	0.55420	4,992	2,727	
12	712	145	2099481	0.49860	2,961	603	*
13	1,050	407	2105345	0.58640	5,135	1,990	
14	795	203	2110156	0.48110	3,190	815	
15	1,155	104	2115269	0.51130	4,925	443	
16	1,110	108	2118617	0.33480	3,099	302	
17	930	114	2122262	0.36450	2,827	347	
18	1,440	995	2127285	0.50230	6,032	4,168	
19	1,350	230	2131734	0.44490	5,009	853	
20	1,290	122	2136369	0.46350	4,987	472	
21	213	80	2139895	0.35260	626	235	
22	210	75	2144378	0.44830	785	280	
23	1,770	2,180	2151992	0.76140	11,240	13,843	
24	-	-	2155218	0.32260	-	-	**
25	-	-	2157016	0.17980	-	-	**
26	-	-	2158889	0.18730	-	-	**
27	-	-	2160547	0.16580	-	-	**
28	-	-	2162797	0.22500	-	-	**
29	-	-	2164689	0.18920	-	-	**
30	300	430	2167040	0.23510	588	843	
31	518	375	2173387	0.63470	2,742	1,985	
TOTAL				12.71070	86,699	48,649	
AVG.	678	348		0.41002	2,797	1,569	

REVIEWED BY: Mike Andrews DATE: Sept 10, 1998

APPROVED BY: Laurence Debay DATE: 9-10-98

* Denotes 12 day average for BOD.

** Denotes no samples due to plant shut-down.

File Name: Billing - August 1998.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY JULY 1998

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			1904259			
01	420	2,840	1908448	0.41890	1,467	9,922
02	300	154	1909265	0.08170	204	105
03	60	123	1910018	0.07530	38	77
04	52	118	1910617	0.05990	26	59
05	300	1,370	1912409	0.17920	448	2,048
06	578	495	1918356	0.59470	2,867	2,455
07	922	60	1923615	0.52590	4,044	263
08	832	133	1930275	0.66600	4,621	739
09	675	108	1936535	0.62600	3,524	564
10	615	127	1942774	0.62390	3,200	661
11	656	92	1948542	0.57680	3,156	443
12	810	213	1954216	0.56740	3,833	1,008
13	712	227	1958825	0.46090	2,737	873
14	758	800	1964551	0.57260	3,620	3,820
15	810	203	1968849	0.42980	2,903	728
16	810	113	1971997	0.31480	2,127	297
17	1,380	165	1976122	0.41250	4,748	568
18	1,005	322	1980688	0.45660	3,827	1,226
19	930	203	1984537	0.38490	2,985	652
20	1,110	1,090	1990650	0.61130	5,659	5,557
21	870	720	1997418	0.67680	4,911	4,064
22	930	257	2002566	0.51480	3,993	1,103
23	728	143	2007827	0.52610	3,194	627
24	998	104	2012608	0.47810	3,979	415
25	1,211	80	2017498	0.48900	4,939	326
26	1,080	227	2022712	0.52140	4,696	987
27	788	340	2028137	0.54250	3,565	1,538
28	728	134	2033516	0.53790	3,266	601
29	1,320	820	2039133	0.56170	6,184	3,841
30	525	3,620	2043850	0.47170	2,065	14,241
31	300	185	2046280	0.24300	608	375
TOTAL				14.20210	97,435	60,182
AVG.	749	503		0.45813	3,143	1,941

REVIEWED BY: Mike Andrews DATE: Aug 12, 1998

APPROVED BY: Lawrence DeBoy DATE: 8-12-98

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - July 1998.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY JUNE 1998

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			1747706				
01	720	120	1752906	0.52000	3,122	520	
02	795	820	1760244	0.73380	4,865	5,018	
03	300	5,370	1770514	1.02700	2,570	45,995	
04	585	7,560	1773714	0.32000	1,561	20,176	
05	330	4,380	1776531	0.28170	775	10,290	
06	956	801	1777368	0.08370	667	559	
07	766	1,947	AVERAGE	0.45780	2,925	7,434	*@
08	766	1,947	1786524	0.45780	2,925	7,434	*@
09	810	147	1791536	0.50120	3,386	614	
10	930	215	1795790	0.42540	3,299	763	
11	1,200	149	1799716	0.39260	3,929	488	
12	1,530	110	1804114	0.43980	5,612	403	
13	1,080	152	1808853	0.47390	4,269	601	
14	1,050	1,400	1814814	0.59610	5,220	6,960	
15	465	1,220	1820656	0.58420	2,266	5,944	
16	645	288	1826738	0.60820	3,272	1,461	
17	705	148	1832541	0.58030	3,412	716	
18	855	150	1838020	0.54790	3,907	685	
19	742	148	1844254	0.62340	3,858	769	
20	768	140	1850406	0.61520	3,940	718	
21	728	153	1856875	0.64690	3,928	825	
22	630	120	1861994	0.51190	2,690	512	
23	968	130	1867134	0.51400	4,150	557	
24	922	110	1871627	0.44930	3,455	412	
25	668	770	1878911	0.72840	4,058	4,678	
26	780	131	1883589	0.46780	3,043	511	
27	892	137	1888126	0.45370	3,375	518	
28	1,020	173	1892620	0.44940	3,823	648	
29	840	173	1898077	0.54570	3,823	787	
30	998	2,100	1904259	0.61820	5,145	10,827	
TOTAL				15.65530	103,269	137,828	
AVG.	815	1,040		0.52184	3,442	4,594	

REVIEWED BY: Wilson Anderson DATE: 7/9/98

APPROVED BY: Lawrence L. DeJong DATE: 7-9-98

* Denotes 12 day average for Suspended Solids and BOD.

@ Denotes 2 day average for Flow.

File Name: Billing - June 1998.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY MAY 1998

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			1590839			
01	450	90	1594829	0.39900	1,497	299
02	915	180	1598952	0.41230	3,146	619
03	1,170	80	1602535	0.35830	3,496	239
04	1,110	753	1608670	0.61350	5,679	3,853
05	675	3,250	1616620	0.79500	4,475	21,548
06	765	187	1620648	0.40280	2,570	628
07	960	735	1625296	0.46480	3,721	2,849
08	1,080	78	1629025	0.37290	3,359	243
09	1,125	1,430	1634341	0.53160	4,988	6,340
10	892	720	1640278	0.59370	4,417	3,565
11	818	88	1644561	0.42830	2,922	314
12	1,110	530	1651980	0.74190	6,868	3,279
13	510	385	1657739	0.57590	2,450	1,849
14	960	80	1662844	0.51050	4,087	341
15	960	110	1667450	0.46060	3,688	423
16	978	76	1673127	0.56770	4,630	360
17	848	173	1677832	0.47050	3,328	679
18	1,012	325	1682997	0.51650	4,359	1,400
19	1,170	405	1688302	0.53050	5,177	1,792
20	1,290	127	1692896	0.45940	4,943	487
21	1,020	210	1697438	0.45420	3,864	795
22	892	108	1702011	0.45730	3,402	412
23	975	266	1706575	0.45640	3,711	1,012
24	1,042	220	1710696	0.41210	3,581	756
25	1,770	144	1714744	0.40480	5,976	486
26	1,290	177	1719067	0.43230	4,651	638
27	1,290	850	1725149	0.60820	6,543	4,312
28	720	325	1729914	0.47650	2,861	1,292
29	862	6,170	1735008	0.50940	3,662	26,213
30	690	438	1741427	0.64190	3,694	2,345
31	712	136	1747706	0.62790	3,729	712
TOTAL				15.68670	125,474	90,080
AVG.	970	608		0.50602	4,048	2,906

REVIEWED BY: Mike Andrews DATE: June 8, 1998

APPROVED BY: LaVonne L. DeBerg DATE: June 8, 1998

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - May 1998.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY APRIL 1998

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			1457334				
01	960	100	1461143	0.38090	3,050	318	
02	900	377	1464704	0.35610	2,673	1,120	
03	780	260	1469457	0.47530	3,092	1,031	
04	738	189	1474894	0.54370	3,346	857	
05	765	105	1479013	0.41190	2,628	361	
06	795	163	1483832	0.48190	3,195	655	
07	832	625	1488750	0.49180	3,413	2,564	
08	712	65	1493931	0.51810	3,077	281	
09	848	2,200	1502562	0.86310	6,104	15,836	
10	764	444	2 Day Avg	0.17890	1,140	662	*#
11	764	444	1506140	0.17890	1,140	662	*#
12	300	303	1507787	0.16470	412	416	
13	525	1,325	1513827	0.60400	2,645	6,675	
14	795	76	1517445	0.36180	2,399	229	
15	990	1,000	1524397	0.69520	5,740	5,798	
16	788	140	1529321	0.49240	3,236	575	
17	975	106	1533027	0.37060	3,014	328	
18	979	516	1536786	0.37590	3,069	1,618	
19	1,320	90	1540659	0.38730	4,264	291	
20	1,380	153	1544267	0.36080	4,153	460	
21	930	850	1549303	0.50360	3,906	3,570	
22	1,080	136	1554765	0.54620	4,920	620	
23	1,080	96	1558682	0.39170	3,528	314	
24	1,072	190	1563307	0.46250	4,135	733	
25	1,230	73	1567246	0.39390	4,041	240	
26	1,170	197	1571457	0.42110	4,109	692	
27	1,020	255	1575298	0.38410	3,267	817	
28	1,020	164	1580302	0.50040	4,257	684	
29	1,020	830	1586609	0.63070	5,365	4,366	
30	968	205	1590839	0.42300	3,415	723	
TOTAL				13.35050	102,730	53,494	
AVG.	917	389		0.44502	3,424	1,783	

REVIEWED BY: Mike Andrews DATE: May 8, 1998

APPROVED BY: Laurence L. DeLong DATE: May 8, 1998

* Denotes 12 day average for Suspended Solids and BOD.

# Denotes 2 - day average for flow.

File Name: Billing - April 1998.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY MARCH 1998

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			1305573			
01	1,350	127	1310427	0.48540	5,465	514
02	1,050	68	1315423	0.49960	4,375	283
03	1,110	64	1319989	0.45660	4,227	244
04	1,080	295	1325081	0.50920	4,586	1,253
05	1,050	117	1329635	0.45540	3,988	444
06	1,230	145	1333499	0.38640	3,964	467
07	1,185	51	1339166	0.56670	5,601	241
08	1,230	180	1345467	0.63010	6,464	946
09	1,350	605	1353862	0.83950	9,452	4,236
10	390	1,400	1360972	0.71100	2,313	8,302
11	300	1,320	1366256	0.52840	1,322	5,817
12	300	1,090	1370192	0.39360	985	3,578
13	712	2,570	1379134	0.89420	5,310	19,166
14	930	112	1383493	0.43590	3,381	407
15	1,050	235	1388823	0.53300	4,667	1,045
16	1,140	235	1393834	0.50110	4,764	982
17	1,290	560	1397659	0.38250	4,115	1,786
18	630	430	1401147	0.34880	1,833	1,251
19	1,290	445	1405719	0.45720	4,919	1,697
20	1,320	110	1410125	0.44060	4,850	404
21	1,110	546	1415191	0.50660	4,690	2,307
22	1,500	113	1418175	0.29840	3,733	281
23	1,410	820	1422040	0.38650	4,545	2,643
24	1,380	855	1427027	0.49870	5,740	3,556
25	1,350	1,015	1433857	0.68300	7,690	5,782
26	765	2,660	1439748	0.58910	3,759	13,069
27	315	1,990	1442594	0.28460	748	4,723
28	300	140	1444042	0.14480	362	169
29	300	293	1445883	0.18410	461	450
30	450	1,613	1453114	0.72310	2,714	9,727
31	818	720	1457334	0.42200	2,879	2,534
TOTAL				15.17610	123,900	98,305
AVG.	958	675		0.48955	3,997	3,171

REVIEWED BY: [signature] DATE: 4/9/98

APPROVED BY: Lawrence F. Debry DATE: 4-9-98

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - March 1998.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY FEBRUARY 1998

DAYS 28

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			1161848				
01	300	290	1165112	0.32640	817	789	
02	525	3,920	1174265	0.91530	4,008	29,924	
03	330	970	1181952	0.76870	2,116	6,219	
04	1,080	250	1186039	0.40870	3,681	852	
05	1,230	230	1191049	0.50100	5,139	961	
06	1,590	225	1195192	0.41430	5,494	777	
07	1,605	65	1199265	0.40730	5,452	221	
08	1,560	187	1204731	0.54660	7,111	852	
09	1,110	148	1209350	0.46190	4,276	570	
10	960	193	1215215	0.58650	4,696	944	
11	1,020	85	1220032	0.48170	4,098	341	
12	1,020	913	1226218	0.61860	5,262	4,710	
13	1,080	180	1230398	0.41800	3,765	628	
14	1,335	184	1235171	0.47730	5,314	732	
15	1,170	342	1239709	0.45380	4,428	1,294	
16	1,065	275	1244584	0.48750	4,330	1,118	
17	1,590	112	1249059	0.44750	5,934	418	
18	1,410	135	1254389	0.53300	6,268	600	
19	930	1,270	1262413	0.80240	6,224	8,499	
20	315	2,640	1267066	0.46530	1,222	10,245	
21	1,110	375	1270443	0.33770	3,126	1,056	*
22	1,110	375	1273646	0.32030	2,965	1,002	*
23	540	537	1280683	0.70370	3,169	3,152	
24	930	123	1284615	0.39320	3,050	403	
25	1,350	220	1289502	0.48870	5,502	897	
26	1,230	203	1295261	0.57590	5,908	975	
27	1,020	95	1300584	0.53230	4,528	422	
28	1,155	79	1305573	0.49890	4,806	329	
TOTAL				14.37250	122,689	78,931	
AVG.	1,060	522		0.51330	4,382	2,819	

REVIEWED BY: Mike Andrews DATE: March 9, 1998

APPROVED BY: Lawrence L. DeKay DATE: 3-9-98

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - February 1998.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY JANUARY 1998

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			995954			
01	885	465	1000339	0.43850	3,237	1,701
02	1,088	265	1004207	0.38680	3,510	855
03	1,215	414	1009582	0.53750	5,447	1,856
04	1,012	535	1015296	0.57140	4,823	2,550
05	1,065	660	1021568	0.62720	5,571	3,452
06	1,035	420	1026557	0.49890	4,306	1,748
07	1,260	580	1032955	0.63980	6,723	3,095
08	1,140	480	1038289	0.53340	5,071	2,135
09	960	535	1043433	0.51440	4,118	2,295
10	1,230	97	1047978	0.45450	4,662	368
11	1,290	123	1052596	0.46180	4,968	474
12	1,050	405	1058330	0.57340	5,021	1,937
13	840	215	1063891	0.55610	3,896	997
14	1,380	200	1069138	0.52470	6,039	875
15	990	263	1074521	0.53830	4,445	1,181
16	990	260	1080109	0.55880	4,614	1,212
17	836	450	1086027	0.59180	4,126	2,221
18	1,020	293	1091129	0.51020	4,340	1,247
19	1,012	720	1097781	0.66520	5,614	3,994
20	922	1,150	1104921	0.71400	5,490	6,848
21	930	120	1109314	0.43930	3,407	440
22	960	210	1113951	0.46370	3,713	812
23	1,020	435	1118746	0.47950	4,079	1,740
24	1,080	155	1122944	0.41980	3,781	543
25	1,042	1,440	1129249	0.63050	5,479	7,572
26	780	480	1134456	0.52070	3,387	2,084
27	960	132	1138500	0.40440	3,238	445
28	1,290	1,200	1143590	0.50900	5,476	5,094
29	1,410	2,760	1152033	0.84430	9,928	19,434
30	300	2,630	1156896	0.48630	1,217	10,667
31	35	49	1161848	0.49520	145	202
TOTAL				16.58940	139,872	90,072
AVG.	1,001	585		0.53514	4,512	2,906

REVIEWED BY: Mike Andrews DATE: 2/18/98

APPROVED BY: Larry DeLong DATE: 2-18-98

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - January 1998.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY DECEMBER 1997

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			818529				
01	930	1,790	826593	0.80640	6,255	12,038	
02	742	1,720	834707	0.81140	5,021	11,639	
03	600	1,520	842887	0.81800	4,093	10,370	
04	548	895	850651	0.77640	3,548	5,795	
05	638	835	856391	0.57400	3,054	3,997	
06	904	95	861240	0.48490	3,656	384	
07	1,110	555	866826	0.55860	5,171	2,586	
08	960	1,875	872630	0.58040	4,647	9,076	
09	1,080	365	878692	0.60620	5,460	1,845	
10	930	490	884596	0.59040	4,579	2,413	
11	878	3,730	893217	0.86210	6,313	26,818	
12	788	585	899323	0.61060	4,013	2,979	
13	776	226	903815	0.44920	2,907	847	
14	990	390	908214	0.43990	3,632	1,431	
15	1,080	440	912737	0.45230	4,074	1,660	
16	818	395	917935	0.51980	3,546	1,712	
17	1,020	335	922947	0.50120	4,264	1,400	
18	1,110	84	926595	0.36480	3,377	256	
19	1,260	75	931026	0.44310	4,656	277	
20	1,035	86	936138	0.51120	4,413	367	
21	1,170	104	941051	0.49130	4,794	426	
22	1,500	625	950030	0.89790	11,233	4,680	
23	300	1,380	955066	0.50360	1,260	5,796	
24	1,005	327	Average	0.30535	2,559	833	*#
25	70	134	961173	0.30535	178	341	*
26	360	445	967263	0.60900	1,828	2,260	
27	982	605	972222	0.49590	4,061	2,502	
28	1,440	427	978081	0.58590	7,036	2,086	
29	915	260	983615	0.55340	4,223	1,200	
30	885	433	989724	0.61090	4,509	2,206	
31	795	700	995954	0.62300	4,131	3,637	
TOTAL				17.74250	132,493	123,859	
AVG.	891	707		0.57234	4,274	3,995	

REVIEWED BY: Mike Andrews DATE: 1/7/98

APPROVED BY: Lawrence L. DeBoy DATE: 1-7-98

* Denotes 2 day average for Flow.

# Denotes 12 day average for BOD and Suspended Solids.

File Name: Billing - December 1997.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY NOVEMBER 1997

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			665621				
01	1,005	1,190	670046	0.44250	3,709	4,392	
02	1,020	222	673621	0.35750	3,041	662	
03	1,350	1,400	677340	0.37190	4,187	4,342	
04	1,470	730	681244	0.39040	4,786	2,377	
05	1,500	3,150	687633	0.63890	7,993	16,785	
06	1,230	1,620	692733	0.51000	5,232	6,891	
07	1,170	1,440	697701	0.49680	4,848	5,966	
08	1,065	112	701039	0.33380	2,965	312	
09	1,260	360	705422	0.43830	4,606	1,316	
10	1,320	125	709233	0.38110	4,195	397	
11	1,380	960	714404	0.51710	5,951	4,140	
12	705	1,390	720015	0.56110	3,299	6,505	
13	1,230	260	724192	0.41770	4,285	906	
14	945	1,190	734460	1.02680	8,093	10,191	
15	784	520	738883	0.44230	2,892	1,918	
16	960	805	745329	0.64460	5,161	4,328	
17	968	142	750959	0.56300	4,545	667	
18	982	440	759171	0.82120	6,726	3,013	
19	922	240	763690	0.45190	3,475	905	
20	1,044	504	770497	0.68070	5,927	2,861	*
21	960	260	774655	0.41580	3,329	902	
22	1,335	418	778677	0.40220	4,478	1,402	
23	1,110	465	784154	0.54770	5,070	2,124	
24	1,080	156	788315	0.41610	3,748	541	
25	870	485	793870	0.55550	4,031	2,247	
26	870	154	797611	0.37410	2,714	480	
27	1,020	307	801946	0.43350	3,688	1,110	
28	1,140	290	806424	0.44780	4,258	1,083	
29	1,260	638	812148	0.57240	6,015	3,046	
30	990	1,065	818529	0.63810	5,269	5,668	
TOTAL				15.29080	138,514	97,475	
AVG.	1,098	701		0.50969	4,617	3,249	

REVIEWED BY: Mike Andrews DATE: Dec 10, 1997

APPROVED BY: LaVonne L. Dilley DATE: 12-11-97

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY OCTOBER 1997

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			511384				
01	862	425	517097	0.57130	4,107	2,025	
02	931	490	521795	0.46980	3,648	1,920	**
03	1,140	225	526895	0.51000	4,849	957	
04	1,151	308	531704	0.48090	4,616	1,235	
05	1,350	355	536781	0.50770	5,716	1,503	
06	1,230	670	541557	0.47760	4,899	2,669	
07	1,320	450	545790	0.42330	4,660	1,589	
08	990	400	551229	0.54390	4,491	1,814	
09	1,140	183	555422	0.41930	3,987	640	
10	1,080	128	560087	0.46650	4,202	498	
11	1,050	242	564973	0.48860	4,279	986	
12	1,170	213	569103	0.41300	4,030	734	
13	1,350	210	573209	0.41060	4,623	719	
14	1,080	275	577160	0.39510	3,559	906	
15	930	390	581850	0.46900	3,638	1,525	
16	1,320	900	585963	0.41130	4,528	3,087	
17	930	235	590582	0.46190	3,583	905	
18	908	130	595109	0.45270	3,428	491	
19	1,170	1,230	602652	0.75430	7,360	7,738	
20	705	735	609018	0.63660	3,743	3,902	
21	742	480	615965	0.69470	4,299	2,781	
22	990	2,040	626548	1.05830	8,738	18,005	
23	420	2,520	628945	0.23970	840	5,038	
24	630	740	631168	0.22230	1,168	1,372	
25	836	910	637436	0.62680	4,370	4,757	
26	1,050	287	641739	0.43030	3,768	1,030	
27	1,230	283	645909	0.41700	4,278	984	
28	1,410	370	649743	0.38340	4,509	1,183	
29	1,740	130	653611	0.38680	5,613	419	
30	1,470	1,130	658740	0.51290	6,288	4,834	
31	1,020	1,250	665621	0.68810	5,854	7,173	
TOTAL				15.42370	137,669	83,421	
AVG.	1,076	591		0.49754	4,441	2,691	

REVIEWED BY: Mike Andrews DATE: Nov 7, 1997

APPROVED BY: Lawrence L. DeFoy DATE: Nov. 7, 1997

* Denotes 12 day average for Suspended Solids and BOD.

** Denotes 12 day average for BOD.

File Name: Billing - October 1997.xls

CONTRACT CUSTOMER BILLING DATA

ROCK - TENN COMPANY **SEPTEMBER** **1997**

 # DAYS **30**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			327496				
01	810	620	335805	0.83090	5,613	4,296	
02	788	105	341075	0.52700	3,463	461	
03	1,028	360	346505	0.54300	4,655	1,630	
04	1,140	270	Average	0.55915	5,316	1,259	**
05	1,080	960	357688	0.55915	5,036	4,477	**
06	1,031	152	361769	0.40810	3,509	517	
07	1,200	340	365922	0.41530	4,156	1,178	
08	1,200	1,460	371949	0.60270	6,032	7,339	
09	758	780	377484	0.55350	3,499	3,601	
10	915	770	383475	0.59910	4,572	3,847	
11	975	156	388133	0.46580	3,788	606	
12	1,042	525	393427	0.52940	4,601	2,318	
13	990	315	398696	0.52690	4,350	1,384	
14	968	935	406226	0.75300	6,079	5,872	
15	638	160	411128	0.49020	2,608	654	
16	1,950	1,510	420782	0.96540	15,700	12,158	
17	525	2,900	428809	0.80270	3,515	19,414	
18	855	497	435365	0.65560	4,675	2,717	
19	780	1,320	444069	0.87040	5,662	9,582	
20	806	1,925	453796	0.97270	6,539	15,616	
21	728	875	462998	0.92020	5,587	6,715	
22	930	148	468134	0.51360	3,984	634	
23	1,050	620	474499	0.63650	5,574	3,291	
24	840	1,290	480357	0.58580	4,104	6,302	
25	1,080	343	485005	0.46480	4,187	1,330	
26	870	1,020	491453	0.64480	4,679	5,485	
27	972	720	496037	0.45840	3,716	2,753	
28	1,065	600	500503	0.44660	3,967	2,235	
29	892	1,245	506046	0.55430	4,124	5,755	
30	1,020	460	511384	0.53380	4,541	2,048	
TOTAL				18.38880	147,830	135,476	
AVG.	964	779		0.61296	4,928	4,516	

REVIEWED BY: Mitzi Andrews **DATE:** Oct 7, 1997

APPROVED BY: L. DeKay **DATE:** Oct. 7, 1997

* Denotes 12 day average for Suspended Solids and BOD.

** Denotes a 2 day average for Flow.

File Name: Billing - September 1997.xls

CONTRACT CUSTOMER BILLING DATA

ROCK-TENN COMPANY AUGUST 1997

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			143390			
01	1,200	105	147732	0.43420	4,345	380
02	990	102	152305	0.45730	3,776	389
03	1,005	1,550	158390	0.60850	5,100	7,866
04	1,290	257	164530	0.61400	6,606	1,316
05	1,170	112	171548	0.70180	6,848	656
06	862	123	177385	0.58370	4,196	599
07	600	168	182002	0.46170	2,310	647
08	870	755	188683	0.66810	4,848	4,207
09	799	235	193242	0.45590	3,038	894
10	1,050	385	198344	0.51020	4,468	1,638
11	885	1,240	206528	0.81840	6,041	8,464
12	555	450	212725	0.61970	2,868	2,326
13	600	315	220799	0.80740	4,040	2,121
14	780	348	226453	0.56540	3,678	1,641
15	705	590	232207	0.57540	3,383	2,831
16	903	140	236889	0.46820	3,526	547
17	930	293	242306	0.54170	4,202	1,324
18	832	265	247977	0.56710	3,935	1,253
19	782	355	255037	0.70600	4,604	2,090
20	675	105	260947	0.59100	3,327	518
21	862	107	265838	0.48910	3,516	436
22	960	285	271716	0.58780	4,706	1,397
23	1,042	124	276692	0.49760	4,324	515
24	840	395	282680	0.59880	4,195	1,973
25	892	1,140	288561	0.58810	4,375	5,591
26	615	735	295848	0.72870	3,738	4,467
27	990	105	301060	0.52120	4,303	456
28	675	1,000	308529	0.74690	4,205	6,229
29	705	195	314662	0.61330	3,606	997
30	694	368	321479	0.68170	3,946	2,092
31	735	460	327496	0.60170	3,688	2,308
TOTAL				18.41060	129,742	68,168
AVG.	855	413		0.59389	4,185	2,199

REVIEWED BY: Mike Andrews DATE: Sept 8, 1997

APPROVED BY: Michael R. Wing DATE: 9-8-97

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - August 1997.xls

CONTRACT CUSTOMER BILLING DATA

WALDORF JULY 1997

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			26546403				
01	982	282	26553148	0.67450	5,524	1,586	
02	1,110	184	26559506	0.63580	5,886	976	
03	615	198	26566356	0.68500	3,513	1,131	
04	915	320	26571996	0.56400	4,304	1,505	
05	712	236	26578936	0.69400	4,121	1,366	
06	1,012	347	26585104	0.61680	5,206	1,785	
07	1,080	377	26590912	0.58080	5,231	1,826	
08	1,290	168	26596543	0.56310	6,058	789	
09	1,260	430	26602713	0.61700	6,484	2,213	
10	1,200	110	3153	0.62412	6,246	573	**
11	1,320	175	8178	0.50250	5,532	733	
12	1,395	86	13502	0.53240	6,194	382	
13	1,080	287	19802	0.63000	5,675	1,508	
14	855	430	27848	0.80460	5,737	2,885	
15	435	505	37600	0.97520	3,538	4,107	
16	690	200	45025	0.74250	4,273	1,238	
17	878	136	50423	0.53980	3,953	612	
18	945	547	56477	0.60540	4,771	2,762	
19	810	1,322	63622	0.71450	4,827	7,878	
20	855	128	67770	0.41480	2,958	443	
21	1,050	1,050	74069	0.62990	5,516	5,516	
22	630	860	85762	1.16930	6,144	8,387	
23	570	115	93828	0.80660	3,834	774	
24	818	74	101834	0.80060	5,462	494	
25	855	457	107471	0.56370	4,020	2,148	
26	442	1,680	113074	0.56030	2,065	7,850	
27	915	1,230	119491	0.64170	4,897	6,583	
28	600	1,240	127605	0.81140	4,060	8,391	
29	788	314	133348	0.57430	3,774	1,504	
30	1,020	450	138110	0.47620	4,051	1,787	
31	788	423	143390	0.52800	3,470	1,863	
TOTAL				20.27882	147,324	81,596	
AVG.	900	463		0.65416	4,752	2,632	

REVIEWED BY: Mike Andrews DATE: Aug 11, 1997

APPROVED BY: Walter K Thompson DATE: 8-11-97

* Denotes 12 day average for Suspended Solids and BOD.

**Denotes 12 day Flow average due to new meter installation.

File Name: Billing - July 1997.xls

CONTRACT CUSTOMER BILLING DATA

WALDORF | JUNE | 1997

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			26345039			
01	750	120	26350655	0.56160	3,513	562
02	870	135	26356788	0.61330	4,450	691
03	810	355	26363361	0.65730	4,440	1,946
04	1,050	2,580	26373585	1.02240	8,953	21,999
05	370	1,550	26380054	0.64690	1,996	8,362
06	720	565	26386490	0.64360	3,865	3,033
07	915	375	26393370	0.68800	5,250	2,152
08	990	92	26398877	0.55070	4,547	423
09	1,290	84	26403386	0.45090	4,851	316
10	1,350	106	26410206	0.68200	7,679	603
11	1,070	155	26417250	0.70440	6,286	911
12	1,125	110	26424159	0.69090	6,482	634
13	930	245	26431083	0.69240	5,370	1,415
14	615	342	26439970	0.88870	4,558	2,535
15	630	895	26449677	0.97070	5,100	7,246
16	600	635	26458350	0.86730	4,340	4,593
17	780	106	26463418	0.50680	3,297	448
18	780	935	26471875	0.84570	5,501	6,595
19	960	183	26477697	0.58220	4,661	889
20	900	1,190	26484712	0.70150	5,265	6,962
21	825	187	26490177	0.54650	3,760	852
22	1,120	137	26494559	0.43820	4,093	501
23	1,095	113	26499307	0.47480	4,336	447
24	1,750	208	26505829	0.65220	9,519	1,131
25	1,080	1,080	26513597	0.77680	6,997	6,997
26	405	1,135	26522048	0.84510	2,854	8,000
27	675	403	26527730	0.56820	3,199	1,910
28	825	99	26533777	0.60470	4,161	499
29	825	112	26539960	0.61830	4,254	578
30	930	135	26546403	0.64430	4,997	725
TOTAL				20.13640	148,577	93,952
AVG.	901	479		0.67121	4,953	3,132

REVIEWED BY: Mike Andrews DATE: July 8, 1997

APPROVED BY: Walter L Thompson DATE: July 8, 1997

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - June 1997.xls

CONTRACT CUSTOMER BILLING DATA

WALDORF | MAY | 1997

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			26183105				
01	990	430	26188037	0.49320	4,072	1,769	
02	720	480	26192669	0.46320	2,781	1,854	
03	645	149	26197948	0.52790	2,840	656	
04	870	93	26202701	0.47530	3,449	369	
05	1200	980	26209493	0.67920	6,797	5,551	
06	590	953	26214851	0.53580	2,636	4,259	
07	780	90	26220314	0.54630	3,554	410	
08	1080	127	26225570	0.52560	4,734	557	
09	720	290	26231056	0.54860	3,294	1,327	
10	645	101	26235221	0.41650	2,240	351	
11	720	415	26240467	0.52460	3,150	1,816	
12	750	525	26245409	0.49420	3,091	2,164	
13	960	407	26250605	0.51960	4,160	1,764	
14	990	140	26255491	0.48860	4,034	570	
15	1260	157	26260355	0.48640	5,111	637	
16	1020	135	26265391	0.50360	4,284	567	
17	1020	735	26270969	0.55780	4,745	3,419	
18	780	460	26277486	0.65170	4,239	2,500	
19	810	810	26282841	0.53550	3,618	3,618	
20	1020	373	26287473	0.46320	3,940	1,441	
21	1050	115	26292132	0.46590	4,080	447	
22	1110	200	26297328	0.51960	4,810	867	
23	1200	218	26301968	0.46400	4,644	844	
24	1350	196	26306662	0.46940	5,285	767	
25	1020	192	26311643	0.49810	4,237	798	
26	1050	281	26316932	0.52890	4,632	1,239	*
27	1050	281	26321718	0.47860	4,191	1,122	*
28	1170	790	26327766	0.60480	5,902	3,985	
29	720	513	26333071	0.53050	3,186	2,270	
30	810	375	26339408	0.63370	4,281	1,982	
31	735	220	26345039	0.56310	3,452	1,033	
TOTAL				16.19340	125,470	50,950	
AVG.	930	362		0.52237	4,047	1,644	

REVIEWED BY: Mike Anderson DATE: June 9, 1997

APPROVED BY: Walter L. Thompson DATE: June 10, 1997

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF | April | 1997

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			26050942				
01	1,710	126	26055280	0.43380	6,187	456	
02	1,069	843	26059009	0.37290	3,325	2,622	*
03	990	455	26063394	0.43850	3,621	1,664	
04	1,380	1,320	26070814	0.74200	8,540	8,169	
05	1,500	288	26075596	0.47820	5,982	1,149	
06	1,440	930	26082882	0.72860	8,750	5,651	
07	1,200	855	AVG	0.53849	5,389	3,840	**
08	1,110	138	26096604	0.53849	4,985	620	**
09	990	117	26103792	0.71880	5,935	701	
10	1,230	225	26108789	0.49970	5,126	938	
11	1,020	395	26114440	0.56510	4,807	1,862	
12	1,155	119	26120003	0.55630	5,359	552	
13	1,110	635	26125932	0.59290	5,489	3,140	
14	780	1,015	26133399	0.74670	4,857	6,321	
15	780	840	26139748	0.63490	4,130	4,448	
16	720	165	26145041	0.52930	3,178	728	
17	870	98	AVG	0.60458	4,387	494	**
18	900	440	AVG	0.60458	4,538	2,219	**
19	1,215	518	AVG	0.60458	6,126	2,612	**
20	870	243	AVG	0.60458	4,387	1,225	**
21	960	178	AVG	0.60458	4,841	898	**
22	810	134	AVG	0.60458	4,084	676	**
23	900	210	AVG	0.60458	4,538	1,059	**
24	1,110	1,530	26148899	0.60458	5,597	7,715	**
25	1,050	1,155	26156065	0.71660	6,275	6,903	
26	675	170	26160727	0.46620	2,624	661	
27	840	570	26166356	0.56290	3,943	2,676	
28	960	69	26171487	0.51310	4,108	295	
29	630	270	26177793	0.63060	3,313	1,420	
30	810	140	26183105	0.53120	3,588	620	
TOTAL				17.37192	148,010	72,331	
AVG.	1,026	473		0.57906	4,934	2,411	

REVIEWED BY: Wm Anderson DATE: May 7, 1997

APPROVED BY: Walter K Thompson DATE: May 8, 1997

* Denotes 12 day average for Suspended Solids and BOD.

** Denotes 12 day average for Flow.

File Name: Billing - April 1997.xls

CONTRACT CUSTOMER BILLING DATA

WALDORF | MARCH | 1997

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			25860640			
01	1,620	115	25865495	0.48550	6,559	466
02	1,620	104	25870798	0.53030	7,165	460
03	1,200	155	25876704	0.59060	5,911	763
04	1,740	640	25881480	0.47760	6,931	2,549
05	1,410	760	25887564	0.60840	7,154	3,856
06	1,290	500	25893830	0.62660	6,741	2,613
07	960	2,170	25902100	0.82700	6,621	14,967
08	705	2,270	25908870	0.67700	3,981	12,817
09	930	930	25913101	0.42310	3,282	3,282
10	1,110	600	25918204	0.51030	4,724	2,554
11	1,710	570	25923055	0.48510	6,918	2,306
12	1,290	965	25930117	0.70620	7,598	5,684
13	1,890	162	25935042	0.49250	7,763	665
14	1,530	1,000	25940789	0.57470	7,333	4,793
15	1,185	650	25946858	0.60690	5,998	3,290
16	1,860	2,920	25958841	1.19830	18,589	29,182
17	290	1,130	25963820	0.49790	1,204	4,692
18	220	1,205	25975171	1.13510	2,083	11,407
19	200	1,140	25983258	0.80870	1,349	7,689
20	200	283	25986865	0.36070	602	851
21	260	1,295	25991707	0.48420	1,050	5,230
22	720	3,710	26000219	0.85120	5,111	26,337
23	770	595	26007270	0.70510	4,528	3,499
24	1,140	1,240	26013158	0.58880	5,598	6,089
25	1,320	158	26018453	0.52950	5,829	698
26	1,260	510	26025110	0.66570	6,995	2,831
27	1,290	825	26031074	0.59640	6,416	4,104
28	1,170	975	26037144	0.60700	5,923	4,936
29	1,770	1,770	26042904	0.57600	8,503	8,503
30	1,320	130	26047782	0.48780	5,370	529
31	1,440	935	26050942	0.31600	3,795	2,464
TOTAL				19.03020	177,624	180,106
AVG.	1,143	981		0.61388	5,730	5,810

REVIEWED BY: Mike Andrews DATE: April 8, 1997

APPROVED BY: Walter L. Thompson DATE: April 8, 1997

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF | FEBRUARY | 1997

DAYS 28

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			25637060			
01	675	264	25645469	0.84090	4,734	1,851
02	780	390	25652610	0.71410	4,645	2,323
03	870	270	25660864	0.82540	5,989	1,859
04	680	990	25669928	0.90640	5,140	7,484
05	630	450	25677424	0.74960	3,939	2,813
06	660	610	25684909	0.74850	4,120	3,808
07	665	396	25694212	0.93030	5,160	3,072
08	645	438	25702572	0.83600	4,497	3,054
09	810	430	25711226	0.86540	5,846	3,103
10	870	490	25718894	0.76680	5,564	3,134
11	900	2,300	25730851	1.19570	8,975	22,936
12	590	4,210	25737647	0.67960	3,344	23,862
13	630	480	25744626	0.69790	3,667	2,794
14	660	350	25752723	0.80970	4,457	2,364
15	660	285	25761088	0.83650	4,604	1,988
16	690	345	25767499	0.64110	3,689	1,845
17	780	575	25774651	0.71520	4,653	3,430
18	900	345	25782345	0.76940	5,775	2,214
19	900	410	25789036	0.66910	5,022	2,288
20	840	263	25797136	0.81000	5,675	1,777
21	630	285	25804771	0.76350	4,012	1,815
22	1,110	218	25813059	0.82880	7,673	1,507
23	1,020	330	25822427	0.93680	7,969	2,578
24	780	300	25831454	0.90270	5,872	2,259
25	900	965	25842138	1.06840	8,019	8,599
26	500	610	25849820	0.76820	3,203	3,908
27	370	625	25855788	0.59680	1,842	3,111
28	690	135	25860640	0.48520	2,792	546
TOTAL				22.35800	140,877	122,319
AVG.	744	634		0.79850	5,031	4,369

REVIEWED BY: Mike Andrews DATE: March 7, 1997

APPROVED BY: Walter L Thompson DATE: March 7, 1997

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing February 1997.xls

CONTRACT CUSTOMER BILLING DATA

WALDORF | JANUARY | 1997
DAYS | 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			25322888				
01	600	260	25332380	0.94920	4,750	2,058	
02	600	293	25342024	0.96440	4,826	2,357	
03	500	340	25352322	1.02980	4,294	2,920	
04	825	222	25361363	0.90410	6,221	1,674	
05	600	310	25370222	0.88590	4,433	2,290	
06	740	940	25381865	1.16430	7,186	9,128	
07	660	220	25391504	0.96390	5,306	1,769	
08	655	217	25400002	0.84980	4,642	1,538	
09	685	530	25408325	0.83230	4,755	3,679	
10	660	755	25421520	1.31950	7,263	8,308	
11	672	273	25434617	1.30970	7,340	2,982	
12	680	273	25443563	0.89460	5,073	2,037	
13	655	340	25452902	0.93390	5,102	2,648	
14	720	835	25464509	1.16070	6,970	8,083	
15	673	410	25479206	1.46970	8,249	5,025	*
16	200	3,035	25498123	1.89170	3,155	47,883	
17	200	1,150	25511914	1.37910	2,300	13,227	
18	365	1,362	25523681	1.17670	3,582	13,366	
19	550	1,420	25535120	1.14390	5,247	13,547	
20	620	800	25543648	0.85280	4,410	5,690	
21	574	303	25550737	0.70890	3,394	1,791	**
22	840	1,155	25559440	0.87030	6,097	8,383	
23	900	517	25567657	0.82170	6,168	3,543	
24	450	1,470	25580115	1.24580	4,675	15,273	
25	635	1,345	25589583	0.94680	5,014	10,621	
26	900	410	25597760	0.81770	6,138	2,796	
27	720	144	25606225	0.84650	5,083	1,017	
28	810	320	25613955	0.77300	5,222	2,063	
29	690	535	25622036	0.80810	4,650	3,606	
30	870	297	25629396	0.73600	5,340	1,823	
31	690	235	25637060	0.76640	4,410	1,502	
TOTAL				31.41720	161,295	202,627	
AVG.	643	668		1.01346	5,203	6,536	

REVIEWED BY: Mike Andrews DATE: 2/6/97

APPROVED BY: W L Thompson DATE: 2/7/97

* Denotes 12 day average for Suspended Solids and BOD.
** Denotes 12 day average for BOD.

File Name: Billing - January 1997.xls

CONTRACT CUSTOMER BILLING DATA

WALDORF | DECEMBER | 1996

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			25016197				
01	660	310	25025427	0.92300	5,081	2,386	
02	690	397	25034662	0.92350	5,314	3,058	
03	500	300	25046126	1.14640	4,780	2,868	
04	630	390	25055722	0.95960	5,042	3,121	
05	690	337	25065736	1.00140	5,763	2,815	
06	810	320	25073867	0.81310	5,493	2,170	
07	855	322	25083396	0.95290	6,795	2,559	
08	529	610	25092478	0.90820	4,007	4,620	**
09	930	860	25101220	0.87420	6,780	6,270	
10	1,110	830	25109343	0.81230	7,520	5,623	
11	720	510	25119689	1.03460	6,213	4,401	
12	710	955	25128281	0.85920	5,088	6,843	
13	600	2,230	25138012	0.97310	4,869	18,098	
14	670	1,875	25147093	0.90810	5,074	14,200	
15	690	630	25156445	0.93520	5,382	4,914	
16	780	540	25165450	0.90050	5,858	4,055	
17	410	1,750	25179775	1.43250	4,898	20,907	
18	490	1,240	25192874	1.30990	5,353	13,546	
19	500	317	25203827	1.09530	4,567	2,896	
20	480	405	25214513	1.06860	4,278	3,609	
21	550	385	25223190	0.86770	3,980	2,786	
22	475	1,395	25233207	1.00170	3,968	11,654	
23	570	1,440	25247963	1.47560	7,015	17,721	
24	574	1,062	AVG	0.45805	2,193	4,057	*@
25	574	1,062	25257124	0.45805	2,193	4,057	*@
26	340	3,540	25276174	1.90500	5,402	56,242	
27	420	1,720	25286480	1.03060	3,610	14,784	
28	700	1,780	25296073	0.95930	5,600	14,241	
29	600	935	25305546	0.94730	4,740	7,387	
30	690	273	25314242	0.86960	5,004	1,980	
31	680	420	25322888	0.86460	4,903	3,029	
TOTAL				30.66910	156,763	266,899	
AVG.	633	940		0.98933	5,057	8,610	

REVIEWED BY: Nilda Andrews DATE: Jan 7, 1997

APPROVED BY: Walter L Thompson DATE: Jan. 7, 1997

* Denotes 12 day average for Suspended Solids and BOD.

** Denotes 12 day average for BOD results.

@ Denotes 2 day Flow average.

File Name: Billing - December 1996.xls

CONTRACT CUSTOMER BILLING DATA

WALDORF — NOVEMBER 1996
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			24769153				
01	780	1,550	24778823	0.96700	6,291	12,500	
02	675	778	24788565	0.97420	5,484	6,321	
03	750	1,050	24798734	1.01690	6,361	8,905	
04	675	675	24808676	0.99420	5,597	5,597	
05	600	790	24817982	0.93060	4,657	6,131	
06	630	2,140	24830936	1.29540	6,806	23,120	
07	605	2,430	24839709	0.87730	4,427	17,780	
08	550	425	24849023	0.93140	4,272	3,301	
09	662	438	24858689	0.96660	5,337	3,531	
10	665	495	24869034	1.03450	5,737	4,271	
11	770	420	24877258	0.82240	5,281	2,881	
12	870	1,570	24891377	1.41190	10,244	18,487	
13	470	350	AVG	0.96388	3,778	2,814	#
14	460	118	AVG	0.96388	3,698	949	#
15	655	630	AVG	0.96388	5,265	5,064	#
16	792	738	AVG	0.96388	6,367	5,933	#
17	620	190	AVG	0.96388	4,984	1,527	#
18	605	183	AVG	0.96388	4,863	1,471	#
19	725	166	AVG	0.96388	5,828	1,334	#
20	610	1,580	24913710	0.96388	4,904	12,701	
21	560	910	24922944	0.92340	4,313	7,008	
22	530	1,240	24932695	0.97510	4,310	10,084	
23	495	180	24942931	1.02360	4,226	1,537	
24	620	485	24953641	1.07100	5,538	4,332	
25	680	1,913	24965240	1.15990	6,578	18,506	
26	200	915	24973816	0.85760	1,430	6,544	
27	200	1,240	24985528	1.17120	1,954	12,112	
28	250	330	24994593	0.90650	1,890	2,495	
29	300	740	25006174	1.15810	2,898	7,147	
30	560	223	25016197	1.00230	4,681	1,864	
TOTAL				30.18214	147,999	216,247	
AVG.	585	830		1.00607	4,933	7,208	

REVIEWED BY: Mike Andrews DATE: 12/6/96

APPROVED BY: Walt Thompson DATE: 12/6/96

* Denotes 12 day average for Suspended Solids and BOD.
# Flow meter out of service - 12 day Flow average used.

CONTRACT CUSTOMER BILLING DATA

WALDORF — OCTOBER 1996 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	24476841	********	******	******	
01	635	1380	24490124	1.32830	7,035	15,288	
02	220	1610	24508698	1.85740	3,408	24,940	
03	570	357	24517900	0.92020	4,374	2,740	
04	690	410	24525617	0.77170	4,441	2,639	
05	600	215	24533685	0.80680	4,037	1,447	
06	600	240	24542215	0.85300	4,268	1,707	
07	810	480	24551736	0.95210	6,432	3,811	
08	690	253	24559606	0.78700	4,529	1,661	
09	630	450	24567506	0.79000	4,151	2,965	
10	600	420	24576580	0.90740	4,541	3,178	
11	520	485	24584671	0.80910	3,509	3,273	
12	665	347	24592910	0.82390	4,569	2,384	
13	600	765	24601569	0.86590	4,333	5,525	
14	616	421	24610491	0.89220	4,584	3,133	*
15	616	421	24622163	1.16720	5,996	4,098	*
16	615	235	24631919	0.97560	5,004	1,912	
17	610	343	24641065	0.91460	4,653	2,616	
18	460	300	24650619	0.95540	3,665	2,390	
19	670	592	24659355	0.87360	4,882	4,313	
20	765	1155	24668588	0.92330	5,891	8,894	
21	650	530	24677331	0.87430	4,740	3,865	
22	660	208	24686513	0.91820	5,054	1,593	
23	660	210	24694678	0.81650	4,494	1,430	
24	720	220	24703946	0.92680	5,565	1,700	
25	660	230	24713256	0.93100	5,125	1,786	
26	650	938	24723488	1.02320	5,547	8,004	
27	530	250	24732943	0.94550	4,179	1,971	
28	610	205	24741364	0.84210	4,284	1,440	
29	520	188	24750407	0.90430	3,922	1,418	
30	630	745	24759692	0.92850	4,879	5,769	
31	600	532	24769153	0.94610	4,734	4,198	
TOTAL				29.23120	146,824	132,088	
AVG.	615	488		0.94294	4,736	4,261	

REVIEWED BY: Mike Andrews DATE: Nov. 12, 1996

APPROVED BY: Walter R Thompson DATE: Nov. 12, 1996

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — SEPTEMBER 1996 — # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	24204560	********	******	******	
01	620	836	24215607	1.10470	5,712	7,702	
02	645	377	24226729	1.11220	5,983	3,497	
03	665	156	24235807	0.90780	5,035	1,181	
04	660	275	24244967	0.91600	5,042	2,101	
05	720	133	24254137	0.91700	5,506	1,017	
06	700	363	24262885	0.87480	5,107	2,648	
07	765	243	24271312	0.84270	5,377	1,708	
08	735	137	24280631	0.93190	5,712	1,065	
09	690	263	24290777	1.01460	5,839	2,225	
10	610	1250	24302600	1.18230	6,013	12,325	
11	270	1520	24312161	0.95610	2,153	12,120	
12	625	253	24321118	0.89570	4,669	1,890	
13	690	445	24328805	0.76870	4,424	2,853	
14	655	164	24338495	0.96900	5,293	1,325	
15	640	140	24346899	0.84040	4,486	981	
16	695	380	24355547	0.86480	5,013	2,741	
17	640	300	24364980	0.94330	5,035	2,360	
18	660	205	24372482	0.75020	4,129	1,283	
19	810	495	24381729	0.92470	6,247	3,817	
20	810	280	24390899	0.91700	6,195	2,141	
21	672	182	24399636	0.87370	4,897	1,326	
22	720	247	24408494	0.88580	5,319	1,823	
23	840	290	24416653	0.81590	5,716	1,973	
24	699	275	24424693	0.80400	4,687	1,844	*
25	699	275	24433382	0.86890	5,065	1,993	*
26	685	640	24442094	0.87120	4,977	4,650	
27	720	240	24450570	0.84760	5,090	1,697	
28	705	178	24458886	0.83160	4,890	1,235	
29	660	400	24467761	0.88750	4,885	2,961	
30	635	655	24476841	0.90800	4,809	4,960	
TOTAL				27.22810	153,305	91,445	
AVG.	678	387		0.90760	5,110	3,048	

REVIEWED BY: Mike Andrews DATE: Oct 11, 1996

APPROVED BY: Wally L Thompson DATE: Oct 11, 1996

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — AUGUST 1996 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	23903171	********	******	******
01	710	263	23911740	0.85690	5,074	1,880
02	720	470	23920891	0.91510	5,495	3,587
03	622	218	23929820	0.89290	4,632	1,623
04	770	217	23938438	0.86180	5,534	1,560
05	735	495	23948684	1.02460	6,281	4,230
06	470	160	23960208	1.15240	4,517	1,538
07	430	280	23973023	1.28150	4,596	2,993
08	620	183	23981872	0.88490	4,576	1,351
09	550	1633	23993831	1.19590	5,486	16,287
10	622	252	24003295	0.94640	4,909	1,989
11	750	133	24010582	0.72870	4,558	808
12	750	96	24018395	0.78130	4,887	626
13	720	220	24027266	0.88710	5,327	1,628
14	595	115	24035659	0.83930	4,165	805
15	720	107	24043269	0.76100	4,570	679
16	700	197	24052336	0.90670	5,293	1,490
17	645	478	24062281	0.99450	5,350	3,965
18	380	1050	24072792	1.05110	3,331	9,204
19	210	230	24085487	1.26950	2,223	2,435
20	470	173	24094822	0.93350	3,659	1,347
21	520	240	24106263	1.14410	4,962	2,290
22	900	107	24114686	0.84230	6,322	752
23	810	115	24124300	0.96140	6,495	922
24	825	200	24133509	0.92090	6,336	1,536
25	840	130	24142212	0.87030	6,097	944
26	780	340	24150688	0.84760	5,514	2,403
27	810	170	24160587	0.98990	6,687	1,403
28	600	1540	24172775	1.21880	6,099	15,654
29	595	755	24183374	1.05990	5,260	6,674
30	520	537	24193835	1.04610	4,537	4,685
31	490	272	24204560	1.07250	4,383	2,433
TOTAL				30.13890	157,154	99,719
AVG.	641	367		0.97222	5,069	3,217

REVIEWED BY: Mike Andrews DATE: 9/6/96

APPROVED BY: Walter L Thompson DATE: 9/9/96

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — JULY 1996 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	23598613	********	******	******
01	280	1185	23608843	1.02300	2,389	10,110
02	350	1360	23620250	1.14070	3,330	12,938
03	470	1680	23632528	1.22780	4,813	17,203
04	810	132	23641355	0.88270	5,963	972
05	700	137	23650093	0.87380	5,101	998
06	460	355	23661434	1.13410	4,351	3,358
07	570	373	23670884	0.94500	4,492	2,940
08	780	273	23680446	0.95620	6,220	2,177
09	600	167	23690944	1.04980	5,253	1,462
10	430	75	23701710	1.07660	3,861	673
11	540	70	23710757	0.90470	4,074	528
12	610	227	23719081	0.83240	4,235	1,576
13	602	1655	23731933	1.28520	6,453	17,739
14	590	177	23740166	0.82330	4,051	1,215
15	650	445	23751328	1.11620	6,051	4,143
16	660	760	23759428	0.81000	4,459	5,134
17	840	265	23767288	0.78600	5,506	1,737
18	840	375	23775452	0.81640	5,719	2,553
19	660	425	23784931	0.94790	5,218	3,360
20	595	285	23794591	0.96600	4,794	2,296
21	700	705	23804737	1.01460	5,923	5,966
22	965	335	23813812	0.90750	7,304	2,535
23	730	790	23822553	0.87410	5,322	5,759
24	590	490	23831315	0.87620	4,311	3,581
25	675	620	23843570	1.22550	6,899	6,337
26	390	395	23855234	1.16640	3,794	3,842
27	520	266	23865445	1.02110	4,428	2,265
28	630	223	23873971	0.85260	4,480	1,586
29	1620	625	23884724	1.07530	14,528	5,605
30	310	805	23894712	0.99880	2,582	6,706
31	650	230	23903171	0.84590	4,586	1,623
TOTAL				30.45580	160,489	138,918
AVG.	639	513		0.98245	5,177	4,481

REVIEWED BY: Mike Andrews DATE: Aug 9, 1996

APPROVED BY: Walter L Thompson DATE: Aug 9, 1996

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — JUNE 1996 — # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	23282577	********	******	******
01	885	795	23294026	1.14490	8,450	7,591
02	870	1230	23303971	0.99450	7,216	10,202
03	930	705	23313075	0.91040	7,061	5,353
04	750	1150	23323828	1.07530	6,726	10,313
05	485	1110	23335205	1.13770	4,602	10,532
06	610	805	23345939	1.07340	5,461	7,206
07	720	265	23356008	1.00690	6,046	2,225
08	705	1500	23366112	1.01040	5,941	12,640
09	715	950	23375650	0.95380	5,688	7,557
10	750	895	23385310	0.96600	6,042	7,211
11	840	455	23394649	0.93390	6,543	3,544
12	780	800	23405543	1.08940	7,087	7,268
13	290	410	23414882	0.93390	2,259	3,193
14	590	275	23426988	1.21060	5,957	2,777
15	650	290	23437766	1.07780	5,843	2,607
16	695	255	23448935	1.11690	6,474	2,375
17	635	375	23460588	1.16530	6,171	3,644
18	605	156	23469754	0.91660	4,625	1,193
19	660	375	23479441	0.96870	5,332	3,030
20	480	990	23493992	1.45510	5,825	12,014
21	480	140	23505219	1.12270	4,494	1,311
22	520	100	23515131	0.99120	4,299	827
23	640	245	23524973	0.98420	5,253	2,011
24	780	1720	23534963	0.99900	6,499	14,330
25	870	920	23542812	0.78490	5,695	6,022
26	900	605	23551194	0.83820	6,292	4,229
27	1050	705	23560893	0.96990	8,493	5,703
28	650	2670	23574080	1.31870	7,149	29,365
29	540	988	23586793	1.27130	5,725	10,475
30	800	975	23598613	1.18200	7,886	9,611
TOTAL				31.60360	181,134	206,360
AVG.	696	762		1.05345	6,038	6,879

REVIEWED BY: Mike Andrews DATE: July 10, 1996

APPROVED BY: Walter L Thompson DATE: July 10, 1996

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — MAY 1996 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******		********	******	******	
01	200	2210	22972456	0.87630	1,462	16,151	*
02	370	345	22984434	1.19780	3,696	3,446	
03	690	210	22992892	0.84580	4,867	1,481	
04	855	232	23001688	0.87960	6,272	1,702	
05	780	1000	23009577	0.78890	5,132	6,579	
06	670	160	23018135	0.85580	4,782	1,142	
07	600	570	23028191	1.00560	5,032	4,780	
08	650	500	23038212	1.00210	5,432	4,179	
09	780	995	23049714	1.15020	7,482	9,545	
10	590	445	23060984	1.12700	5,546	4,183	
11	628	690	23072293	1.13090	5,923	6,508	
12	810	540	23080471	0.81780	5,525	3,683	
13	870	445	23088682	0.82110	5,958	3,047	
14	705	760	23097327	0.86450	5,083	5,480	#
15	840	500	23106101	0.87740	6,147	3,659	
16	930	1045	23115397	0.92960	7,210	8,102	
17	748	644	23126135	1.07380	6,699	5,767	**
18	682	1090	23137375	1.12400	6,393	10,218	
19	645	560	23148591	1.12160	6,033	5,238	
20	690	960	23160771	1.21800	7,009	9,752	
21	470	1740	23173072	1.23010	4,822	17,851	
22	495	495	23184699	1.16270	4,800	4,800	
23	900	445	23196041	1.13420	8,513	4,209	
24	690	940	23208699	1.26580	7,284	9,923	
25	698	910	23218561	0.98620	5,741	7,485	
26	810	1710	23229543	1.09820	7,419	15,662	
27	1050	1120	23240328	1.07850	9,444	10,074	
28	790	1500	23252553	1.22250	8,055	15,293	
29	750	2080	23262363	0.98100	6,136	17,018	
30	900	1244	23273083	1.07200	8,046	11,122	
31	810	605	23282577	0.94940	6,414	4,790	
TOTAL				31.88840	188,357	232,870	
AVG.	713	861		1.02866	6,076	7,512	

REVIEWED BY: Mike Andrews DATE: 06/07/96

APPROVED BY: Walter L Longman DATE: 6-7-96

** Denotes 12-day average for BOD and Suspended Solids.

* Denotes 2 day average for Flow.

# DENOTES 12-DAY BOD AVERAGE DUE TO INSTRUMENT MALFUNCTION.

CONTRACT CUSTOMER BILLING DATA

WALDORF — APRIL 1996 — # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	22653859	********	******	******
01	665	1105	22665128	1.12690	6,250	10,385
02	450	830	22676957	1.18290	4,439	8,188
03	360	2590	22689767	1.28100	3,846	27,670
04	555	930	22698912	0.91450	4,233	7,093
05	540	1110	22710378	1.14660	5,164	10,615
06	632	645	22719776	0.93980	4,954	5,055
07	685	590	22729084	0.93080	5,318	4,580
08	765	945	22740403	1.13190	7,222	8,921
09	690	235	22748463	0.80600	4,638	1,580
10	690	192	22757135	0.86720	4,990	1,389
11	730	800	22768593	1.14580	6,976	7,645
12	700	348	22780289	1.16960	6,828	3,395
13	650	432	22789975	0.96860	5,251	3,490
14	685	620	22800227	1.02520	5,857	5,301
15	675	2230	22814989	1.47620	8,310	27,455
16	450	960	22826081	1.10920	4,163	8,881
17	650	800	22837073	1.09920	5,959	7,334
18	380	1025	22846602	0.95290	3,020	8,146
19	550	980	22857470	1.08680	4,985	8,883
20	660	1250	22868812	1.13420	6,243	11,824
21	590	980	22880121	1.13090	5,565	9,243
22	1230	1380	22889746	0.96250	9,874	11,078
23	660	910	22898173	0.84270	4,639	6,396
24	810	370	22907895	0.97220	6,568	3,000
25	720	610	22918724	1.08290	6,503	5,509
26	645	1070	22928026	0.93020	5,004	8,301
27	705	180	22936806	0.87800	5,162	1,318
28	930	535	22945565	0.87590	6,794	3,908
29	990	680	22954930	0.93650	7,732	5,311
30	810	1310	AVG	0.87630	5,920	9,574 *
TOTAL				30.98340	172,404	241,466
AVG.	675	888		1.03278	5,747	8,049

REVIEWED BY: Mike Andrews DATE: 05/13/96

APPROVED BY: Whitley L Thompson DATE: 05/13/96

* Denotes 2 day average for Flow.

CONTRACT CUSTOMER BILLING DATA

WALDORF — MARCH 1996 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	22390123	********	******	******	
01	690	1010	22399069	0.89460	5,148	7,536	
02	840	228	22407878	0.88090	6,171	1,675	
03	780	455	22414955	0.70770	4,604	2,686	
04	780	1115	22423140	0.81850	5,325	7,611	
05	750	1010	22429596	0.64560	4,038	5,438	
06	870	255	22435935	0.63390	4,599	1,348	
07	960	840	22441905	0.59700	4,780	4,182	
08	1290	3290	22450464	0.85590	9,208	23,485	
09	960	3020	22459031	0.85670	6,859	21,578	
10	930	2020	22469188	1.01570	7,878	17,111	
11	1140	2720	22475780	0.65920	6,267	14,954	
12	1140	2680	22485030	0.92500	8,795	20,675	
13	520	3360	22499409	1.43790	6,236	40,293	
14	840	1040	22508468	0.90590	6,346	7,857	
15	930	1180	22518446	0.99780	7,739	9,820	
16	1080	1975	22526969	0.85230	7,677	14,039	
17	810	1435	22535468	0.84990	5,741	10,172	
18	966	2020	22542845	0.73770	5,943	12,428	*
19	840	670	22550824	0.79790	5,590	4,459	
20	480	590	22558111	0.72870	2,917	3,586	
21	900	1135	22566838	0.87270	6,550	8,261	
22	610	900	22573937	0.70990	3,612	5,329	
23	810	715	22582211	0.82740	5,589	4,934	
24	690	235	22590614	0.84030	4,836	1,647	
25	990	130	22598015	0.74010	6,111	802	
26	960	350	22606135	0.81200	6,501	2,370	
27	870	740	22616110	0.99750	7,238	6,156	
28	510	575	22626161	1.00510	4,275	4,820	
29	460	1070	22637654	1.14930	4,409	10,256	
30	485	82	22645784	0.81300	3,289	556	
31	690	360	22653859	0.80750	4,647	2,424	
TOTAL				26.37360	178,918	278,486	
AVG.	825	1200		0.85076	5,772	8,983	

REVIEWED BY: Mike Andrews DATE: April 16 1996

APPROVED BY: Walter L Thompson DATE: April 17, 1996

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — FEBRUARY 1996
DAYS 29

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	22116074	********	******	******	
01	610	695	22125322	0.92480	4,705	5,360	
02	520	820	22138581	1.32590	5,750	9,068	
03	740	890	22148136	0.95550	5,897	7,092	
04	750	1645	22159818	1.16820	7,307	16,027	
05	380	1505	22171072	1.12540	3,567	14,126	
06	540	235	22179090	0.80180	3,611	1,571	
07	750	865	22189477	1.03870	6,497	7,493	
08	780	2070	22201183	1.17060	7,615	20,209	
09	626	992	22212301	1.11180	5,805	9,198	*
10	600	1385	22225220	1.29190	6,465	14,923	
11	580	725	22235611	1.03910	5,026	6,283	
12	580	385	22243243	0.76320	3,692	2,451	
13	900	1440	22253958	1.07150	8,043	12,868	
14	330	860	22263224	0.92660	2,550	6,646	
15	600	655	22272740	0.95160	4.762	5,198	
16	640	220	22281339	0.85990	4,590	1,578	
17	825	920	22288387	0.70480	4,849	5,408	
18	780	815	22295160	0.67730	4,406	4,604	
19	900	910	22304042	0.88820	6,667	6,741	
20	930	1350	22310741	0.66990	5,196	7,542	
21	840	1320	22318137	0.73960	5,181	8,142	
22	900	1607	22327786	0.96490	7,243	12,932	
23	720	475	22336775	0.89890	5,398	3,561	
24	1035	2455	22344925	0.81500	7,035	16,687	
25	1050	1730	22354743	0.98180	8,598	14,166	
26	990	1000	22363467	0.87240	7,203	7,276	
27	1020	1020	22370501	0.70340	5,984	5,984	
28	930	2340	22381254	1.07530	8,340	20,985	
29	600	840	22390123	0.88690	4,438	6,213	
TOTAL				27.40490	166,418	260,331	
AVG.	740	1109		0.94500	5,739	8,977	

REVIEWED BY: Mike Andrews DATE: March 11, 1996

APPROVED BY: Wally L Thompson DATE: March 11, 1996

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF JANUARY 1996
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	21773575	********	******	******
01	630	2960	21786557	1.29820	6,821	32,048
02	655	1770	21796433	0.98760	5,395	14,579
03	720	980	21806289	0.98560	5,918	8,056
04	750	915	21815063	0.87740	5,488	6,696
05	900	910	21825497	1.04340	7,832	7,919
06	618	670	21835187	0.96900	4,994	5,415
07	720	1100	21845175	0.99880	5,998	9,163
08	640	1110	21855688	1.05130	5,611	9,732
09	690	680	21865895	1.02070	5,874	5,789
10	600	1760	21876850	1.09550	5,482	16,080
11	870	1880	21887765	1.09150	7,920	17,114
12	370	1250	21902575	1.48100	4,570	15,439
13	495	680	21916386	1.38110	5,702	7,832
14	490	750	21930481	1.40950	5,760	8,816
15	470	570	21945075	1.45940	5,721	6,938
16	540	940	21959389	1.43140	6,446	11,222
17	620	430	21970118	1.07290	5,548	3,848
18	900	745	21981401	1.12830	8,469	7,010
19	1080	450	21989623	0.82220	7,406	3,086
20	975	755	21997450	0.78270	6,365	4,928
21	900	630	22006199	0.87490	6,567	4,597
22	1350	455	22014680	0.84810	9,549	3,218
23	810	830	22023459	0.87790	5,931	6,077
24	660	710	22037220	1.37610	7,575	8,148
25	660	505	22046840	0.96200	5,295	4,052
26	780	445	22056803	0.99630	6,481	3,698
27	840	772	22065339	0.85360	5,980	5,496
28	750	870	22076071	1.07320	6.713	7,787
29	580	745	22091227	1.51560	7,331	9,417
30	590	1360	22104508	1.32810	6,535	15,064
31	430	520	22116074	1.15660	4,148	5,016
TOTAL				34.24990	195,423	274,278
AVG.	712	940		1.10484	6,304	8,848

REVIEWED BY: Mike Andrews DATE: Feb 12, 1996

APPROVED BY: Walt Thompson DATE: Feb 12, 1996

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — DECEMBER 1995 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	21459654	********	******	******	
01	650	990	21470155	1.05010	5,693	8,670	
02	605	918	21479505	0.93500	4,718	7,158	
03	990	730	21487558	0.80530	6,649	4,903	
04	690	495	21495566	0.80080	4,608	3,306	
05	742	2360	21502881	0.73150	4,527	14,398	*
06	600	2010	21514875	1.19940	6,002	20,106	
07	780	1710	21520449	0.55740	3,626	7,949	
08	930	3190	21526839	0.63900	4,956	17,000	
09	885	2465	21532965	0.61260	4,522	12,594	
10	1230	4400	21538541	0.55760	5,720	20,462	
11	1050	3160	21548220	0.96790	8,476	25,508	
12	870	4220	21560045	1.18250	8,580	41,618	
13	720	740	21571802	1.17570	7,060	7,256	
14	1020	1470	21582080	1.02780	8,743	12,601	
15	1170	1640	21592034	0.99540	9,713	13,615	
16	900	628	21601496	0.94620	7,102	4,956	
17	1050	1235	21612601	1.11050	9,725	11,438	
18	810	770	21624386	1.17850	7,961	7,568	
19	1050	2690	21637821	1.34350	11,765	30,141	
20	640	740	21648424	1.06030	5,659	6,544	
21	990	3340	21661611	1.31870	10,888	36,733	
22	900	1010	21671826	1.02150	7,667	8,605	
23	1080	4045	21684955	1.31290	11,826	44,291	
24	200	395	AVG	0.47555	793	1,567	#
25	200	395	21694466	0.47555	793	1,567	#
26	480	1485	21709519	1.50530	6,026	18,643	
27	705	820	21718158	0.86390	5,079	5,908	
28	810	1805	21733459	1.53010	10,336	23,034	
29	470	3760	21751458	1.79990	7,055	56,442	
30	855	1315	21760257	0.87990	6,274	9,650	
31	870	2805	21773575	1.33180	9,663	31,156	
TOTAL				31.39210	212,206	515,385	
AVG.	805	1862		1.01265	6,845	16,625	

REVIEWED BY: Mike Andrews DATE: Jan 8, 1996

APPROVED BY: Walt Thompson DATE: Jan 8, 1996

# Denotes a 2-Day composite sample.

* Denotes 12 average for BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — NOVEMBER 1995 — # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	21196010	********	******	******	
01	220	2967	21197950	0.19400	356	4,800	
02	290	5500	21199232	0.12820	310	5,881	
03	200	340	21200106	0.08740	146	248	
04	489	2167	21208808	0.87020	3,549	15,727	*
05	270	5820	21223222	1.44140	3,246	69,964	
06	840	5800	21237434	1.42120	9,956	68,746	
07	560	3590	21250041	1.26070	5,888	37,746	
08	840	2680	21259409	0.93680	6,563	20,939	
09	840	1275	21266212	0.68030	4,766	7,234	
10	1170	1205	21274263	0.80510	7,856	8,091	
11	562	1015	21285177	1.09140	5,115	9,239	
12	440	4155	21298142	1.29650	4,758	44,927	
13	990	3960	21307235	0.90930	7,508	30,031	
14	660	3110	21316858	0.96230	5,297	24,960	
15	900	2080	21323201	0.63430	4,761	11,003	
16	1050	2380	21331539	0.83380	7,302	16,550	
17	960	2430	21340220	0.86810	6,950	17,593	
18	1080	1206	21346936	0.67160	6,049	6,755	
19	1110	585	21353873	0.69370	6,422	3,384	
20	990	695	21362231	0.83580	6,901	4,845	
21	960	780	21370718	0.84870	6,795	5,521	
22	675	490	21377648	0.69300	3,901	2,832	
23	710	3320	21391338	1.36900	8,106	37,906	
24	780	2420	21400000	0.86620	5,635	17,482	
25	595	608	21407759	0.77590	3,850	3,934	
26	840	853	21415925	0.81660	5,721	5,809	
27	870	1135	21424060	0.81350	5,903	7,701	
28	900	1830	21433155	0.90950	6,827	13,881	
29	390	1410	21446454	1.32990	4,326	15,639	
30	780	1835	21459654	1.32000	8,587	20,201	
TOTAL				26.36440	163,349	539,569	
AVG.	732	2255		0.87881	5,445	17,986	

REVIEWED BY: Mia Andrews DATE: Dec 12, 1995

APPROVED BY: Walter L Thompson DATE: Dec 13, 1995

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — OCTOBER 1995 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	20920579	********	******	******
01	600	280	20928840	0.82610	4,134	1,929
02	660	1200	20938414	0.95740	5,270	9,582
03	540	545	20947690	0.92760	4,178	4,216
04	720	1220	20957385	0.96950	5,822	9,864
05	290	1680	20970503	1.31180	3,173	18,380
06	480	1920	20982106	1.16030	4,645	18,580
07	520	1000	20993842	1.17360	5,090	9,788
08	2130	1670	21001699	0.78570	13,957	10,943
09	675	1530	21009357	0.76580	4,311	9,772
10	930	1680	21015813	0.64560	5,007	9,046
11	630	400	21022983	0.71700	3,767	2,392
12	990	1620	21034531	1.15480	9,535	15,602
13	1110	1530	21042654	0.81230	7,520	10,365
14	975	2810	21050226	0.75720	6,157	17,745
15	840	1850	21057359	0.71330	4,997	11,006
16	765	1800	21065479	0.81200	5,181	12,190
17	620	2670	21076502	1.10230	5,700	24,546
18	510	1710	21085279	0.87770	3,733	12,517
19	810	530	21093773	0.84940	5,738	3,755
20	660	1510	21102617	0.88440	4,868	11,138
21	645	890	21112010	0.93930	5,053	6,972
22	810	1000	21120281	0.82710	5,587	6,898
23	630	880	21128209	0.79280	4,166	5,819
24	470	1560	21137294	0.90850	3,561	11,820
25	490	630	21146090	0.87960	3,595	4,622
26	340	2120	21157510	1.14200	3,238	20,191
27	470	890	21168072	1.05620	4,140	7,840
28	735	640	21176914	0.88420	5,420	4,720
29	645	1930	21188988	1.20740	6,495	19,435
30	900	5640	21193342	0.43540	3,268	20,480
31	480	4550	21196010	0.26680	1,068	10,124
TOTAL				27.54310	158,373	342,274
AVG.	712	1609		0.88849	5,109	11,041

REVIEWED BY: Mike Andrews DATE: Nov. 9, 1995

APPROVED BY: Walter L Thompson DATE: Nov. 12, 1995

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — SEPTEMBER 1995 — # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	20623651	********	******	******	
01	750	790	20632476	0.88250	5,520	5,814	
02	648	1170	20642379	0.99030	5,352	9,663	
03	644	798	20651869	0.94900	5,097	6,316	*
04	470	1630	20662053	1.01840	3,992	13,844	
05	640	1940	20671186	0.91330	4,875	14,777	
06	470	1291	20682984	1.17980	4,625	12,703	
07	500	1250	20695426	1.24420	5,188	12,971	
08	350	440	20707134	1.17080	3,418	4,296	
09	430	235	20717635	1.05010	3,766	2,058	
10	560	1020	20727140	0.95050	4,439	8,086	
11	520	720	20737321	1.01810	4,415	6,113	
12	620	340	20745145	0.78240	4,046	2,219	
13	410	580	20758752	1.36070	4,653	6,582	
14	440	460	20768004	0.92520	3,395	3,549	
15	540	530	20780998	1.29940	5,852	5,744	
16	540	210	20791441	1.04430	4,703	1,829	
17	570	460	20800928	0.94870	4,510	3,640	
18	685	1180	20810651	0.97230	5,555	9,569	
19	720	410	20820004	0.93530	5,616	3,198	
20	480	500	20827900	0.78960	3,161	3,293	
21	810	350	20838138	1.02380	6,916	2,988	
22	380	540	20846434	0.82960	2,629	3,736	
23	608	150	20854438	0.80040	4,059	1,001	
24	765	680	20863368	0.89300	5,697	5,064	
25	600	880	20870795	0.74270	3,716	5,451	
26	550	720	20878653	0.78580	3,604	4,719	
27	530	570	20892657	1.40040	6,190	6,657	
28	470	790	20903298	1.06410	4,171	7,011	
29	580	1150	20911374	0.80760	3,907	7,746	
30	668	940	20920579	0.92050	5,128	7,216	
TOTAL				29.69280	138,195	187,853	
AVG.	565	757		0.98976	4,607	6,262	

REVIEWED BY: Mike Andrews DATE: Oct 10, 1995

APPROVED BY: Kathy L Thompson DATE: Oct 12, 1995

* Denotes 12 average for Suspended Solids and BOD.

VALDOPF AUGUST 95
DAYS

DATE	BOD (mg/L)	SS (mg/L)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	20332665	********	******	******
01	600	1170	20342071	0.94060	4,707	9,178
02	670	680	20351143	0.90720	5,069	5,145
03	574	1170	20361263	1.01200	4,845	9,875
04	470	400	20370263	0.90000	3,525	3,002
05	682	740	20379714	0.94510	5,376	5,833
06	510	1990	20394687	1.49730	6,369	24,850
07	635	1700	20407389	1.27020	6,727	18,009
08	550	1880	20416425	0.90360	4,145	14,168
09	510	630	20424597	0.81720	3,476	4,294
10	570	710	20433962	0.93650	4,453	5,545
11	600	600	20442649	0.86870	-.347	-.347
12	788	500	20451873	0.92240	4,523	3,846
13	640	550	20460963	1.09090	4,852	4,170
14	480	790	20470823	1.08600	3,947	5,496
15	450	1700	20480604	0.97810	3,671	13,868
16	400	340	20489689	0.90850	3,031	2,576
17	440	710	20498690	0.90010	3,303	5,330
18	300	810	20509442	1.07520	2,690	7,263
19	425	360	20520280	1.08380	3,842	3,254
20	540	320	20529796	0.95160	4,286	2,540
21	350	940	20539643	0.98470	2,874	7,720
22	640	1370	20548489	0.88460	4,722	10,107
23	660	970	20557250	0.87610	4,822	7,087
24	530	300	20565265	0.80150	3,543	2,005
25	660	1180	20573175	0.79100	4,354	7,784
26	645	865	20581288	0.81130	4,364	5,853
27	685	510	20589523	0.82350	4,705	3,503
28	960*	1700	20598368	0.88450	7,082	12,540
29	550	480	20607725	0.93570	4,292	3,746
30	600	350	20616050	0.83250	4,166	2,430
31	600	250	20623651	0.76010	3,804	1,585
TOTAL				29.09860	135,910	217,950
AVG.	565	860		0.93866	4,384	7,031

REVIEWED BY: Mike Andrews DATE: Sept 11, 1995

APPROVED BY: A.K. Thompson DATE: Sept 11, 1995

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — JULY 1995 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	20057347	********	******	******	
01	680	390	20063702	0.63550	3,604	2,067	
02	685	300	20069710	0.60080	3,432	1,503	
03	750	1200	20077248	0.75380	4,715	7,544	
04	480	430	20085698	0.84500	3,383	3,030	
05	600	540	20093925	0.82270	4,117	3,705	
06	630	650	20101094	0.71690	3,767	3,886	
07	750	265	20108555	0.74610	4,667	1,649	
08	770	1500	20116462	0.79070	5,078	9,892	
09	750	840	20123075	0.66130	4,136	4,633	
10	930	733	20130444	0.73690	5,716	4,505	
11	660	690	20137912	0.74680	4,111	4,298	
12	750	1300	20144523	0.66110	4,135	7,168	
13	930	433	20150484	0.59610	4,623	2,153	
14	635	800	20161451	1.09670	5,808	7,317	
15	710	3715	20170925	0.94740	5,610	29,353	
16	590	667	20179095	0.81700	4,020	4,545	
17	635	1020	20190356	1.12610	5,964	9,580	
18	520	680	20200715	1.03590	4,492	5,875	
19	420	1110	20213092	1.23770	4,335	11,458	
20	500	580	20221501	0.84090	3,507	4,068	
21	650	660	20229872	0.83710	4,538	4,608	
22	532	995	20239451	0.95790	4,250	7,949	
23	550	2530	20251451	1.20000	5,504	25,320	
24	480	920	20261421	0.99700	3,991	7,650	
25	605	790	20270650	0.92290	4,657	6,081	
26	685	2110	20280060	0.94100	5,376	16,559	
27	705	5390	20294484	1.44240	8,481	64,840	
28	1410	5420	20303968	0.94840	11,153	42,870	
29	690	925	20312710	0.87420	5,031	6,744	
30	592	1800	20322303	0.95930	4,736	14,401	*
31	1020	1440	20332665	1.03620	8,815	12,444	
TOTAL				27.53180	155,751	337,693	
AVG.	687	1317		0.88812	5,024	10,893	

REVIEWED BY: Mike Andrews DATE: Aug 8, 1995

APPROVED BY: Wally L Thompson DATE: Aug. 14, 1995

* Denotes 12 average for BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF JUNE 1995
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******		********	******	******	
01	930	850	AVG	0.76918	5,966	5,453	
02	735	1520	AVG	0.76918	4,715	9,751	
03	692	1880	AVG	0.76918	4,439	12,060	
04	675	1150	AVG	0.76918	4,330	7,377	
05	550	1570	AVG	0.76918	3,528	10,071	
06	726	1480	AVG	0.76918	4,657	9,494	*
07	400	1130	AVG	0.76918	2,566	7,249	
08	410	613	AVG	0.76918	2,630	3,932	
09	620	660	AVG	0.76918	3,977	4,234	
10	600	255	AVG	0.76918	3,849	1,636	
11	530	250	AVG	0.76918	3,400	1',604	
12	640	630	AVG	0.76918	4,106	4,041	
13	620	670	AVG	0.76918	3,977	4,298	
14	645	380	AVG	0.76918	4,138	2,438	
15	675	970	19945962	0.76918	4,330	6,223	
16	660	500	19952105	0.61430	3,381	2,562	
17	748	496	19958631	0.65260	4,071	2,700	
18	750	850	19966288	0.76570	4,789	5,428	
19	680	1190	19973671	0.73830	4,187	7,327	
20	720	990	19983447	0.97760	5,870	8,072	
21	580	2840	19994260	1.08130	5,230	25,611	
22	690	2430	20003594	0.93340	5,371	18,916	
23	490	1110	20011439	0.78450	3,206	7,262	
24	666	984	20017606	0.61670	3,425	5,061	*
25	666	984	20023631	0.60250	3,347	4,944	*
26	960	510	20030492	0.68610	5,493	2,918	
27	1050	410	20036455	0.59630	5,222	2,039	
28	1020	520	20042966	0.65110	5,539	2,824	
29	660	290	20050283	0.73170	4,028	1,770	
30	695	310	20057347	0.70640	4,095	1,826	
TOTAL				22.67620	127,863	189,122	
AVG.	683	947		0.75587	4,262	6,304	

REVIEWED BY: Mike Andrews DATE: July 11, 1995

APPROVED BY: Walter Thompson DATE: July 13, 1995

* Denotes 12 average for Suspended Solids, BOD and Flow.

CONTRACT CUSTOMER BILLING DATA

WALDORF — MAY 1995 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	19699349	********	******	******
01	600	590	19706518	0.71690	3,587	3,528
02	695	530	19711842	0.53240	3,086	2,353
03	725	510	19719117	0.72750	4,399	3,094
04	640	780	19727937	0.88200	4,708	5,738
05	580	1050	19736605	0.86680	4,193	7,591
06	520	395	19745541	0.89360	3,875	2,944
07	560	1010	19753636	0.80950	3,781	6,819
08	520	900	19763199	0.95630	4,147	7,178
09	630	420	19770606	0.74070	3,892	2,595
10	640	620	19778692	0.80860	4,316	4,181
11	510	520	19789407	1.07150	4,558	4,647
12	605	760	19795800	0.63930	3,226	4,052
13	760	3200	19804112	0.83120	5,268	22,183
14	530	1740	19812055	0.79430	3,511	11,527
15	665	1080	19819126	0.70710	3,922	6,369
16	635	1340	19826094	0.69680	3,690	7,787
17	580	780	19833657	0.75630	3,658	4,920
18	470	990	19840296	0.66390	2,602	5,482
19	685	2160	19848532	0.82360	4,705	14,837
20	540	1520	19858838	1.03060	4,641	13,065
21	430	1780	19869238	1.04000	3,730	15,439
22	430	700	19880161	1.09230	3,917	6,377
23	630	900	AVG	0.63090	3,315	4,736
24	660	1220	19892779	0.63090	3,473	6,419
25	810	2340	19900795	0.80160	5,415	15,644
26	785	1400	19907940	0.71450	4,678	8,343
27	670	1605	19914328	0.63880	3,569	8,551
28	600	2280	19922406	0.80780	4,042	15,360
29	690	1560	19928690	0.62840	3,616	8,176
30	670	980	19934116	0.54260	3,032	4,435
31	960	810	19939131	0.50150	4,015	3,388
TOTAL				23.97820	122,568	237,754
AVG.	627	1176		0.77349	3,954	7,669

REVIEWED BY: Mike Andrews DATE: June 13, 1995

APPROVED BY: Walter L Thompson DATE: June 14, 1995

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF APRIL 1995
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	19454329	********	******	******	
01	638	920	19461794	0.74650	3,972	5,728	
02	615	850	19470526	0.87320	4,479	6,190	
03	510	460	19478401	0.78750	3,350	3,021	
04	655	1160	19486912	0.85110	4,649	8,234	
05	570	500	19494521	0.76090	3,617	3,173	
06	625	1390	19503421	0.89000	4,639	10,317	
07	530	510	19513501	1.00800	4,456	4,287	
08	460	1235	19520495	0.69940	2,683	7,204	
09	586	862	19529325	0.88300	4,315	6,348	*
10	900	240	19537704	0.83790	6,289	1,677	
11	545	420	19545577	0.78730	3,579	2,758	
12	230	1390	19561314	1.57370	3,019	18,243	
13	280	2000	19574898	1.35840	3,172	22,658	
14	380	950	19581540	0.66420	2,105	5,262	
15	615	455	19587356	0.58160	2,983	2,207	
16	710	450	19592948	0.55920	3,311	2,099	
17	650	410	19600092	0.71440	3,873	2,443	
18	625	320	19606821	0.67290	3,507	1,796	
19	655	260	19613045	0.62240	3,400	1,350	
20	625	390	19618996	0.59510	3,102	1,936	
21	610	770	19625959	0.69630	3,542	4,471	
22	500	590	19632930	0.69710	2,907	3,430	
23	570	490	19640854	0.79240	3,767	3,238	
24	530	690	19648500	0.76460	3,380	4,400	
25	585	500	19654920	0.64200	3,132	2,677	
26	810	550	19661445	0.65250	4,408	2,993	
27	705	840	19670576	0.91310	5,369	6,397	
28	370	1430	19682576	1.20000	3,703	14,311	
29	440	220	19690837	0.82610	3,031	1,516	
30	530	440	19699349	0.85120	3,762	3,124	
TOTAL				24.50200	111,502	163,488	
AVG.	568	723		0.81673	3,717	5,450	

REVIEWED BY: Mike Andrews DATE: 05/12/95

APPROVED BY: Walter R Thompson DATE: 05/15/95

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — MARCH 1995 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	19234753	********	******	******	
01	465	920	19245425	1.06720	4,139	8,188	
02	600	720	19252325	0.69000	3,453	4,143	
03	630	1900	19260593	0.82680	4,344	13,101	
04	725	700	19266382	0.57890	3,500	3,380	
05	650	520	19274181	0.77990	4,228	3,382	
06	750	500	19280047	0.58660	3,669	2,446	
07	720	830	19287158	0.71110	4,270	4,922	
08	810	550	19292198	0.50400	3,405	2,312	
09	960	350	19297046	0.48480	3,882	1,415	
10	1110	1050	19301728	0.46820	4,334	4,100	
11	1020	800	19305569	0.38410	3,267	2,563	
12	774	731	19310784	0.52150	3,366	3,179	*
13	960	430	19316608	0.58240	4,663	2,089	
14	780	1540	19329271	1.26630	8,238	16,264	
15	340	1630	19340498	1.12270	3,184	15,262	
16	430	530	19347061	0.65630	2,354	2,901	
17	780	745	19354404	0.73430	4,777	4,562	*
18	825	580	19358534	0.41300	2,842	1,998	
19	1110	840	19363653	0.51190	4,739	3,586	
20	1020	2200	19369530	0.58770	4,999	10,783	
21	900	2970	19376820	0.72900	5,472	18,057	
22	610	640	19383808	0.69880	3,555	3,730	
23	780	2210	19391176	0.73680	4,793	13,580	
24	650	800	19398320	0.71440	3,873	4,766	
25	782	1405	19404760	0.64400	4,200	7,546	
26	650	2110	19413605	0.88450	4,795	15,565	
27	670	1340	19421823	0.82180	4,592	9,184	
28	390	1140	19431035	0.92120	2,996	8,758	
29	625	640	19438672	0.76370	3,981	4,076	
30	630	660	19446918	0.82460	4,333	4,539	
31	660	1000	19454329	0.74110	4,079	6,181	
TOTAL				21.95760	128,320	206,561	
AVG.	736	1064		0.70831	4,139	6,663	

REVIEWED BY: Mike Andrews DATE: 04/10/95

APPROVED BY: Wally L Thompson DATE: 04/11/95

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — FEBRUARY 1995 — # DAYS 28

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	19026745	********	******	******
01	290	820	19035733	0.89880	2,174	6,147
02	490	530	19042735	0.70020	2,861	3,095
03	585	430	19050706	0.79710	3,889	2,859
04	490	410	19059572	0.88660	3,623	3,032
05	550	610	19068049	0.84770	3,888	4,313
06	570	810	19074811	0.67620	3,215	4,568
07	500	710	19086190	1.13790	4,745	6,738
08	540	490	19094826	0.86360	3,889	3,529
09	595	420	19102323	0.74970	3,720	2,626
10	540	830	19111473	0.91500	4,121	6,334
11	672	440	19116866	0.53930	3,022	1,979
12	635	460	19121836	0.49700	2,632	1,907
13	735	410	19128603	0.67670	4,148	2,314
14	650	680	19135698	0.70950	3,846	4,024
15	630	520	19141756	0.60580	3,183	2,627
16	800	2410	19148076	0.63200	4,217	12,703
17	690	2530	19153940	0.58640	3,374	12,373
18	575	950	19160084	0.61440	2,946	4,868
19	710	2850	19166688	0.66040	3,910	15,697
20	600	1510	19176774	1.00860	5,047	12,702
21	380	1130	19185243	0.84690	2,684	7,981
22	725	380	19191633	0.63900	3,864	2,025
23	780	360	19198547	0.69140	4,498	2,076
24	670	1140	19206579	0.80320	4,488	7,637
25	625	600	19213888	0.73090	3,810	3,657
26	715	520	19224456	1.05680	6,302	4,583
27	930	520	19227811	0.33550	2,602	1,455
28	870	720	19234753	0.69420	5,037	4,169
TOTAL				20.80080	105,737	148,016
AVG.	627	864		0.74289	3,776	5,286

REVIEWED BY: Mike Andrews DATE: March 6, 1995

APPROVED BY: Wally L Thompson DATE: March 7, 1995

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — JANUARY 1995 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	18752634	********	******	******
01	660	700	18760127	0.74930	4,124	4,374
02	615	690	18767764	0.76370	3,917	4,395
03	560	910	18775770	0.80060	3,739	6,076
04	655	1010	18783355	0.75850	4,143	6,389
05	610	360	18789803	0.64480	3,280	1,936
06	650	630	18798515	0.87120	4,723	6,031
07	590	920	18806457	0.79420	3,908	6,094
08	550	570	18815762	0.93050	4,268	4,423
09	600	750	18825160	0.93980	4,703	5,878
10	695	1050	18832818	0.76580	4,439	6,706
11	840	1385	18840794	0.79760	5,588	9,213
12	600	2600	18851504	1.07100	5,359	23,224
13	390	1420	18862496	1.09920	3,575	13,018
14	430	550	18872775	1.02790	3,686	4,715
15	500	340	18881393	0.86180	3,594	2,444
16	470	320	18891596	1.02030	3,999	2,723
17	630	560	18901721	1.01250	5,320	4,729
18	620	650	18909726	0.80050	4,139	4,340
19	760	590	18918093	0.83670	5,303	4,117
20	570	850	18928090	0.99970	4,752	7,087
21	525	1245	18939357	1.12670	4,933	11,699
22	420	670	18949398	1.00410	3,517	5,611
23	450	550	18957853	0.84550	3,173	3,878
24	590	1160	18966764	0.89110	4,385	8,621
25	520	1610	18975178	0.84140	3,649	11,298
26	480	790	18982587	0.74090	2,966	4,881
27	675	850	18990892	0.83050	4,675	5,887
28	675	435	18999527	0.86350	4,861	3,133
29	625	520	19007608	0.80810	4,212	3,505
30	600	800	19016261	0.86530	4,330	5,773
31	500	1520	19026745	1.04840	4,372	13,290
TOTAL				27.41110	131,635	205,487
AVG.	582	878		0.88423	4,246	6,629

REVIEWED BY: Mike Andrews DATE: Feb 7, 1995

APPROVED BY: Walter L Thompson DATE: Feb 7, 1995

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF

DECEMBER 1994
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	18526108	********	******	******	
01	580	640	18536055	0.99470	4,812	5,309	
02	520	633	18543743	0.76880	3,334	4,059	
03	630	490	18551200	0.74570	3,918	3,047	
04	675	480	18558627	0.74270	4,181	2,973	
05	605	440	18566384	0.77570	3,914	2,847	
06	720	580	18573864	0.74800	4,492	3,618	
07	520	810	18582538	0.86740	3,762	5,860	
08	460	1140	18592108	0.95700	3,671	9,099	
09	595	580	18598621	0.65130	3,232	3,150	
10	640	750	18604354	0.57330	3,060	3,586	
11	695	1310	18611170	0.68160	3,951	7,447	
12	720	1480	18618186	0.70160	4,213	8,660	
13	735	1100	18624640	0.64540	3,956	5,921	
14	630	720	18631338	0.66980	3,519	4,022	
15	870	320	18637569	0.62310	4,521	1,663	
16	654	791	18643842	0.62730	3,422	4,138	*
17	690	560	18650555	0.67130	3,863	3,135	
18	915	900	18658102	0.75470	5,759	5,665	
19	720	710	18664749	0.66470	3,991	3,936	
20	670	300	18672633	0.78840	4,405	1,973	
21	655	160	18679397	0.67640	3,695	903	
22	730	420	18687568	0.81710	4,975	2,862	
23	480	2060	18696897	0.93290	3,735	16,028	
24	200	245	AVG	0.55930	933	1,143	
25	200	245	18708083	0.55930	933	1,143	
26	390	380	18716858	0.87750	2,854	2,781	
27	585	720	18722615	0.57570	2,809	3,457	
28	680	400	18730917	0.83020	4,708	2,770	
29	560	560	18738056	0.71390	3,334	3,334	
30	490	700	18745257	0.72010	2,943	4,204	
31	635	930	18752634	0.73770	3,907	5,722	
TOTAL				22.65260	114,801	134,453	
AVG.	608	695		0.73073	3,703	4,337	

REVIEWED BY: Mike Andrews DATE: Jan. 11, 1995

APPROVED BY: W K Thompson DATE: Jan. 11, 1995

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — NOVEMBER 1994 — # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	18278890	********	******	******
01	855	300	18285765	0.68750	4,902	1,720
02	900	560	18291524	0.57590	4,323	2,690
03	840	400	18298409	0.68850	4,823	2,297
04	870	1000	18305121	0.67120	4,870	5,598
05	900	820	18312640	0.75190	5,644	5,142
06	735	755	18318029	0.53890	3,303	3,393
07	810	310	18323852	0.58230	3,934	1,505
08	1050	1020	18332239	0.83870	7,344	7,135
09	310	2400	18342970	1.07310	2,774	21,479
10	300	270	18356238	1.32680	3,320	2,988
11	390	860	18367998	1.17600	3,825	8,435
12	400	280	18378865	1.08670	3,625	2,538
13	540	875	18389075	1.02100	4,598	7,451
14	750	270	18394702	0.56270	3,520	1,267
15	1380	355	18401797	0.70950	8,166	2,101
16	635	1870	18412832	1.10350	5,844	17,210
17	510	910	18423240	1.04080	4,427	7,899
18	500	590	18432953	0.97130	4,050	4,779
19	510	440	18443473	1.05200	4,475	3,860
20	480	660	18453298	0.98250	3,933	5,408
21	660	590	18459152	0.58540	3,222	2,881
22	602	210	18469447	1.02950	5,169	1,803
23	500	580	18477632	0.81850	3,413	3,959
24	650	210	18483884	0.62520	3,389	1,095
25	695	260	18490689	0.68050	3,944	1,476
26	720	360	18498158	0.74690	4,485	2,242
27	475	230	18505522	0.73640	2,917	1,413
28	620	330	18512488	0.69660	3,602	1,917
29	665	230	18518859	0.63710	3,533	1,222
30	810	460	18526108	0.72490	4,897	2,781
TOTAL				24.72180	130,273	135,683
AVG.	669	614		0.82406	4,342	4,523

REVIEWED BY: Mike Anderson DATE: Dec 7, 1994

APPROVED BY: Walter L Thompson DATE: Dec. 7, 1994

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — OCTOBER 1994 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	18039430	********	******	******
01	645	650	18048461	0.90310	4,858	4,896
02	625	460	18056568	0.81070	4,226	3,110
03	735	1700	18063308	0.67400	4,132	9,556
04	750	995	18070703	0.73950	4,626	6,137
05	930	1050	18077194	0.64910	5,035	5,684
06	870	280	18085367	0.81730	5,930	1,909
07	765	750	18093844	0.84770	5,408	5,302
08	960	560	18101590	0.77460	6,202	3,618
09	930	210	18107941	0.63510	4,926	1,112
10	765	700	18115264	0.73230	4,672	4,275
11	565	570	18125926	1.06620	5,024	5,069
12	610	750	18135520	0.95940	4,881	6,001
13	600	240	18145984	1.04640	5,236	2,094
14	790	380	18153201	0.72170	4,755	2,287
15	770	1120	18161893	0.86920	5,582	8,119
16	690	240	18169542	0.76490	4,402	1,531
17	840	320	18176292	0.67500	4,729	1,801
18	990	1490	18183303	0.70110	5,789	8,712
19	900	3400	18189964	0.66610	5,000	18,888
20	1020	960	18195834	0.58700	4,993	4,700
21	1140	1780	18201183	0.53490	5,086	7,941
22	1170	710	18207553	0.63700	6,216	3,772
23	1050	1140	18213688	0.61350	5,372	5,833
24	960	1570	18220739	0.70510	5,645	9,232
25	990	2700	18228211	0.74720	6,169	16,825
26	795	2560	18237082	0.88710	5,882	18,940
27	450	590	18247488	1.04060	3,905	5,120
28	610	410	18255865	0.83770	4,262	2,864
29	720	240	18263588	0.77230	4,638	1,546
30	690	340	18270590	0.70020	4,029	1,985
31	780	210	18278890	0.83000	5,399	1,454
TOTAL				23.94600	157,008	180,315
AVG.	810	938		0.77245	5,065	5,817

REVIEWED BY: Mike Andrews DATE: 11/08/94

APPROVED BY: Wally L Thompson DATE: 11-08-94

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF

SEPTEMBER 1994
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	17814683	********	******	******
01	780	620	17820224	0.55410	3,605	2,865
02	1020	180	17826322	0.60980	5,187	915
03	1680	660	17833419	0.70970	9,944	3,906
04	915	200	17840055	0.66360	5,064	1,107
05	765	400	17847855	0.78000	4,976	2,602
06	1530	460	17857394	0.95390	12,172	3,660
07	380	830	17865030	0.76360	2,420	5,286
08	675	230	17872066	0.70360	3,961	1,350
09	770	360	17879865	0.77990	5,008	2,342
10	810	160	17888450	0.85850	5,800	1,146
11	690	280	17896621	0.81710	4,702	1,908
12	930	230	17903454	0.68330	5,300	1,311
13	1050	420	17910802	0.73480	6,435	2,574
14	645	365	17920151	0.93490	5,029	2,846
15	680	310	17926721	0.65700	3,726	1,699
16	710	195	17933096	0.63750	3,775	1,037
17	990	250	17939129	0.60330	4,981	1,258
18	870	190	17944880	0.57510	4,173	911
19	900	1565	17954822	0.99420	7,462	12,976
20	440	2440	17962293	0.74710	2,742	15,203
21	210	1550	17966731	0.44380	777	5,737
22	200	3770	17971992	0.52610	878	16,542
23	200	640	17978335	0.63430	1,058	3,386
24	220	1240	17992213	1.38780	2,546	14,352
25	380	820	18001072	0.88590	2,808	6,058
26	580	440	18009962	0.88900	4,300	3,262
27	540	350	18017809	0.78470	3,534	2,291
28	690	460	18023812	0.60030	3,454	2,303
29	810	250	18032158	0.83460	5,638	1,740
30	840	220	18039430	0.72720	5,094	1,334
TOTAL				22.47470	136,550	123,906
AVG.	730	670		0.74916	4,552	4,130

REVIEWED BY: Nilda Andrews DATE: Oct 7, 1994

APPROVED BY: Walter L Thompson DATE: Oct. 10, 1994

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — AUGUST 1994 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	17551422	********	******	******	
01	685	140	17559772	0.83500	4,770	975	
02	415	350	17573923	1.41510	4,898	4,131	
03	470	620	17585584	1.16610	4,571	6,030	
04	568	530	17597990	1.24060	5,877	5,484	*
05	585	455	17607615	0.96250	4,696	3,652	
06	610	250	17615832	0.82170	4,180	1,713	
07	620	270	17623983	0.81510	4,215	1,835	
08	760	887	17634175	1.01920	6,460	7,540	
09	655	650	17643249	0.90740	4,957	4,919	
10	635	520	17651535	0.82860	4,388	3,593	
11	710	390	17659790	0.82550	4,888	2,685	
12	570	650	17670795	1.10050	5,232	5,966	
13	540	750	17680398	0.96030	4,325	6,007	
14	645	750	17689079	0.86810	4,670	5,430	
15	698	705	17697964	0.88850	5,172	5,224	
16	740	375	17706299	0.83350	5,144	2,607	
17	840	880	17715417	0.91180	6,388	6,692	
18	540	790	17726601	1.11840	5,037	7,369	
19	500	240	17735445	0.88440	3,688	1,770	
20	550	1030	17742913	0.74680	3,426	6,415	
21	650	610	17749635	0.67220	3,644	3,420	
22	1050	520	17756378	0.67430	5,905	2,924	
23	840	220	17768102	1.17240	8,213	2,151	
24	840	440	17775300	0.71980	5,043	2,641	
25	900	280	17780340	0.50400	3,783	1,177	
26	1050	1060	17786950	0.66100	5,788	5,844	
27	990	190	17792277	0.53270	4,398	844	
28	1110	380	17797146	0.48690	4,507	1,543	
29	1215	345	17802144	0.49980	5,065	1,438	
30	1320	520	17808328	0.61840	6,808	2,682	
31	990	820	17814683	0.63550	5,247	4,346	
TOTAL				26.32610	155,382	119,047	
AVG.	751	536		0.84923	5,012	3,840	

REVIEWED BY: Wilma Andrews DATE: Sept 7, 1994

APPROVED BY: Walter L Thompson DATE: Sept 8, 1994

* Denotes 12 day average for BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF

JULY 1994
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	17318824	********	******	******
01	870	970	17323871	0.50470	3,662	4,083
02	750	1090	17328855	0.49840	3,117	4,531
03	870	470	17334296	0.54410	3,948	2,133
04	840	257	17340244	0.59480	4,167	1,275
05	810	360	17345598	0.53540	3,617	1,607
06	1050	220	17350689	0.50910	4,458	934
07	960	890	17356764	0.60750	4,864	4,509
08	720	1440	17362963	0.61990	3,722	7,445
09	685	490	17367471	0.45080	2,575	1,842
10	870	895	17372632	0.51610	3,745	3,852
11	660	480	17379211	0.65790	3,621	2,634
12	610	400	17384750	0.55390	2,818	1,848
13	960	545	17393714	0.89640	7,177	4,074
14	840	350	17402744	0.90300	6,326	2,636
15	520	227	17412419	0.96750	4,196	1,832
16	550	160	17423028	1.06090	4,866	1,416
17	520	105	17432125	0.90970	3,945	797
18	680	450	17439928	0.78030	4,425	2,928
19	490	830	17450356	1.04280	4,262	7,218
20	440	400	17460760	1.04040	3,818	3,471
21	540	250	17469709	0.89490	4,030	1,866
22	615	230	17477968	0.82590	4,236	1,584
23	470	160	17487488	0.95200	3,732	1,270
24	545	200	17496305	0.88170	4,008	1,471
25	460	390	17504170	0.78650	3,017	2,558
26	570	100	17512382	0.82120	3,904	685
27	620	150	17519153	0.67710	3,501	847
28	750	620	17525670	0.65170	4,076	3,370
29	640	120	17535287	0.96170	5,133	962
30	635	310	17543494	0.82070	4,346	2,122
31	585	910	17551422	0.79280	3,868	6,017
TOTAL				23.25980	127,182	83,817
AVG.	681	467		0.75032	4,103	2,704

REVIEWED BY: Mike Andrews DATE: Aug 9, 1994

APPROVED BY: Walter L Thompson DATE: Aug. 9, 1994

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — JUNE 1994 — # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	17094210	********	******	******	
01	565	1175	17101953	0.77430	3,649	7,588	
02	750	300	17109528	0.75750	4,738	1,895	
03	652	512	17116202	0.66740	3,629	2,850	*
04	710	440	17123246	0.70440	4,171	2,585	
05	660	680	17130202	0.69560	3,829	3,945	
06	620	1100	17137126	0.69240	3,580	6,352	
07	560	1250	17144474	0.73480	3,432	7,660	
08	656	728	17153125	0.86510	4,733	5,252	*
09	852	810	17160255	0.71300	5,066	4,817	
10	640	1540	17168583	0.83280	4,445	10,696	
11	690	580	17177151	0.85680	4,931	4,145	
12	635	110	17186093	0.89420	4,736	820	
13	648	740	17194404	0.83110	4,492	5,129	
14	580	490	17200798	0.63940	3,093	2,613	
15	660	810	17208314	0.75160	4,137	5,077	
16	659	720	17215168	0.68540	3,767	4,116	*
17	930	130	17222003	0.68350	5,301	741	
18	720	450	17229242	0.72390	4,347	2,717	
19	870	325	17236408	0.71660	5,200	1,942	
20	900	860	17244026	0.76180	5,718	5,464	
21	380	1320	17254318	1.02920	3,262	11,330	
22	410	470	17265010	1.06920	3,656	4,191	
23	390	850	17273659	0.86490	2,813	6,131	
24	640	287	17280365	0.67060	3,579	1,605	
25	630	210	17287588	0.72230	3,795	1,265	
26	655	340	17293439	0.58510	3,196	1,659	
27	530	1670	17300184	0.67450	2,981	9,394	
28	700	520	17308029	0.78450	4,580	3,402	
29	855	475	17314039	0.60100	4,286	2,381	
30	810	1900	17318824	0.47850	3,232	7,582	
TOTAL				22.46140	122,374	135,346	
AVG.	665	726		0.74871	4,079	4,512	

REVIEWED BY: Mike Andrews DATE: July 7, 1994

APPROVED BY: Walter L. Thompson DATE: July 7, 1994

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF MAY 1994
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	16851Ø7	********	******	******	
Ø1	665	168Ø	16858Ø2	Ø.6995Ø	3,879	9,8Ø1	
Ø2	72Ø	114Ø	16866512	Ø.8Ø1ØØ	4,81Ø	7,616	
Ø3	3ØØ	99Ø	16876314	Ø.98Ø2Ø	2,452	8,Ø93	
Ø4	538	234Ø	16882ØØ9	Ø.6395Ø	2,869	12,48Ø	
Ø5	87Ø	162Ø	16888885	Ø.6176Ø	4,481	8,344	
Ø6	44Ø	92Ø	16896273	Ø.7388Ø	2,711	5,669	
Ø7	59Ø	143Ø	169Ø33Ø7	Ø.7Ø34Ø	3,461	8,389	
Ø8	62Ø	116Ø	1691Ø1Ø5	Ø.6798Ø	3,515	6,577	
Ø9	465	138Ø	16917Ø29	Ø.6924Ø	2,685	7,969	
1Ø	93Ø	167Ø	16924155	Ø.7126Ø	5,527	9,925	
11	9ØØ	194Ø	16931Ø2	Ø.7147Ø	5,365	11,564	
12	66Ø	297Ø	1694Ø144	Ø.8842Ø	4,867	21,9Ø1	
13	61Ø	184Ø	16946861	Ø.6717Ø	3,417	1Ø,3Ø8	
14	6ØØ	133Ø	16952943	Ø.6Ø82Ø	3,Ø43	6,746	
15	6ØØ	2Ø7Ø	16961226	Ø.8283Ø	4,145	14,3ØØ	
16	66Ø	13ØØ	16968539	Ø.7313Ø	4,Ø25	7,929	
17	6ØØ	99Ø	16977833	Ø.9294Ø	4,651	7,674	
18	69Ø	113Ø	16986Ø62	Ø.8229Ø	4,735	7,755	
19	72Ø	21Ø	16994ØØ2	Ø.874ØØ	5,248	1,531	
2Ø	67Ø	14Ø	17ØØ2879	Ø.8Ø77Ø	4,513	943	
21	671	1386	17Ø1Ø2Ø8	Ø.7329Ø	4,1Ø1	8,472	*
22	671	16Ø	17Ø176Ø1	Ø.7393Ø	4,137	987	**
23	69Ø	43Ø	17Ø25917	Ø.8316Ø	4,786	2,982	
24	58Ø	29Ø	17Ø36962	1.1Ø45Ø	5,343	2,671	
25	49Ø	3ØØ	17Ø47435	1.Ø473Ø	4,28Ø	2,62Ø	
26	595	66Ø	17Ø5454Ø	Ø.71Ø5Ø	3,526	3,911	
27	73Ø	132Ø	17Ø6336Ø	Ø.882ØØ	5,37Ø	9,71Ø	
28	64Ø	51Ø	17Ø7Ø933	Ø.7573Ø	4,Ø42	3,221	
29	655	57Ø	17Ø79487	Ø.8554Ø	4,673	4,Ø66	
3Ø	64Ø	28Ø	17Ø86451	Ø.6964Ø	3,717	1,626	
31	84Ø	6ØØ	17Ø9421Ø	Ø.7759Ø	5,436	3,883	
TOTAL				24.27Ø3Ø	129,812	219,661	
AVG.	647	1121		Ø.78291	4,187	7,Ø86	

REVIEWED BY: Mike Andrews DATE: June 7, 1994

APPROVED BY: W.T. Thompson DATE: 6-7-94

** Denotes 12 day average for BOD only.

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF APRIL 1994
DAYS 3Ø

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	16665967	********	******	******
Ø1	72Ø	2ØØ	16672Ø89	Ø.6122Ø	3,676	1,Ø21
Ø2	66Ø	22Ø	1667839Ø	Ø.63Ø1Ø	3,468	1,156
Ø3	69Ø	28Ø	16684367	Ø.5977Ø	3,44Ø	1,396
Ø4	75Ø	26Ø	16689755	Ø.5388Ø	3,37Ø	1,168
Ø5	9ØØ	32Ø	16696373	Ø.6618Ø	4,967	1,766
Ø6	615	8Ø5	167Ø5441	Ø.9Ø68Ø	4,651	6,Ø88
Ø7	63Ø	245	1671141Ø	Ø.5969Ø	3,136	1,22Ø
Ø8	51Ø	25Ø	16716727	Ø.5317Ø	2,262	1,1Ø9
Ø9	9ØØ	64Ø	16721888	Ø.5161Ø	3,874	2,755
1Ø	71Ø	633	16728244	Ø.6356Ø	3,764	3,355
11	6Ø8	21Ø	16735Ø2	Ø.7Ø58Ø	3,579	1,236
12	9ØØ	13Ø	16742524	Ø.7222Ø	5,421	783
13	72Ø	2ØØ	16748438	Ø.5914Ø	3,551	986
14	1Ø5Ø	47Ø	16752375	Ø.3937Ø	3,448	1,543
15	72Ø	184Ø	1675779Ø	Ø.5415Ø	3,252	8,31Ø
16	81Ø	112Ø	1676132	Ø.3512Ø	2,372	3,28Ø
17	975	1125	1676573Ø	Ø.4428Ø	3,6Ø1	4,155
18	9ØØ	64Ø	16771Ø9	Ø.5779Ø	4,338	3,Ø85
19	87Ø	111Ø	16779282	Ø.7773Ø	5,64Ø	7,196
2Ø	38Ø	1Ø8Ø	16786988	Ø.77Ø6Ø	2,442	6,941
21	87Ø	142Ø	16792825	Ø.5837Ø	4,235	6,913
22	96Ø	69Ø	16799369	Ø.6544Ø	5,239	3,766
23	7Ø5	63Ø	168Ø6618	Ø.7249Ø	4,262	3,8Ø9
24	87Ø	43Ø	16811846	Ø.5228Ø	3,793	1,875
25	9ØØ	89Ø	16818Ø52	Ø.62Ø6Ø	4,658	4,6Ø6
26	96Ø	89Ø	16824975	Ø.6923Ø	5,543	5,139
27	775	128Ø	16831794	Ø.6819Ø	4,4Ø7	7,279
28	75Ø	88Ø	1683831	Ø.65Ø7Ø	4,Ø7Ø	4,776
29	6ØØ	124Ø	16844798	Ø.6497Ø	3,251	6,719
3Ø	68Ø	125Ø	16851Ø7	Ø.67Ø9Ø	3,8Ø5	6,994
TOTAL				18.554ØØ	117,516	11Ø,424
AVG.	77Ø	713		Ø.61847	3,917	3,681

REVIEWED BY: Mike Andrews DATE: May 9, 1994

APPROVED BY: Walter L Thompson DATE: May 9, 1994

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — MARCH 1994 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	16491338	********	******	******
Ø1	9ØØ	143	16495482	Ø.4144Ø	3,11Ø	494
Ø2	96Ø	21Ø	16499746	Ø.4264Ø	3,414	747
Ø3	9ØØ	124Ø	165Ø41Ø2	Ø.4356Ø	3,27Ø	4,5Ø5
Ø4	111Ø	54Ø	165Ø92Ø9	Ø.51Ø7Ø	4,728	2,3ØØ
Ø5	111Ø	56Ø	1651355Ø	Ø.4341Ø	4,Ø19	2,Ø27
Ø6	138Ø	265	16517523	Ø.3973Ø	4,573	878
Ø7	114Ø	29Ø	16521219	Ø.3696Ø	3,514	894
Ø8	126Ø	139Ø	16525633	Ø.4414Ø	4,638	5,117
Ø9	81Ø	83Ø	1653Ø13Ø	Ø.4497Ø	3,Ø38	3,113
1Ø	1Ø2Ø	2ØØ	16533573	Ø.3443Ø	2,929	574
11	129Ø	13Ø	16536662	Ø.3Ø89Ø	3,323	335
12	9ØØ	31Ø	16541295	Ø.4633Ø	3,478	1,198
13	93Ø	44Ø	16545592	Ø.4297Ø	3,333	1,577
14	735	26Ø	16551528	Ø.5936Ø	3,639	1,287
15	63Ø	22Ø	16559942	Ø.8414Ø	4,421	1,544
16	52Ø	5ØØ	1657Ø331	1.Ø389Ø	4,5Ø6	4,332
17	72Ø	32Ø	16577988	Ø.7657Ø	4,598	2,Ø44
18	775	55Ø	16583779	Ø.5791Ø	3,743	2,656
19	755	91Ø	16588935	Ø.5156Ø	3,247	3,913
2Ø	87Ø	54Ø	16593938	Ø.5ØØ3Ø	3,63Ø	2,253
21	126Ø	17Ø	16597137	Ø.3199Ø	3,362	454
22	117Ø	2Ø2Ø	166Ø1573	Ø.4436Ø	4,329	7,473
23	1Ø2Ø	72Ø	166Ø7269	Ø.5696Ø	4,845	3,42Ø
24	93Ø	43Ø	16611328	Ø.4Ø59Ø	3,148	1,456
25	1Ø5Ø	34Ø	16615158	Ø.383ØØ	3,354	1,Ø86
26	68Ø	28Ø	16623513	Ø.8355Ø	4,738	1,951
27	655	315	16632135	Ø.8622Ø	4,71Ø	2,265
28	867	491	16639589	Ø.7454Ø	5,39Ø	3,Ø52
29	655	73Ø	16648996	Ø.94Ø7Ø	5,139	5,727
3Ø	51Ø	164Ø	16657462	Ø.8466Ø	3,6Ø1	11,579
31	48Ø	71Ø	16665967	Ø.85Ø5Ø	3,4Ø5	5,Ø36
TOTAL				17.4629Ø	121,169	85,288
AVG.	9Ø3	571		Ø.56332	3,9Ø9	2,751

REVIEWED BY: Mike Andrews DATE: April 6, 1994

APPROVED BY: Walter L. Thompson DATE: April 6, 1994

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — FEBRUARY 1994
DAYS 28

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	16364144	********	******	******	
Ø1	66Ø	33Ø	16369868	Ø.5724Ø	3,151	1,575	
Ø2	1ØØ5	745	16375751	Ø.5883Ø	4,931	3,655	
Ø3	1Ø8Ø	149Ø	16382783	Ø.7Ø32Ø	6,334	8,738	
Ø4	78Ø	22Ø	1638831Ø	Ø.5527Ø	3,595	1,Ø14	
Ø5	81Ø	29Ø	16394Ø3	Ø.6393Ø	4,319	1,546	
Ø6	8Ø5	38Ø	16399255	Ø.4552Ø	3,Ø56	1,443	
Ø7	9ØØ	126Ø	164Ø2825	Ø.357ØØ	2,68Ø	3,751	
Ø8	1Ø2Ø	68Ø	164Ø8496	Ø.5671Ø	4,824	3,216	
Ø9	1Ø8Ø	2ØØ	16411547	Ø.3Ø51Ø	2,748	5Ø9	
1Ø	69Ø	98Ø	16416812	Ø.5265Ø	3,Ø3Ø	4,3Ø3	
11	96Ø	62Ø	1642Ø383	Ø.3571Ø	2,859	1,846	
12	1Ø8Ø	5ØØ	16423791	Ø.34Ø8Ø	3,Ø7Ø	1,421	
13	1Ø35	115	16426797	Ø.3ØØ6Ø	2,595	288	
14	129Ø	1Ø7	16429632	Ø.2835Ø	3,Ø5Ø	253	
15	96Ø	73Ø	16435367	Ø.5735Ø	4,592	3,492	
16	96Ø	63Ø	16438827	Ø.346ØØ	2,77Ø	1,818	
17	141Ø	151Ø	16441876	Ø.3Ø49Ø	3,585	3,84Ø	
18	147Ø	86Ø	16444656	Ø.278ØØ	3,4Ø8	1,994	
19	129Ø	44Ø	16448489	Ø.3833Ø	4,124	1,4Ø7	
2Ø	117Ø	48Ø	16453434	Ø.4945Ø	4,825	1,98Ø	
21	135Ø	58Ø	16458189	Ø.4755Ø	5,354	2,3ØØ	
22	6ØØ	54Ø	16469197	Ø.38127	1,9Ø8	1,717	*
23	215	219	1647ØØ44	Ø.38127	684	696	*
24	7ØØ	39Ø	16475Ø62	Ø.5Ø18Ø	2,93Ø	1,632	
25	72Ø	33Ø	16479568	Ø.45Ø6Ø	2,7Ø6	1,24Ø	
26	45Ø	3ØØ	16484226	Ø.4658Ø	1,748	1,165	
27	141Ø	15Ø	1648784Ø	Ø.3614Ø	4,25Ø	452	
28	825	338	16491338	Ø.3498Ø	2,4Ø7	986	
TOTAL				12.29644	95,531	58,279	
AVG.	954	551		Ø.43916	3,412	2,Ø81	

REVIEWED BY: Mike Anderson DATE: 03/07/94

APPROVED BY: [signature] DATE: 03/07/94

* Denotes 12 average for Flow.

CONTRACT CUSTOMER BILLING DATA

WALDORF JANUARY 1994
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	161Ø57Ø9	********	******	******
Ø1	62Ø	67Ø	16116758	1.1Ø49Ø	5,713	6,174
Ø2	415	815	16127568	1.Ø81ØØ	3,741	7,348
Ø3	395	82Ø	1613985Ø	1.2282Ø	4,Ø46	8,399
Ø4	43Ø	15ØØ	1615Ø926	1.1Ø76Ø	3,972	13,856
Ø5	46Ø	311Ø	16161716	1.Ø79ØØ	4,139	27,986
Ø6	72Ø	232Ø	1617ØØ88	Ø.8372Ø	5,Ø27	16,199
Ø7	785	316Ø	16178989	Ø.89Ø1Ø	5,827	23,458
Ø8	51Ø	173Ø	16191618	1.2629Ø	5,372	18,221
Ø9	63Ø	156Ø	162Ø1294	Ø.9676Ø	5,Ø84	12,589
1Ø	75Ø	196Ø	162Ø8281	Ø.6987Ø	4,37Ø	11,421
11	48Ø	1975	16217Ø56	Ø.8775Ø	3,513	14,454
12	6ØØ	133Ø	16225283	Ø.8227Ø	4,117	9,126
13	63Ø	166Ø	16233681	Ø.8398Ø	4,412	11,627
14	84Ø	254Ø	16241343	Ø.7662Ø	5,368	16,231
15	63Ø	132Ø	16249735	Ø.8392Ø	4,4Ø9	9,239
16	36Ø	256Ø	1626Ø764	1.1Ø29Ø	3,311	23,547
17	355	3465	16271939	1.1175Ø	3,3Ø9	32,294
18	62Ø	2Ø4Ø	16277453	Ø.5514Ø	2,851	9,381
19	69Ø	13ØØ	16282365	Ø.4912Ø	2,827	5,326
2Ø	81Ø	493	1628741Ø	Ø.5Ø45Ø	3,4Ø8	2,Ø74
21	74Ø	32Ø	1629413Ø	Ø.672ØØ	4,147	1,793
22	78Ø	42Ø	163ØØ31Ø	Ø.618ØØ	4,Ø2Ø	2,165
23	625	188	163Ø849Ø	Ø.818ØØ	4,264	1,283
24	81Ø	122	16315351	Ø.6861Ø	4,635	698
25	82Ø	21Ø	16323Ø93	Ø.7742Ø	5,295	1,356
26	4ØØ	39Ø	1633ØØ49	Ø.6956Ø	2,321	2,263
27	69Ø	64Ø	16336Ø38	Ø.5989Ø	3,446	3,197
28	96Ø	21Ø	16342Ø7	Ø.6169Ø	4,939	1,Ø8Ø
29	75Ø	75Ø	1635Ø115	Ø.79Ø8Ø	4,946	4,946
3Ø	42Ø	37Ø	16357999	Ø.7884Ø	2,762	2,433
31	78Ø	23Ø	16364144	Ø.6145Ø	3,997	1,179
TOTAL				25.8435Ø	129,59Ø	3Ø1,342
AVG.	629	1296		Ø.83366	4,18Ø	9,721

REVIEWED BY: Mike Andrews DATE: Feb 7, 1994

APPROVED BY: W L Thompson DATE: Feb. 8, 1994

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — DECEMBER 1993 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	15898742	********	******	******
Ø1	715	117Ø	159Ø4896	Ø.6154Ø	3,67Ø	6,ØØ5
Ø2	23Ø	171Ø	15911Ø52	Ø.6156Ø	1,181	8,779
Ø3	66Ø	119Ø	15917536	Ø.6484Ø	3,569	6,435
Ø4	84Ø	6ØØ	1592Ø8Ø	Ø.5544Ø	3,884	2,774
Ø5	96Ø	62Ø	15929163	Ø.6Ø83Ø	4,87Ø	3,145
Ø6	765	1Ø8Ø	1593749	Ø.8246Ø	5,261	7,427
Ø7	81Ø	97Ø	15942934	Ø.5525Ø	3,732	4,47Ø
Ø8	87Ø	66Ø	15949622	Ø.6688Ø	4,853	3,681
Ø9	78Ø	116Ø	15955764	Ø.6142Ø	3,995	5,942
1Ø	93Ø	227Ø	15961548	Ø.5784Ø	4,486	1Ø,95Ø
11	78Ø	1ØØØ	15967268	Ø.572ØØ	3,721	4,77Ø
12	78Ø	1484	15973315	Ø.6Ø47Ø	3,934	7,484
13	675	22ØØ	1598Ø263	Ø.6948Ø	3,911	12,748
14	72Ø	88Ø	15986922	Ø.6659Ø	3,999	4,887
15	75Ø	115Ø	15993531	Ø.66Ø9Ø	4,134	6,339
16	745	196Ø	16ØØ1148	Ø.7617Ø	4,733	12,451
17	725	167Ø	16ØØ7723	Ø.6575Ø	3,976	9,158
18	9ØØ	161Ø	16Ø14482	Ø.6759Ø	5,Ø73	9,Ø76
19	99Ø	179Ø	16Ø21914	Ø.7432Ø	6,136	11,Ø95
2Ø	9ØØ	125Ø	16Ø27729	Ø.5815Ø	4,365	6,Ø62
21	625	16ØØ	16Ø42457	1.4728Ø	7,677	19,653
22	7Ø	1535	16Ø51435	Ø.8978Ø	524	11,494
23	5Ø	41Ø	AVG	Ø.36Ø6Ø	15Ø	1,233
24	1Ø	66	AVG	Ø.36Ø6Ø	3Ø	198
25	1Ø	66	AVG	Ø.36Ø6Ø	3Ø	198
26	1ØØ	41Ø	16Ø6586Ø	Ø.36Ø6Ø	3Ø1	1,233
27	265	8Ø5	16Ø72879	Ø.7Ø19Ø	1,551	4,712
28	575	259Ø	16Ø8Ø954	Ø.8Ø75Ø	3,872	17,442
29	48Ø	12ØØ	16Ø89877	Ø.8923Ø	3,572	8,93Ø
3Ø	72Ø	129Ø	16Ø98Ø14	Ø.8137Ø	4,886	8,754
31	462	154Ø	161Ø57Ø9	Ø.7695Ø	2,965	9,883
TOTAL				2Ø.6966Ø	1Ø9,Ø42	227,411
AVG.	6Ø9	1224		Ø.66763	3,517	7,336

REVIEWED BY: Mike Anderson DATE: 01/06/94

APPROVED BY: Walter L Thompson DATE: 01-07-94

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF NOVEMBER 1993
DAYS 3Ø

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	1566Ø389	********	******	******
Ø1	81Ø	131Ø	15667195	Ø.68Ø6Ø	4,598	7,436
Ø2	81Ø	1Ø3Ø	15677142	Ø.9947Ø	6,72Ø	8,545
Ø3	39Ø	925	15685421	Ø.8279Ø	2,693	6,387
Ø4	57Ø	121Ø	15695248	Ø.9827Ø	4,672	9,917
Ø5	6ØØ	275	157Ø2Ø92	Ø.6844Ø	3,425	1,57Ø
Ø6	655	5ØØ	157Ø8871	Ø.6779Ø	3,7Ø3	2,827
Ø7	675	137Ø	15717956	Ø.9Ø85Ø	5,114	1Ø,38Ø
Ø8	622	91Ø	157253Ø8	Ø.7352Ø	3,814	5,58Ø
Ø9	625	45Ø	15732Ø72	Ø.6764Ø	3,526	2,539
1Ø	63Ø	41Ø	1573878Ø	Ø.67Ø8Ø	3,525	2,294
11	66Ø	82Ø	1574955Ø	1.Ø77ØØ	5,928	7,365
12	56Ø	81Ø	1575743Ø	Ø.788ØØ	3,68Ø	5,323
13	62Ø	163Ø	15765921	Ø.8491Ø	4,391	11,543
14	555	69Ø	15773588	Ø.7667Ø	3,549	4,412
15	54Ø	16Ø	1578Ø553	Ø.6965Ø	3,137	929
16	51Ø	37Ø	1578711Ø	Ø.6557Ø	2,789	2,Ø23
17	67Ø	47Ø	15794Ø43	Ø.6933Ø	3,874	2,718
18	72Ø	37Ø	158Ø1ØØ8	Ø.6965Ø	4,182	2,149
19	645	82Ø	158Ø7653	Ø.6645Ø	3,575	4,544
2Ø	68Ø	28Ø	1581351Ø	Ø.5857Ø	3,322	1,368
21	63Ø	34Ø	1582Ø4Ø1	Ø.6891Ø	3,621	1,954
22	57Ø	1Ø1Ø	158286Ø8	Ø.82Ø7Ø	3,9Ø1	6,913
23	49Ø	74Ø	15835119	Ø.6511Ø	2,661	4,Ø18
24	495	545	158451Ø7	Ø.9988Ø	4,123	4,54Ø
25	51Ø	29Ø	15855654	1.Ø547Ø	4,486	2,551
26	57Ø	52Ø	15866338	1.Ø684Ø	5,Ø79	4,633
27	582	474	158756Ø9	Ø.9271Ø	4,5ØØ	3,665 *
28	582	474	158864Ø6	1.Ø797Ø	5,241	4,268 *
29	615	1243	15893ØØ7	Ø.66Ø1Ø	3,386	6,843
3Ø	58Ø	199Ø	15898742	Ø.5735Ø	2,774	9,518
TOTAL				23.8353Ø	119,986	148,752
AVG.	6Ø6	748		Ø.79451	4,ØØØ	4,958

REVIEWED BY: Mike Anderson DATE: 12/10/93

APPROVED BY: [signature] DATE: 12-13-93

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF

OCTOBER 1993
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	15441268	********	******	******	
Ø1	81Ø	162Ø	15448762	Ø.7494Ø	5,Ø62	1Ø,125	
Ø2	735	125Ø	15456111	Ø.7349Ø	4,5Ø5	7,661	
Ø3	77Ø	211Ø	15463676	Ø.7565Ø	4,858	13,312	
Ø4	742	1695	15469989	Ø.6313Ø	3,9Ø7	8,924	
Ø5	9ØØ	251Ø	15476816	Ø.6827Ø	5,124	14,291	
Ø6	88Ø	86Ø	15483819	Ø.7ØØ3Ø	5,14Ø	5,Ø23	
Ø7	655	234Ø	15492812	Ø.8993Ø	4,913	17,55Ø	
Ø8	665	148Ø	155Ø1669	Ø.8857Ø	4,912	1Ø,932	
Ø9	675	93Ø	155Ø8986	Ø.7317Ø	4,119	5,675	
1Ø	81Ø	247	15515548	Ø.6562Ø	4,433	1,352	
11	752	1352	15521585	Ø.6Ø37Ø	3,786	6,8Ø7	*
12	752	1352	15528914	Ø.7329Ø	4,597	8,264	*
13	752	1352	15536189	Ø.7275Ø	4,563	8,2Ø3	*
14	635	61Ø	155424Ø4	Ø.6215Ø	3,291	3,162	
15	87Ø	16Ø	155478Ø9	Ø.54Ø5Ø	3,922	721	
16	96Ø	25Ø	15553975	Ø.6166Ø	4,937	1,286	
17	9ØØ	95	15559271	Ø.5296Ø	3,975	42Ø	
18	75Ø	19Ø	1556495Ø	Ø.5679Ø	3,552	9ØØ	
19	81Ø	122Ø	15571586	Ø.6636Ø	4,483	6,752	
2Ø	885	1Ø5Ø	15577557	Ø.5971Ø	4,4Ø7	5,229	
21	84Ø	74Ø	15584223	Ø.6666Ø	4,67Ø	4,114	
22	99Ø	256Ø	1559Ø946	Ø.6723Ø	5,551	14,354	
23	72Ø	244Ø	15596861	Ø.5915Ø	3,552	12,Ø37	
24	725	2Ø4Ø	156Ø3492	Ø.6631Ø	4,ØØ9	11,282	
25	81Ø	2Ø5Ø	1561Ø488	Ø.6996Ø	4,726	11,961	
26	111Ø	282Ø	15617574	Ø.7Ø86Ø	6,56Ø	16,665	
27	87Ø	127Ø	15624543	Ø.6969Ø	5,Ø57	7,381	
28	75Ø	4ØØ	15631122	Ø.6579Ø	4,115	2,195	
29	53Ø	68Ø	15645696	1.4574Ø	6,442	8,265	
3Ø	52Ø	118Ø	15653375	Ø.7679Ø	3,33Ø	7,557	
31	78Ø	42Ø	1566Ø389	Ø.7Ø14Ø	4,563	2,457	
TOTAL				21.9121Ø	141,Ø6Ø	234,858	
AVG.	786	1267		Ø.7Ø684	4,55Ø	7,576	

REVIEWED BY: Mike Andrews DATE: 11/9/93

APPROVED BY: Walter R Thompson DATE: 11/9/93

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — SEPTEMBER 1993 — # DAYS 3Ø

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	****	******	******	152Ø2736	********	******	******	
Ø1	8.Ø	71Ø	1147	15211782	Ø.9Ø46Ø	5,356	8,653	
Ø2	8.1	58Ø	278Ø	15222343	1.Ø561Ø	5,1Ø9	24,486	
Ø3	7.9	61Ø	139Ø	15229558	Ø.7215Ø	3,671	8,364	
Ø4	7.8	66Ø	1Ø7Ø	1523594Ø	Ø.6382Ø	3,513	5,695	
Ø5	8.2	63Ø	76Ø	15243Ø78	Ø.7138Ø	3,75Ø	4,524	
Ø6	NS	64Ø	1491	15252333	Ø.9255Ø	4,94Ø	11,5Ø9	*
Ø7	NS	64Ø	1491	1526Ø321	Ø.7988Ø	4,264	9,933	*
Ø8	NS	64Ø	1491	15267814	Ø.7493Ø	3,999	9,318	*
Ø9	NS	64Ø	1491	15275645	Ø.7831Ø	4,18Ø	9,738	*
1Ø	8.2	5Ø5	66Ø	15283658	Ø.8Ø13Ø	3,375	4,411	
11	7.9	46Ø	116Ø	15294415	1.Ø757Ø	4,127	1Ø,4Ø7	
12	8.1	42Ø	43Ø	153Ø3716	Ø.93Ø1Ø	3,258	3,336	
13	8.3	588	58Ø	15312231	Ø.8515Ø	4,176	4,119	
14	8.2	66Ø	228Ø	1532Ø544	Ø.8313Ø	4,576	15,8Ø7	
15	8.4	665	359Ø	15327651	Ø.71Ø7Ø	3,942	21,279	
16	8.6	7Ø5	434Ø	15335256	Ø.76Ø5Ø	4,472	27,527	
17	8.2	685	161Ø	15341634	Ø.6378Ø	3,644	8,564	
18	8.4	9ØØ	127Ø	15348176	Ø.6542Ø	4,91Ø	6,929	
19	8.1	765	2Ø85	15354137	Ø.5961Ø	3,8Ø3	1Ø,366	
2Ø	8.3	84Ø	126Ø	1536Ø295	Ø.6158Ø	4,314	6,471	
21	8.9	45Ø	189Ø	15374318	1.4Ø23Ø	5,263	22,1Ø4	
22	8.5	5ØØ	435	15382849	Ø.8531Ø	3,557	3,Ø95	
23	8.3	49Ø	81Ø	15391642	Ø.8793Ø	3,593	5,94Ø	
24	8.4	55Ø	385	15399851	Ø.82Ø9Ø	3,765	2,636	
25	8.Ø	61Ø	42Ø	154Ø8464	Ø.8613Ø	4,382	3,Ø17	
26	8.3	52Ø	38Ø	15416Ø8	Ø.7944Ø	3,445	2,518	
27	8.2	84Ø	49Ø	15422657	Ø.6249Ø	4,378	2,554	
28	8.5	72Ø	78Ø	1542Ø53	Ø.6396Ø	* 3,841	4,161	
29	7.8	758	78Ø	15435314	Ø.6261Ø	3,958	4,Ø73	
3Ø	8.2	675	46Ø	15441268	Ø.5954Ø	3,352	2,284	
TOTAL					23.8532Ø	122,912	263,815	
AVG.		635	13Ø7		Ø.79511	4,Ø97	8,794	

REVIEWED BY: Mike DATE: 10/6/93

APPROVED BY: W P Thompson DATE: 10/06/93

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — AUGUST 1993 — # DAYS 31

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	****	******	******	14946Ø29	********	******	******	
Ø1	8.Ø	4ØØ	325	14953999	Ø.797ØØ	2,659	2,16Ø	
Ø2	NS	78Ø	88Ø	14961786	Ø.7787Ø	5,Ø66	5,715	*
Ø3	8.Ø	47Ø	4Ø8	14972ØØ	1.Ø614Ø	4,16Ø	3,612	
Ø4	8.2	42Ø	843	14981964	Ø.9564Ø	3,35Ø	6,724	
Ø5	8.4	65Ø	535	1498841Ø	Ø.6446Ø	3,494	2,876	
Ø6	8.Ø	715	126Ø	14996727	Ø.8317Ø	4,96Ø	8,74Ø	
Ø7	8.1	58Ø	46Ø	15ØØ6427	Ø.97ØØØ	4,692	3,721	
Ø8	7.9	63Ø	185Ø	15Ø14621	Ø.8194Ø	4,3Ø5	12,643	
Ø9	8.3	592	895	15Ø21735	Ø.7114Ø	3,512	5,31Ø	
1Ø	8.2	7Ø5	284	15Ø28Ø61	Ø.6326Ø	3,719	1,498	
11	8.3	685	1Ø4Ø	15Ø3529Ø	Ø.7229Ø	4,13Ø	6,27Ø	
12	8.Ø	84Ø	188Ø	15Ø43498	Ø.82Ø8Ø	5,75Ø	12,869	
13	8.1	61Ø	215Ø	15Ø52663	Ø.9165Ø	4,663	16,434	
14	8.1	53Ø	74Ø	15Ø64Ø52	1.1389Ø	5,Ø34	7,Ø29	
15	8.Ø	385	995	15Ø76813	1.2761Ø	4,Ø97	1Ø,589	
16	8.4	44Ø	345	15Ø84434	Ø.7621Ø	2,797	2,193	
17	8.3	75Ø	36Ø	15Ø9Ø814	Ø.638ØØ	3,991	1,916	
18	8.Ø	84Ø	136Ø	15Ø98Ø11	Ø.7197Ø	5,Ø42	8,163	
19	NS	636	992	151Ø4943	Ø.6932Ø	3,677	5,735	*
2Ø	NS	636	992	15112129	Ø.7186Ø	3,812	5,945	*
21	8.Ø	63Ø	69Ø	15119Ø87	Ø.6958Ø	3,656	4,ØØ4	
22	7.9	66Ø	13ØØ	15126396	Ø.73Ø9Ø	4,Ø23	7,924	
23	8.Ø	63Ø	138Ø	1513Ø7Ø	Ø.7674Ø	4,Ø32	8,832	
24	8.Ø	72Ø	925	15142928	Ø.8858Ø	5,319	6,834	
25	8.Ø	632	1416	15151418	Ø.849ØØ	4,475	1Ø,Ø26	
26	7.9	58Ø	296Ø	1516Ø179	Ø.8761Ø	4,238	21,628	
27	7.9	56Ø	147Ø	15169824	Ø.9645Ø	4,5Ø5	11,825	
28	8.Ø	645	156Ø	151778ØØ	Ø.7976Ø	4,291	1Ø,377	
29	7.9	685	144Ø	15187356	Ø.9556Ø	5,459	11,476	
3Ø	7.9	69Ø	158Ø	15195263	Ø.79Ø7Ø	4,55Ø	1Ø,419	
31	8.Ø	69Ø	1Ø6Ø	152Ø2736	Ø.7473Ø	4,3ØØ	6,6Ø6	
TOTAL					25.67Ø7Ø	131,758	24Ø,Ø94	
AVG.		626	11Ø9		Ø.828Ø9	4,25Ø	7,745	

REVIEWED BY: Mike Anderson DATE: 09/09/93

APPROVED BY: Walter L Thompson DATE: 09-09-93

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — JULY 1993 — # DAYS 31

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	****	******	******	14691653	********	******	******
01	9.0	310	2570	14706923	1.52700	3,948	32,729
02	8.4	220	800	14718215	1.12920	2,072	7,534
03	8.3	510	960	14729432	1.12170	4,771	8,981
04	8.3	525	1640	14743153	1.37210	6,008	18,767
05	8.2	585	2510	14754575	1.14220	5,573	23,910
06	8.1	460	840	14762971	0.83960	3,221	5,882
07	7.9	570	625	14771070	0.80990	3,850	4,222
08	8.3	560	1170	14780416	0.93460	4,365	9,120
09	8.0	590	1453	14788343	0.79270	3,901	9,606
10	8.0	635	1500	14796127	0.77840	4,122	9,738
11	8.1	775	3330	14804348	0.82210	5,314	22,832
12	8.0	670	1455	14812914	0.85660	4,787	10,395
13	8.3	695	1180	14820289	0.73750	4,275	7,258
14	8.5	660	750	14826772	0.64830	3,569	4,055
15	8.1	870	330	14833681	0.69090	5,013	1,901
16	8.2	755	612	14840808	0.71270	4,488	3,638
17	8.2	635	375	14847379	0.65710	3,480	2,055
18	8.0	720	1120	14855565	0.81860	4,916	7,646
19	8.1	595	860	14861682	0.61170	3,035	4,387
20	8.1	780	755	14867423	0.57410	3,735	3,615
21	8.2	840	1430	14874868	0.74450	5,216	8,879
22	7.9	735	392	14881470	0.66020	4,047	2,158
23	8.1	840	480	14888144	0.66740	4,676	2,672
24	8.2	900	275	14894301	0.61570	4,621	1,412
25	8.0	798	225	14902222	0.79210	5,272	1,486
26	8.1	720	1130	14908555	0.63330	3,803	5,968
27	7.9	750	1155	14914311	0.57560	3,600	5,545
28	8.1	1020	1400	14919583	0.52720	4,485	6,156
29	7.9	960	1620	14930009	1.04260	8,347	14,086
30	8.6	620	1560	14937223	0.72140	3,730	9,386
31	8.1	635	655	14946029	0.88060	4,664	4,810
TOTAL					25.43760	136,900	260,829
AVG.		675	1134		0.82057	4,416	8,414

REVIEWED BY: Mike Anderson DATE: 08/10/93

APPROVED BY: Walter L. Thompson DATE: 08/10/93

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — JUNE 1993 — # DAYS 30

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	****	******	******	14512624	********	******	******	
01	NS	788	1434	14517743	0.51190	3,364	6,122	*
02	8.1	960	890	14524681	0.69380	5,555	5,150	
03	7.7	810	1240	14531600	0.69190	4,674	7,155	
04	8.1	690	1250	14538262	0.66620	3,834	6,945	
05	8.2	695	900	14546957	0.86950	5,040	6,526	
06	8.1	670	1760	14554610	0.76530	4,276	11,233	
07	8.0	730	318	14561836	0.72260	4,399	1,916	
08	8.7	720	218	14568750	0.69140	4,152	1,257	
09	8.2	810	498	14575947	0.71970	4,862	2,989	
10	8.2	530	490	14584097	0.81500	3,602	3,331	
11	8.2	675	285	14591993	0.78960	4,445	1,877	
12	8.3	760	72	14598417	0.64240	4,072	386	
13	8.1	725	520	14605616	0.71990	4,353	3,122	
14	8.8	575	520	14614396	0.87800	4,210	3,808	
15	8.1	610	46	14620516	0.61200	3,113	235	
16	8.1	550	330	14627381	0.68650	3,149	1,889	
17	8.4	630	700	14636177	0.87960	4,622	5,135	
18	8.2	730	610	14643048	0.68710	4,183	3,496	
19	8.0	650	790	14655516	1.24680	6,759	8,215	
20	8.0	575	310	14664337	0.88210	4,230	2,281	
21	8.9	570	1220	14672256	0.79190	3,765	8,057	
22	9.0	610	5650	14674839	0.25830	1,314	12,171	
23	11.4	410	3520	14677881	0.30420	1,040	8,930	
24	8.9	360	2560	14679656	0.17750	533	3,790	
25	8.6	210	2470	14682191	0.25350	444	5,222	
26	8.4	10	265	14684087	0.18960	16	419	
27	8.3	20	455	14685699	0.16120	27	612	
28	8.3	120	2020	14687601	0.19020	190	3,204	
29	8.3	30	965	14688400	0.07990	20	643	
30	9.1	45	1075	14691653	0.32530	122	2,916	
TOTAL					17.90290	94,366	129,033	
AVG.		542	1113		0.59676	3,146	4,301	

REVIEWED BY: Mike DATE: 07/07/93

APPROVED BY: W L Thompson DATE: 07-08-93

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — MAY 1993 — # DAYS 31

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	****	******	******	143Ø2Ø85	********	******	******
Ø1	7.8	59Ø	57Ø	14310984	Ø.8899Ø	4,379	4,23Ø
Ø2	7.7	52Ø	61Ø	1432ØØ33	Ø.9Ø49Ø	3,924	4,6Ø4
Ø3	7.9	56Ø	68Ø	14325602	Ø.5569Ø	2,6Ø1	3,158
Ø4	8.2	6ØØ	98Ø	14332931	Ø.7329Ø	3,667	5,99Ø
Ø5	8.5	84Ø	128Ø	14338Ø24	Ø.5Ø93Ø	3,568	5,437
Ø6	8.Ø	69Ø	58Ø	14344Ø81	Ø.6Ø57Ø	3,486	2,93Ø
Ø7	8.Ø	84Ø	59Ø	14350463	Ø.6382Ø	4,471	3,14Ø
Ø8	7.8	84Ø	75Ø	14356857	Ø.6394Ø	4,479	3,999
Ø9	8.2	87Ø	97Ø	14363Ø5Ø	Ø.6193Ø	4,494	5,Ø1Ø
1Ø	7.7	75Ø	1215	14371836	Ø.8786Ø	5,496	8,9Ø3
11	8.Ø	62Ø	162Ø	14379658	Ø.7822Ø	4,Ø45	1Ø,568
12	8.2	61Ø	143Ø	14387564	Ø.79Ø6Ø	4,Ø22	9,429
13	8.Ø	7ØØ	1Ø5Ø	14393658	Ø.6Ø94Ø	3,558	5,337
14	8.3	66Ø	12ØØ	144ØØ395	Ø.6737Ø	3,7Ø8	6,742
15	8.1	84Ø	145Ø	14406991	Ø.6596Ø	4,621	7,977
16	8.Ø	75Ø	131Ø	14413668	Ø.6677Ø	4,176	7,295
17	8.2	84Ø	152Ø	14421479	Ø.7811Ø	5,472	9,9Ø2
18	7.7	53Ø	1Ø1Ø	14429Ø14	Ø.7535Ø	3,331	6,347
19	8.Ø	72Ø	85Ø	14435677	Ø.6663Ø	4,ØØ1	4,723
2Ø	8.2	96Ø	96Ø	14441Ø84	Ø.54Ø7Ø	4,329	4,329
21	8.Ø	87Ø	255Ø	14447368	Ø.6284Ø	4,56Ø	13,364
22	7.9	87Ø	1Ø8Ø	1445358Ø	Ø.6212Ø	4,5Ø7	5,595
23	8.3	7Ø5	135Ø	14460466	Ø.6886Ø	4,Ø49	7,753
24	8.Ø	81Ø	136Ø	1446573	Ø.5237Ø	3,538	5,94Ø
25	7.8	93Ø	161Ø	14471423	Ø.572ØØ	4,437	7,68Ø
26	8.1	78Ø	2265	14478Ø1	Ø.7478Ø	4,865	14,126
27	8.Ø	49Ø	114Ø	14486447	Ø.7546Ø	3,Ø84	7,174
28	8.4	53Ø	67Ø	14494Ø3	Ø.8456Ø	3,738	4,725
29	8.2	7Ø5	97Ø	145ØØ348	Ø.5445Ø	3,2Ø1	4,4Ø5
3Ø	8.1	72Ø	1485	145Ø7274	Ø.6926Ø	4,159	8,578
31	7.9	96Ø	212Ø	14512624	Ø.535ØØ	4,283	9,459
TOTAL					21.Ø539Ø	126,247	2Ø8,851
AVG.		732	12Ø1		Ø.67916	4,Ø72	6,737

REVIEWED BY: Nilda Andrews DATE: 06/07/93

APPROVED BY: Cathy L Thompson DATE: 06/11/93

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — APRIL 1993 — # DAYS 3Ø

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	****	******	******	497847	********	******	******	
Ø1	7.8	35Ø	7ØØ	5Ø4Ø43	Ø.6196Ø	1,8Ø9	3,617	
Ø2	8.2	61Ø	158Ø	5Ø9486	Ø.5443Ø	2,769	7,172	
Ø3	8.Ø	745	73Ø	514394	Ø.49Ø8Ø	3,Ø49	2,988	
Ø4	8.Ø	84Ø	89Ø	519Ø26	Ø.4632Ø	3,245	3,438	
Ø5	7.3	725	1Ø38	141Ø3516	Ø.3563Ø	2,154	3,Ø84	*
Ø6	7.6	725	1Ø38	14112427	Ø.8911Ø	5,388	7,714	*
Ø7	7.7	725	1Ø38	14123151	1.Ø724Ø	6,484	9,284	*
Ø8	7.9	725	1Ø38	14135333	1.2182Ø	7,366	1Ø,546	*
Ø9	7.5	725	1Ø38	1414362Ø	Ø.8287Ø	5,Ø11	7,174	*
1Ø	8.1	725	1Ø38	14151345	Ø.7725Ø	4,671	6,687	*
11	7.8	725	1Ø38	14159179	Ø.7834Ø	4,737	6,782	*
12	7.6	725	1Ø38	14168865	Ø.9686Ø	5,857	8,385	*
13	8.2	725	1Ø38	14177Ø4	Ø.8439Ø	5,1Ø3	7,3Ø6	*
14	8.2	725	1Ø38	14185ØØ	Ø.7796Ø	4,714	6,749	*
15	7.9	65Ø	95Ø	1419139Ø	Ø.629ØØ	3,41Ø	4,984	
16	8.Ø	675	75Ø	142Ø2Ø99	1.Ø7Ø9Ø	6,Ø29	6,698	
17	7.9	64Ø	79Ø	1421Ø9Ø1	Ø.88Ø2Ø	4,698	5,799	
18	8.1	66Ø	54Ø	14217584	Ø.6683Ø	3,679	3,Ø1Ø	
19	8.3	668	445	14224576	Ø.6992Ø	3,895	2,595	
2Ø	8.Ø	69Ø	126Ø	1423Ø576	Ø.6ØØØØ	3,453	6,3Ø5	
21	8.4	72Ø	48Ø	14235312	Ø.4736Ø	2,844	1,896	
22	7.8	629	87Ø	14241689	Ø.6377Ø	3,345	4,627	*
23	NS	64Ø	7ØØ	1425Ø123	Ø.8434Ø	4,5Ø2	4,924	
24	8.1	585	95Ø	14258795	Ø.8672Ø	4,231	6,871	
25	8.Ø	43Ø	334	14267311	Ø.8516Ø	3,Ø54	2,372	
26	7.6	6ØØ	55Ø	14273583	Ø.6272Ø	3,139	2,877	
27	8.Ø	66Ø	46Ø	14281272	Ø.7689Ø	4,232	2,95Ø	
28	8.2	66Ø	43Ø	14287777	Ø.65Ø5Ø	3,581	2,333	
29	7.9	66Ø	79Ø	14295ØØ6	Ø.7229Ø	3,979	4,763	
3Ø	8.Ø	66Ø	87Ø	143Ø2Ø85	Ø.7Ø79Ø	3,897	5,136	
TOTAL					22.3311Ø	124,323	159,Ø67	
AVG.		667	848		Ø.74437	4,144	5,3Ø2	

REVIEWED BY: Mike DATE: 05/10/93

APPROVED BY: Walter K Thompson DATE: 05/10/93

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — APRIL 1993 — # DAYS 3Ø

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	****	******	******	497847	********	******	******	
Ø1	7.8	35Ø	7ØØ	5Ø4Ø43	Ø.6196Ø	1,8Ø9	3,617	
Ø2	8.2	61Ø	158Ø	5Ø9486	Ø.5443Ø	2,769	7,172	
Ø3	8.Ø	745	73Ø	514394	Ø.49Ø8Ø	3,Ø49	2,988	
Ø4	8.Ø	84Ø	89Ø	519Ø26	Ø.4632Ø	3,245	3,438	
Ø5	7.3	725	1Ø38	141Ø3516	Ø.3563Ø	2,154	3,Ø84	*
Ø6	7.6	725	1Ø38	14112427	Ø.8911Ø	5,388	7,714	*
Ø7	7.7	725	1Ø38	14123151	1.Ø724Ø	6,484	9,284	*
Ø8	7.9	725	1Ø38	14135333	1.2182Ø	7,366	1Ø,546	*
Ø9	7.5	725	1Ø38	1414362Ø	Ø.8287Ø	5,Ø11	7,174	*
1Ø	8.1	725	1Ø38	14151345	Ø.7725Ø	4,671	6,687	*
11	7.8	725	1Ø38	14159179	Ø.7834Ø	4,737	6,782	*
12	7.6	725	1Ø38	14168865	Ø.9686Ø	5,857	8,385	*
13	8.2	725	1Ø38	14177Ø4	Ø.8439Ø	5,1Ø3	7,3Ø6	*
14	8.2	725	1Ø38	14185ØØ	Ø.7796Ø	4,714	6,749	*
15	7.9	65Ø	95Ø	1419139Ø	Ø.629ØØ	3,41Ø	4,984	
16	8.Ø	675	75Ø	142Ø2Ø99	1.Ø7Ø9Ø	6,Ø29	6,698	
17	7.9	64Ø	79Ø	1421Ø9Ø1	Ø.88Ø2Ø	4,698	5,799	
18	8.1	66Ø	54Ø	14217584	Ø.6683Ø	3,679	3,Ø1Ø	
19	8.3	668	445	14224576	Ø.6992Ø	3,895	2,595	
2Ø	8.Ø	69Ø	126Ø	1423Ø576	Ø.6ØØØØ	3,453	6,3Ø5	
21	8.4	72Ø	48Ø	14235312	Ø.4736Ø	2,844	1,896	
22	7.8	629	87Ø	14241689	Ø.6377Ø	3,345	4,627	*
23	NS	64Ø	7ØØ	1425Ø123	Ø.8434Ø	4,5Ø2	4,924	
24	8.1	585	95Ø	14258795	Ø.8672Ø	4,231	6,871	
25	8.Ø	43Ø	334	14267311	Ø.8516Ø	3,Ø54	2,372	
26	7.6	6ØØ	55Ø	14273583	Ø.6272Ø	3,139	2,877	
27	8.Ø	66Ø	46Ø	14281272	Ø.7689Ø	4,232	2,95Ø	
28	8.2	66Ø	43Ø	14287777	Ø.65Ø5Ø	3,581	2,333	
29	7.9	66Ø	79Ø	14295ØØ6	Ø.7229Ø	3,979	4,763	
3Ø	8.Ø	66Ø	87Ø	143Ø2Ø85	Ø.7Ø79Ø	3,897	5,136	
TOTAL					22.3311Ø	124,323	159,Ø67	
AVG.		667	848		Ø.74437	4,144	5,3Ø2	

REVIEWED BY: Wile DATE: 05/10/93

APPROVED BY: Walter R Thompson DATE: 05/10/93

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — FEBRUARY 1993 — # DAYS 28

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	****	******	******	ISCO	********	******	******	
Ø1	8.Ø	855	1Ø3Ø	ISCO	Ø.9218Ø	6,573	7,918	
Ø2	7.8	63Ø	3Ø4Ø	ISCO	Ø.7Ø82Ø	3,721	17,955	
Ø3	8.1	75Ø	141Ø	ISCO	Ø.7Ø19Ø	4,39Ø	8,254	
Ø4	8.Ø	69Ø	222Ø	ISCO	Ø.5359Ø	3,Ø84	9,922	
Ø5	7.9	99Ø	28ØØ	ISCO	Ø.8395Ø	6,931	19,6Ø4	
Ø6	7.8	78Ø	239Ø	ISCO	Ø.8526Ø	5,546	16,995	
Ø7	7.7	765	1755	ISCO	Ø.8793Ø	5,61Ø	12,87Ø	
Ø8	7.7	975	2Ø4Ø	ISCO	Ø.2435Ø	1,98Ø	4,143	
Ø9	7.4	87Ø	26ØØ	ISCO	Ø.3343Ø	2,426	7,249	
1Ø	7.8	53Ø	129Ø	ISCO	Ø.5Ø72Ø	2,242	5,457	
11	8.Ø	57Ø	95Ø	ISCO	Ø.4374Ø	2,Ø79	3,466	
12	7.9	67Ø	127Ø	ISCO	Ø.3234Ø	1,8Ø7	3,425	
13	7.7	685	111Ø	ISCO	Ø.3ØØ6Ø	1,717	2,783	
14	7.9	63Ø	334Ø	ISCO	Ø.2596Ø	1,364	7,231	
15	7.9	64Ø	376Ø	ISCO	Ø.1687Ø	9ØØ	5,29Ø	
16	7.5	25Ø	129Ø	ISCO	Ø.49Ø2Ø	1,Ø22	5,274	
17	NS	712	1989	ISCO	Ø.3543Ø	2,1Ø4	5,877	*
18	8.Ø	57Ø	173Ø	ISCO	Ø.549ØØ	2,61Ø	7,921	
19	7.6	57Ø	14ØØ	ISCO	Ø.6645Ø	3,159	7,759	
2Ø	7.7	615	126Ø	ISCO	Ø.6235Ø	3,198	6,552	
21	7.5	69Ø	248Ø	ISCO	Ø.5874Ø	3,38Ø	12,149	
22	7.8	64Ø	1925	ISCO	Ø.6886Ø	3,675	11,Ø55	
23	NS	612	171Ø	ISCO	Ø.5571Ø	2,843	7,945	*
24	7.8	69Ø	143Ø	ISCO	Ø.6Ø43Ø	3,478	7,2Ø7	
25	7.7	66Ø	216Ø	ISCO	Ø.535ØØ	2,945	9,638	
26	8.Ø	81Ø	251Ø	ISCO	Ø.42Ø5Ø	2,841	8,8Ø2	
27	7.7	75Ø	312Ø	ISCO	Ø.8118Ø	5,Ø78	21,124	
28	7.6	825	2285	ISCO	Ø.6244Ø	4,296	11,899	
TOTAL					15.5245Ø	91,ØØ1	255,764	
AVG.		694	2Ø11		Ø.55445	3,25Ø	9,134	

REVIEWED BY: Mike Anderson DATE: 03/08/93

APPROVED BY: Walter L Thompson DATE: 03/08/93

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — JANUARY 1993 — # DAYS 31

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	****	******	******	136Ø4289	********	******	******	
Ø1	7.4	62Ø	139Ø	13611Ø51	Ø.6762Ø	3,496	7,839	
Ø2	7.3	63Ø	292Ø	13619366	Ø.8315Ø	4,369	2Ø,249	
Ø3	NS	392	1634	13629347	Ø.9981Ø	3,263	13,6Ø2	*
Ø4	7.Ø	45Ø	346Ø	13637Ø93	Ø.8556Ø	3,211	24,69Ø	
Ø5	7.1	61Ø	198Ø	1364191Ø	Ø.4ØØ7Ø	2,Ø39	6,617	
Ø6	7.Ø	65Ø	122Ø	13647921	Ø.6Ø11Ø	3,259	6,116	
Ø7	7.3	6Ø5	166Ø	13655Ø17	Ø.7Ø96Ø	3,58Ø	9,824	
Ø8	7.5	6ØØ	1Ø2Ø	ISCO	Ø.4382Ø	2,193	3,728	
Ø9	NS	565	19Ø3	ISCO	Ø.4124Ø	1,943	6,545	*
1Ø	8.2	625	54Ø	ISCO	Ø.3986Ø	2,Ø78	1,795	
11	NS	565	19Ø3	ISCO	Ø.3534Ø	1,665	5,6Ø9	*
12	7.8	81Ø	1785	ISCO	Ø.5392Ø	3,643	8,Ø27	
13	NS	565	19Ø3	ISCO	Ø.4Ø49Ø	1,9Ø8	6,426	*
14	7.9	9ØØ	138Ø	ISCO	Ø.47Ø6Ø	3,532	5,416	
15	8.Ø	68Ø	146Ø	ISCO	Ø.7195Ø	4,Ø8Ø	8,761	
16	7.9	5ØØ	1Ø9Ø	ISCO	Ø.7195Ø	3,ØØØ	6,541	
17	7.8	668	155Ø	ISCO	Ø.6846Ø	3,814	8,85Ø	
18	7.7	685	148Ø	ISCO	Ø.5716Ø	3,265	7,Ø55	
19	7.8	66Ø	128Ø	ISCO	Ø.64Ø4Ø	3,525	6,836	
2Ø	8.1	46Ø	341Ø	ISCO	Ø.6982Ø	2,679	19,856	
21	7.6	62Ø	223Ø	ISCO	Ø.5748Ø	2,972	1Ø,69Ø	
22	7.8	68Ø	14ØØ	ISCO	Ø.5412Ø	3,Ø69	6,319	
23	7.6	75Ø	355	ISCO	Ø.7318Ø	4,577	2,167	
24	7.9	71Ø	665	ISCO	Ø.819ØØ	4,85Ø	4,542	
25	7.8	825	1815	ISCO	Ø.8Ø55Ø	5,542	12,193	
26	7.8	678	325	ISCO	Ø.9Ø92Ø	5,141	2,464	*
27	NS	678	1332	ISCO	Ø.7574Ø	4,283	8,414	*
28	8.1	49Ø	183Ø	ISCO	Ø.6843Ø	2,796	1Ø,444	
29	8.1	635	179Ø	ISCO	Ø.5657Ø	2,996	8,445	
3Ø	7.9	87Ø	272Ø	ISCO	Ø.527ØØ	3,824	11,955	
31	7.8	1Ø2Ø	297Ø	ISCO	Ø.6728Ø	5,723	16,665	
TOTAL					19.7126Ø	1Ø6,317	278,681	
AVG.		651	169Ø		Ø.63589	3,43Ø	8,99Ø	

REVIEWED BY: Mike Anderson DATE: 02/08/93

APPROVED BY: Walter Thompson DATE: 02/08/93

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF

DECEMBER 1992
DAYS 31

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	****	******	******	13420301	********	******	******	
01	6.9	660	2010	13426233	0.59320	3,265	9,944	
02	7.5	602	590	13432540	0.63070	3,167	3,103	
03	7.2	750	1600	13437463	0.49230	3,079	6,569	
04	7.6	690	1600	13441668	0.42050	2,420	5,611	
05	7.5	750	1530	13448876	0.72080	4,509	9,198	
06	7.0	685	2080	13454652	0.57760	3,300	10,020	
07	7.0	645	1265	13459343	0.46910	2,523	4,949	
08	7.2	690	1400	13462234	0.28910	1,664	3,376	
09	7.3	750	700	13469828	0.75940	4,750	4,433	
10	7.0	810	1700	13475300	0.54720	3,697	7,758	
11	7.0	780	1390	13483177	0.78770	5,124	9,131	
12	7.1	625	1150	13488724	0.55470	2,891	5,320	
13	7.4	690	1320	13495538	0.68140	3,921	7,501	
14	7.4	620	1270	13501605	0.60670	3,137	6,426	
15	7.2	530	1290	13513758	1.21530	5,372	13,075	
16	7.4	350	1840	13520178	0.64200	1,874	9,852	
17	7.2	540	2330	13525835	0.56570	2,548	10,993	
18	7.5	900	3670	13532837	0.70020	5,256	21,432	
19	7.0	990	2570	13539923	0.70860	5,851	15,188	
20	7.7	694	1626	13545479	0.55560	3,216	7,534	*
21	7.3	840	4290	13552794	0.73150	5,125	26,172	
22	7.5	280	3610	13553643	0.08490	198	2,556	
23	8.7	80	520	13554375	0.07320	49	317	
24	8.3	110	690	AVG	0.03905	36	225	
25	8.3	110	690	13555156	0.03905	36	225	
26	8.1	210	965	13564927	0.97710	1,711	7,864	
27	7.6	390	845	13574414	0.94870	3,086	6,686	
28	7.0	465	3260	13582824	0.84100	3,261	22,865	
29	7.2	530	2260	13589942	0.71180	3,146	13,416	
30	7.2	665	1320	13595992	0.60500	3,355	6,660	
31	7.2	570	2000	13604289	0.82970	3,944	13,839	
TOTAL					18.39880	95,510	272,240	
AVG.		581	1722		0.59351	3,081	8,782	

REVIEWED BY: [signature] DATE: 01/06/93

APPROVED BY: [signature] DATE: 01/06/93

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — NOVEMBER 1992 — # DAYS 3Ø

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	****	******	******	13214718	********	******	******	
Ø1	8.3	64Ø	96Ø	1322Ø876	Ø.6158Ø	3,287	4,93Ø	
Ø2	7.8	51Ø	7Ø7	13226Ø32	Ø.5156Ø	2,193	3,Ø4Ø	
Ø3	8.1	68Ø	98Ø	13233164	Ø.7132Ø	4,Ø45	5,829	
Ø4	8.3	375	1Ø2Ø	13241558	Ø.8394Ø	2,625	7,141	
Ø5	8.2	54Ø	158Ø	13248659	Ø.71Ø1Ø	3,198	9,357	
Ø6	7.9	6ØØ	141Ø	13254727	Ø.6Ø68Ø	3,Ø36	7,136	
Ø7	8.Ø	72Ø	12ØØ	13261814	Ø.7Ø87Ø	4,256	7,Ø93	
Ø8	7.9	66Ø	15ØØ	13268861	Ø.7Ø47Ø	3,879	8,816	
Ø9	7.9	668	1Ø94	13275889	Ø.7Ø28Ø	3,915	6,412	
1Ø	7.8	78Ø	188Ø	13283614	Ø.7725Ø	5,Ø25	12,112	
11	NS	617	125Ø	13291243	Ø.7629Ø	3,926	7,953	*
12	NS	617	125Ø	13299Ø81	Ø.7838Ø	4,Ø33	8,171	*
13	6.8	51Ø	2467	133Ø6832	Ø.7751Ø	3,297	15,948	
14	6.4	635	7Ø8Ø	13314257	Ø.7425Ø	3,932	43,843	
15	6.5	655	27ØØ	1332126Ø	Ø.7ØØ3Ø	3,826	15,769	
16	7.Ø	692	229Ø	13327951	Ø.6691Ø	3,862	12,779	
17	7.1	62Ø	147Ø	13335Ø6	Ø.7455Ø	3,855	9,14Ø	
18	6.5	81Ø	395Ø	13340748	Ø.5342Ø	3,6Ø9	17,598	
19	6.5	69Ø	276Ø	133469Ø6	Ø.6158Ø	3,544	14,175	
2Ø	6.9	69Ø	277Ø	13355425	Ø.8519Ø	4,9Ø2	19,68Ø	
21	6.6	81Ø	282Ø	13363665	Ø.824ØØ	5,566	19,379	
22	6.9	855	2285	1337ØØ75	Ø.641ØØ	4,571	12,215	
23	6.9	84Ø	2Ø4Ø	13376Ø36	Ø.5961Ø	4,176	1Ø,142	
24	7.Ø	71Ø	188Ø	13383282	Ø.7246Ø	4,291	11,361	
25	6.9	63Ø	135Ø	13389794	Ø.6512Ø	3,422	7,332	
26	7.1	655	9ØØ	1339662Ø	Ø.6826Ø	3,729	5,124	
27	7.Ø	64Ø	173Ø	134Ø2624	Ø.6ØØ4Ø	3,2Ø5	8,663	
28	6.8	84Ø	188Ø	134Ø6759	Ø.4135Ø	2,897	6,483	
29	7.6	81Ø	154Ø	13415227	Ø.8468Ø	5,72Ø	1Ø,876	
3Ø	NS	748	21Ø6	1342Ø3Ø1	Ø.5Ø74Ø	3,165	8,912	*
TOTAL					2Ø.5583Ø	114,986	337,4Ø9	
AVG.		675	1962		Ø.68528	3,833	11,247	

REVIEWED BY: Mike Anderson DATE: 12/7/92

APPROVED BY: Walter L Thompson DATE: 12/8/92

* Denotes 12 average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

WALDORF — OCTOBER 1992 — # DAYS 31

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	****	******	******	12981724	********	******	******	
Ø1	8.Ø	53Ø	197Ø	12989251	Ø.7527Ø	3,327	12,367	
Ø2	7.9	67Ø	18ØØ	12996ØØ9	Ø.6958Ø	3,888	1Ø,445	
Ø3	7.9	55Ø	92Ø	13ØØ4383	Ø.8174Ø	3,749	6,272	
Ø4	7.8	55Ø	1Ø65	13Ø1329Ø	Ø.89Ø7Ø	4,Ø86	7,911	
Ø5	NS	7Ø8	1866	13Ø221Ø6	Ø.8816Ø	5,2Ø6	13,72Ø	*
Ø6	7.8	57Ø	11ØØ	13Ø3Ø75Ø	Ø.8644Ø	4,1Ø9	7,93Ø	
Ø7	8.1	56Ø	196Ø	13Ø39596	Ø.8846Ø	4,131	14,46Ø	
Ø8	7.8	5ØØ	191Ø	13Ø49264	Ø.9668Ø	4,Ø32	15,4Ø1	
Ø9	NS	624	1756	13Ø55229	Ø.5965Ø	3,1Ø4	8,736	*
1Ø	NS	624	1756	13Ø611Ø4	Ø.5875Ø	3,Ø57	8,6Ø4	*
11	NS	624	1756	13Ø67357	Ø.6253Ø	3,254	9,158	*
12	8.Ø	78Ø	441Ø	13Ø72287	Ø.493ØØ	3,2Ø7	18,132	
13	NS	624	1789	13Ø78764	Ø.6477Ø	3,371	9,664	*
14	NS	624	1789	13Ø84888	Ø.6124Ø	3,187	9,137	*
15	7.5	96Ø	259Ø	13Ø9Ø618	Ø.573ØØ	4,588	12,377	
16	8.Ø	9ØØ	15ØØ	13Ø97Ø55	Ø.6437Ø	4,832	8,Ø53	
17	8.Ø	78Ø	1Ø6Ø	131Ø5648	Ø.8593Ø	5,59Ø	7,597	
18	8.Ø	645	169Ø	13115539	Ø.9891Ø	5,321	13,941	
19	8.3	655	274Ø	13123561	Ø.8Ø22Ø	4,382	18,332	
2Ø	8.2	69Ø	2Ø7Ø	1313Ø928	Ø.7367Ø	4,239	12,718	
21	8.4	4ØØ	171Ø	1314Ø977	1.ØØ49Ø	3,352	14,331	
22	8.3	78Ø	188Ø	13147898	Ø.6921Ø	4,5Ø2	1Ø,852	
23	8.Ø	59Ø	158Ø	13158365	1.Ø467Ø	5,15Ø	13,793	
24	8.2	66Ø	198Ø	13166542	Ø.8177Ø	4,5Ø1	13,5Ø3	
25	7.6	54Ø	114Ø	13176259	Ø.9717Ø	4,376	9,239	
26	7.8	652	2Ø8Ø	13181931	Ø.5672Ø	3,Ø84	9,839	
27	8.Ø	66Ø	154Ø	13189243	Ø.7312Ø	4,Ø25	9,391	
28	8.2	72Ø	229Ø	13194Ø97	Ø.4854Ø	2,915	9,27Ø	
29	8.Ø	9ØØ	394Ø	13199ØØ4	Ø.55Ø7Ø	4,134	18,Ø96	
3Ø	8.2	96Ø	198Ø	132Ø4273	Ø.4669Ø	3,738	7,71Ø	
31	8.Ø	36Ø	875	13214718	1.Ø445Ø	3,136	7,622	
TOTAL					23.2994Ø	123,574	348,599	
AVG.		658	1887		Ø.75159	3,986	11,245	

REVIEWED BY: _____ DATE: 11-6-92

APPROVED BY: _____ DATE: 11/6/92

* Denotes 12 day average for Suspended Solids and BOD.

Revised

CONTRACT CUSTOMER BILLING DATA

WALDORF

SEPTEMBER 1992
DAYS 30

DATE		pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV		****	******	******	12783938	********	******	******
01		7.8	450	2570	12790683	0.67450	2,531	14,457
02		7.7	730	1330	12796294	0.56110	3,416	6,224
03		7.9	930	1490	12801928	0.56340	4,370	7,001
04		7.8	840	1260	12806229	0.43010	3,013	4,520
05		7.9	840	1390	12811128	0.48990	3,432	5,679
06		7.6	930	2240	12816968	0.58400	4,530	10,910
07		7.6	1050	2750	12822870	0.59020	5,168	13,536
08		7.8	900	4340	12829029	0.61590	4,623	22,293
09		7.4	550	2140	12834751	0.57220	2,625	10,212
10		7.7	870	2870	12842105	0.73540	5,336	17,602
11		7.7	930	3020	12848022	0.59170	4,589	14,903
12		7.7	840	1920	12854483	0.64610	4,526	10,346
13		7.7	768	1660	12862199	0.77160	4,942	10,682
14		7.9	650	1750	12869967	0.77680	4,211	11,337
15		7.6	600	2750	12876424	0.64570	3,231	14,809
16		7.4	595	1710	12882962	0.65380	3,244	9,324
17		7.8	740	2140	12888563	0.56010	3,457	9,996
18		7.7	840	1730	12893596	0.50330	3,526	7,262
19		8.0	725	1270	12901847	0.82510	4,989	8,739
20	AVG	7.8	718	1994	12908436	0.65890	3,946	10,957
21	AVG	9.2	718	1994	12915103	0.66670	3,992	11,087
22	AVG	7.3	718	1994	12923846	0.87430	5,235	14,540
23	AVG	7.0	718	1994	12930399	0.65530	3,924	10,898
24		7.4	960	2250	12936339	0.59400	4,756	11,146
25		7.5	960	2630	12942831	0.64920	5,198	14,240
26		7.9	780	2220	12951584	0.87530	5,694	16,206
27		7.8	630	1550	12960037	0.84530	4,441	10,927
28		7.6	795	2170	12965655	0.56180	3,725	10,167
29		7.7	780	2540	12972379	0.67240	4,374	14,244
30		7.9	570	1820	12981724	0.93450	4,442	14,185
TOTAL						19.77860	125,488	348,431
AVG.		7.7	771	2116		0.65929	4,183	11,614

REVIEWED BY: Mike Adams DATE: 10/26/92

APPROVED BY: [signature] DATE: 10/27/92

REVISED BY: Mike Adams DATE: 10/26/92

CONTRACT CUSTOMER BILLING DATA

WALDORF

SEPTEMBER 1992
DAYS 30

DATE		pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV		****	******	******	12783938	********	******	******
01		7.8	450	2570	12790683	0.67450	2,531	14,457
02		7.7	730	1330	12796294	0.56110	3,416	6,224
03		7.9	930	1490	12801928	0.56340	4,370	7,001
04		7.8	840	1260	12806229	0.43010	3,013	4,520
05		7.9	840	1390	12811128	0.48990	3,432	5,679
06		7.6	930	2240	12816968	0.58400	4,530	10,910
07		7.6	1050	2750	12822870	0.59020	5,168	13,536
08		7.8	900	4340	12829029	0.61590	4,623	22,293
09		7.4	550	2140	12834751	0.57220	2,625	10,212
10		7.7	870	2870	12842105	0.73540	5,336	17,602
11		7.7	930	3020	12848022	0.59170	4,589	14,903
12		7.7	840	1920	12854483	0.64610	4,526	10,346
13		7.7	768	1660	12862199	0.77160	4,942	10,682
14		7.9	650	1750	12869967	0.77680	4,211	11,337
15		7.6	600	2750	12876424	0.64570	3,231	14,809
16		7.4	595	1710	12882962	0.65380	3,244	9,324
17		7.8	740	2140	12888563	0.56010	3,457	9,996
18		7.7	840	1730	12893596	0.50330	3,526	7,262
19		8.0	725	1270	12901847	0.82510	4,989	8,739
20	AVG	7.8	718	1994	12908436	0.65890	3,946	10,957
21	AVG	9.2	718	1994	12915103	0.66670	3,992	11,087
22	AVG	7.3	718	1994	12923846	0.87430	5,235	14,540
23	AVG	7.0	718	1994	12930399	0.65530	3,924	10,898
24		7.4	960	2250	12936339	0.59400	4,756	11,146
25		7.5	960	2630	12942831	0.64920	5,198	14,240
26		7.9	780	2220	12951584	0.87530	5,694	16,206
27		7.8	630	1550	12960037	0.84530	4,441	10,927
28		7.6	795	2170	12965655	0.56180	3,725	10,167
29		7.7	780	2540	12972379	0.67240	4,374	14,244
30		7.9	570	1820	12981724	0.93450	4,442	14,185
TOTAL						19.77860	125,488	348,431
AVG.		7.7	771	2116		0.65929	4,183	11,614

REVIEWED BY: [signature] DATE: 10/26/92

APPROVED BY: [signature] DATE: 10/27/92

REVISED BY: [signature] DATE: 10/26/92

CONTRACT CUSTOMER BILLING DATA

WALDORF — SEPTEMBER 1992 — # DAYS 3Ø

DATE		pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV		****	******	******	12783938	********	******	******
Ø1		7.8	45Ø	257Ø	12790683	Ø.6745Ø	2,531	14,457
Ø2		7.7	73Ø	133Ø	12796294	Ø.5611Ø	3,416	6,224
Ø3		7.9	93Ø	149Ø	128Ø1928	Ø.5634Ø	4,37Ø	7,ØØ1
Ø4		7.8	84Ø	126Ø	128Ø6229	Ø.43Ø1Ø	3,Ø13	4,52Ø
Ø5		7.9	84Ø	139Ø	12811128	Ø.4899Ø	3,432	5,679
Ø6		7.6	93Ø	224Ø	12816968	Ø.584ØØ	4,53Ø	1Ø,91Ø
Ø7		7.6	1Ø5Ø	275Ø	1282287Ø	Ø.59Ø2Ø	5,168	13,536
Ø8		7.8	9ØØ	434Ø	12829Ø29	Ø.6159Ø	4,623	22,293
Ø9		7.4	55Ø	214Ø	12834751	Ø.5722Ø	2,625	1Ø,212
1Ø		7.7	87Ø	287Ø	12842Ø5	Ø.7354Ø	5,336	17,6Ø2
11		7.7	93Ø	3Ø2Ø	12848Ø22	Ø.5917Ø	4,589	14,9Ø3
12		7.7	84Ø	192Ø	12854483	Ø.6461Ø	4,526	1Ø,346
13		7.7	768	166Ø	12862199	Ø.7716Ø	4,942	1Ø,682
14		7.9	65Ø	175Ø	12869967	Ø.7768Ø	4,211	11,337
15		7.6	6ØØ	275Ø	12876424	Ø.6457Ø	3,231	14,8Ø9
16		7.4	595	171Ø	12882962	Ø.6538Ø	3,244	9,324
17		7.8	74Ø	214Ø	12888563	Ø.56Ø1Ø	3,457	9,996
18		7.7	84Ø	173Ø	12893596	Ø.5Ø33Ø	3,526	7,262
19		8.Ø	725	127Ø	129Ø1847	Ø.8251Ø	4,989	8,739
2Ø	AVG	7.8	718	1994	129Ø8436	Ø.6589Ø	3,946	1Ø,957
21	AVG	9.2	718	1994	12915Ø3	Ø.6667Ø	3,992	11,Ø87
22	AVG	7.3	718	1994	12923846	Ø.8743Ø	5,235	14,54Ø
23	AVG	7.Ø	718	1994	12930399	Ø.6553Ø	3,924	1Ø,898
24		7.4	96Ø	225Ø	12936339	Ø.594ØØ	4,756	11,146
25		7.5	96Ø	263Ø	12942831	Ø.6492Ø	5,198	14,24Ø
26		7.9	78Ø	222Ø	12951584	Ø.8753Ø	5,694	16,2Ø6
27		7.8	63Ø	155Ø	1296ØØ37	Ø.8453Ø	4,441	1Ø,927
28		7.6	795	217Ø	12965655	Ø.5618Ø	3,725	1Ø,167
29		7.7	78Ø	254Ø	12972379	Ø.6724Ø	4,374	14,244
3Ø		7.9	57Ø	182Ø	12981724	Ø.9345Ø	4,442	14,185
TOTAL						19.7786Ø	125,488	348,431
AVG.		7.7	771	2116		Ø.65929	4,183	11,614

REVIEWED BY:_____ DATE:_____

APPROVED BY:_____ DATE:_____

REVISED BILL

CONTRACT CUSTOMER BILLING DATA

WALDORF

SEPTEMBER 1992
DAYS 30

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	12783938	********	******	******
01	7.8	450	2570	12790683	0.67450	2,531	14,457
02	7.7	730	1330	12796294	0.56110	3,416	6,224
03	7.9	930	1490	12801928	0.56340	4,370	7,001
04	7.8	840	1260	12806229	0.43010	3,013	4,520
05	7.9	840	1390	12811128	0.48990	3,432	5,679
06	7.6	930	2240	12816968	0.58400	4,530	10,910
07	7.6	1050	2750	12822870	0.59020	5,168	13,536
08	7.8	900	4340	12829029	0.61590	4,623	22,293
09	7.4	550	2140	12834751	0.57220	2,625	10,212
10	7.7	870	2870	12842105	0.73540	5,336	17,602
11	7.7	930	3020	12848022	0.59170	4,589	14,903
12	7.7	840	1920	12854483	0.64610	4,526	10,346
13	7.7	768	1660	12862199	0.77160	4,942	10,682
14	7.9	650	1750	12869967	0.77680	4,211	11,337
15	7.6	600	2750	12876424	0.64570	3,231	14,809
16	7.4	595	1710	12882962	0.65380	3,244	9,324
17	7.8	740	2140	12888563	0.56010	3,457	9,996
18	7.7	840	1730	12893596	0.50330	3,526	7,262
19	8.0	725	1270	12901847	0.82510	4,989	8,739
20	7.8	550	1500	12908436	0.65890	3,022	8,243
21	9.2	620	2160	12915103	0.66670	3,447	12,010
22	7.3	900	3030	12923846	0.87430	6,562	22,094
23	7.0	1020	6390	12930399	0.65530	5,575	34,923
24	7.4	960	2250	12936339	0.59400	4,756	11,146
25	7.5	960	2630	12942831	0.64920	5,198	14,240
26	7.9	780	2220	12951584	0.87530	5,694	16,206
27	7.8	630	1550	12960037	0.84530	4,441	10,927
28	7.6	795	2170	12965655	0.56180	3,725	10,167
29	7.7	780	2540	12972379	0.67240	4,374	14,244
30	7.9	570	1820	12981724	0.93450	4,442	14,185
TOTAL					19.77860	126,997	378,219
AVG.	7.7	778	2286		0.65929	4,233	12,607

REVIEWED BY: Chris DATE: 10/9/92

APPROVED BY: [signature] DATE: 10/8/92

ORIGINAL BILL

CONTRACT CUSTOMER BILLING DATA

WALDORF — AUGUST 1992 — # DAYS 31

DATE		pH (S.U	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV		****	******	******	1261366Ø	********	******	******
Ø1		7.8	715	249Ø	12619756	Ø.6Ø96Ø	3,635	12,659
Ø2		7.9	87Ø	335Ø	12626228	Ø.6472Ø	4,696	18,Ø82
Ø3		7.9	9ØØ	271Ø	1263ıØ15	Ø.4787Ø	3,593	1Ø,819
Ø4		8.Ø	75Ø	161Ø	12636191	Ø.5176Ø	3,238	6,95Ø
Ø5		8.Ø	78Ø	22ØØ	1264Ø976	Ø.4785Ø	3,113	8,78Ø
Ø6		7.7	93Ø	263Ø	12645596	Ø.462ØØ	3,583	1Ø,134
Ø7		7.6	96Ø	321Ø	12650117	Ø.4521Ø	3,62Ø	12,1Ø3
Ø8		8.1	81Ø	216Ø	12654332	Ø.4215Ø	2,847	7,593
Ø9		7.8	87Ø	194Ø	12659665	Ø.5333Ø	3,87Ø	8,629
1Ø		8.Ø	1Ø8Ø	183Ø	12666Ø18	Ø.6353Ø	5,722	9,696
11		7.9	96Ø	285Ø	12671763	Ø.5745Ø	4,6ØØ	13,655
12		7.5	1Ø5	5Ø15	1267623Ø	Ø.4467Ø	3,744	18,683
13		7.6	81Ø	229Ø	12681372	Ø.5142Ø	3,474	9,821
14	AVG	7.2	894	2649	12685Ø2	Ø.413ØØ	3,Ø79	9,124
15		7.4	1Ø5Ø	295Ø	1269ØØ81	Ø.4579Ø	4,Ø1Ø	11,266
16		7.6	93Ø	282Ø	12696109	Ø.6Ø28Ø	4,675	14,177
17		7.7	1Ø5	471Ø	127ØØ64Ø	Ø.4531Ø	3,798	17,798
18		8.1	1Ø5Ø	16ØØ	12705555	Ø.4915Ø	4,3Ø4	6,559
19	AVG	7.4	957	2852	12711416	Ø.5861Ø	4,678	13,941
2Ø		7.8	93Ø	297Ø	12716776	Ø.536ØØ	4,157	13,277
21		8.Ø	87Ø	2Ø3Ø	1272243Ø	Ø.5654Ø	4,1Ø2	9,572
22		8.1	72Ø	117Ø	12729Ø92	Ø.6662Ø	4,ØØØ	6,5Ø1
23		7.8	975	44ØØ	12734Ø5	Ø.5113Ø	4,158	18,763
24		7.6	93Ø	223Ø	12741922	Ø.7717Ø	5,985	14,352
25		7.8	675	212Ø	12747793	Ø.5871Ø	3,3Ø5	1Ø,38Ø
26		8.Ø	87Ø	211Ø	12752377	Ø.4584Ø	3,326	8,Ø67
27		7.8	99Ø	193Ø	12757319	Ø.4942Ø	4,Ø8Ø	7,955
28		7.7	93Ø	213Ø	12761406	Ø.4Ø87Ø	3,17Ø	7,26Ø
29		7.8	9ØØ	37ØØ	1276562Ø	Ø.4214Ø	3,163	13,ØØ4
3Ø		7.8	69Ø	157Ø	12774781	Ø.9161Ø	5,272	11,995
31		8.Ø	575	139Ø	12783938	Ø.9157Ø	4,391	1Ø,615
TOTAL						17.Ø278Ø	123,389	352,21Ø
AVG.		7.8	883	2568		Ø.54928	3,98Ø	11,362

REVIEWED BY: Mde DATE: 10/26/92

APPROVED BY: [signature] DATE: 10/27/92

REVISED BY: Mde DATE: 10/26/92

CONTRACT CUSTOMER BILLING DATA

WALDORF

AUGUST 1992
DAYS 31

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	12613660	********	******	******
01	7.8	715	2490	12619756	0.60960	3,635	12,659
02	7.9	870	3350	12626228	0.64720	4,696	18,082
03	7.9	900	2710	12631015	0.47870	3,593	10,819
04	8.0	750	1610	12636191	0.51760	3,238	6,950
05	8.0	780	2200	12640976	0.47850	3,113	8,780
06	7.7	930	2630	12645596	0.46200	3,583	10,134
07	7.6	960	3210	12650117	0.45210	3,620	12,103
08	8.1	810	2160	12654332	0.42150	2,847	7,593
09	7.8	870	1940	12659665	0.53330	3,870	8,629
10	8.0	1080	1830	12666018	0.63530	5,722	9,696
11	7.9	960	2850	12671763	0.57450	4,600	13,655
12	7.5	1005	5015	12676230	0.44670	3,744	18,683
13	7.6	810	2290	12681372	0.51420	3,474	9,821
14	7.2	1410	5730	12685502	0.41300	4,857	19,737
15	7.4	1050	2950	12690081	0.45790	4,010	11,266
16	7.6	930	2820	12696109	0.60280	4,675	14,177
17	7.7	1005	4710	12700640	0.45310	3,798	17,798
18	8.1	1050	1600	12705555	0.49150	4,304	6,559
19	7.4	930	4970	12711416	0.58610	4,546	24,294
20	7.8	930	2970	12716776	0.53600	4,157	13,277
21	8.0	870	2030	12722430	0.56540	4,102	9,572
22	8.1	720	1170	12729092	0.66620	4,000	6,501
23	7.8	975	4400	12734205	0.51130	4,158	18,763
24	7.6	930	2230	12741922	0.77170	5,985	14,352
25	7.8	675	2120	12747793	0.58710	3,305	10,380
26	8.0	870	2110	12752377	0.45840	3,326	8,067
27	7.8	990	1930	12757319	0.49420	4,080	7,955
28	7.7	930	2130	12761406	0.40870	3,170	7,260
29	7.8	900	3700	12765620	0.42140	3,163	13,004
30	7.8	690	1570	12774781	0.91610	5,272	11,995
31	8.0	575	1390	12783938	0.91570	4,391	10,615
TOTAL					17.02780	125,035	373,175
AVG.	7.8	899	2736		0.54928	4,033	12,038

REVIEWED BY: Chris DATE: 9/9/92

APPROVED BY: WTF DATE: 9-9-92

CONTRACT CUSTOMER BILLING DATA

WALDORF

JULY 1992
DAYS 31

DATE		pH (S.U	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV		****	******	******	12411542	********	******	******
01		7.6	795	1185	12419838	0.829600	5,500	8,199
02		7.6	810	2840	12424506	0.466800	3,153	11,056
03		8.3	900	1513	12430015	0.550900	4,135	6,951
04		7.6	510	1510	12436666	0.665100	2,829	8,376
05		7.5	550	1460	12441903	0.523700	2,402	6,377
06		8.1	1305	1750	12445282	0.337900	3,678	4,932
07		8.1	1020	2080	12450001	0.471900	4,014	8,186
08		7.8	1020	1620	12455325	0.532400	4,529	7,193
09		7.9	530	893	12464876	0.955100	4,222	7,113
10		7.8	780	2680	12471225	0.634900	4,130	14,191
11		7.5	930	2140	12478825	0.760000	5,895	13,564
12		7.8	765	1435	12485692	0.686700	4,381	8,218
13		7.9	740	1530	12492178	0.648600	4,003	8,276
14	AVG	8.0	822	1788	12497578	0.540000	3,702	8,052
15	AVG	7.2	822	1788	12503312	0.573400	3,931	8,550
16	AVG	7.4	822	1788	12508329	0.501700	3,439	7,481
17	AVG	8.6	822	1788	12513358	0.502900	3,448	7,499
18	AVG	8.1	822	1788	12519269	0.591100	4,052	8,814
19	AVG	7.0	822	1788	12524915	0.564600	3,871	8,419
20	AVG	7.5	822	1788	12533173	0.825800	5,661	12,314
21	AVG	8.6	822	1788	12541772	0.859900	5,895	12,823
22	AVG	7.9	822	1788	12553061	1.128900	7,739	16,834
23	AVG	8.0	822	1788	12562088	0.902700	6,188	13,461
24	AVG	7.4	822	1788	12570357	0.826900	5,669	12,331
25		7.8	750	1890	12578706	0.834900	5,222	13,160
26		7.9	810	1830	12586607	0.790100	5,337	12,059
27		7.9	975	1395	12591975	0.536800	4,365	6,245
28		8.0	930	2900	12596884	0.490900	3,808	11,873
29		8.3	960	3280	12602350	0.546600	4,376	14,952
30		8.0	750	2120	12608911	0.656100	4,104	11,600
31		7.7		2630	12613660	0.474900	0	10,417
TOTAL						20.211800	133,680	309,519
AVG.		7.8	802	1882		0.65199	4,312	9,984

REVIEWED BY: _____ DATE: 10/26/92

APPROVED BY: _____ DATE: 10/27/92

REVISED BY: _____ DATE: 10/26/92

CONTRACT CUSTOMER BILLING DATA

WALDORF

JULY 1992
DAYS 31

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	12411542	********	******	******
01	7.6	795	1185	12419838	0.82960	5,500	8,199
02	7.6	810	2840	12424506	0.46680	3,153	11,056
03	8.3	900	1513	12430015	0.55090	4,135	6,951
04	7.6	510	1510	12436666	0.66510	2,829	8,376
05	7.5	550	1460	12441903	0.52370	2,402	6,377
06	8.1	1305	1750	12445282	0.33790	3,678	4,932
07	8.1	1020	2080	12450001	0.47190	4,014	8,186
08	7.8	1020	1620	12455325	0.53240	4,529	7,193
09	7.9	530	893	12464876	0.95510	4,222	7,113
10	7.8	780	2680	12471225	0.63490	4,130	14,191
11	7.5	930	2140	12478825	0.76000	5,895	13,564
12	7.8	765	1435	12485692	0.68670	4,381	8,218
13	7.9	740	1530	12492178	0.64860	4,003	8,276
14	8.0	500	5480	12497578	0.54000	2,252	24,680
15	7.2	1290	3220	12503312	0.57340	6,169	15,399
16	7.4	900	3810	12508329	0.50170	3,766	15,942
17	8.6	1320	8120	12513358	0.50290	5,536	34,057
18	8.1	1440	3390	12519269	0.59110	7,099	16,712
19	7.0	1170	8390	12524915	0.56460	5,509	39,507
20	7.5	750	1100	12533173	0.82580	5,165	7,576
21	8.6	190	1240	12541772	0.85990	1,363	8,893
22	7.9	350	864	12553061	1.12890	3,295	8,135
23	8.0	640	2400	12562088	0.90270	4,818	18,068
24	7.4	780	3600	12570357	0.82690	5,379	24,827
25	7.8	750	1890	12578706	0.83490	5,222	13,160
26	7.9	810	1830	12586607	0.79010	5,337	12,059
27	7.9	975	1395	12591975	0.53680	4,365	6,245
28	8.0	930	2900	12596884	0.49090	3,808	11,873
29	8.3	960	3280	12602350	0.54660	4,376	14,952
30	8.0	750	2120	12608911	0.65610	4,104	11,600
31	7.7	840	2630	12613660	0.47490	3,327	10,417
TOTAL					20.21180	133,763	406,733
AVG.	7.8	839	2590		0.65199	4,315	13,120

REVIEWED BY: Diane M Noonan DATE: 8-6-92

APPROVED BY: WZ DATE: 8-10-92

CONTRACT CUSTOMER BILLING DATA

WALDORF — JUNE 1992 — # DAYS 30

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	12249265	********	******	******
01	7.7	815	1430	12255037	0.57720	3,923	6,884
02	7.4	780	1020	12259254	0.42170	2,743	3,587
03	4.6	810	1160	12265267	0.60130	4,062	5,817
04	8.0	810	3400	12271795	0.65280	4,410	18,511
05	5.7	765	1960	12275462	0.36670	2,340	5,994
06	7.7	630	1210	12280243	0.47810	2,512	4,825
07	7.5	930	1230	12286166	0.59230	4,594	6,076
08	8.0	1110	1680	12290611	0.44450	4,115	6,228
09	7.6	930	1700	12295780	0.51690	4,009	7,329
10	5.2	900	1860	12300350	0.45700	3,430	7,089
11	8.0	840	720	12303890	0.35400	2,480	2,126
12	7.7	1140	1320	12307906	0.40160	3,818	4,421
13	7.6	1200	1980	12312479	0.45730	4,577	7,551
14	6.4	1320	1440	12318512	0.60330	6,642	7,245
15	8.1	745	2500	12324416	0.59040	3,668	12,310
16	7.7	1020	2570	12330400	0.59840	5,090	12,826
17	7.8	900	2385	12334113	0.37130	2,787	7,385
18	7.3	1200	7390	12338133	0.40200	4,023	24,776
19	7.7	1380	2630	12344149	0.60160	6,924	13,196
20	7.3	1050	2830	12349344	0.51950	4,549	12,261
21	7.7	505	1960	12355186	0.58420	2,460	9,550
22	6.8	700	2430	12364122	0.89360	5,217	18,110
23	8.1	400	1970	12373830	0.97080	3,239	15,950
24	8.1	840	1310	12379811	0.59810	4,190	6,534
25	7.9	720	1840	12386130	0.63190	3,794	9,697
26	9.3	1020	2110	12389871	0.37410	3,182	6,583
27	7.7	810	940	12394344	0.44730	3,022	3,507
28	7.9	690	1600	12401695	0.73510	4,230	9,809
29	7.2	670	1580	12407325	0.56300	3,146	7,419
30	8.3	810	1590	12411542	0.42170	2,849	5,592
TOTAL					16.22770	116,026	269,189
AVG.	7.5	881	1992		0.54092	3,868	8,973

REVIEWED BY: _____ DATE: 7/10/92

APPROVED BY: _____ DATE: 7/13/92

CONTRACT CUSTOMER BILLING DATA

WALDORF

MAY 1992
DAYS 31

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	12050963	********	******	******
01	6.9	932	1884	12056816	0.58530	4,549	9,197
02	7.1	932	1884	12063291	0.64750	5,033	10,174
03	7.3	932	1884	12069285	0.59940	4,659	9,418
04	7.1	932	1884	12079664	1.03790	8,067	16,308
05	7.7	932	1884	12085914	0.62500	4,858	9,820
06	7.3	932	1884	12091722	0.58080	4,514	9,126
07	7.1	932	1884	12098483	0.67610	5,255	10,623
08	7.4	932	1884	12104292	0.58090	4,515	9,127
09	7.4	840	650	12109904	0.56120	3,932	3,042
10	7.4	780	1070	12117171	0.72670	4,727	6,485
11	7.0	930	885	12123950	0.67790	5,258	5,004
12	7.4	960	2420	12128215	0.42650	3,415	8,608
13	7.8	900	1330	12132963	0.47480	3,564	5,267
14	7.3	1050	1760	12137264	0.43010	3,766	6,313
15	7.5	1020	980	12141439	0.41750	3,552	3,412
16	7.0	810	850	12149206	0.77670	5,247	5,506
17	7.3	795	1325	12157956	0.87500	5,802	9,669
18	7.8	750	1290	12162751	0.47950	2,999	5,159
19	7.6	870	1790	12166604	0.38530	2,796	5,752
20	6.7	1020	2340	12171026	0.44220	3,762	8,630
21	6.8	1020	2000	12175940	0.49140	4,180	8,197
22	6.5	990	3260	12179895	0.39550	3,265	10,753
23	7.0	1020	1390	12185419	0.55240	4,699	6,404
24	7.3	870	2290	12192740	0.73210	5,312	13,982
25	7.9	690	520	12198871	0.61310	3,528	2,659
26	7.7	680	2290	12206192	0.73210	4,152	13,982
27	8.7	878	3370	12211707	0.55150	4,038	15,500
28	8.4	430	545	12219796	0.80890	2,901	3,677
29	8.1	700	590	12229331	0.95350	5,567	4,692
30	7.8	400	1670	12239677	1.03460	3,451	14,410
31	7.9	580	2220	12249265	0.95880	4,638	17,752
TOTAL					19.83020	136,002	268,647
AVG.	7.4	853	1674		0.63968	4,387	8,666

REVIEWED BY: Chris DATE: 6/12/92

APPROVED BY: WLF DATE: 6-15-92

CONTRACT CUSTOMER BILLING DATA

WALDORF

APRIL 1992
DAYS 30

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	11888678	********	******	******
01	7.4	1140	2480	11892553	0.38750	3,684	8,015
02	7.6	840	2350	11896633	0.40800	2,858	7,996
03	7.7	1140	3260	11900066	0.34330	3,264	9,334
04	7.7	720	2300	11904031	0.39650	2,381	7,606
05	7.5	855	2620	11908664	0.46330	3,304	10,123
06	7.3	1320	1450	11913051	0.43870	4,830	5,305
07	7.3	660	2840	11918030	0.49790	2,741	11,793
08	6.7	600	980	11924339	0.63090	3,157	5,156
09	8.2	1170	500	11930792	0.64530	6,297	2,691
10	7.7	1440	560	11936418	0.56260	6,757	2,628
11	7.9	610	2190	11941710	0.52920	2,692	9,666
12	7.5	810	2830	11947085	0.53750	3,631	12,686
13	7.5	932	1884	11951905	0.48200	3,747	7,573
14	7.4	932	1884	11956153	0.42480	3,302	6,675
15	7.6	932	1884	11961680	0.55270	4,296	8,684
16	7.4	932	1884	11968369	0.66890	5,199	10,510
17	7.8	932	1884	11973295	0.49260	3,829	7,740
18	7.7	932	1884	11978340	0.50450	3,921	7,927
19	7.2	932	1884	11984383	0.60430	4,697	9,495
20	7.5	932	1884	11989049	0.46660	3,627	7,331
21	7.6	932	1884	11996501	0.74520	5,792	11,709
22	9.2	932	1884	12004897	0.83960	6,526	13,192
23	7.9	932	1884	12012015	0.71180	5,533	11,184
24	8.2	932	1884	12017707	0.56920	4,424	8,944
25	7.5	932	1884	12023542	0.58350	4,535	9,168
26	7.2	932	1884	12028258	0.47160	3,666	7,410
27	7.4	932	1884	12033495	0.52370	4,071	8,229
28	7.4	932	1884	12038475	0.49800	3,871	7,825
29	7.4	932	1884	12043424	0.49490	3,847	7,776
30	7.2	932	1884	12050963	0.75390	5,860	11,846
TOTAL					16.22850	126,338	256,218
AVG.	7.6	936	1942		0.54095	4,211	8,541

REVIEWED BY: Chris DATE: 5-20-92

APPROVED BY: WAP DATE: 5-20-92

Revised bill

CONTRACT CUSTOMER BILLING DATA

WALDORF — APRIL 1992 — # DAYS 30

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	11888678	********	******	******
01	7.4	1140	2480	11892553	0.38750	3,684	8,015
02	7.6	840	2350	11896633	0.40800	2,858	7,996
03	7.7	1140	3260	11900066	0.34330	3,264	9,334
04	7.7	720	2300	11904031	0.39650	2,381	7,606
05	7.5	855	2620	11908664	0.46330	3,304	10,123
06	7.3	1320	1450	11913051	0.43870	4,830	5,305
07	7.3	660	2840	11918030	0.49790	2,741	11,793
08	6.7	600	980	11924339	0.63090	3,157	5,156
09	8.2	1170	500	11930792	0.64530	6,297	2,691
10	7.7	1440	560	11936418	0.56260	6,757	2,628
11	7.9	610	2190	11941710	0.52920	2,692	9,666
12	7.5	810	2830	11947085	0.53750	3,631	12,686
13	7.5	1050	6900	11951905	0.48200	4,221	27,737
14	7.4	840	1200	11956153	0.42480	2,976	4,251
15	7.6	795	2065	11961680	0.55270	3,665	9,519
16	7.4	990	6290	11968369	0.66890	5,523	35,090
17	7.8	1050	2930	11973295	0.49260	4,314	12,037
18	7.7	1170	5070	11978340	0.50450	4,923	21,332
19	7.2	1350	2950	11984383	0.60430	6,804	14,868
20	7.5	1455	5370	11989049	0.46660	5,662	20,897
21	7.6	840	4020	11996501	0.74520	5,221	24,984
22	9.2	690	2850	12004897	0.83960	4,832	19,956
23	7.9	520	2680	12012015	0.71180	3,087	15,910
24	8.2	1470	3130	12017707	0.56920	6,978	14,859
25	7.5	1290	6200	12023542	0.58350	6,278	30,172
26	7.2	1200	8470	12028258	0.47160	4,720	33,314
27	7.4	900	6320	12033495	0.52370	3,931	27,604
28	7.4	840	3290	12038475	0.49800	3,489	13,664
29	7.4	990	1410	12043424	0.49490	4,086	5,820
30	7.2	870	3090	12050963	0.75390	5,470	19,428
TOTAL					16.22850	131,772	444,440
AVG.	7.6	987	3287		0.54095	4,392	14,815

REVIEWED BY: Chris DATE: 5-7-92

APPROVED BY: _____ DATE: _____

per Data in question, BOD & SS from 4-13 to 4-30-92 an average was used, 932 & 1884, respectively.

CONTRACT CUSTOMER BILLING DATA

WALDORF

MARCH 1992
DAYS 31

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	11712559	********	******	******
01	8.1	750	2410	11718374	0.58150	3,637	11,688
02	8.1	370	1450	11724320	0.59460	1,835	7,190
03	7.8	750	1410	11729767	0.54470	3,407	6,405
04	7.8	378	1370	11735447	0.56800	1,791	6,490
05	7.7	1020	1870	11740612	0.51650	4,394	8,055
06	7.7	1020	1210	11744828	0.42160	3,586	4,255
07	8.3	1140	2070	11750084	0.52560	4,997	9,074
08	7.8	1095	1700	11754822	0.47380	4,327	6,718
09	7.9	870	2480	11762188	0.73660	5,345	15,235
10	8.1	400	1620	11773278	1.10900	3,700	14,983
11	8.3	640	1460	11779645	0.63670	3,398	7,753
12	8.5	900	2030	11784928	0.52830	3,965	8,944
13	8.0	840	2070	11790207	0.52790	3,698	9,114
14	8.1	780	1280	11797029	0.68220	4,438	7,283
15	7.8	1035	1685	11804458	0.74290	6,413	10,440
16	8.2	280	990	11812637	0.81790	1,910	6,753
17	8.3	660	2100	11816633	0.39960	2,200	6,999
18	8.3	1230	2680	11821208	0.45750	4,693	10,226
19	7.6	1050	2630	11825461	0.42530	3,724	9,329
20	7.7	1080	1970	11829554	0.40930	3,687	6,725
21	7.8	1320	2340	11833346	0.37920	4,175	7,400
22	7.8	1200	1610	11838524	0.51780	5,182	6,953
23	7.8	900	1730	11843232	0.47080	3,534	6,793
24	8.0	1080	2350	11849029	0.57970	5,221	11,362
25	7.7	900	1740	11854818	0.57890	4,345	8,401
26	7.2	840	3840	11861288	0.64700	4,533	20,721
27	7.7	870	2180	11865439	0.41510	3,012	7,547
28	8.5	900	500	11870642	0.52030	3,905	2,170
29	6.9	1170	1150	11874809	0.41670	4,066	3,997
30	7.9	1125	2080	11882108	0.72990	6,848	12,662
31	8.3	680	3560	11888678	0.65700	3,726	19,507
TOTAL					17.61190	123,692	281,167
AVG.	7.9	880	1921		0.56813	3,990	9,070

REVIEWED BY: Clui DATE: 4/8/92

APPROVED BY: WLt DATE: 4-16-92

CONTRACT CUSTOMER BILLING DATA

WALDORF

FEBRUARY 1992
DAYS 29

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	11600801	********	******	******
01	8.1	740	2290	11603867	0.30660	1,892	5,856
02	7.9	952	2420	11610166	0.62990	5,001	12,713
03	7.4	825	2200	11614858	0.46920	3,228	8,609
04	8.6	340	1810	11618184	0.33260	943	5,021
05	7.3	490	330	11620700	0.25160	1,028	692
06	7.5	297	8033		0.06700	166	4,489
07	7.5	297	8033		0.06700	166	4,489
08	8.0	430	12080		0.06700	240	6,750
09	7.6	100	1870		0.06700	56	1,045
10	6.9	360	10150		0.06700	201	5,672
11	7.5	297	8033		0.06700	166	4,489
12	7.5	297	8033		0.06700	166	4,489
13	8.6	330	967	11627978	0.72780	2,003	5,870
14	8.2	410	727	11632727	0.47490	1,624	2,879
15	8.0	405	1070	11639080	0.63530	2,146	5,669
16	8.1	900	1750	11644774	0.56940	4,274	8,310
17	8.4	565	1240	11651268	0.64940	3,060	6,716
18	8.2	744	1310	11656666	0.53980	3,349	5,898
19	8.2	660	2000	11663494	0.68280	3,758	11,389
20	8.1	780	2680	11669989	0.64950	4,225	14,517
21	8.3	780	2420	11674776	0.47870	3,114	9,662
22	8.4	750	3020	11678928	0.41520	2,597	10,458
23	7.9	1072	4820	11682429	0.35010	3,130	14,074
24	7.7	1215	6240	11687040	0.46110	4,672	23,996
25	7.9	1005	3220	11691443	0.44030	3,690	11,824
26	7.7	825	3040	11697887	0.64440	4,434	16,338
27	8.3	1650	3570	11703208	0.53210	7,322	15,843
28	8.1	900	5300	11708075	0.48670	3,653	21,513
29	7.8	870	2960	11712559	0.44840	3,254	11,069
TOTAL					11.64480	73,560	260,337
AVG.	7.9	665	3849		0.40154	2,537	8,977

REVIEWED BY: _____ DATE: 3-6-92

APPROVED BY: _____ DATE: 3-9-92

CONTRACT CUSTOMER BILLING DATA

WALDORF — JANUARY 1992 — # DAYS 31

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	11452571	********	******	******
01	6.8	780	1300	11459359	0.678800	4,416	7,360
02	7.4	520	1220	11466221	0.686200	2,976	6,982
03	7.5	780	1180	11469881	0.366000	2,381	3,602
04	7.8	675	1820	11475337	0.545600	3,071	8,282
05	7.4	810	3070	11479950	0.461300	3,116	11,811
06	7.7	900	2240	11484114	0.416400	3,125	7,779
07	7.7	900	1320	11488530	0.441600	3,315	4,861
08	7.4	885	2260	11493717	0.518700	3,828	9,777
09	7.4	1035	2270	11497768	0.405100	3,497	7,669
10	7.5	645	1960	11502804	0.503600	2,709	8,232
11	7.5	840	2590	11506463	0.365900	2,563	7,904
12	7.4	968	1965	11511684	0.522100	4,215	8,556
13	7.6	900	2300	11516074	0.439000	3,295	8,421
14	7.4	570	1410	11521743	0.566900	2,695	6,666
15	7.3	560	1420	11526912	0.516900	2,414	6,122
16	7.4	525	1560	11532002	0.509000	2,229	6,622
17	7.6	480	1490	11538437	0.643500	2,576	7,997
18	8.0	520	1370	11544075	0.563800	2,445	6,442
19	7.7	810	1890	11549135	0.506000	3,418	7,976
20	7.7	655	1980	11553872	0.473700	2,588	7,822
21	7.6	870	1990	11557623	0.375100	2,722	6,225
22	7.7	788	2810	11562880	0.525700	3,455	12,320
23	8.0	570	1700	11567137	0.425700	2,024	6,036
24	7.8	1140	2320	11573593	0.645600	6,138	12,492
25	7.7	565	1350	11577394	0.380100	1,791	4,280
26	8.4	735	1070	11579995	0.260100	1,594	2,321
27	7.9	855	1905	11586248	0.625300	4,459	9,935
28	7.8	975	4420	11590061	0.381300	3,101	14,056
29	8.3	648	3140	11592244	0.218300	1,180	5,717
30	7.6	930	2060	11596936	0.469200	3,639	8,061
31	7.7	825	2730	11600801	0.386500	2,659	8,800
TOTAL					14.823000	93,634	241,123
AVG.	7.6	763	2004		0.478160	3,020	7,778

REVIEWED BY: Chris DATE: 2/7/92

APPROVED BY: Wally L Ramson DATE: 2/10/92

CONTRACT CUSTOMER BILLING DATA

WALDORF

DECEMBER 1991
DAYS 31

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	11290013	********	******	******
01	4.8	698	3025	11296105	0.60920	3,546	15,369
02	7.1	630	2740	11304049	0.79440	4,174	18,153
03	7.3	870	4140	11307957	0.39080	2,836	13,493
04	7.4	780	3750	11311060	0.31030	2,019	9,705
05	7.7	915	4100	11316581	0.55210	4,213	18,879
06	7.5	870	3960	11320934	0.43530	3,158	14,376
07	7.4	930	3760	11325281	0.43470	3,372	13,631
08	7.4	900	1530	11329191	0.39100	2,935	4,989
09	7.4	960	1275	11333364	0.41730	3,341	4,437
10	7.0	605	710	11337565	0.42010	2,120	2,488
11	7.2	765	4020	11343311	0.57460	3,666	19,264
12	7.4	930	3920	11348298	0.49870	3,868	16,304
13	7.4	840	2110	11353365	0.50670	3,550	8,917
14	7.7	900	1660	11359877	0.65120	4,888	9,015
15	7.6	698	1775	11367904	0.80270	4,673	11,883
16	6.0	650	2350	11374681	0.67770	3,674	13,282
17	7.0	580	1980	11382140	0.74590	3,608	12,317
18	6.9	605	2970	11389210	0.70700	3,567	17,512
19	7.0	690	1620	11396427	0.72170	4,153	9,751
20	8.4	645	2450	11401627	0.52000	2,797	10,625
21	8.0	590	2000	11405509	0.38820	1,910	6,475
22	7.8	680	2240	11411267	0.57580	3,265	10,757
23	8.8	605	5010	11416426	0.51590	2,603	21,556
24	7.0	262	2270		0.06820	149	1,291
25	7.0	262	2270	11417790	0.06820	149	1,291
26	7.0	630	2430	11424324	0.65340	3,433	13,242
27	7.0	930	2360	11429150	0.48260	3,743	9,499
28	7.5	712	2950	11433285	0.41350	2,455	10,173
29	6.6	605	2460	11439963	0.66780	3,370	13,701
30	8.3	690	1485	11446156	0.61930	3,564	7,670
31	7.6	680	1720	11452571	0.64150	3,638	9,202
TOTAL					16.25580	98,437	349,249
AVG.	7.3	713	2614		0.52438	3,175	11,266

REVIEWED BY: Chris DATE: 1/8/92

APPROVED BY: Walter Thompson DATE: 1-10-92

CONTRACT CUSTOMER BILLING DATA

WALDORF — NOVEMBER 1991 — # DAYS 30

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	11106431	********	******	******
01	6.6	620	970	11112094	0.56630	2,928	4,581
02	7.2	795	6180	11116661	0.45670	3,028	23,539
03	7.4	1058	4140	11120580	0.39190	3,458	13,531
04	7.3	690	4740	11129019	0.84390	4,856	33,361
05	7.5	650	5300	11133797	0.47780	2,590	21,120
06	7.4	1005	6290	11139560	0.57630	4,830	30,232
07	6.8	1035	6770	11145410	0.58500	5,050	33,030
08	7.0	1035	5870	11150911	0.55010	4,748	26,931
09	7.3	1140	6280	11156814	0.59030	5,612	30,917
10	7.1	1260	8540	11164509	0.76950	8,086	54,807
11	7.2	730	2640	11174021	0.95120	5,791	20,943
12	7.2	645	4860	11180378	0.63570	3,420	25,766
13	7.3	631	3010	11185034	0.46560	2,450	11,688
14	7.5	692	225	11190333	0.52990	3,058	994
15	7.2	810	2230	11194997	0.46640	3,151	8,674
16	7.3	780	2820	11199008	0.40110	2,609	9,433
17	7.6	650	1050	11203446	0.44380	2,406	3,886
18	4.1	690	302	11209335	0.58890	3,389	1,483
19	5.4	765	1260	11214490	0.51550	3,289	5,417
20	7.5	780	1130	11223343	0.88530	5,759	8,343
21	7.4	870	2470	11230089	0.67460	4,895	13,897
22	7.5	900	3720	11235952	0.58630	4,401	18,190
23	7.6	690	2790	11244129	0.81770	4,706	19,027
24	7.5	840	5820	11249493	0.53640	3,758	26,036
25	7.3	780	4470	11256034	0.65410	4,255	24,385
26	7.6	665	3760	11262874	0.68400	3,794	21,449
27	7.7	728	5340	11267161	0.42870	2,603	19,092
28	6.4	690	3840	11275349	0.81880	4,712	26,223
29	7.3	735	1670	11283364	0.80150	4,913	11,163
30	7.3	780	1750	11290013	0.66490	4,325	9,704
TOTAL					18.35820	122,870	557,843
AVG.	7.1	805	3675		0.61194	4,096	18,595

REVIEWED BY: Chris DATE: 12-9-91

APPROVED BY: CWO DATE: 12/9/91

CONTRACT CUSTOMER BILLING DATA

WALDORF — OCTOBER 1991 — # DAYS 31

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	10919548	********	******	******
01		630	1590	10926643	0.70950	3,728	9,408
02		610	1770	10931704	0.50610	2,575	7,471
03		960	1310	10938667	0.69630	5,575	7,607
04		1050	1290	10945722	0.70550	6,178	7,590
05		1020	6880	10951447	0.57250	4,870	32,850
06		1155	4420	10957556	0.61090	5,885	22,519
07	7.1	960	4860	10964392	0.68360	5,473	27,708
08	7.3	795	5970	10971980	0.75880	5,031	37,781
09	7.7	862	7205	10981168	0.91880	6,605	55,210
10	7.2	930	6200	10986636	0.54680	4,241	28,274
11	7.0	705	6110	10992360	0.57240	3,366	29,168
12	7.8	900	3340	10999337	0.69770	5,237	19,435
13	7.4	885	3925	11006190	0.68530	5,058	22,433
14	7.9	1080	4180	11012565	0.63750	5,742	22,224
15	7.9	825	1540	11017302	0.47370	3,259	6,084
16	7.4	1125	4860	11023002	0.57000	5,348	23,103
17	7.3	1290	4510	11029073	0.60710	6,532	22,835
18	7.2	1260	4820	11033680	0.46070	4,841	18,520
19	7.4	795	7560	11038519	0.48390	3,208	30,510
20	7.3	1230	4920	11042661	0.41420	4,249	16,996
21	7.5	1350	5730	11048699	0.60380	6,798	28,855
22	7.6	1095	4060	11053333	0.46340	4,232	15,691
23	7.9	355	1150	11058783	0.54500	1,614	5,227
24	7.4	1560	1550	11063311	0.45280	5,891	5,853
25	7.4	1200	1310	11068842	0.55310	5,535	6,043
26	7.1	990	5150	11074482	0.56400	4,657	24,224
27	8.4	1620	9220	11083218	0.87360	11,803	67,175
28	6.1	520	4580	11087554	0.43360	1,880	16,562
29	6.4	230	1180	11091150	0.35960	690	3,539
30	6.8	315	1910	11095411	0.42610	1,119	6,788
31	6.8	810	4820	11106431	1.10200	7,444	44,299
TOTAL					18.68830	148,665	671,983
AVG.	7.3	939	4126		0.60285	4,796	21,677

REVIEWED BY: Chris DATE: 11-7-91

APPROVED BY: [signature] DATE: 11/12/91

CONTRACT CUSTOMER BILLING DATA

WALDORF — SEPTEMBER 1991
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	10684025	********	******	******
01	729	1310	10692271	0.82460	5,013	9,009
02	595	1010	10702065	0.97940	4,860	8,250
03	630	700	10710226	0.81610	4,288	4,764
04	450	1130	10718885	0.86590	3,250	8,160
05	555	910	10727075	0.81900	3,791	6,216
06	505	930	10735296	0.82210	3,462	6,376
07	930	1040	10743088	0.77920	6,044	6,758
08	540	1240	10750897	0.78090	3,517	8,076
09	635	1170	10757382	0.64850	3,434	6,328
10	900	1020	10764381	0.69990	5,253	5,954
11	634	830	10771393	0.70120	3,708	4,854
12	720	910	10779199	0.78060	4,687	5,924
13	470	730	10787691	0.84920	3,329	5,170
14	602	780	10794533	0.68420	3,435	4,451
15	580	980	10801834	0.73010	3,532	5,967
16	620	1280	10813139	1.13050	5,846	12,068
17	530	730	10819761	0.66220	2,927	4,032
18	570	1450	10828921	0.91600	4,354	11,077
19	540	1260	10841376	1.24550	5,609	13,088
20	430	1140	10849620	0.82440	2,956	7,838
21	628	1890	10859162	0.95420	4,998	15,041
22	780	1270	10868908	0.97460	6,340	10,323
23	540	1540	10878430	0.95220	4,288	12,230
24	340	1190	10885319	0.68890	1,953	6,837
25	290	790	10893405	0.80860	1,956	5,328
26	660	1160	10898162	0.47570	2,618	4,602
27	780	1030	10903207	0.50450	3,282	4,334
28	750	2500	10908619	0.54120	3,385	11,284
29	420	920	10915144	0.65250	2,286	5,007
30	305	340	10919548	0.44040	1,120	1,249
TOTAL				23.55230	115,523	220,595
AVG.	589	1106		0.78508	3,851	7,353

REVIEWED BY: Chris DATE: 10-10-91

APPROVED BY: DB DATE: 10/Oct/91

CONTRACT CUSTOMER BILLING DATA

WALDORF — AUGUST 1991 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	10423012	********	******	******
01	750	3520	10435577	1.25650	7,859	36,887
02	485	3410	10446153	1.05760	4,278	30,078
03	560	2040	10456296	1.01430	4,737	17,257
04	575	1650	10465604	0.93080	4,464	12,809
05	530	1400	10471985	0.63810	2,821	7,450
06	735	2080	10478309	0.63240	3,877	10,970
07	525	1640	10488357	1.00480	4,400	13,743
08	435	1053	10495375	0.70180	2,546	6,163
09	580	1130	10502130	0.67550	3,268	6,366
10	580	2150	10508948	0.68180	3,298	12,225
11	608	1870	10515254	0.63060	3,198	9,835
12	735	2270	10521864	0.66100	4,052	12,514
13	690	1860	10528181	0.63170	3,635	9,799
14	185	853	10536200	0.80190	1,237	5,705
15	430	1220	10547170	1.09700	3,934	11,162
16	560	1530	10553718	0.65480	3,058	8,355
17	630	730	10560716	0.69980	3,677	4,261
18	662	840	10571865	1.11490	6,155	7,811
19	685	1720	10581954	1.00890	5,764	14,472
20	665	1200	10589415	0.74610	4,138	7,467
21	575	985	10598724	0.93090	4,464	7,647
22	645	1380	10606523	0.77990	4,195	8,976
23	720	1070	10614400	0.78770	4,730	7,029
24	520	1510	10622556	0.81560	3,537	10,271
25	570	1630	10630612	0.80560	3,830	10,951
26	540	1695	10638535	0.79230	3,568	11,200
27	520	1600	10651056	1.25210	5,430	16,708
28	450	780	10659725	0.86690	3,253	5,639
29	630	873	10667085	0.73600	3,867	5,359
30	612	2310	10676289	0.92040	4,698	17,732
31	590	1580	10684025	0.77360	3,807	10,194
TOTAL				26.10130	125,774	357,036
AVG.	580	1599		0.84198	4,057	11,517

REVIEWED BY: Chris DATE: 9-10-91

APPROVED BY: [illegible] DATE: 9/10/91

CONTRACT CUSTOMER BILLING DATA

WALDORF — JULY 1991 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	10169150	********	******	******
01	750	1610	10179646	1.04960	6,565	14,093
02	290	1673	10189917	1.02710	2,484	14,331
03	460	873	10197821	0.79040	3,032	5,755
04	578	884	10204351	0.65300	3,148	4,814
05	570	920	10213278	0.89270	4,244	6,850
06	495	940	10222779	0.95010	3,922	7,448
07	478	1560	10232346	0.95670	3,814	12,447
08	480	1620	10246596	1.42500	5,705	19,253
09	510	1070	10257846	1.12500	4,785	10,039
10	615	1310	10264643	0.67970	3,486	7,426
11	645	1240	10272260	0.76170	4,097	7,877
12	650	1410	10281316	0.90560	4,909	10,649
13	525	930	10287991	0.66750	2,923	5,177
14	460	1010	10295502	0.75110	2,882	6,327
15	480	1127	10303453	0.79510	3,183	7,473
16	540	1253	10309642	0.61890	2,787	6,468
17	690	1270	10317374	0.77320	4,449	8,190
18	580	1650	10326712	0.93380	4,517	12,850
19	610	1150	10335246	0.85340	4,342	8,185
20	535	1130	10342845	0.75990	3,391	7,161
21	555	1210	10351866	0.90210	4,176	9,103
22	560	2080	10358652	0.67860	3,169	11,772
23	660	3530	10366254	0.76020	4,184	22,380
24	660	4620	10374643	0.83890	4,618	32,323
25	470	1640	10382975	0.83320	3,266	11,396
26	380	1820	10390826	0.78510	2,488	11,917
27	430	1570	10396482	0.56560	2,028	7,406
28	588	1900	10403186	0.67040	3,288	10,623
29	598	2355	10409999	0.68130	3,398	13,381
30	630	1700	10416410	0.64110	3,368	9,090
31	678	1590	10423012	0.66020	3,733	8,755
TOTAL				25.38620	116,381	330,961
AVG.	553	1569		0.81891	3,754	10,676

REVIEWED BY: Chris DATE: 8-8-91

APPROVED BY: DH DATE: 8/9/91

CONTRACT CUSTOMER BILLING DATA

WALDORF — JUNE 1991 — # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	9923043	********	******	******
01	605	1100	9930702	0.765900	3,865	7,026
02	600	980	9938895	0.819300	4,100	6,696
03	625	1150	9945016	0.612100	3,191	5,871
04	550	1640	9955622	1.060600	4,865	14,506
05	285	725	9964889	0.926700	2,203	5,603
06	580	813	9974389	0.950000	4,595	6,441
07	480	840	9983827	0.943800	3,778	6,612
08	550	893	9989498	0.567100	2,601	4,224
09	680	960	9997663	0.816500	4,631	6,537
10	690	953	10004209	0.654600	3,767	5,203
11	595	280	10010715	0.650600	3,228	1,519
12	610	1887	10015598	0.488300	2,484	7,685
13	630	1075	10021055	0.545700	2,867	4,892
14	885	940	10026569	0.551400	4,070	4,323
15	765	1205	10033139	0.657000	4,192	6,603
16	668	935	10038977	0.583800	3,252	4,552
17	600	1030	10046604	0.762700	3,817	6,552
18	600	513	10053025	0.642100	3,213	2,747
19	590	947	10064619	1.159400	5,705	9,157
20	360	1340	10078218	1.359900	4,083	15,198
21	420	980	10086913	0.869500	3,046	7,107
22	540	420	10098868	1.195500	5,384	4,188
23	358	870	10108687	0.981900	2,932	7,124
24	480	1430	10120909	1.222200	4,893	14,576
25	470	1470	10128734	0.782500	3,067	9,593
26	460	1175	10137299	0.856500	3,286	8,393
27	500	1160	10143085	0.578600	2,413	5,598
28	500	713	10152993	0.990800	4,132	5,892
29	590	1220	10162460	0.946700	4,658	9,632
30	570	990	10169150	0.669000	3,180	5,524
TOTAL				24.610700	111,496	209,575
AVG.	561	1021		0.820360	3,717	6,986

REVIEWED BY: Diane M Neeman DATE: 7-9-91

APPROVED BY: DNO DATE: 7/9/91

CONTRACT CUSTOMER BILLING DATA

WALDORF MAY 1991

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	9675914	********	******	******
Ø1	750	1180	9682786	Ø.68720	4,298	6,763
Ø2	510	575	9691858	Ø.90720	3,859	4,350
Ø3	445	680	9700945	Ø.90870	3,372	5,153
Ø4	330	284	9709559	Ø.86140	2,371	2,040
Ø5	340	1270	9721552	1.19930	3,401	12,703
Ø6	300	1567	9725917	Ø.43650	1,092	5,705
Ø7	60	640	9729265	Ø.33480	168	1,787
Ø8	65	1040	9732861	Ø.35960	175	3,119
Ø9	50	780	9735475	Ø.26140	109	1,700
10	80	1120	9739144	Ø.36690	245	3,427
11	130	750	9749356	1.02120	1,107	6,388
12	220	1280	9760558	1.12020	2,055	11,958
13	290	605	9770572	1.00140	2,422	5,053
14	460	440	9780402	Ø.98300	3,771	3,607
15	470	300	9789952	Ø.95500	3,743	2,389
16	628	780	9795210	Ø.52580	2,754	3,420
17	510	670	9803797	Ø.85870	3,652	4,798
18	450	1810	9812991	Ø.91940	3,451	13,879
19	632	1540	9824404	1.14130	6,016	14,658
20	115	1520	9834049	Ø.96450	925	12,227
21	530	1330	9844163	1.01140	4,471	11,219
22	675	1360	9850632	Ø.64690	3,642	7,337
23	570	1100	9859281	Ø.86490	4,112	7,935
24	475	1147	9867603	Ø.83220	3,297	7,961
25	370	590	9874195	Ø.65920	2,034	3,244
26	585	1250	9883078	Ø.88830	4,334	9,261
27	510	1110	9891631	Ø.85530	3,638	7,918
28	765	953	9899445	Ø.78140	4,985	6,211
29	525	1040	9907131	Ø.76860	3,365	6,667
30	620	1034	9914009	Ø.68780	3,556	5,931
31	645	1020	9923043	Ø.90340	4,860	7,685
TOTAL				24.71290	91,300	206,493
AVG.	423	992		Ø.79719	2,945	6,661

REVIEWED BY: Chris DATE: 6-10-91

APPROVED BY: DO DATE: 6/10/91

CONTRACT CUSTOMER BILLING DATA

WALDORF — APRIL 1991 — # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	9454272	********	******	******
01	445	760	AVG	0.90763	3,368	5,753
02	515	840	AVG	0.90763	3,898	6,359
03	530	1130	9481501	0.90763	4,012	8,554
04	310	1630	9488023	0.65220	1,686	8,866
05	540	1580	9493096	0.50730	2,285	6,685
06	750	1020	9499157	0.60610	3,791	5,156
07	716	1115	9506110	0.69530	4,152	6,466
08	560	870	9515178	0.90680	4,235	6,580
09	490	880	9524293	0.91150	3,725	6,690
10	650	1440	9531675	0.73820	4,002	8,865
11	585	1690	9540246	0.85710	4,182	12,080
12	580	720	9545926	0.56800	2,748	3,411
13	675	1290	9551916	0.59900	3,372	6,444
14	592	1350	9559179	0.72630	3,586	8,177
15	520	1150	9567278	0.80990	3,512	7,768
16	440	660	9573454	0.61760	2,266	3,400
17	460	870	9580196	0.67420	2,587	4,892
18	390	614	9586764	0.65680	2,136	3,363
19	470	593	9593364	0.66000	2,587	3,264
20	542	910	9600076	0.67120	3,034	5,094
21	565	560	9607356	0.72800	3,430	3,400
22	350	1720	9616283	0.89270	2,606	12,806
23	455	1640	9627253	1.09700	4,163	15,004
24	810	1700	9633813	0.65600	4,432	9,301
25	645	780	9641524	0.77110	4,148	5,016
26	660	907	9648540	0.70160	3,862	5,307
27	600	990	9655621	0.70810	3,543	5,846
28	665	1130	9661833	0.62120	3,445	5,854
29	716	900	9669916	0.80830	4,827	6,067
30	580	1070	9675914	0.59980	2,901	5,352
TOTAL				22.16420	102,521	201,821
AVER	560	1084		0.73881	3,417	6,727

REVIEWED BY: Chris DATE: 5-8-91

APPROVED BY: [illegible] DATE: 5/8/91

CONTRACT CUSTOMER BILLING DATA

WALDORF — MARCH 1991 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	9225903	********	******	******
01	705	907	9232553	0.66500	3,910	5,030
02	840	810	9237480	0.49270	3,452	3,328
03	690	900	9244504	0.70240	4,042	5,272
04	585	1880	9251899	0.73950	3,608	11,595
05	420	1150	9259556	0.76570	2,682	7,344
06	530	1275	9267920	0.83640	3,697	8,894
07	628	1420	9276112	0.81920	4,291	9,702
08	810	748	9282430	0.63180	4,268	3,941
09	690	1610	9293538	1.11080	6,392	14,915
10	710	840	9299096	0.55580	3,291	3,894
11	520	302	9306383	0.72870	3,160	1,835
12	450	220	9314838	0.84550	3,173	1,551
13	545	420	9321729	0.68910	3,132	2,414
14	390	955	9326986	0.52570	1,710	4,187
15	690	620	9331627	0.46410	2,671	2,400
16	660	650	9337726	0.60990	3,357	3,306
17	825	960	9344064	0.63380	4,361	5,074
18	810	940	9352589	0.85250	5,759	6,683
19	620	540	9360441	0.78520	4,060	3,536
20	350	580	9367736	0.72950	2,129	3,529
21	530	783	9375048	0.73120	3,232	4,775
22	510	433	9381525	0.64770	2,755	2,339
23	550	440	9388094	0.65690	3,013	2,411
24	528	505	9395021	0.69270	3,050	2,917
25	570	448	9400874	0.58530	2,782	2,187
26	650	620	9408593	0.77190	4,184	3,991
27	450	633	9415707	0.71140	2,670	3,756
28	520	620	9425343	0.96360	4,179	4,983
29	530	487	9433994	0.86510	3,824	3,514
30	540	733	9443542	0.95480	4,300	5,837
31	585	1020	9454272	1.07300	5,235	9,128
TOTAL				22.83690	112,371	154,268
AVER	595	789		0.73667	3,625	4,976

REVIEWED BY: Chris DATE: 4-10-91

APPROVED BY: CWO DATE: 4/10/91

CONTRACT CUSTOMER BILLING DATA

WALDORF — FEBRUARY 1991 — # DAYS 28

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	9049791	********	******	******
Ø1	668	2060	9055222	Ø.54310	3,026	9,331
Ø2	678	940	9060138	Ø.49160	2,780	3,854
Ø3	600	865	9063499	Ø.33610	1,682	2,425
Ø4	750	1280	9070339	Ø.68400	4,278	7,302
Ø5	705	993	9077237	Ø.68980	4,056	5,713
Ø6	585	1305	9085120	Ø.78830	3,846	8,580
Ø7	629	1250	9093345	Ø.82250	4,315	8,575
Ø8	900	1660	9097705	Ø.43600	3,273	6,036
Ø9	660	1180	9100884	Ø.31790	1,750	3,129
10	660	1200	9107602	Ø.67180	3,698	6,723
11	765	1300	9114343	Ø.67410	4,301	7,309
12	670	1130	9120449	Ø.61060	3,412	5,754
13	660	1220	9126967	Ø.65180	3,588	6,632
14	570	740	9133717	Ø.67500	3,209	4,166
15	1080	960	9139600	Ø.58830	5,299	4,710
16	600	1220	9147812	Ø.82120	4,109	8,356
17	458	1580	9156044	Ø.82320	3,144	10,847
18	605	1930	9162409	Ø.63650	3,212	10,245
19	655	1140	9172262	Ø.98530	5,382	9,368
20	520	1500	9179725	Ø.74630	3,237	9,336
21	640	1165	9185511	Ø.57860	3,088	5,622
22	870	760	9190118	Ø.46070	3,343	2,920
23	660	1250	9194960	Ø.48420	2,665	5,048
24	690	1430	9201498	Ø.65380	3,762	7,797
25	560	1220	9209363	Ø.78650	3,673	8,002
26	510	1200	9215993	Ø.66300	2,820	6,635
27	550	1840	9221248	Ø.52550	2,410	8,064
28	780	452	9225903	Ø.46550	3,028	1,755
TOTAL				17.61120	96,386	184,233
AVER	667	1242		Ø.62897	3,442	6,580

REVIEWED BY: Chris DATE: 3-7-91

APPROVED BY: [illegible] DATE: 3/25/91

CONTRACT CUSTOMER BILLING DATA

WALDORF — JANUARY 1991 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	8900059	********	******	******
01	735	1320	8904364	0.43050	2,639	4,739
02	750	1245	8908964	0.46000	2,877	4,776
03	725	3293	8912917	0.39530	2,390	10,856
04	720	2170	8917774	0.48570	2,917	8,790
05	570	1165	8921772	0.39980	1,901	3,884
06	705	1130	8928261	0.64890	3,815	6,115
07	758	1568	8932361	0.41000	2,592	5,362
08	690	1087	8936813	0.44520	2,562	4,036
09	1350	790	8940374	0.35610	4,009	2,346
10	960	1267	8944597	0.42230	3,381	4,462
11	870	2590	8948520	0.39230	2,846	8,474
12	930	2520	8954710	0.61900	4,801	13,009
13	870	2240	8959410	0.47000	3,410	8,780
14	575	1440	8963354	0.39440	1,891	4,737
15	660	1020	8968867	0.55130	3,035	4,690
16	535	1096	8974279	0.54120	2,415	4,947
17	660	1247	8979343	0.50640	2,787	5,267
18	710	1080	8982572	0.32290	1,912	2,908
19	1560	1255	8986118	0.35460	4,613	3,711
20	900	1795	8989693	0.35750	2,683	5,352
21	810	1860	8993474	0.37810	2,554	5,865
22	705	1880	8998038	0.45640	2,683	7,156
23	690	1500	9003547	0.55090	3,170	6,892
24	742	1895	9007865	0.43180	2,672	6,824
25	960	1670	9011811	0.39460	3,159	5,496
26	1035	2040	9015322	0.35110	3,031	5,973
27	570	1953	9019005	0.36830	1,751	5,999
28	625	1042	9026585	0.75800	3,951	6,587
29	380	1190	9032767	0.61820	1,959	6,135
30	520	1610	9041947	0.91800	3,981	12,326
31	430	2180	9049791	0.78440	2,813	14,261
TOTAL				14.97320	91,203	200,759
AVER	765	1617		0.48301	2,942	6,476

REVIEWED BY: _____ DATE: 2-6-91

APPROVED BY: _____ DATE: 2/8/91

CONTRACT CUSTOMER BILLING DATA

WALDORF — DECEMBER 1990 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	8743458	********	******	******
01	750	380	8747799	0.43410	2,715	1,376
02	750	248	8752369	0.45700	2,859	945
03	690	730	8756938	0.45690	2,629	2,782
04	870	740	8761280	0.43420	3,150	2,680
05	900	1130	8766594	0.53140	3,989	5,008
06	765	1085	8771967	0.53730	3,428	4,862
07	675	1080	8780153	0.81860	4,608	7,373
08	540	2220	8787575	0.74220	3,343	13,742
09	570	244	8791955	0.43800	2,082	891
10	718	290	8796179	0.42240	2,529	1,022
11	705	1300	8801605	0.54260	3,190	5,883
12	690	1910	8807268	0.56630	3,259	9,021
13	990	1887	8811869	0.46010	3,799	7,241
14	605	1440	8816775	0.49060	2,475	5,892
15	645	1947	8821073	0.42980	2,312	6,979
16	640	615	8825881	0.48080	2,566	2,466
17	690	3400	8830376	0.44950	2,587	12,746
18	600	980	8834893	0.45170	2,260	3,692
19	945	2620	8839997	0.51040	4,023	11,153
20	810	540	8844771	0.47740	3,225	2,150
21	690	496	8848657	0.38860	2,236	1,607
22	840	756	8852864	0.42070	2,947	2,653
23	150	435	8859211	0.63470	794	2,303
24	30	60	AVG	0.19570	49	98
25	30	60	8863125	0.19570	49	98
26	265	1030	8870437	0.73120	1,616	6,281
27	440	2680	8876312	0.58750	2,156	13,131
28	650	1590	8881367	0.50550	2,740	6,703
29	570	1460	8886029	0.46620	2,216	5,677
30	570	1660	8892952	0.69230	3,291	9,584
31	550	1000	8900059	0.71070	3,260	5,927
TOTAL				15.66010	82,384	161,965
AVER	624	1162		0.50516	2,658	5,225

REVIEWED BY: Chris DATE: 1-9-91

APPROVED BY: DLC DATE: 1/9/91

CONTRACT CUSTOMER BILLING DATA

WALDORF — NOVEMBER 1990 — # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	8561524	********	******	******
01	570	520	8569077	0.75530	3,591	3,276
02	600	632	8577229	0.81520	4,079	4,297
03	430	545	8584368	0.71390	2,560	3,245
04	820	640	8590598	0.62300	4,261	3,325
05	855	640	8594799	0.42010	2,996	2,242
06	810	1120	8599189	0.43900	2,966	4,101
07	765	830	8604017	0.48280	3,080	3,342
08	720	1290	8608121	0.41040	2,464	4,415
09	715	1505	8612073	0.39520	2,357	4,960
10	700	1310	8616167	0.40940	2,390	4,473
11	682	760	8619889	0.37220	2,117	2,359
12	550	456	8629133	0.92440	4,240	3,516
13	500	96	8635904	0.67710	2,824	542
14	490	1160	8641228	0.53240	2,176	5,151
15	600	620	8652362	1.11340	5,571	5,757
16	440	760	8663615	1.12530	4,129	7,133
17	580	833	8670348	0.67330	3,257	4,678
18	615	860	8676173	0.58250	2,988	4,178
19	570	970	8683395	0.72220	3,433	5,842
20	330	1560	8692593	0.91980	2,531	11,967
21	620	412	8697490	0.48970	2,532	1,683
22	600	710	8701482	0.39920	1,998	2,364
23	720	965	8706880	0.53980	3,241	4,344
24	645	860	8712040	0.51600	2,776	3,701
25	690	750	8717174	0.51340	2,954	3,211
26	720	1100	8723832	0.66580	3,998	6,108
27	735	1190	8730388	0.65560	4,019	6,507
28	600	320	8735142	0.47540	2,379	1,269
29	840	268	8739328	0.41860	2,933	936
30	750	330	8743458	0.41300	2,583	1,137
TOTAL				18.19340	93,423	120,057
AVER	642	800		0.60645	3,114	4,002

REVIEWED BY: Chris DATE: 12-6-90

APPROVED BY: DH DATE: 12/6/90

CONTRACT CUSTOMER BILLING DATA

WALDORF — OCTOBER 1990 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	8327486	********	******	******
01	570	1480	8332836	0.53500	2,543	6,604
02	600	967	8338650	0.58140	2,909	4,689
03	922	2685	8345554	0.69040	5,309	15,460
04	100	1145	8350759	0.52050	434	4,970
05	300	530	8357162	0.64030	1,602	2,830
06	698	930	8362796	0.56340	3,280	4,370
07	590	930	8368248	0.54520	2,683	4,229
08	630	677	8374684	0.64360	3,382	3,634
09	645	920	8381273	0.65890	3,544	5,056
10	698	1040	8386551	0.52780	3,072	4,578
11	550	510	8392473	0.59220	2,716	2,519
12	742	910	8400166	0.76930	4,761	5,839
13	720	1160	8405808	0.56420	3,388	5,458
14	735	960	8411206	0.53980	3,309	4,322
15	870	670	8416850	0.56440	4,095	3,154
16	960	800	8422784	0.59340	4,751	3,959
17	690	620	8428500	0.57160	3,289	2,956
18	630	1184	8435652	0.71520	3,758	7,062
19	930	936	8443041	0.73890	5,731	5,768
20	635	867	8453606	1.05650	5,595	7,639
21	545	750	8461100	0.74940	3,406	4,687
22	640	750	8472022	1.09220	5,830	6,832
23	645	570	8478676	0.66540	3,579	3,163
24	670	490	8488666	0.99900	5,582	4,083
25	590	478	8499217	1.05510	5,192	4,206
26	390	550	8509406	1.01890	3,314	4,674
27	400	672	8521596	1.21900	4,067	6,832
28	430	1140	8533524	1.19280	4,278	11,341
29	630	1210	8541018	0.74940	3,937	7,562
30	610	620	8550412	0.93940	4,779	4,857
31	476	445	8561524	1.11120	4,411	4,124
TOTAL				23.40380	118,527	167,456
AVER	621	890		0.75496	3,823	5,402

REVIEWED BY: _____ DATE: 11-9-90

APPROVED BY: _____ DATE: 11/9/90

CONTRACT CUSTOMER BILLING DATA

WALDORF — SEPTEMBER 1990 — # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	8186536	********	******	******
01	632	460	8188116	0.15800	833	606
02	780	910	8189774	0.16580	1,079	1,258
03	780	1120	8191084	0.13100	852	1,224
04	550	1124	8192656	0.15720	721	1,474
05	1035	1230	8196182	0.35260	3,044	3,617
06	260	752	8201621	0.54390	1,179	3,411
07	590	1244	8203646	0.20250	996	2,101
08	650	1313	8205383	0.17370	942	1,902
09	700	1210	8208291	0.29080	1,698	2,935
10	660	1270	8210648	0.23570	1,297	2,496
11	620	1330	8212709	0.20610	1,066	2,286
12	640	1135	8214788	0.20790	1,110	1,968
13	780	768	8219902	0.51140	3,327	3,276
14	930	1120	8226625	0.67230	5,214	6,280
15	560	993	8236553	0.99280	4,637	8,222
16	500	927	8243377	0.68240	2,846	5,276
17	745	1700	8250025	0.66480	4,131	9,426
18	870	553	8256474	0.64490	4,679	2,974
19	698	1415	8262574	0.61000	3,551	7,199
20	745	940	8267994	0.54200	3,368	4,249
21	870	1900	8272997	0.50030	3,630	7,928
22	765	1410	8278479	0.54820	3,498	6,447
23	900	910	8285867	0.73880	5,545	5,607
24	670	1490	8290186	0.43190	2,413	5,367
25	585	990	8296024	0.58380	2,848	4,820
26	710	740	8302181	0.61570	3,646	3,800
27	630	788	8309272	0.70910	3,726	4,660
28	570	790	8314729	0.54570	2,594	3,595
29	705	1410	8320846	0.61170	3,597	7,193
30	730	950	8327486	0.66400	4,043	5,261
TOTAL				14.09500	82,108	126,857
AVER	695	1096		0.46983	2,737	4,229

REVIEWED BY: Chris DATE: 10-10-90

APPROVED BY: [illegible] DATE: 10/10/90

CONTRACT CUSTOMER BILLING DATA

WALDORF — AUGUST 1990 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	8099307	********	******	******
01	380	1065	8103579	0.42720	1,354	3,794
02	325	744	8108699	0.51200	1,388	3,177
03	240	740	8115974	0.72750	1,456	4,490
04	405	516	8119607	0.36330	1,227	1,563
05	460	820	8125446	0.58390	2,240	3,993
06	310	1110	8127348	0.19020	492	1,761
07	795	1930	8128532	0.11840	785	1,906
08	765	1820	8130210	0.16780	1,071	2,547
09	678	1042	8133365	0.31550	1,784	2,742
10	720	996	8135175	0.18100	1,087	1,504
11	630	748	8136683	0.15080	792	941
12	712	715	8138170	0.14870	883	887
13	775	720	8139966	0.17960	1,161	1,078
14	310	1710	8146237	0.62710	1,621	8,943
15	550	1108	8147242	0.10050	461	929
16	620	876	8149672	0.24300	1,257	1,775
17	540	545	8152081	0.24090	1,085	1,095
18	490	1710	8154268	0.21870	894	3,119
19	725	1700	8155488	0.12200	738	1,730
20	750	1330	8157021	0.15330	959	1,700
21	1020	787	8158148	0.11270	959	740
22	720	910	8159243	0.10950	658	831
23	795	1160	8160252	0.10090	669	976
24	590	763	8164330	0.40780	2,007	2,595
25	535	893	8166695	0.23650	1,055	1,761
26	460	775	8173364	0.66690	2,558	4,311
27	600	850	8175617	0.22530	1,127	1,597
28	700	1050	8177922	0.23050	1,346	2,018
29	580	806	8183541	0.56190	2,718	3,777
30	420	1023	8185547	0.20060	703	1,711
31	490	454	8186536	0.09890	404	374
TOTAL				8.72290	36,937	70,366
AVER	584	1013		0.28138	1,192	2,270

REVIEWED BY: Chris DATE: 9-10-90

APPROVED BY: DO DATE: 9/11/90

CONTRACT CUSTOMER BILLING DATA

WALDORF

JULY 1990
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	7993605	********	******	******
01	810	1010	7994457	0.08520	576	718
02	810	1020	7995545	0.10880	735	926
03	960	1146	7998825	0.32800	2,626	3,135
04	690	1615	8002005	0.31800	1,830	4,283
05	780	1400	8004078	0.20730	1,349	2,420
06	730	952	8005676	0.15980	973	1,269
07	655	970	8008171	0.24950	1,363	2,018
08	530	347	8010837	0.26660	1,178	772
09	590	675	8016336	0.54990	2,706	3,096
10	60	452	8019424	0.30880	155	1,164
11	70	1095	8020036	0.06120	36	559
12	30	254	8020400	0.03640	9	77
13	140	890	8025749	0.53490	625	3,970
14	370	1500	8035265	0.95160	2,936	11,905
15	312	748	8044247	0.89820	2,337	5,603
16	470	616	8048075	0.38280	1,500	1,967
17	670	1480	8049732	0.16570	926	2,045
18	670	1430	8052705	0.29730	1,661	3,546
19	590	1480	8054242	0.15370	756	1,897
20	682	1760	8057780	0.35380	2,012	5,193
21	780	1780	8059496	0.17160	1,116	2,547
22	640	1330	8063766	0.42700	2,279	4,736
23	660	1890	8066084	0.23180	1,276	3,654
24	715	1820	8068255	0.21710	1,295	3,295
25	810	683	8070286	0.20310	1,372	1,157
26	605	836	8074228	0.39420	1,989	2,748
27	530	480	8079166	0.49380	2,183	1,977
28	520	316	8083773	0.46070	1,998	1,214
29	405	512	8088539	0.47660	1,610	2,035
30	490	524	8091422	0.28830	1,178	1,260
31	460	1133	8099307	0.78850	3,025	7,451
TOTAL				10.57020	45,610	88,637
AVER	556	1037		0.34097	1,471	2,859

REVIEWED BY: _____ DATE: 8-7-90

APPROVED BY: _____ DATE: 8/8/90

CONTRACT CUSTOMER BILLING DATA

WALDORF JUNE 1990
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	7928494	********	******	******
01	692	1310	7930450	0.19560	1,129	2,137
02	748	1727	7931847	0.13970	871	2,012
03	780	2220	7933159	0.13120	853	2,429
04	720	1340	7934287	0.11280	677	1,261
05	990	1140	7937963	0.36760	3,035	3,495
06	550	2060	7940196	0.22330	1,024	3,836
07	685	1078	7943446	0.32500	1,857	2,922
08	720	776	7947418	0.39720	2,385	2,571
09	630	1132	7949562	0.21440	1,127	2,024
10	660	792	7951250	0.16880	929	1,115
11	885	368	7953261	0.20110	1,484	617
12	510	70	7955930	0.26690	1,135	156
13	595	1140	7959116	0.31860	1,581	3,029
14	620	700	7961995	0.28790	1,489	1,681
15	675	592	7964702	0.27070	1,524	1,337
16	612	507	7968577	0.38750	1,978	1,638
17	572	368	7971955	0.33780	1,611	1,037
18	530	1040	7972633	0.06780	300	588
19	700	910	7975018	0.23850	1,392	1,810
20	990	1320	7976681	0.16630	1,373	1,831
21	675	1220	7979462	0.27810	1,566	2,830
22	672	1256	7980628	0.11660	653	1,221
23	915	1367	7981380	0.07520	574	857
24	780	1240	7982996	0.16160	1,051	1,671
25	520	1310	7984503	0.15070	654	1,646
26	540	724	7985494	0.09910	446	598
27	698	2186	7987843	0.23490	1,367	4,283
28	570	1490	7989658	0.18150	863	2,255
29	600	1410	7991472	0.18140	908	2,133
30	655	1660	7993605	0.21330	1,165	2,953
TOTAL				6.51110	37,003	57,974
AVER	683	1148		0.21704	1,233	1,932

REVIEWED BY: Chris DATE: 7-10-90

APPROVED BY: CWO DATE: 7/10/90

CONTRACT CUSTOMER BILLING DATA

WALDORF — MAY 1990 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	7766124	********	******	******
01	575	464	7778465	1.23410	5,918	4,776
02	205	408	7788359	0.98940	1,692	3,367
03	190	612	7798628	1.02690	1,627	5,241
04	500	532	7806575	0.79470	3,314	3,526
05	625	1056	7814691	0.81160	4,230	7,148
06	710	786	7822028	0.73370	4,345	4,810
07	700	3200	7830525	0.84970	4,961	22,677
08	320	550	7838716	0.81910	2,186	3,757
09	520	1033	7848664	0.99480	4,314	8,570
10	592	724	7853650	0.49860	2,462	3,011
11	550	540	7860784	0.71340	3,272	3,213
12	490	555	7870088	0.93040	3,802	4,307
13	480	244	7877449	0.73610	2,947	1,498
14	490	795	7883490	0.60410	2,469	4,005
15	550	524	7889806	0.63160	2,897	2,760
16	595	610	7897744	0.79380	3,939	4,038
17	520	708	7903201	0.54570	2,367	3,222
18	560	835	7905377	0.21760	1,016	1,515
19	580	867	7908033	0.26560	1,285	1,920
20	648	878	7910246	0.22130	1,196	1,620
21	1140	1070	7911930	0.16840	1,601	1,503
22	870	1030	7913126	0.11960	868	1,027
23	870	3940	7914897	0.17710	1,285	5,819
24	795	788	7916358	0.14610	969	960
25	685	1000	7917650	0.12920	738	1,078
26	735	808	7918941	0.12910	791	870
27	645	1240	7920494	0.15530	835	1,606
28	690	893	7922486	0.19920	1,146	1,484
29	990	1510	7925555	0.30690	2,534	3,865
30	782	1455	7926682	0.11270	735	1,368
31	750	2740	7928494	0.18120	1,133	4,141
TOTAL				16.23700	72,874	118,702
AVER	624	1045		0.52377	2,351	3,829

REVIEWED BY: Chris DATE: 6-7-90

APPROVED BY: DO DATE: 6/11/90

CONTRACT CUSTOMER BILLING DATA

WALDORF

APRIL 1990
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	7539715	********	******	******
01	500	928	7548283	0.85680	3,573	6.631
02	390	576	7555078	0.67950	2,210	3,264
03	640	1347	7564482	0.94040	5,019	10,564
04	330	384	7571151	0.66690	1,835	2,136
05	530	260	7576447	0.52960	2,341	1,148
06	670	424	7581907	0.54600	3,051	1,931
07	735	356	7588158	0.62510	3,832	1,856
08	610	648	7594332	0.61740	3,141	3,337
09	440	700	7601303	0.69710	2,558	4,070
10	690	1287	7606995	0.56920	3,276	6,110
11	745	910	7613442	0.64470	4,006	4,893
12	740	1453	7620277	0.68350	4,218	8,283
13	645	1575	7627442	0.71650	3,854	9,412
14	470	1510	7635202	0.77600	3,042	9,772
15	652	753	7641520	0.63180	3,436	3,968
16	440	833	7649790	0.82700	3,035	5,745
17	390	610	7655886	0.60960	1,983	3,101
18	745	452	7661996	0.61100	3,796	2,303
19	670	2080	7669381	0.73850	4,127	12,811
20	650	1245	7678585	0.92040	4,989	9,557
21	600	1470	7686884	0.82990	4,153	10,174
22	642	965	7697297	1.04130	5,575	8,380
23	618	920	7706434	0.91370	4,709	7,011
24	630	1073	7715842	0.94080	4,943	8,419
25	625	1007	7723948	0.81060	4,225	6,808
26	560	1067	7733590	0.96420	4,503	8,580
27	825	640	7741680	0.80900	5,566	4,318
28	590	1230	7752317	1.06370	5,234	10,912
29	602	907	7759436	0.71190	3,574	5,385
30	620	727	7766124	0.66880	3,458	4,055
TOTAL				22.64090	113,264	184,934
AVER	600	945		0.75470	3,775	6,164

REVIEWED BY: Chris DATE: 5-10-90

APPROVED BY: [signature] DATE: 5/10/90

CONTRACT CUSTOMER BILLING DATA

WALDORF — MARCH 1990 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	7303566	********	******	******
01	.265	1020	7312604	0.90380	1,997	7,688
02	485	458	7318341	0.57370	2,321	2,191
03	390	139	7324253	0.59120	1,923	685
04	530	198	7331680	0.74270	3,283	1,226
05	410	688	7338224	0.65440	2,238	3,755
06	440	1313	7347039	0.88150	3,235	9,653
07	390	1257	7352734	0.56950	1,852	5,970
08	570	1640	7360122	0.73880	3,512	10,105
09	470	2713	7367450	0.73280	2,872	16,581
10	430	2380	7375923	0.84730	3,039	16,818
11	715	2113	7383203	0.72800	4,341	12,829
12	625	1650	7395038	1.18350	6,169	16,286
13	580	1300	7403283	0.82450	3,988	8,939
14	650	1350	7412319	0.90360	4,898	10,174
15	570	372	7422603	1.02840	4,889	3,191
16	635	540	7429595	0.69920	3,703	3,149
17	595	607	7437594	0.79990	3,969	4,049
18	660	256	7444319	0.67250	3,702	1,436
19	665	688	7457331	1.30120	7,217	7,466
20	760	695	7458247	0.09160	581	531
21	715	460	7465776	0.75290	4,490	2,888
22	880	620	7473555	0.77790	5,709	4,022
23	500	460	7481046	0.74910	3,124	2,874
24	595	650	7487605	0.65590	3,255	3,556
25	510	735	7494587	0.69820	2,970	4,280
26	730	690	7499830	0.52430	3,192	3,017
27	480	860	7506684	0.68540	2,744	4,916
28	648	635	7515899	0.92150	4,980	4,880
29	760	1300	7524861	0.89620	5,680	9,717
30	705	1025	7532206	0.73450	4,319	6,279
31	515	745	7539715	0.75090	3,225	4,666
TOTAL				23.61490	113,416	193,818
AVER	577	953		0.76177	3,659	6,252

REVIEWED BY: Chris DATE: 4-6-90

APPROVED BY: CWO DATE: 4/9/90

CONTRACT CUSTOMER BILLING DATA

WALDORF — FEBRUARY 1990 — # DAYS 28

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	7061487	********	******	******
01	605	485	7068482	0.69950	3,529	2,829
02	665	548	7074191	0.57090	3,166	2,609
03	440	672	7081475	0.72840	2,673	4,082
04	400	540	7088551	0.70760	2,361	3,187
05	480	860	7096846	0.82950	3,321	5,950
06	480	675	7107270	1.04240	4,173	5,868
07	612	905	7117346	1.00760	5,143	7,605
08	490	616	7127019	0.96730	3,953	4,969
09	520	812	7134628	0.76090	3,300	5,153
10	460	2320	7143096	0.84680	3,249	16,385
11	475	956	7150841	0.77450	3,068	6,175
12	690	1440	7158266	0.74250	4,273	8,917
13	550	908	7168268	1.00020	4,588	7,574
14	625	488	7178822	1.05540	5,501	4,295
15	647	510	7188149	0.93270	5,033	3,967
16	582	615	7198017	0.98680	4,790	5,061
17	610	436	7207205	0.91880	4,674	3,341
18	380	450	7216671	0.94660	3,000	3,553
19	500	485	7227450	1.07790	4,495	4,360
20	500	604	7235386	0.79360	3,309	3,998
21	558	408	7247988	1.26020	5,865	4,288
22	495	270	7258127	1.01390	4,186	2,283
23	560	580	7265600	0.74730	3,490	3,615
24	645	884	7272368	0.67680	3,641	4,990
25	240	472	7280572	0.82040	1,642	3,229
26	440	520	7287855	0.72830	2,673	3,158
27	190	535	7295250	0.73950	1,172	3,300
28	470	885	7303566	0.83160	3,260	6,138
TOTAL				24.20790	103,526	140,880
AVER	511	710		0.86457	3,697	5,031

REVIEWED BY: D. M. DATE: 3-7-90

APPROVED BY: [signature] DATE: 3/7/90

CONTRACT CUSTOMER BILLING DATA

WALDORF — JANUARY 1990 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	6802067	********	******	******
01	270	616	6811644	0.95770	2,157	4,920
02	335	3270	6821608	0.99640	2,784	27,174
03	350	980	6836100	1.44920	4,230	11,845
04	320	365	6850779	1.46790	3,918	4,468
05	340	300	6862461	1.16820	3,313	2,923
06	365	584	6874544	1.20830	3,678	5,885
07	400	600	6885610	1.10660	3,692	5,537
08	585	904	6891363	0.57530	2,807	4,337
09	710	1208	6898372	0.70090	4,150	7,061
10	660	1224	6905227	0.68550	3,773	6,998
11	665	1093	6913114	0.78870	4,374	7,189
12	722	1390	6919951	0.68370	4,117	7,926
13	630	1276	6927132	0.71810	3,773	7,642
14	640	740	6934525	0.73930	3,946	4,563
15	703	1030	6940520	0.59950	3,515	5,150
16	720	676	6945765	0.52450	3,150	2,957
17	750	572	6952120	0.63550	3,975	3,032
18	615	645	6961220	0.91000	4,667	4,895
19	455	872	6968419	0.71990	2,732	5,235
20	712	992	6975995	0.75760	4,499	6,268
21	500	832	6984002	0.80070	3,339	5,556
22	540	1036	6993688	0.96860	4,362	8,369
23	520	740	7002391	0.87030	3,774	5,371
24	590	594	7010076	0.76850	3,781	3,807
25	645	708	7017648	0.75720	4,073	4,471
26	560	630	7024263	0.66150	3,089	3,476
27	510	1020	7031781	0.75180	3,198	6,395
28	490	558	7038896	0.71150	2,908	3,311
29	510	600	7044768	0.58720	2,498	2,938
30	590	900	7053645	0.88770	4,368	6,663
31	490	720	7061487	0.78420	3,205	4,709
TOTAL				25.94200	111,844	191,072
AVER	545	893		0.83684	3,608	6,164

REVIEWED BY: Chris DATE: 2-7-90

APPROVED BY: [illegible] DATE: 2/8/90

RESPONSES TO:

#16 Process Wastewater
Johnson Controls & St. Regis

Discharge Monitoring Report

Date Range: 01/01/1997 to 05/31/2003
IU : 101 - Johnson Controls - Battle Creek
Site: 1 - Southwest corner of building

Industrial Category: 430 - PULP. PAPER. AND PAPERBOARD
Permit: 101

Parameter : BOD5 - BOD5

--- Sampling --- Date	Number	Collection Method	Sample Type	Comments	Results	Violations
Dailv Limits - Concentration: Min: 0.000 Max: 10.000.000 Max TRC: 14.000.000						
01/15/1998	1	Composite/Grab	Scheduled		90.000 mg/L	
05/19/1998	001	Composite	Scheduled		129.000 mg/L	
08/18/1998	001	Composite	Scheduled		87.000 mg/L	
08/19/1998	001	Composite	Scheduled		102.000 mg/L	
08/20/1998	001	Composite	Scheduled		128.000 mg/L	
12/15/1998	001	Composite	Scheduled		102.000 mg/L	
12/16/1998	001	Composite	Scheduled		105.000 mg/L	
12/17/1998	001	Composite	Scheduled		96.000 mg/L	
01/19/1999	001	Composite/Grab	Scheduled		140.000 mg/L	
01/20/1999	001	Composite	Scheduled		182.000 mg/L	
01/21/1999	001	Composite	Scheduled		200.000 mg/L	
05/18/1999	001	Composite	Scheduled		147.000 mg/L	
05/19/1999	001	Composite	Scheduled		165.000 mg/L	
05/20/1999	001	Composite	Scheduled		140.000 mg/L	
08/17/1999	001	Composite/Grab	Scheduled		92.000 mg/L	
08/18/1999	001	Composite	Scheduled		117.000 mg/L	
08/19/1999	001	Composite	Scheduled		31.000 mg/L	
12/14/1999	001	Composite	Scheduled		174.000 mg/L	
12/15/1999	001	Composite	Scheduled		200.000 mg/L	
12/16/1999	001	Composite	Scheduled		183.000 mg/L	
02/08/2000	001	Composite/Grab	Scheduled		276.000 mg/L	
02/09/2000	001	Composite	Scheduled		354.000 mg/L	
02/10/2000	001	Composite	Scheduled		288.000 mg/L	
05/17/2000	001	Composite/Grab	Scheduled		179.000 mg/L	
05/18/2000	001	Composite	Scheduled		135.000 mg/L	
08/15/2000	001	Composite/Grab	Scheduled		234.000 mg/L	
08/16/2000	001	Composite	Scheduled		164.000 mg/L	
08/17/2000	001	Composite	Scheduled		184.000 mg/L	

** No Detect results calculated using [Detection Level x 0 50]*

VIOLATION CODES *< = Violates minimum limit* *> = Violates maximum limit* *! = TRC violation*

Discharge Monitoring Report

Date Range: 01/01/1997 to 05/31/2003

IU : 101 - Johnson Controls - Battle Creek

Site: 1 - Southwest corner of building

Industrial Category: 430 - PULP, PAPER, AND PAPERBOARD

Permit: 101

Parameter : BOD5 - BOD5

--- Sampling --- Date	Number	Collection Method	Sample Type	Comments	Results	Violations
Daily Limits - Concentration: Min: 0.000 Max: 10,000.000 Max TRC: 14,000.000						
12/13/2000	001	Composite	Scheduled		234.000 mg/L	
12/14/2000	001	Composite	Scheduled		312.000 mg/L	
02/06/2001	001	Composite/Grab	Scheduled		228.000 mg/L	
02/07/2001	001	Composite	Scheduled		172.000 mg/L	
02/08/2001	001	Composite	Scheduled		228.000 mg/L	
05/15/2001	001	Composite	Scheduled		132.000 mg/L	
05/16/2001	001	Composite/Grab	Scheduled		147.000 mg/L	
05/17/2001	001	Composite	Scheduled		120.000 mg/L	
06/28/2001	001	Composite	Scheduled	No composite sample was collected due to sampler malfunction .	198.000 mg/L	
09/11/2001	001	Composite	Scheduled		201.000 mg/L	
09/12/2001	001	Composite/Grab	Scheduled		189.000 mg/L	
09/13/2001	001	Composite	Scheduled		198.000 mg/L	
12/04/2001	001	Composite	Scheduled		214.000 mg/L	
12/05/2001	001	Composite/Grab	Scheduled		195.000 mg/L	
12/06/2001	001	Composite	Scheduled		201.000 mg/L	
02/12/2002	001	Composite	Scheduled		252.000 mg/L	
02/13/2002	001	Composite	Scheduled		270.000 mg/L	
02/14/2002	001	Composite	Scheduled		234.000 mg/L	
05/14/2002	001	Composite	Scheduled		258.000 mg/L	
05/15/2002	001	Composite	Scheduled		222.000 mg/L	
09/11/2002	001	Composite	Scheduled		190.000 mg/L	
12/04/2002	001	Composite	Scheduled		270.000 mg/L	
12/05/2002	001	Composite	Scheduled		264.000 mg/L	

** No Detect results calculated using [Detection Level x 0 50]*

VIOLATION CODES < = Violates minimum limit > = Violates maximum limit / = TRC violation

Discharge Monitoring Report

Date Range: 01/01/1997 to 05/31/2003
IU : 101 - Johnson Controls - Battle Creek
Site: 1 - Southwest corner of building
Industrial Category: 430 - PULP, PAPER, AND PAPERBOARD
Permit: 101

Parameter : pH - pH

--- Sampling --- Date	Number	Collection Method	Sample Type	Comments	Results	Violations
Daily Limits - Concentration: Min: 6.000 Max: 9.500 Max TRC: 9.500						
01/15/1998	1	Composite/Grab	Scheduled		7.200 S.U.	
05/19/1998	001	Composite	Scheduled		7.200 S.U.	
08/18/1998	001	Composite	Scheduled		7.300 S.U.	
08/19/1998	001	Composite	Scheduled		7.300 S.U.	
08/20/1998	001	Composite	Scheduled		7.200 S.U.	
01/19/1999	001	Composite/Grab	Scheduled		7.800 S.U.	
05/18/1999	001	Composite	Scheduled		7.600 S.U.	
05/19/1999	001	Composite	Scheduled		7.600 S.U.	
08/17/1999	001	Composite/Grab	Scheduled		8.000 S.U.	
02/08/2000	001	Composite/Grab	Scheduled		7.800 S.U.	
05/17/2000	001	Composite/Grab	Scheduled		7.500 S.U.	
08/15/2000	001	Composite/Grab	Scheduled		7.600 S.U.	
02/06/2001	001	Composite/Grab	Scheduled		7.900 S.U.	
05/16/2001	001	Composite/Grab	Scheduled		7.800 S.U.	
12/05/2001	001	Composite/Grab	Scheduled		7.900 S.U.	

Parameter : Phenl - Phenol

--- Sampling --- Date	Number	Collection Method	Sample Type	Comments	Results	Violations
Daily Limits - Concentration: Min: 0.000 Max: 3.000 Max TRC: 3.600						
05/19/1998	001	Composite	Scheduled		1.000 mg/L	
05/20/1998	001	Composite	Scheduled	No composite sample due to sampler failure.	ND (<0.100) mg/L	
08/18/1998	001	Composite	Scheduled		1.000 mg/L	
01/19/1999	001	Composite/Grab	Scheduled		ND (<0.100) mg/L	
05/18/1999	001	Composite	Scheduled		2.000 mg/L	
05/19/1999	001	Composite	Scheduled		1.000 mg/L	
08/17/1999	001	Composite/Grab	Scheduled		0.400 mg/L	

** No Detect results calculated using [Detection Level x 0 50]*

VIOLATION CODES *< = Violates minimum limit* *> = Violates maximum limit* *! = TRC violation*

Discharge Monitoring Report

Date Range: 01/01/1997 to 05/31/2003
IU : 101 - Johnson Controls - Battle Creek
Site: 1 - Southwest corner of building
Industrial Category: 430 - PULP, PAPER, AND PAPERBOARD
Permit: 101

Parameter : Phenl - Phenol

— Sampling — Date	Number	Collection Method	Sample Type	Comments	Results	Violations
Daily Limits - Concentration: Min: 0.000 Max: 3.000 Max TRC: 3.600						
02/08/2000	001	Composite/Grab	Scheduled		0.600 mg/L	
05/17/2000	001	Composite/Grab	Scheduled		2.000 mg/L	
08/15/2000	001	Composite/Grab	Scheduled		0.400 mg/L	
02/06/2001	001	Composite/Grab	Scheduled		2.000 mg/L	
05/16/2001	001	Composite/Grab	Scheduled		1.000 mg/L	
06/28/2001	001	Composite	Scheduled	No composite sample was collected due to sampler malfunction .	ND (<0.100) mg/L	
09/12/2001	001	Composite/Grab	Scheduled		2.000 mg/L	
12/05/2001	001	Composite/Grab	Scheduled		3.000 mg/L	

Parameter : TSS - TSS

— Sampling — Date	Number	Collection Method	Sample Type	Comments	Results	Violations
Daily Limits - Concentration: Min: 0.000 Max: 10,000.000 Max TRC: 14,000.000						
01/15/1998	1	Composite/Grab	Scheduled		68.000 mg/L	
05/19/1998	001	Composite	Scheduled		232.000 mg/L	
08/18/1998	001	Composite	Scheduled		158.000 mg/L	
08/19/1998	001	Composite	Scheduled		233.000 mg/L	
08/20/1998	001	Composite	Scheduled		294.000 mg/L	
12/15/1998	001	Composite	Scheduled		102.000 mg/L	
12/16/1998	001	Composite	Scheduled		144.000 mg/L	
12/17/1998	001	Composite	Scheduled		78.000 mg/L	
01/19/1999	001	Composite/Grab	Scheduled		337.000 mg/L	
01/20/1999	001	Composite	Scheduled		224.000 mg/L	
01/21/1999	001	Composite	Scheduled		380.000 mg/L	
05/18/1999	001	Composite	Scheduled		275.000 mg/L	
05/19/1999	001	Composite	Scheduled		302.000 mg/L	

** No Detect results calculated using [Detection Level x 0 50]*

VIOLATION CODES < = Violates minimum limit > = Violates maximum limit ! = TRC violation

Discharge Monitoring Report

Date Range: 01/01/1997 to 05/31/2003

IU : 101 - Johnson Controls - Battle Creek

Site: 1 - Southwest corner of building

Industrial Category: 430 - PULP, PAPER, AND PAPERBOARD

Permit: 101

Parameter : TSS - TSS

— Sampling — Date	Number	Collection Method	Sample Type	Comments	Results	Violations
Daily Limits - Concentration: Min: 0.000 Max: 10,000.000 Max TRC: 14,000.000						
05/20/1999	001	Composite	Scheduled		192.000 mg/L	
08/17/1999	001	Composite/Grab	Scheduled		116.000 mg/L	
08/18/1999	001	Composite	Scheduled		134.000 mg/L	
08/19/1999	001	Composite	Scheduled		37.000 mg/L	
12/14/1999	001	Composite	Scheduled		274.000 mg/L	
12/15/1999	001	Composite	Scheduled		297.000 mg/L	
12/16/1999	001	Composite	Scheduled		212.000 mg/L	
02/08/2000	001	Composite/Grab	Scheduled		530.000 mg/L	
02/09/2000	001	Composite	Scheduled		1,240.000 mg/L	
02/10/2000	001	Composite	Scheduled		540.000 mg/L	
05/17/2000	001	Composite/Grab	Scheduled		192.000 mg/L	
05/18/2000	001	Composite	Scheduled		175.000 mg/L	
08/15/2000	001	Composite/Grab	Scheduled		625.000 mg/L	
08/16/2000	001	Composite	Scheduled		230.000 mg/L	
08/17/2000	001	Composite	Scheduled		300.000 mg/L	
12/13/2000	001	Composite	Scheduled		414.000 mg/L	
12/14/2000	001	Composite	Scheduled		456.000 mg/L	
02/06/2001	001	Composite/Grab	Scheduled		292.000 mg/L	
02/07/2001	001	Composite	Scheduled		141.000 mg/L	
02/08/2001	001	Composite	Scheduled		284.000 mg/L	
05/15/2001	001	Composite	Scheduled		154.000 mg/L	
05/16/2001	001	Composite/Grab	Scheduled		178.000 mg/L	
05/17/2001	001	Composite	Scheduled		218.000 mg/L	
06/28/2001	001	Composite	Scheduled	No composite sample was collected due to sampler malfunction .	432.000 mg/L	
09/11/2001	001	Composite	Scheduled		136.000 mg/L	
09/12/2001	001	Composite/Grab	Scheduled		152.000 mg/L	
09/13/2001	001	Composite	Scheduled		155.000 mg/L	

** No Detect results calculated using [Detection Level x 0 50]*

VIOLATION CODES < = Violates minimum limit > = Violates maximum limit / = TRC violation

Discharge Monitoring Report

Date Range: 01/01/1997 to 05/31/2003
IU : 101 - Johnson Controls - Battle Creek
Site: 1 - Southwest corner of building
Industrial Category: 430 - PULP, PAPER, AND PAPERBOARD
Permit: 101

Parameter : TSS - TSS

— Sampling — Date	Number	Collection Method	Sample Type	Comments	Results	Violations
Daily Limits - Concentration: Min: 0.000 Max: 10,000.000 Max TRC: 14,000.000						
12/04/2001	001	Composite	Scheduled		82.000 mg/L	
12/05/2001	001	Composite/Grab	Scheduled		67.000 mg/L	
12/06/2001	001	Composite	Scheduled		119.000 mg/L	
02/12/2002	001	Composite	Scheduled		260.000 mg/L	
02/13/2002	001	Composite	Scheduled		194.000 mg/L	
02/14/2002	001	Composite	Scheduled		312.000 mg/L	
05/14/2002	001	Composite	Scheduled		91.000 mg/L	
05/15/2002	001	Composite	Scheduled		185.000 mg/L	
09/11/2002	001	Composite	Scheduled		132.000 mg/L	
12/04/2002	001	Composite	Scheduled		76.000 mg/L	
12/05/2002	001	Composite	Scheduled		180.000 mg/L	

** No Detect results calculated using [Detection Level x 0 50]*

VIOLATION CODES *< = Violates minimum limit* *> = Violates maximum limit* *! = TRC violation*

ENT'D NOV 26 1997

INDUSTRIAL SURVEILLANCE
SAMPLING RESULTS

Company Name: **American Fibrit, Inc.**

IU Code: **101**
Flow: **121,000** GPD

Date: 11/12/97

BOD-5 Day	174	mg/L
Suspended Solids	232	mg/L
pH	7.4	S.U.
Phenol	NS	mg/L

Date: 11/13/97

BOD-5 Day	117	mg/L
Suspended Solids	136	mg/L
pH	7.4	S.U.
Phenol	1.0	mg/L

Date: ___/___/___

BOD-5 Day		mg/L
Suspended Solids		mg/L
pH		S.U.
Phenol		mg/L

American Fibrit, Inc.

LABORATORY REPORT

KAR Project No. : 972922

Client: *American Fibrit, Inc.*

Date Reported : *09/02/97*

Project Description : *Quarterly sampling and analysis of one wastewater discharge.*

Sample ID : *"48 Hr. Composite, 8/18-20/97, 10:30am-11:15am"*

Sampled By : *SNH of KAR Laboratories*
Sample Date :
Sample Time :

Date Received : *8/20/97*
Sample Type : *aqueous*
KAR Sample No. : *972922-01*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
BOD	*101*	*mg/L*	*SM(18) 5210 B*	*8/20/97*	*RJC*	
Suspended solids, total	*151*	*mg/L*	*EPA 160.2*	*8/27/97*	*PML*	

Sample ID : *"Grab"*

Sampled By : *SNH of KAR Laboratories*
Sample Date : *8/20/97*
Sample Time : *11:15am*

Date Received : *8/20/97*
Sample Type : *aqueous*
KAR Sample No. : *972922-02*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
PH	*7.7*	*S.U.*	*EPA 150.1*	*8/20/97*	*RJC*	

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ENT'D SEP 04 1997

INDUSTRIAL SURVEILLANCE
SAMPLING RESULTS

Company Name: **American Fibrit, Inc.**

IU Code: **101**

Flow: **121,000** GPD

Date: 8/19/97

BOD-5 Day	~~738~~ 96 ~~43~~	mg/L
Suspended Solids	113 ~~96~~	mg/L
pH	7.6	S.U.
Phenol	< 0.1	mg/L

Date: 8/20/97

BOD-5 Day	88	mg/L
Suspended Solids	70	mg/L
pH	7.2	S.U.
Phenol	NS	mg/L

Date: 8/21/97

BOD-5 Day	90	mg/L
Suspended Solids	124	mg/L
pH	7.2	S.U.
Phenol	NS	mg/L

American Fibrit, Inc.

LABORATORY REPORT

KAR Project No. : *971509*

Client: *American Fibrit, Inc.*

Date Reported : *05/19/97*

Project Description : *Quarterly sampling and analysis of one wastewater discharge.*

Sample ID : *"48 Hr. Composite, 5/6-8/97, 12:45pm-1:48pm"*

Sampled By : *SNH of KAR Laboratories*

Sample Date :

Sample Time :

Date Received : *5/8/97*

Sample Type : *aqueous*

KAR Sample No. : *971509-01*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
BOD	*128*	*mg/L*	*SM(19) 5210 B*	*5/8/97*	*RJC*	
Suspended solids, total	*89*	*mg/L*	*EPA 160.2*	*5/14/97*	*PML*	

Sample ID : *"Grab"*

Sampled By : *SNH of KAR Laboratories*

Sample Date : *5/8/97*

Sample Time : *1:48pm*

Date Received : *5/8/97*

Sample Type : *aqueous*

KAR Sample No. : *971509-02*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
PH	*7.7*	*S.U.*	*EPA 150.1*	*5/8/97*	*RJC*	

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ENTD JUN 0 3 1997

INDUSTRIAL SURVEILLANCE
SAMPLING RESULTS

Company Name: AMERICAN FIBRIT

IU Code: 101
Flow: 121,000 GPD

DATE: 05/20/97

BOD-5 DAY	140	MG/L
SUSPENDED SOLIDS	193	MG/L
pH-LAB	7.3	S.U.
PHENOLS	2.0	MG/L

DATE: 05/21/97

BOD-5 DAY	64	MG/L
SUSPENDED SOLIDS	115	MG/L
pH-LAB	7.4	S.U.
PHENOLS	1.0	MG/L

DATE: 05/22/97

BOD-5 DAY	78	MG/L
SUSPENDED SOLIDS	310	MG/L
pH-LAB	7.4	S.U.
PHENOLS	2.0	MG/L

AMERICAN FIBRIT, INC.

LABORATORY REPORT

KAR Project No. : *970345*

Client: *American Fibrit, Inc.*

Date Reported : *02/17/97*

Project Description : *Quarterly sampling and analysis of one wastewater discharge.*

Sample ID : *"48 Hr. Composite, 2/3-5/97, 1:34pm-2:08pm"*

Sampled By : *SNH of KAR Laboratories*
Sample Date :
Sample Time :

Date Received : *2/5/97*
Sample Type : *aqueous*
KAR Sample No. : *970345-01*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
BOD	*185*	*mg/L*	*SM(19) 5210 B*	*2/6/97*	*RJC*	
Suspended solids, total	*46*	*mg/L*	*EPA 160.2*	*2/7/97*	*KAC*	

Sample ID : *"Grab"*

Sampled By : *SNH of KAR Laboratories*
Sample Date : *2/5/97*
Sample Time : *2:08pm*

Date Received : *2/5/97*
Sample Type : *aqueous*
KAR Sample No. : *970345-02*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
PH	*8.0*	*S.U.*	*EPA 150.1*	*2/5/97*	*KAC*	

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ENTD JAN 30 1997

INDUSTRIAL SURVEILLANCE
SAMPLING RESULTS

Company Name: AMERICAN FIBRIT

IU Code: 101
Flow: 121,000 GPD

DATE: 01/14/97

BOD-5 DAY	183	MG/L
SUSPENDED SOLIDS	428	MG/L
pH-LAB	7.6	S.U.
PHENOLS	NS	MG/L

DATE: 01/15/97

BOD-5 DAY	N.S	MG/L
SUSPENDED SOLIDS		MG/L
pH-LAB		S.U.
PHENOLS	3.0	MG/L

DATE: 01/16/97

BOD-5 DAY	NS	MG/L
SUSPENDED SOLIDS		MG/L
pH-LAB		S.U.
PHENOLS		MG/L

NS - BLIZZARD '97.

AMERICAN FIBRIT, INC.

LABORATORY REPORT

KAR Project No. : ***963225***

Client: ***American Fibrit, Inc.***

Date Reported : ***12/03/96***

Project Description : ***Quarterly sampling and analysis of one wastewater discharge.***

Sample ID : ***"48 Hr. Composite, 11/18-20/96, 2:55-2:00"***

Sampled By : ***SNH of KAR Laboratories***
Sample Date :
Sample Time :

Date Received : ***11/20/96***
Sample Type : ***aqueous***
KAR Sample No. : ***963225-01***

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
BOD	*77*	*mg/L*	*SM(19) 5210 B*	*11/21/96*	*RJC*	
Suspended solids, total	*126*	*mg/L*	*EPA 160.2*	*11/24/96*	*KAC*	

Sample ID : ***"Grab"***

Sampled By : ***SNH of KAR Laboratories***
Sample Date : ***11/20/96***
Sample Time : ***2:00pm***

Date Received : ***11/20/96***
Sample Type : ***aqueous***
KAR Sample No. : ***963225-02***

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
PH	*7.9*	*S.U.*	*EPA 150.1*	*11/20/96*	*KAC*	

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INDUSTRIAL SURVEILLANCE
SAMPLING RESULTS

Company Name: AMERICAN FIBRIT

ENTD NOV 20 1996

DATE: 11/12/96

BOD-5 DAY	86	MG/L
SUSPENDED SOLIDS	138	MG/L
pH-LAB	7.6	S.U.
PHENOLS	NS	MG/L

DATE: 11/13/96

BOD-5 DAY	174	MG/L
SUSPENDED SOLIDS	558	MG/L
pH-LAB	7.5	S.U.
PHENOLS	NS	MG/L

DATE: 11/14/96

BOD-5 DAY	54	MG/L
SUSPENDED SOLIDS	87	MG/L
pH-LAB	7.8	S.U.
PHENOLS	NS	MG/L

AMERICAN FIBRIT, INC.

LABORATORY REPORT

KAR Project No. : ***962153***

Client: ***American Fibrit, Inc.***

Date Reported : ***08/26/96***

Project Description : ***Quarterly sampling and analysis of one wastewater discharge.***

Sample ID : ***48 Hr. Composite, 8/12-14/96, 2:30pm-3:14pm***

Sampled By : ***SNH of KAR Laboratories***
Sample Date :
Sample Time :

Date Received : ***8/14/96***
Sample Type : ***aqueous***
KAR Sample No. : ***962153-01***

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
BOD	*5*	*mg/L*	*SM(19) 5210 B*	*8/15/96*	*ALW*	
Suspended solids, total	*12*	*mg/L*	*EPA 160.2*	*8/15/96*	*PML*	

Sample ID : ***Grab***

Sampled By : ***SNH of KAR Laboratories***
Sample Date : ***8/14/96***
Sample Time : ***3:14pm***

Date Received : ***8/14/96***
Sample Type : ***aqueous***
KAR Sample No. : ***962153-02***

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
PH	*7.6*	*S.U.*	*EPA 150.1*	*8/14/96*	*PML*	

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ENTD SEP 04 1996

INDUSTRIAL SURVEILLANCE
SAMPLING RESULTS

Company Name: AMERICAN FIBRIT

IU Code: 101
Flow: 121,000 GPD

DATE: 08/20/96

Sampler Not Installed →

BOD-5 DAY	NS	MG/L
SUSPENDED SOLIDS	↓	MG/L
pH-LAB	↓	S.U.
PHENOLS	↓	MG/L

DATE: 08/21/96

BOD-5 DAY	NS	MG/L
SUSPENDED SOLIDS	↓	MG/L
pH-LAB	↓	S.U.
PHENOLS	NS	MG/L

flow too low →

DATE: 08/22/96

BOD-5 DAY	16	MG/L
SUSPENDED SOLIDS	24	MG/L
pH-LAB	7.8	S.U.
PHENOLS	NS	MG/L

LABORATORY REPORT

ENTD JUL 22

KAR Project No.: 961450

Client: *American Fibrit, Inc.*

Date Reported : *06/14/96*

Project Description : *Quarterly sampling and analysis of one wastewater discharge.*

Sample ID : *"48 Hr. Composite, 6/5-7/96, 1:48pm-2:45pm"*
Sampled By : *SNH of KAR Laboratories*
Sample Date :
Sample Time :
Date Received : *6/7/96*
Sample Type : *aqueous*
KAR Sample No. : *961450-01*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
BOD	199	mg/L	SM(19) 5210 B	6/7/96	ALW	
Suspended solids, total	427	mg/L	EPA 160.2	6/10/96	PML	

Sample ID : *"Grab"*
Sampled By : *SNH of KAR Laboratories*
Sample Date : *6/7/96*
Sample Time : *2:45pm*
Date Received : *6/7/96*
Sample Type : *aqueous*
KAR Sample No. : *961450-02*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
PH	7.6	S.U.	EPA 150.1	6/7/96	CAS	

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INDUSTRIAL SURVEILLANCE
SAMPLING RESULTS

ENTD JUN 05 1996

Company Name: AMERICAN FIBRIT

IU Code: 101
Flow: 121,000 GPD

DATE: 05/21/96

BOD-5 DAY	70	MG/L
SUSPENDED SOLIDS	256	MG/L
pH-LAB	7.5	S.U.
PHENOLS	NS	MG/L

DATE: 05/22/96

BOD-5 DAY	30	MG/L
SUSPENDED SOLIDS	16	MG/L
pH-LAB	7.6	S.U.
PHENOLS	NS	MG/L

DATE: 05/23/96

BOD-5 DAY	132	MG/L
SUSPENDED SOLIDS	270	MG/L
pH-LAB	7.3	S.U.
PHENOLS	NS	MG/L

No Phenol Samples taken due to low flow. BH 05/23/96

LABORATORY REPORT

KAR Project No. : ***960519***

Client: ***American Fibrit, Inc.***

Date Reported : ***03/13/96***

Project Description : ***Quarterly sampling and analysis of one wastewater discharge.***

Sample ID : ***"48 Hr. Composite, 2/28-3/1/96, 2:35-2:44pm"***

Sampled By : *SNH of KAR Laboratories*
Sample Date :
Sample Time :

Date Received : *3/1/96*
Sample Type : *aqueous*
KAR Sample No. : *960519-01*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
BOD	*197*	*mg/L*	*SM Ed18 5210 B*	*3/1/96*	*ALW*	
Suspended solids, total	*53*	*mg/L*	*EPA 160.2*	*3/7/96*	*PML*	

Sample ID : ***"Grab"***

Sampled By : *SNH of KAR Laboratories*
Sample Date : *3/1/96*
Sample Time : *2:44pm*

Date Received : *3/1/96*
Sample Type : *aqueous*
KAR Sample No. : *960519-02*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
PH	*8.2*	*S.U.*	*EPA 150.1*	*3/1/96*	*CAS*	

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INDUSTRIAL SURVEILLANCE
SAMPLING RESULTS

Company Name: AMERICAN FIBRIT

ENTD JAN 30 1996

IU Code: 1961

Flow: 121,000 GPD

DATE: 01/16/96

BOD-5 DAY	NS	MG/L
SUSPENDED SOLIDS		MG/L
pH-LAB		S.U.
PHENOLS		MG/L

DATE: 01/17/96

BOD-5 DAY	36	MG/L
SUSPENDED SOLIDS	30	MG/L
pH-LAB	7.8	S.U.
PHENOLS	< 0.1	MG/L

DATE: 01/18/96

BOD-5 DAY	30	MG/L
SUSPENDED SOLIDS	53	MG/L
pH-LAB	7.7	S.U.
PHENOLS	NS	MG/L

ANALYTICAL REPORT

ENTD DEC 27 1995

KAR Project No. : **953392**

Client: ***American Fibrit, Inc.***

Date Reported : ***11/27/95***

Project Description : *Semi-annual wastewater sampling and analysis.*

Sample ID : ***"48 Hr. Composite, 11/7-9/95, 10:23-12:08pm"***

Sampled By : *SNH of KAR Laboratories*
Sample Date :
Sample Time :

Date Received : *11/9/95*
Sample Type : *aqueous*
KAR Sample No. : *953392-01*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
BOD	*28*	*mg/L*	*SM Ed18 5210 B*	*11/10/95*	*ALW*	
Suspended solids, total	*54*	*mg/L*	*EPA 160.2*	*11/10/95*	*PMiL*	

Sample ID : ***"Grab"***

Sampled By : *SNH of KAR Laboratories*
Sample Date : *11/9/95*
Sample Time : *12:08pm*

Date Received : *11/9/95*
Sample Type : *aqueous*
KAR Sample No. : *953392-02*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
PH	*7.8*	*S.U.*	*EPA 150.1*	*11/9/95*	*CAS*	
2,4,6-Trichlorophenol	*<10*	*ug/L*	*EPA 8270B*	*11/16/95*	*KTL*	
2,4-Dichlorophenol	*<10*	*ug/L*	*EPA 8270B*	*11/16/95*	*KTL*	
2-Chlorophenol	*<10*	*ug/L*	*EPA 8270B*	*11/16/95*	*KTL*	
Pentachlorophenol	*<10*	*ug/L*	*EPA 8270B*	*11/16/95*	*KTL*	

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ENTD JAN 25 1995

INDUSTRIAL SURVEILLANCE
SAMPLING RESULTS

Company Name: AMERICAN FIBRIT

IU Code: 101
Flow: 121,000 GPD

DATE: 10/17/95	BOD-5 DAY	94	MG/L
	SUSPENDED SOLIDS	180	MG/L
	pH-LAB	7.8	S.U.
	PHENOLS	<0.1	MG/L
DATE: 10/18/95	BOD-5 DAY	59	MG/L
	SUSPENDED SOLIDS	240	MG/L
	pH-LAB	7.8	S.U.
	PHENOLS	1.0	MG/L
DATE: 10/19/95	BOD-5 DAY	260	MG/L
	SUSPENDED SOLIDS	180	MG/L
	pH-LAB	7.7	S.U.
	PHENOLS	NS	MG/L

AMERICAN FIBRIT, INC.

ANALYTICAL REPORT

KAR Project No. : **952661**

Client: ***American Fibrit, Inc.***

ENTD OCT 06 1995

Date Reported : ***09/13/95***

Project Description : ***Quarterly sampling and analysis of one wastewater discharge.***

Sample ID : ***"48 Hr. Composite, 8/29-31/95, 12:15-1:00pm"***

Sampled By : *SNH of KAR Laboratories*
Sample Date :
Sample Time :

Date Received : *8/31/95*
Sample Type : *aqueous*
KAR Sample No. : *952661-01*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
BOD	*486*	*mg/L*	*SM Ed18 5210 B*	*8/31/95*	*ALW*	
Suspended solids, total	*603*	*mg/L*	*EPA 160.2*	*9/6/95*	*CCP*	

Sample ID : ***"Grab"***

Sampled By : *SNH of KAR Laboratories*
Sample Date : *8/31/95*
Sample Time : *1:00pm*

Date Received : *8/31/95*
Sample Type : *aqueous*
KAR Sample No. : *952661-02*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
PH	*7.4*	*S.U.*	*EPA 150.1*	*8/31/95*	*CAS*	

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INDUSTRIAL SURVEILLANCE
SAMPLING RESULTS

ENTD SEP 7 1995

Company Name: AMERICAN FIBRE

IU Code: 101
Flow: 121,000 GPD

DATE: 08/22/95

BOD-5 DAY	30	MG/L
SUSPENDED SOLIDS	50	MG/L
pH-LAB	7.8	S.U.
PHENOLS	NS	MG/L

DATE: 08/23/95

BOD-5 DAY	30	MG/L
SUSPENDED SOLIDS	20	MG/L
pH-LAB	7.7	S.U.
PHENOLS	NS	MG/L

DATE: 08/24/95

BOD 5 DAY	30	MG/L
SUSPENDED SOLIDS	105	MG/L
pH-LAB	7.5	S.U.
PHENOLS	NS	MG/L

ANALYTICAL REPORT

KAR Project No. : *951480*

Client: *American Fibrit, Inc.*

Date Reported : *05/30/95*

Project Description : ***Quarterly sampling and analysis of one wastewater discharge.***

Sample ID : *"48 Hr. Composite, 5/17-18/95, 10:20-9:45am"*

Sampled By : *SNH of KAR Laboratories*
Sample Date :
Sample Time :

Date Received : *5/18/95*
Sample Type : *aqueous*
KAR Sample No. : *951480-01*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
BOD	*148*	*mg/L*	*SM Ed18 5210 B*	*5/18/95*	*ALW*	
Suspended solids, total	*314*	*mg/L*	*EPA 160.2*	*5/23/95*	*CCP*	

Sample ID : *"Grab"*

Sampled By : *SNH of KAR Laboratories*
Sample Date : *5/18/95*
Sample Time : *9:45am*

Date Received : *5/18/95*
Sample Type : *aqueous*
KAR Sample No. : *951480-02*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
PH	*8.2*	*S.U.*	*EPA 150.1*	*5/18/95*	*ALW*	

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ENTD JUN 05 1995

INDUSTRIAL SURVEILLANCE
SAMPLING RESULTS

Company Name: AMERICAN FIBRIT

IU Code: 101
Flow: 121,000 GPD

DATE: 05/22/95	BOD-5 DAY	111	MG/L
	SUSPENDED SOLIDS	260	MG/L
	pH-LAB	7.7	S.U.
	PHENOLS	< 0.1	MG/L
DATE: 05/23/95	BOD-5 DAY	45	MG/L
	SUSPENDED SOLIDS	390	MG/L
	pH-LAB	8.3	S.U.
	PHENOLS	0.6	MG/L
DATE: 05/24/95	BOD-5 DAY	30	MG/L
	SUSPENDED SOLIDS	70	MG/L
	pH-LAB	7.9	S.U.
	PHENOLS	NS	MG/L

AMERICAN FIBRIT, INC.

TOTAL ST. REGIS SOLIDS LOADINGS

1-12-80 thru 1-21-80

DATE		WWTP LAB RESULTS AMT NORMALLY BILLED (LBS)	PROBABLE MINIMUM LOADING ACTUALLY RECEIVED (LBS)		PERCENTAGE IN EXCESS OF BILLABLE AMOUNT
1-12-80		10,817	29,208	1	170%
1-13-80		20,604	29,084	1	41%
1-14-80		8,586	13,689	2	59%
1-15-80		18,671	19,976	3	7%
1-16-80		11,619	16,691	3	44%
1-17-80		14,763	21,419	3	45%
1-18-80		11,585	12,253	3	6%
1-19-80		14,989	19,375	3	29%
1-20-80		11,036	13,167	3	19%
1-21-80		11,404	21,030	3	84%
	TL	134,074	195,892		
	ME	13,407	19,589		46%

1 Based on grab samples taken at frequent intervals, as well as actual observations made at St. Regis' plants.

2 Based on grab samples, observations, and retesting of heavy,flocculant samples

3 Based on specially installed sampler (ISCO) composites

Due to the nature of the material being discharged and the ability of the samplers to pump the material all "probable minimums" are felt to be very conservative, Actual loadings may have exceeded these by a large percentage.

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
NOVEMBER 1979

PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS LBS. (CITY)	DORR COMPOSITE SUSPENDED SOLIDS LBS. (CITY)	WACO COMPOSITE SUSPENDED SOLIDS LBS. (CITY)	TOTAL
39,958	11,584	5,838	123	17,545
49,694	13,000	6,234	24	19,258
28,447	13,932	6,117	12	20,061
29,048	8,080	4,015	16	12,111
26,829	6,003	4,218	52	10,273
'1,090	11,589	12,998	674	25,261
104,788*	6,896	13,448	191	20,535
77,955*	3,938	8,387	501	12,826
59,395	3,747	14,081	1,013	18,841
3,997	6,173	12,489	49	18,711
42,182	3,631	4,321	11	7,963
36,921	9,528	8,386	3	17,917
89,703*	6,021	8,512	3	14,536
90,634*	7,780	9,792	11	17,583
117,694*	7,444	10,565	10	18,019
86,604*	8,762	6,206	35	15,003
57,374	9,360	1,787	7	11,154
119,528*	6,981	4,060	1	11,042
122,702*	16,362	4,004	38	20,404
147,797*	9,122	6,695	154	15,971
92,930*	10,126	5,292***	679	16,097
14,221	156	3***	90	249
9,977	653	30***	407	1,090
29,739	3,335	3,222***	2,667	9,224
49,189	5,526	3,427***	200	9,153
37,606	6,084	5,310***	72	11,466
44,836	7,273**	6,554***	11	13,838
84,298*	8,621	4,243***	11	12,875
94,508*	9,325	10,143***	17	19,485
46,127	7,721	8,659***	21	16,401
'AL 1,875,774	228,753	199,036	7,103	434,892
62,526	7,625	6,635	237	14,496
	12%	11%	0.4%	23%

ıfluent sampler malfunction ** St. Regis Sample used to determine pounds
Flow meter broken, estimated flow

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
OCTOBER 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS LBS. (City)	DORR COMPOSITE SUSPENDED SOLIDS LBS. (City)	WACO COMPOSITE SUSPENDED SOLIDS LBS. (City)	TOTAL
1	39,662	6,998	6,390	43	13,421
2	39,180	4,979	5,092	71	10,142
3	35,814	9,667	14,856	250	24,773
4	59,843	10,783	3,985	2,856	17,624
5	58,303	8,918	6,654	6,855	22,427
6	39,315	9,166	7,350	35	16,551
7	44,613	13,700	8,519	1,414	23,633
8	44,901	11,465	9,899	26	21,390
9	32, 13	9,802	4,853	24	14,679
10	48,154*	3,852	9,216	102	13,170
11	29,062	16,147	10,758	76	26,981
12	46,442	9,288	8,091	268	17,647
13	43,632	8,669	4,878	82	13,629
14	37,737	8,947	4,428	1	13,376
15	35,027	7,090**	4,108	1	11,199
16	35,469	9,531	11,895	3	21,429
17	36,763	14,033**	6,988	166	21,187
18	36,772	5,145	5,065	0	10,210
19	19,305	9,647**	7,318	9	16,974
20	38,780	8,162	1,656	12	9,830
21	22,575	11,984	8,171	15	20,170
22	28,606	12,591	7,337	41	19,969
23	33,319	16,431**	5,190	922	22,543
24	90,656*	8,367	1,861	5,364	15,592
25	65,552*	4,149	9,515	2	13,666
26	31,275	5,599	7,342	10	12,951
27	38,193*	6,148	10,551	11	16,710
28	32,801	5,314	8,908	3	14,225
29	45,380	16,550	7,385	1	23,936
30	34,249	8,962	13,178	8	22,148
31	27,579*	7,267	4,728	40	12,035
TL	1,116,697	289,351	226,165	18,711	534,227
ME	37,732	9,334	7,296	604	17,233
%		25%	19%	2%	46%

* Malfunction of Influent Sampler

** Malfunction of N-con sampler used ST. REGIS sample.

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
AUGUST 1979

PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS LBS. (CITY)	DORR COMPOSITE SUSPENDED SOLIDS LBS. (CITY)	WACO COMPOSITE SUSPENDED SOLIDS LBS. (CITY)	TOTAL
36,126	623	7,675	4	8,032
33,360	9,299	6,453	13	15,765
38,833	17,245	2,375	5	19,625
49,609	11,578	4,034	12	15,624
34,152	4,853	8,044	39	12,936
',528	4,221	11,840	4	16,065
-,832	37,303	1,362	1	38,666
36,485	30,198	12,931	104	43,233
68,587	1,416	-	92	1,508*
19,550	-	-	113	113*
22,020	287	-	-	287*
14,315	11	-	-	11*
34,165	20,407** Sampler off	7,268***	1,191	28,866
54,107	6,695	4,652***	238	11,585
37,669	9,144	5,750***	152	15,046
65,281	1,529	3,424***	3	4,956
40,284	8,227 Sampler off	2,073	7	10,307
39,090	14,074	10,745	2	24,821
58,928	14,175	4,842	26	19,043
46,053	5,547	4,091	2	9,640
47,762	11,679	4,590	6	16,275
34,035	4,047	4,785	77	8,909
,969	10,149*	5,248	4	15,401
46,971	7,887	7,806	24	15,717
93,523	8,353	9,080	4	17,437
47,624	7,605	4,610	2	12,217
45,623	8,670	6,029	10	14,709
29,039	7,690	8,207	2	15,899
67,229	7,041	6,327	2	13,370
34,152	8,878	6,203	18	14,939
32,779	3,208*	7,241	3	10,452
1,316,680	281,879	167,685	2,160	451,724
42,474	9.093	5,409	70	14,572
	21%	13%	0%	34%

*St. Regis Sampler **St. Regis Figures *** Based on flow average since shutdown
Angell St. Samples flow proportioned since 8-21-79.

Snell Environmental Group

Engineering · Planning · Research

August 6, 1979

Analytical results for a sample collected from St. Regis-Angel Street Plant, Battle Creek, Michigan on 7/7/79 are as follows:

SEG Number:	9854
Tag:	St. Regis-Angel Street
Total Kjeldahl Nitrogen mg/l	0.12
Phenols mg/l	0.16
Total Phosphorus mg/l	1.7
Sulfate mg/l	66
Zinc mg/l	6.8
Aluminum mg/l	104

Approved by

1120 May St., Lansing, Mich. 48906 • Telephone (517) 374-6800 • Additional Offices in Akron • Indianapolis • Tokyo • Dacca • Amman
CABLE "SNELL" TELEX 229458

Snell Environmental Group

Engineering · Planning · Research

June 1, 1979

Analytical results for wastewater sample collected at St. Regis, Battle Creek, Michigan on 5/3/79 are as follows:

SEG Number:	9369
Tag:	St. Regis, Angell at 1:20 p.m.
suspended Solids (mg/l)	1600

Approved by Michael Schleyer

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Snell Environmental Group

Engineering · Planning · Research

June 1, 1979

Analytical results for sample of unknown discharge to river collected on southwest side of Angell Street Bridge, Battle Creek, Michigan on 4/26/79

SEG Number:	9353
Tag:	River Outfall
Location:	Angell Street
BOD, mg/l	160
Suspended Solids, mg/l	110

Approved by Michael S. Snell

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SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
JUNE 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS lbs. (City)	DORR COMPOSITE SUSPENDED SOLIDS lbs. (City)	WACO COMPOSITE SUSPENDED SOLIDS lbs. (City)	TOTAL
1	92,611	32,252	4,050	176	36,478
2	78,548	30,947	3,379	859	35,185
.	162,647	28,802	12,760	234	41,796
4	78,416	36,433	2,114	122	38,669
5	82,416	46,809	7,821	978	55,608
6	63,881	34,511	1,038	2,141	27,960
7	85,895	30,217	13,993	1,709	45,919
8	199,949	29,653	2,074	6,580	38,307
9	53,669	32,166	5,757	1,547	39,470
10	82,783	26,230	4,117	3,746	34,903
11	80,849	33,605	3,550	6,317	43,472
12	80,849	18,567	9,324	12,593	40,484
13	71,673	23,517	13,804	1,005	38,326
14	99,796	36,315	9,714	1,841	47,870
15	65,325	20,854	4,445	491	25,790
16	49,339	27,275	4,478	2,974	34,727
17	107,428	42,680	3,158	20	45,858
18	70,825	18,002	9,367	126	27,495
1	51,926	14,923	3,986	108	19,017
20	55,185	22,033	8,002	158	30,193
21	141,708	28,049	1,643	185	29,877
22	58,764	64,257	2,626	566	67,449
23	84,491	83,297	1,689	3,054	88,670
24	52,092	72,109	2,662	507	75,278
25	99,076	14,038	6,024	104	20,166
26	80,416	34,180	8,740	150	43,070
27	73,687	10,850	10,436	673	21,959
28	103,403	22,662	9,739	1	32,402
29	75,053	13,583	9,519	88	23,188
30	81,875	15,806	7,551	4,013	27,370
TL	2,564,575	944,622	187,558	53,066	1,176,956
ME	85,486	31,487	6,252	1,769	39,232
		37%	7%	2%	46%

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
MAY 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS lbs (CITY)	DORR COMPOSITE SUSPENDED SOLIDS lbs (CITY)	WACO COMPOSITE SUSPENDED SOLIDS lbs (CITY)	TOTAL
1	39,000	4,164	24,326	3,945	32,435
2	63,900	16,638	22,971	989	40,598
3	89,400	27,775	15,643	16,416	59,834
4	73,100	22,978	51,886	4,975	79,839
5	89,500	9,288	3,975	3,683	16,946
6	71,500	14,259	1,318	530	16,107
7	97,600	43,863	12,892	-	56,755
8	87,000	45,563	5,379	-	50,942
9	84,100	45,912	7,567	-	53,479
10	180,900	18,586	9,972	434	28,992
11	105,500	28,557	4,073	932	33,562
12	73,700	19,600	4,487	955	25,042
13	55,000	22,073	8,496	1,764	32,333
14	184,100	8,831	18,233	98	27,162
15	52,000	26,134	5,486	116	31,736
16	46,800	34,634	11,571	627	46,832
17	102,200	33,029	6,253	175	39,457
18	70,300	33,629	3,122	1,272	38,023
19	99,200	25,076	2,554	774	28,404
20	104,300	25,155	54,604	925	80,684
21	68,500	34,713	5,717	4,940	45,370
22	77,800	29,670	10,754	1,008	41,432
23	59,700	44,530	25,009	567	70,106
24	104,600	35,583	13,723	140	49,446
25	83,600	25,842	3,566	901	30,309
26	50,000	23,197	24,907	559	48,663
27	106,000	32,151	10,014	160	42,325
28	64,000	44,986	4,354	933	50,273
29	71,000	25,080	6,130	339	31,549
30	64,500	24,389	18,404	2,235	45,028
31	106,800	29,670	17,744	795	48,209
TL	2,679,600	855,555	415,130	51,187	1,321,872
ME	86,400	27,599	13,391	1,651	42,641
%		32%	15%	2%	49%

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY

ANGEL PLANT

MAY 79 DATE	FLOW	COMPOSITE SUSPENDED SOLIDS mg/l (CITY)	GRAB * SUSPENDED SOLIDS mg/l (CITY)	COMPOSITE SUSPENDED SOLIDS (lbs) (CITY)	COMPOSITE ** SUSPENDED SOLIDS (lb (ST REGIS)
1	1.5128	330	5,030	4,164	21,000
2	1.7198	1,160	1,040	16,638	16,596
3	2.1767	1,530	2,220	27,774	28,515
4	1.6903	1,630	1,990	22,978	22,413
5	1.4653	760		9,288	7,986
6	1.4412	112		14,259	14,340
7	2.3479	2,240	4,140	43,863	48,132
8	3.2911	1,660	1,950	45,563	44,693
9	2.5369	2,170	2,550	45,912	41,123
10	2.3458	950	1,530	18,856	23,130
11	2.7393	1,250	1,320	28,557	30,488
12	2.1172	1,110		19,600	22,696
13	2.2055	1,200		22,073	24,613
14	1.7358	610	30	8,831	13,938
15	1.6236	1,930	2,290	26,134	16,106
16	2.1080	1,970		34,634	29,428
17	2.3434	1,690		33,029	36,276
18	2.7062	1,490		33,629	33,668
19	2.3129	1,300		25,076	36,498
20	2.6834	1,124		25,155	36,548
21	2.6014	1,600		34,713	33,550
22	2.8012	1,270		29,670	24,475
23	3.1594	1,690		44,530	44,516
24	3.6781	1,160		35,583	36,965
25	3.2616	950		25,842	34,899
26	2.8382	980		23,197	25,998
27	3.3233	1,160		32,151	33,499
28	3.5255	1,530		44,986	43,434
29	2.0048	1,500		25,080	19,667
30	2.5652	1,140		24,389	25,908
31	2.8923	1,230		29.670	31,786
			TL	855,555	TL 902,824
			ME	27,599	ME 29,125

NOTE:

* Grab sample approximatley 55% higher than composite for those days tested

** Information received from Marvin Haan- St Regis Paper Company 6/4/79

SUSPENDED SOLIDS ANALYSIS

ST. REGIS PAPER COMPANY

MONTH	PLANT INFLUENT (DAILY AVG lbs)	ST. REGIS (DAILY AVG lbs)	PERCENT OF INFLUENT
APRIL 78	37,613	15,415.	41
MAY 78	62,500	14,716	24
JUNE 78	64,400	14,851	23
JULY 78	42,000	14,143	34
AUG 78	45,000	15,358	34
SEPT 78	40,400	15,582	39
OCT 78	49,200	12,966	26
NOV 78	42,900	15,347	36
DEC 78	39,900	14,464	36
JAN 79	49,000	20,669	42
FEB 79	58,300	18,138	31
MAR 79	39,100	17,979	46
APR 79	39,700	13,546	34
MAY 79	86,400	42,641	49

ST REGIS CONTRACT - 10,000 lbs/day

PRESENT PLANT DESIGN LOADING - 42,000 lbs/day

FUTURE PLANT DESIGN LOADING - 61,809 lbs/day

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
JUNE 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS lbs (CITY)	DORR COMPOSITE SUSPENDED DOLIDS lbs (CITY)	WACO COMPOSITE SUSPENDED SOLIDS lbs (CITY)	TOTAL
1	92,611	32,252	4,050	176	36,478
2	78,548	30,947	3,379	859	35,185
3	162,647	28,802	12,760	234	41,796
4	78,416	36,433	2,114	122	38,669
5	82,416	46,809	7,821	978	55,608
6	63,881	34,511	1,038	2,141	27,960
-	85,895	30,217	13,993	1.709	45,919
	199,949	29,653	2,074	6,580	38,307
9	53,669	32,166	5,757	1.547	39,470
0	82,783	26,230	4,117	3.746	34,903
1	80,849	33,605	3,550	6,317	43,472
2	80,849	18,567	9,324	12,593	40,484
3	71,673	23,517	13,804	1,005	38,326
4	99,796	36,315	9,714	1.841	47,870
5	65,325	20,854	4,445	491	25,790
6	49,339	27,275	4,478	2.974	34,727
7	107,428	42,680	3,158	20	45,858
8	70,825	18,002	9,367	126	27,495
9	51,926	14,923	3,986	108	19,017
0	55,185	22,033	8,002	158	30,193
1	141,708	28,049	1,643	185	29,877
2	58,764	64,257	2,626	566	67,449
3	84,491	83,297	1,689	3,054	88,670
	52,092	72,109	2,662	507	75,278
5	99,076	14,038	6,024	104	20,166
6	20,476	[illegible]	[illegible]	[illegible]	[illegible]
7	73,687	[illegible]	[illegible]	[illegible]	[illegible]
8	103,403	22,662	[illegible]	[illegible]	37,402
9	[illegible]	13,583	[illegible]	[illegible]	[illegible]
0	[illegible]	15,206	[illegible]	[illegible]	[illegible]
TL	2,150,141	848,171	141,575	48,141	1,037,887
ME	86,006	33,927	5,663	1,926	41,515
%	[illegible]	39%	7%	2%	48%
	85,486	945,252	197,557	[illegible]	1,185,876
		31,508	6,252	1769	39,529
		3.7%	[illegible]	[illegible]	[illegible]

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
JUNE 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS lbs (CITY)		DORR COMPOSITE SUSPENDED DOLIDS lbs (CITY)	WACO COMPOSITE SUSPENDED SOLIDS lbs (CITY)	TOTAL	
1	92,611	32,252		4,050	176	36,478	
2	78,548	30,947		3,379	859	35,185	
3	162,647	28,802		12,760	234	41,796	
4	78,416	36,433		2,114	122	38,669	
5	82,416	46,809		7,821	978	55,608	
6	63,881	34,511		1,038	2,141	27,960	
7	85,895	30,217		13,993	1,709	45,919	
8	199,949	29,653		2,074	6,580	38,307	
9	53,669	32,166		5,757	1,547	39,470	
0	82,783	26,230		4,117	3,746	34,903	
1	80,849	33,605		3,550	6,317	43,472	
2	80,849	18,567		9,324	12,593	40,484	
3	71,673	23,517		13,804	1,005	38,326	
4	99,796	36,315		9,714	1,841	47,870	
5	65,325	20,854		4,445	491	25,790	
6	49,339	27,275		4,478	2,974	34,727	
7	107,428	42,680		3,158	20	45,858	
8	70,825	18,002		9,367	126	27,495	
9	51,926	14,923		3,986	108	19,017	
0	55,185	22,033		8,002	158	30,193	
1	141,708	28,049		1,643	185	29,877	
2	58,764	64,257		2,626	566	67,449	
3	84,491	83,297		1,689	3,054	88,670	
4	52,092	72,109		2,662	507	75,278	
5	99,076	14,038		6,024	104	20,166	
6	80,416	34,180		8,740	150	43,070	
7	73,687	10,850		10,436	673	21,959	
8	103,403	22,662		9,739	1	32,402	
9	75,053	13,583	from dipper	9,517	82	23,188	
0	81,875	15,806	samples to 6-30	7,551	4,013	27,370	from dipper samples to 6-25
TL	2,150,141	848,171	706,179	141,575	48,141	1,037,887	89[illegible]
ME	86,006	33,927	28,247	5,663	1,926	41,515	35,836
%	2,564,575	39%	33%	7%	2%	48%	42%
	85,486	945,252	803,260	187,558	53,066	1,185,876	992,976
		31,508	26,775	6,252	1,769	39,529	33,099
		37%	31%	7%	2%	46%	39%

SUSPENDED SOLID ANALYSIS

ST REGIS PAPER COMPANY

JUNE 1979

DATE	DIPPER SAMPLER mg/l	B.C. N-CON mg/l	FLOW MGD	DIPPER SAMPLER LBS OF SOLIDS	B.C. N-CON LBS OF SOLIDS
7	1,170	1,040	3.4838	33,994	30,217
8	1,020	-	3.4858	29,653	-
9	1,170	1,100	3.5063	34,213	32,166
10	950	970	3.2424	25,689	26,230
11	1,260	1,470	2.7411	28,804	33,605
12	1,310	920	2.4199	26,438	18,567
13	1,110	1,030	2.7377	25,343	23,517
14	1,130	1,290	3.3755	31,811	36,315
15	1,430	-	1.7486	20,854	-
16	1,420	1,400	2.3360	27,664	27,275
17	1,560	2,250	2.2745	29,592	42,680
18	1,660	750	2.8780	39,844	18,002
19	470	600	2.9823	11,690	14,923
20	1,180	1,290	2.0480	20,154	22,033
21	1,240	1,610	2.0890	21,603	28,049
22	1,090	5,220	1.4761	13,417	64,257
23	1,180	4,200	2.3965	23,579	83,927
24	720	3,020	2.8630	17,191	72,109

LBS OF SOLIDS = mg/l (8.34 x mgd)

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
ANGEL PLANT

MAY 79

DATE	FLOW	COMPOSITE SUSPENDED SOLIDS mg/l (CITY)	GRAB * SUSPENDED SOLIDS mg/l (CITY)	COMPOSITE SUSPENDED SOLIDS (lbs) (CITY)	COMPOSITE ** SUSPENDED SOLIDS (lb (ST REGIS)
1	1.5128	330	5,030	4,164	21,000
2	1.7198	1,160	1,040	16,638	16,596
3	2.1767	1,530	2,220	27,774	28,515
4	1.6903	1,630	1,990	22,978	22,413
5	1.4653	760		9,288	7,986
6	1.4412	112		14,259	14,340
7	2.3479	2,240	4,140	43,863	48,132
8	3.2911	1,660	1,950	45,563	44,693
9	2.5369	2,170	2,550	45,912	41,123
10	2.3458	950	1,530	18,856	23,130
11	2.7393	1,250	1,320	28,557	30,488
12	2.1172	1,110		19,600	22,696
13	2.2055	1,200		22,073	24,613
14	1.7358	610	30	8,831	13,938
15	1.6236	1,930	2,290	26,134	16,106
16	2.1080	1,970		34,634	29,428
17	2.3434	1,690		33,029	36,276
18	2.7062	1,490		33,629	33,668
19	2.3129	1,300		25,076	36,498
0	2.6834	1,124		25,155	36,548
21	2.6014	1,600		34,713	33,550
22	2.8012	1,270		29,670	24,475
23	3.1594	1,690		44,530	44,516
24	3.6781	1,160		35,583	36,965
25	3.2616	950		25,842	34,899
26	2.8382	980		23,197	25,998
27	3.3233	1,160		32,151	33,499
28	3.5255	1,530		44,986	43,434
29	2.0048	1,500		25,080	19,667
30	2.5652	1,140		24,389	25,908
31	2.8923	1,230		29,670	31,786
			TL	855,555	TL 902,824
			ME	27,599	ME 29,125

NOTE:

* Grab sample approximatley 55% higher than composite for those days tested

** Information received from Marvin Haan- St Regis Paper Company 6/4/79

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
ANGEL PLANT

MAY 79 DATE	FLOW	COMPOSITE SUSPENDED SOLIDS mg/l (CITY)	GRAB * SUSPENDED SOLIDS mg/l (CITY)	COMPOSITE SUSPENDED SOLIDS (lbs) (CITY)	COMPOSITE ** SUSPENDED SOLIDS (lb (ST REGIS)
1	1.5128	330	5,030	4,164	21,000
2	1.7198	1,160	1,040	16,638	16,596
3	2.1767	1,530	2,220	27,774	28,515
4	1.6903	1,630	1,990	22,978	22,413
5	1.4653	760		9,288	7,986
6	1.4412	112		14,259	14,340
7	2.3479	2,240	4,140	43,863	48,132
8	3.2911	1,660	1,950	45,563	44,693
9	2.5369	2,170	2,550	45,912	41,123
10	2.3458	950	1,530	18,856	23,130
11	2.7393	1,250	1,320	28,557	30,488
12	2.1172	1,110		19,600	22,696
13	2.2055	1,200		22,073	24,613
14	1.7358	610	30	8,831	13,938
15	1.6236	1,930	2,290	26,134	16,106
16	2.1080	1,970		34,634	29,428
17	2.3434	1,690		33,029	36,276
18	2.7062	1,490		33,629	33,668
19	2.3129	1,300		25,076	36,498
20	2.6834	1,124		25,155	36,548
21	2.6014	1,600		34,713	33,550
22	2.8012	1,270		29,670	24,475
23	3.1594	1,690		44,530	44,516
24	3.6781	1,160		35,583	36,965
25	3.2616	950		25,842	34,899
26	2.8382	980		23,197	25,998
27	3.3233	1,160		32,151	33,499
28	3.5255	1,530		44,986	43,434
29	2.0048	1,500		25,080	19,667
30	2.5652	1,140		24,399	25,908
31	2.8923	1,230		29.670	31.786
			TL	855,555	TL 902,684
			ME	27,599	ME 29,125

NOTE:

* Grab sample approximatley 55% higher than composite for those days tested

** Information received from Marvin Haan- St Regis Paper Company 6/4/79

SUSPENDED SOLID ANALYSIS

ST REGIS PAPER COMPANY

JUNE 1979

DATE	DIPPER SAMPLER mg/l	B.C. N-CON mg/l	FLOW MGD	DIPPER SAMPLER LBS OF SOLIDS	B.C. N-CON LBS OF SOLIDS
7	1,170	1,040	3.4838	33,994	30,217
8	1,020	-	3.4858	29,653	-
9	1,170	1,100	3.5063	34,213	32,166
10	950	970	3.2424	25,689	26,230
11	1,260	1,470	2.7411	28,804	33,605
12	1,310	920	2.4199	26,438	18,567
13	1,110	1,030	2.7377	25,343	23,517
14	1,130	1,290	3.3755	31,811	36,315
15	1,430	-	1.7486	20,854	-
16	1,420	1,400	2.3360	27,664	27,275
17	1,560	2,250	2.2745	29,592	42,680
18	1,660	750	2.8780	39,844	18,002
19	470	600	2.9823	11,690	14,923
20	1,180	1,290	2.0480	20,154	22,033
21	1,240	1,610	2.0890	21,603	28,049
22	1,090	5,220	1.4761	13,417	64,257
23	1,180	4,200	2.3965	23,579	83,927
24	720	3,020	2.8630	17,191	72,109

LBS OF SOLIDS = mg/l (8.34 x mgd)

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
JUNE 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS lbs (CITY)	DORR COMPOSITE SUSPENDED DOLIDS lbs (CITY)	WACO COMPOSITE SUSPENDED SOLIDS lbs (CITY)	TOTAL
1	92,611	32,252	4,050	176	36,478
2	78,548	30,947	3,379	859	35,185
3	162,647	28,802	12,760	234	41,796
4	78,416	36,433	2,114	122	38,669
	82,416	46,809	7,821	978	55,608
	63,881	34,511	1,038	2,141	27,960
7	85,895	30,217	13,993	1,709	45,919
8	199,949	29,653	2,074	6,580	38,307
9	53,669	32,166	5,757	1,547	39,470
0	82,783	26,230	4,117	3,746	34,903
1	80,849	33,005	3,550	6,317	43,472
2	80,849	18,567	9,324	12,593	40,484
3	71,673	23,517	13,804	1,005	38,326
4	99,796	36,315	9,714	1,841	47,870
5	65,325	20,854	4,445	491	25,790
6	49,339	27,275	4,478	2,974	34,727
7	107,428	42,680	3,158	20	45,858
8	70,825	18,002	9,367	126	27,495
9	51,926	14,923	3,986	108	19,017
0	55,185	22,033	8,002	158	30,193
1	141,708	28,049	1,643	185	29,877
	58,764	64,257	2,626	566	67,449
3	84,491	83,297	1,689	3,054	88,670
4	52,092	72,109	2,662	507	75,278
5	99,076	14,038	6,024	104	20,166
6					
7					
8					
9					
0					
TL	2,150,141	848,171	141,575	48,141	1,037,887
ME	86,006	33,927	5,663	1,926	41,515
%		39%	7%	2%	48%

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
JULY 1979

PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS lbs. (City)	DORR COMPOSITE SUSPENDED SOLIDS lbs. (City)	WACO COMPOSITE SUSPENDED SOLIDS lbs. (City)	TOTAL
42,194	16,789	4,433	1,342	22,564
58,919	4,631	2,166	4,348	11,145
28,640	-	-	-	-
18,128	63	961	1,304	2,328
40,567	2,816	6,184	1,728	10,728
49,360	9,730	3,733	24	13,487
39,540	10,731	3,599	3	14,333
35,884	10,601	4,428	507	15,536
41,438	8,674	2,540	79	11,293
53,863	8,659	9,662	935	19,256
57,181	22,368	11,072	88	33,528
104,526	20,632	3,879	221	24,732
62,710	12,828	1,469	58	14,355
56,712	11,884	2,989	12	14,885
40,901	8,140	4,293	9	12,442
69,209	11,950	3,066	13	15,029
66,936	22,537	7,913	71	30,521
94,101	31,941	14,953	21	46,915
TL 960,809	214,974	87,340	10,763	313,077
ME 53,378	11,943	4,852	598	17,393
	22%	9%	1%	33%

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
MAY 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS lbs (CITY)	DORR COMPOSITE SUSPENDED SOLIDS lbs (CITY)	WACO COMPOSITE SUSPENDED SOLIDS lbs (CITY)	TOTAL
1	39,000	4,164	24,326	3,945	32,435
2	63,900	16,638	22,971	989	40,598
3	89,400	27,775	15,643	16,416	59,834
4	73,100	22,978	51,886	4,975	79,839
-	89,500	9,288	3,975	3,683	16,946
-	71,500	14,259	1,318	530	16,107
7	97,600	43,863	12,892	-	56,755
8	87,000	45,563	5,379	-	50,942
9	84,100	45,912	7,567	-	53,479
10	180,900	18,586	9,972	434	28,992
11	105,500	28,557	4,073	932	33,562
12	73,700	19,600	4,487	955	25,042
13	55,000	22,073	8,496	1,764	32,333
14	184,100	8,831	18,233	98	27,162
15	52,000	26,134	5,486	116	31,736
16	46,800	34,634	11,571	627	46,832
17	102,200	33,029	6,253	175	39,457
18	70,300	33,629	3,122	1,272	38,023
19	99,200	25,076	2,554	774	28,404
20	104,300	25,155	54,604	925	80,684
21	68,500	34,713	5,717	4,940	45,370
	77,800	29,670	10,754	1,008	41,432
23	59,700	44,530	25,009	567	70,106
24	104,600	35,583	13,723	140	49,446
25	83,600	25,842	3,566	901	30,309
26	50,000	23,197	24,907	559	48,663
27	106,000	32,151	10,014	160	42,325
28	64,000	44,986	4,354	933	50,273
29	71,000	25,080	6,130	339	31,549
30	64,500	24,389	18,404	2,235	45,028
31	106,800	29,670	17,744	795	48,209
TL	2,679,600	855,555	415,130	51,187	1,321,872
ME	86,400	27,599	13,391	1,651	42,641
%		32%	15%	2%	49%

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
JUNE 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS lbs. (City)	DORR COMPOSITE SUSPENDED SOLIDS lbs. (City)	WACO COMPOSITE SUSPENDED SOLIDS lbs. (City)	TOTAL
1	92,611	32,252	4,050	176	36,478
2	78,548	30,947	3,379	859	35,185
3	162,647	28,802	12,760	234	41,796
4	78,416	36,433	2,114	122	38,669
5	82,416	46,809	7,821	978	55,608
6	63,881	34,511	1,038	2,141	27,960
7	85,895	30,217	13,993	1,709	45,919
8	199,949	29,653	2,074	6,580	38,307
9	53,669	32,166	5,757	1,547	39,470
10	82,783	26,230	4,117	3,746	34,903
11	80,849	33,605	3,550	6,317	43,472
12	80,849	18,567	9,324	12,593	40,484
13	71,673	23,517	13,804	1,005	38,326
14	99,796	36,315	9,714	1,841	47,870
15	65,325	20,854	4,445	491	25,790
16	49,339	27,275	4,478	2,974	34,727
17	107,428	42,680	3,158	20	45,858
18	70,825	18,002	9,367	126	27,495
19	51,926	14,923	3,986	108	19,017
20	55,185	22,033	8,002	158	30,193
21	141,708	28,049	1,643	185	29,877
22	58,764	64,257	2,626	566	67,449
23	84,491	83,297	1,689	3,054	88,670
24	52,092	72,109	2,662	507	75,278
25	99,076	14,038	6,024	104	20,166
26	80,416	34,180	8,740	150	43,070
27	73,687	10,850	10,436	673	21,959
28	103,403	22,662	9,739	1	32,402
29	75,053	13,583	9,519	88	23,188
30	81,875	15,806	7,551	4,013	27,370
TL	2,564,575	944,622	187,558	53,066	1,176,956
ME	85,486	31,487	6,252	1,769	39,232
		37%	7%	2%	46%

SUSPENDED SOLIDS ANALYSIS

ST. REGIS PAPER COMPANY

MONTH	PLANT INFLUENT (DAILY AVG lbs)	ST. REGIS (DAILY AVG lbs)	PERCENT OF INFLUENT
APRIL 78	37,613	15,415	41
MAY 78	62,500	14,716	24
JUNE 78	64,400	14,851	23
JULY 78	42,000	14,143	34
AUG 78	45,000	15,358	34
SEPT 78	40,400	15,582	39
OCT 78	49,200	12,966	26
NOV 78	42,900	15,347	36
DEC 78	39,900	14,464	36
JAN 79	49,000	20,669	42
FEB 79	58,300	18,138	31
MAR 79	39,100	17,979	46
APR 79	39,700	13,546	34
MAY 79	86,400	42,641	49

ST REGIS CONTRACT - 10,000 lbs/day

PRESENT PLANT DESIGN LOADING - 42,000 lbs/day

FUTURE PLANT DESIGN LOADING - 61,809 lbs/day

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
MAY 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS lbs (CITY)	DORR COMPOSITE SUSPENDED SOLIDS lbs (CITY)	WACO COMPOSITE SUSPENDED SOLIDS lbs (CITY)	TOTAL
1	39,000	4,164	24,326	3,945	32,435
2	63,900	16,638	22,971	989	40,598
3	89,400	27,775	15,643	16,416	59,834
4	73,100	22,978	51,886	4,975	79,839
5	89,500	9,288	3,975	3,683	16,946
6	71,500	14,259	1,318	530	16,107
7	97,600	43,863	12,892	-	56,755
8	87,000	45,563	5,379	-	50,942
9	84,100	45,912	7,567	-	53,479
10	180,900	18,586	9,972	434	28,992
11	105,500	28,557	4,073	932	33,562
12	73,700	19,600	4,487	955	25,042
13	55,000	22,073	8,496	1,764	32,333
14	184,100	8,831	18,233	98	27,162
15	52,000	26,134	5,486	116	31,736
16	46,800	34,634	11,571	627	46,832
17	102,200	33,029	6,253	175	39,457
18	70,300	33,629	3,122	1,272	38,023
19	99,200	25,076	2,554	774	28,404
20	104,300	25,155	54,604	925	80,684
21	68,500	34,713	5,717	4,940	45,370
22	77,800	29,670	10,754	1,008	41,432
23	59,700	44,530	25,009	567	70,106
24	104,600	35,583	13,723	140	49,446
25	83,600	25,842	3,566	901	30,309
26	50,000	23,197	24,907	559	48,663
27	106,000	32,151	10,014	160	42,325
28	64,000	44,986	4,354	933	50,273
29	71,000	25,080	6,130	339	31,549
30	64,500	24,389	18,404	2,235	45,028
31	106,800	29,670	17,744	795	48,209
TL	2,679,600	855,555	415,130	51,187	1,321,872
ME	86,400	27,599	13,391	1,651	42,641
%		32%	15%	2%	49%

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY

ANGEL PLANT

MAY 79 DATE	FLOW	COMPOSITE SUSPENDED SOLIDS mg/l (CITY)	GRAB * SUSPENDED SOLIDS mg/l (CITY)	COMPOSITE SUSPENDED SOLIDS (lbs) (CITY)	COMPOSITE ** SUSPENDED SOLIDS (lb (ST REGIS)
1	1.5128	330	5,030	4,164	21,000
2	1.7198	1,160	1,040	16,638	16,596
3	2.1767	1,530	2,220	27,774	28,515
4	1.6903	1,630	1,990	22,978	22,413
5	1.4653	760		9,288	7,986
6	1.4412	112		14,259	14,340
7	2.3479	2,240	4,140	43,863	48,132
8	3.2911	1,660	1,950	45,563	44,693
9	2.5369	2,170	2,550	45,912	41,123
10	2.3458	950	1,530	18,856	23,130
11	2.7393	1,250	1,320	28,557	30,488
12	2.1172	1,110		19,600	22,696
13	2.2055	1,200		22,073	24,613
14	1.7358	610	30	8,831	13,938
15	1.6236	1,930	2,290	26,134	16,106
16	2.1080	1,970		34,634	29,428
17	2.3434	1,690		33,029	36,276
18	2.7062	1,490		33,629	33,668
19	2.3129	1,300		25,076	36,498
20	2.6834	1,124		25,155	36,548
21	2.6014	1,600		34,713	33,550
22	2.8012	1,270		29,670	24,475
23	3.1594	1,690		44,530	44,516
24	3.6781	1,160		35,583	36,965
25	3.2616	950		25,842	34,899
26	2.8382	980		23,197	25,998
27	3.3233	1,160		32,151	33,499
28	3.5255	1,530		44,986	43,434
29	2.0048	1,500		25,080	19,667
30	2.5652	1,140		24,389	25,908
31	2.8923	1,230		29,670	31,786
			TL	855,555	TL 902,824
			ME	27,599	ME 29,125

NOTE:

* Grab sample approximatley 55% higher than composite for those days tested

** Information received from Marvin Haan- St Regis Paper Company 6/4/79

SUSPENDED SOLIDS ANALYSIS

ST. REGIS PAPER COMPANY

MONTH	PLANT INFLUENT (DAILY AVG lbs)	ST. REGIS (DAILY AVG lbs)	PERCENT OF INFLUENT
APRIL 78	37,613	15,415	41
MAY 78	62,500	14,716	24
JUNE 78	64,400	14,851	23
JULY 78	42,000	14,143	34
AUG 78	45,000	15,358	34
SEPT 78	40,400	15,582	39
OCT 78	49,200	12,966	26
NOV 78	42,900	15,347	36
DEC 78	39,900	14,464	36
JAN 79	49,000	20,669	42
FEB 79	58,300	18,138	31
MAR 79	39,100	17,979	46
APR 79	39,700	13,546	34
MAY 79	86,400	42,641	49

ST REGIS CONTRACT - 10,000 lbs/day

PRESENT PLANT DESIGN LOADING - 42,000 lbs/day

FUTURE PLANT DESIGN LOADING - 61,809 lbs/day

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
JUNE 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS lbs (CITY)	DORR COMPOSITE SUSPENDED DOLIDS lbs (CITY)	WACO COMPOSITE SUSPENDED SOLIDS lbs (CITY)	TOTAL
1	92,611	32,252	4,050	176	36,478
2	78,548	30,947	3,379	859	35,185
3	162,647	28,802	12,760	234	41,796
4	78,416	36,433	2,114	122	38,669
5	82,416	46,809	7,821	978	55,608
6	63,881	34,511	1,038	2,141	27,960
7	85,895	30,217	13,993	1,709	45,919
8	199,949	29,653	2,074	6,580	38,307
9	53,669	32,166	5,757	1,547	39,470
0	82,783	26,230	4,117	3,746	34,903
1	80,849	33,605	3,550	6,317	43,472
2	80,849	18,567	9,324	12,593	40,484
3	71,673	23,517	13,804	1,005	38,326
4	99,796	36,315	9,714	1,841	47,870
5	65,325	20,854	4,445	491	25,790
6	49,339	27,275	4,478	2,974	34,727
7	107,428	42,680	3,158	20	45,858
8	70,825	18,002	9,367	126	27,495
9	51,926	14,923	3,986	108	19,017
0	55,185	22,033	8,002	158	30,193
1	141,708	28,049	1,643	185	29,877
2	58,764	64,257	2,626	566	67,449
3	84,491	83,297	1,689	3,054	88,670
4	52,092	72,109	2,662	507	75,278
5	99,076	14,038	6,024	104	20,166
6					
7					
8					
9					
0					
TL	2,150,141	848,171	141,575	48,141	1,037,887
ME	86,006	33,927	5,663	1,926	41,515
%		39%	7%	2%	48%

SUSPENDED SOLID ANALYSIS

ST REGIS PAPER COMPANY

JUNE 1979

DATE	DIPPER SAMPLER mg/l	B.C. N-CON mg/l	FLOW MGD	DIPPER SAMPLER LBS OF SOLIDS	B.C. N-CON LBS OF SOLIDS
7	1,170	1,040	3.4838	33,994	30,217
8	1,020	-	3.4858	29,653	-
9	1,170	1,100	3.5063	34,213	32,166
10	950	970	3.2424	25,689	26,230
11	1,260	1,470	2.7411	28,804	33,605
12	1,310	920	2.4199	26,438	18,567
13	1,110	1,030	2.7377	25,343	23,517
14	1,130	1,290	3.3755	31,811	36,315
15	1,430	-	1.7486	20,854	-
16	1,420	1,400	2.3360	27,664	27,275
17	1,560	2,250	2.2745	29,592	42,680
18	1,660	750	2.8780	39,844	18,002
19	470	600	2.9823	11,690	14,923
20	1,180	1,290	2.0480	20,154	22,033
21	1,240	1,610	2.0890	21,603	28,049
22	1,090	5,220	1.4761	13,417	64,257
23	1,180	4,200	2.3965	23,579	83,927
24	720	3,020	2.8630	17,191	72,109

LBS OF SOLIDS = mg/l (8.34 x mgd)

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
NOVEMBER 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS LBS. (CITY)	DORR COMPOSITE SUSPENDED SOLIDS LBS. (CITY)	WACO COMPOSITE SUSPENDED SOLIDS LBS. (CITY)		TOTAL
	39,958	11,584	5,838	123		17,545
	49,694	13,000	6,234	24		19,258
3	28,447	13,932	6,117	12		20,061
	29,048	8,080	4,015	16		12,111
	26,829	6,003	4,218	52		10,273
	41,090	11,589	12,998	674		2_,26_
	104,788*	6,896	13,448	191	20,535	20_
	77,955*	3,938	8,387	501	12,826	12,826
	59,395	3,747	14,081	1,013		18,841
	3,997	6,173	12,489	49		18,711
11	42,182	3,631	4,321	11		7,963
12	36,921	9,528	8,386	3		17,917
13	89,703*	6,021	8,512	3		14,536
14	90,634*	7,780	9,792	11		17,583
	117,694*	7,444	10,565	10		18,019
	86,604*	8,762	6,206	35		15,003
	57,374	9,360	1,787	7		11,154
	119,528*	6,981	4,060	1		11,042
	122,702*	16,362	4,004	38		20,404
	147,797*	9,122	6,695	154		15,971
27	92,930*	10,126	5,292***	679		16,097
	14,221	156	3***	90		249
	9,977	653	30***	407	1,090	1,090
	29,739	3,335	3,222***	2,667	9,224	[illegible]
	49,189	5,526	3,427***	200		[illegible]153
	37,606	6,084	5,310***	72		11,466
	44,836	7,273**	6,554***	11		13,83[illegible]
	84,298*	8,621	4,243***	11		12,875
	94,508*	9,325	10,143***	17		19,485
	46,127	7,721	8,659***	21		16,401
	AL 1,875,774	228,753	199,036	7,103		434,892
	62,526	7,625	6,635	237		14,496
		12%	11%	0.4%		23%

fluent sampler malfunction ** St. Regis Sample used to determine pounds
Flow meter broken, estimated flow

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
OCTOBER 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS LBS. (City)	DORR COMPOSITE SUSPENDED SOLIDS LBS. (City)	WACO COMPOSITE SUSPENDED SOLIDS LBS. (City)	TOTAL
1	39,662	6,998	6,390	43	13,421
2	39,180	4,979	5,092	71	10,142
3	35,814	9,667	14,856	250	24,773
4	59,843	10,783	3,985	2,856	17,624
5	58,303	8,913	6,654	6,855	22,427
6	39,315	9,166	7,350	35	16,551
7	44,613	13,700	8,519	1,414	23,633
8	44,901	11,465	9,899	26	21,390
9	32, 13	9,802	4,853	24	14,679
0	48,154*	3,852	9,216	102	13,170
1	29,062	16,147	10,758	76	26,981
2	46,442	9,288	8,091	268	17,647
3	43,632	8,669	4,878	82	13,629
4	37,737	8,947	4,428	1	13,376
5	35,027	7,090**	4,108	1	11,199
6	35,469	9,531	11,895	3	21,429
7	36,763	14,033**	6,988	166	21,187
8	36,772	5,145	5,065	0	10,210
9	19,305	9,647**	7,318	9	16,974
0	38,780	8,162	1,656	12	9,830
1	22,575	11,984	8,171	15	20,170
2	28,606	12,591	7,337	41	19,969
3	33,319	16,431**	5,190	922	22,543
4	90,656*	8,367	1,861	5,364	15,592
5	65,552*	4,149	9,515	2	13,666
6	31,275	5,599	7,342	10	12,951
7	38,193*	6,148	10,551	11	16,710
8	32,801	5,314	8,908	3	14,225
9	45,380	16,550	7,385	1	23,936
0	34,249	8,962	13,178	8	22,148
1	27,579*	7,267	4,728	40	12,035
TL	1,116,697	289,351	226,165	18,711	534,227
ME	37,732	9,334	7,296	604	17,233
%		25%	19%	2%	46%

* Malfunction of Influent Sampler

** Malfunction of N-con sampler used ST. REGIS sample.

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
SEPTEMBER 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS LBS. (CITY)	DORR COMPOSITE SUSPENDED SOLIDS LBS. (CITY)	WACO COMPOSITE SUSPENDED SOLIDS LBS. (CITY)	TOTAL
1	26,793	8,552**	6,016	1	14,569
2	35,168	6,532**	10,735	3	17,270
3	16,775	6,721**	10,458	50	17,229
4	30,124	10,569	5,148	12	15,729
5	28,303	8,157	7,824	16	15,997
6	10,048	2,919	5,715	4	8,638
7	41,418	4,743	8,023	69	12,835
8	23,402	3,158	15,420	25	18,603
9	41,762	6,764	8,311*	18	15,093
10	42,334	12,703	9,323	60	22,086
11	28,953	7,848**	12 509	52	20,409
12	49,773	4,815	10,489	9	15,313
13	66,674	8,808	5,451	11	14,270
14	48,555	3,021	11,687	12	14,720
15	34,861	8,117	5,248	638	14,003
16	45,276	9,199	4,603	4,283	18,085
17	55,767	17,418	8,283	149	25,850
18	84,046	15,666	3.636	31	19,333
19	16,231	6,322	3,787	41	10,150
20	60,797	13,796	4,994	2	18,792
21	38,398	5,143	7,095	3	12,241
22	22,825	22,292	4,706	0	26,998
23	44,838	17,668	10,567	10	28,245
24	44,239	11,986	3.708	13	15,707
25	59,233	11,791**	4,966	18	16,775
26	25,252	4,381**	5,413	2	9,796
27	42,907	8,802	9,174	3	17,979
28	20,461	5,196	4,224	4	9,424
29	50,750	4,209	9,056	13	13,278
30	31,957	5,170	6,721	15	11.906
TL	1,167,920	262,466	233,290	5,567	490,873
ME	38,931	8,749	7,443	186	16,362
%		22%	19%	1%	42.03%

* St. Regis Figures ** St. Regis Sampler

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
AUGUST 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS LBS. (CITY)		DORR COMPOSITE SUSPENDED SOLIDS LBS. (CITY)	WACO COMPOSITE SUSPENDED SOLIDS LBS. (CITY)	TOTAL
	36,126	623		7,675	4	8,032
	33,360	9,299		6,453	13	15,765
	38,833	17,245		2,375	5	19,625
	49,609	11,578		4,034	12	15,624
	34,152	4,853		8,044	39	12,936
	34,528	4,221		11,840	4	16,065
	29,832	37,303		1,362	1	38,666
	36,485	30,198		12,931	104	43,233
	68,587	1,416		-	92	1,508*
)	19,550	-		-	113	113*
.	22,020	287		-	-	287*
2	14,315	11		-	-	11*
3	34,165	20,407**	Sampler off	7,268***	1,191	28,866
4	54,107	6,695		4,652***	238	11,585
5	37,669	9,144		5,750***	152	15,046
6	65,281	1,529		3,424***	3	4,956
7	40,284	8,227	Sampler off	2,073	7	10,307
8	39,090	14,074		10,745	2	24,821
9	58,928	14,175		4,842	26	19,043
0	46,053	5,547		4,091	2	9,640
1	47,762	11,679		4,590	6	16,275
2	34,035	4,047		4,785	77	8,909
3	44,969	10,149*		5,248	4	15,401
4	46,971	7,887		7,806	24	15,717
5	93,523	8,353		9,080	4	17,437
6	47,624	7,605		4,610	2	12,217
7	45,623	8,670		6,029	10	14,709
8	29,039	7,690		8,207	2	15,899
9	67,229	7,041		6,327	2	13,370
0	34,152	8,878		6,203	18	14,939
1	32,779	3,208*		7,241	3	10,452
L	1,316,680	281,879		167,685	2,160	451,724
E	42,474	9.093		5,409	70	14,572
		21%		13%	0%	34%

*St. Regis Sampler **St. Regis Figures *** Based on flow average since shutdown
Angell St. Samples flow proportioned since 8-21-79.

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
JULY 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS lbs. (City)	DORR COMPOSITE SUSPENDED SOLIDS lbs. (City)	WACO COMPOSITE SUSPENDED SOLIDS lbs. (City)	TOTAL
1	42,194	16,789	4,433	1,342	22,564
2	58,919	4,631	2,166	4,348	11,145
3	28,640	-	-	-	-
4	18,128	63	961	1,304	2,328
5	40,567	2,816	6,184	1,728	10,728
6	49,360	9,730	3,733	24	13,487
7	39,540	10,731	3,599	3	14,333
8	35,884	10,601	4,428	507	15,536
9	41,438	8,674	2,540	79	11,293
10	53,863	8,659	9,662	935	19,256
11	57,181	22,368**	11,072	88	33,528
12	104,526	20,632**	3,879	221	24,732
13	62,710	12,828	1,469	58	14,355
14	56,712	11,884	2,989	12	14,885
15	40,901	8,140	4,293	9	12,442
16	69,209	11,950	3,066	13	15,029
17	66,936	22,537	7,913	71	30,521
18	94,101	31,941	14,953	21	46,915
19	96,936	6,204	2,240	382	8,826
20	33,207	11,081	1,216	732	13,029
21	38,326*	9,038	1,269	40	10,347
22	29,783*	9,648	3,284	61	12,993
23	71,141*	9,004	7,078	29	16,111
24	57,872*	5,846	6,886	16	12,748
25	56,613*	11,101	17,500	22	28,623
26	152,586*	12,137	3,689	153	15,979
27	96,787*	11,982	14,017	1	26,000
28	72,183*	6,424	4,113	10,715	21,252
29	31,869*	4,265	3,892	593	8,750
30	33,811*	4,538	3,542	29	8,109
31	33,872*	14,307	4,516	10	18,833
TL	1,765,663	330,544	160,582	23,546	514,677
ME	56,957	10,663	5,180	760	16,602
%		19%	9%	1%	29%

* Estimated value based partly on pump capacities. ** Average of City and St. Regis Sampler.

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
JUNE 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS lbs. (City)	DORR COMPOSITE SUSPENDED SOLIDS lbs. (City)	WACO COMPOSITE SUSPENDED SOLIDS lbs. (City)	TOTAL
1	92,611	32,252	4,050	176	36,478
2	78,548	30,947	3,379	859	35,185
3	162,647	28,802	12,760	234	41,796
4	78,416	36,433	2,114	122	38,669
5	82,416	46,809	7,821	978	55,608
6	63,881	34,511	1,038	2,141	27,960
7	85,895	30,217	13,993	1,709	45,919
8	199,949	29,653	2,074	6,580	38,307
9	53,669	32,166	5,757	1,547	39,470
10	82,783	26,230	4,117	3,746	34,903
11	80,849	33,605	3,550	6,317	43,472
12	80,849	18,567	9,324	12,593	40,484
13	71,673	23,517	13,804	1,005	38,326
14	99,796	36,315	9,714	1,841	47,870
15	65,325	20,854	4,445	491	25,790
16	49,339	27,275	4,478	2,974	34,727
17	107,428	42,680	3,158	20	45,858
18	70,825	18,002	9,367	126	27,495
19	51,926	14,923	3,986	108	19,017
20	55,185	22,033	8,002	158	30,193
21	141,708	28,049	1,643	185	29,877
22	58,764	64,257	2,626	566	67,449
23	84,491	83,297	1,689	3,054	88,670
24	52,092	72,109	2,662	507	75,278
25	99,076	14,038	6,024	104	20,166
26	80,416	34,180	8,740	150	43,070
27	73,687	10,850	10,436	673	21,959
28	103,403	22,662	9,739	1	32,402
29	75,053	13,583	9,519	88	23,188
30	81,875	15,806	7,551	4,013	27,370
TL	2,564,575	944,622	187,558	53,066	1,176,956
ME	85,486	31,487	6,252	1,769	39,232
		37%	7%	2%	46%

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
MAY 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS lbs (CITY)	DORR COMPOSITE SUSPENDED SOLIDS lbs (CITY)	WACO COMPOSITE SUSPENDED SOLIDS lbs (CITY)	TOTAL
1	39,000	4,164	24,326	3,945	32,435
2	63,900	16,638	22,971	989	40,598
3	89,400	27,775	15,643	16,416	59,834
4	73,100	22,978	51,886	4,975	79,839
5	89,500	9,288	3,975	3,683	16,946
6	71,500	14,259	1,318	530	16,107
7	97,600	43,863	12,892	-	56,755
8	87,000	45,563	5,379	-	50,942
9	84,100	45,912	7,567	-	53,479
10	180,900	18,586	9,972	434	28,992
11	105,500	28,557	4,073	932	33,562
12	73,700	19,600	4,487	955	25,042
13	55,000	22,073	8,496	1,764	32,333
14	184,100	8,831	18,233	98	27,162
15	52,000	26,134	5,486	116	31,736
16	46,800	34,634	11,571	627	46,832
17	102,200	33,029	6,253	175	39,457
18	70,300	33,629	3,122	1,272	38,023
19	99,200	25,076	2,554	774	28,404
20	104,300	25,155	54,604	925	80,684
21	68,500	34,713	5,717	4,940	45,370
22	77,800	29,670	10,754	1,008	41,432
23	59,700	44,530	25,009	567	70,106
24	104,600	35,583	13,723	140	49,446
25	83,600	25,842	3,566	901	30,309
26	50,000	23,197	24,907	559	48,663
27	106,000	32,151	10,014	160	42,325
28	64,000	44,986	4,354	933	50,273
29	71,000	25,080	6,130	339	31,549
30	64,500	24,389	18,404	2,235	45,028
31	106,800	29,670	17,744	795	48,209
TL	2,679,600	855,555	415,130	51,187	1,321,872
ME	86,400	27,599	13,391	1,651	42,641
%		32%	15%	2%	49%

SUSPENDED SOLIDS ANAYLSIS
ST. REGIS PAPER COMPANY
APRIL 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS lbs (City)	DORR COMPOSITE SUSPENDED SOLIDS lbs (City)	WACO COMPOSITE SUSPENDED SOLIDS lbs (City)	TOTAL	
1	44,019	shut down	4,337	1,900	6,237	
2	31,408	"	4,601	512	5,113	
3	24,466	"	5,572	1,340	6,912	
4	21,884	"	10,814	1,776	12,590	
5	33,571	"	5,528	23,226	28,754	
6	27,759	"	14,086	1,848	15,934	
7	16,320	"	13,652	1,932	15,584	
8	33,124	"	15,478	1,979	17,457	
9	33,512	"	2,489	935	3,424	
10	59,234	"	50	454	504	
11	30,408	"	15,556	151	15,707	
12	49,924	"	9,190	493	9,683	
13	37,348	"	-	-	-	
14	10,466	"	-	-	-	
15	7,057	"	-	-	-	
16	24,705	"	10,881	4,076	14,957	
17	31,616	"	3,150	225	3,375	
18	26,002	"	-	8,041	8,041	
19	31,227	"	-	1,357	1,357	
20	22,343	"	6,792	4,442	11,234	
21	82,485	"	16,423	728	17,151	
22	22,076	"	4,788	-	4,788	
23	50,236	"	14,250	-	14,250	
24	60,892	"	4,936	1,073	6,009	
25	53,298	14,629	3,005	-	17,634	200,878
26	68,428	1,423	11,984	-	13,407	
27	68,005	7,978	9,032	3,435	20,445	
28	62,625	15,789	5,134	5,449	26,372	
29	46,426	50,972	4,767	3,368	59,107	
30	84,283	47,044	15,365	1,504	63,913	AVG 33,480
TL	1,173,071	137,835	211,860	70,244	419,939	
ME	39,102	4,595	7,062	2,341	13,998	
%		12%	18%	6%	36%	

WASTEWATER TREATMENT PLANT LOADINGS

(AVERAGE DAILY SUSPENDED SOLIDS)

MONTH	PRIMARY INFLUENT (lbs./Day)	PRIMARY EFFLUENT (lbs./Day)
January '78	32,500	10,900
February	42,200	14,800
March	39,000	13,300
April	37,600	16,700
May	62,500	20,100
June	64,400	15,400
July	42,000	11,000
August	45,000	12,000
September	40,400	12,300
October	49,200	12,900
November	42,900	10,900
December	39,900	13,100
January '79	49,000	22,700
February	58,300	36,300
March	39,100	22,500
April	39,700	17,300
May	86,400	37,500
June	84,800	23,100

SUSPENDED SOLIDS ANALYSIS

ST. REGIS PAPER COMPANY

MONTH	ANGELL ST. (lbs./Day)	DORR (lbs./Day)	WACO (lbs./Day)	SAINT REGIS TOTAL (lbs./Day)
JAN 78	4,585	6,349	4,189	15,123
FEB	5,175	5,203	7,156	17,534
MAR	5,201	5,123	4,475	14,799
APRIL	4,550	2,809	8,056	15,415
MAY	5,870	5,584	3,262	14,716
JUNE	8,034	3,802	3,015	14,851
JULY	6,017	6,090	2,338	14,445
AUG	4,573	5,318	5,467	15,358
SEPT	3,830	4,742	7,010	15,582
OCT	5,448	2,338	5,180	12,966
NOV	4,793	5,007	5,547	15,347
DEC	4,330	6,885	3,249	14,464
JAN 79	7,332	6,583	6,754	20,669
FEB	7,352	4,915	5,871	18,138
MAR	8,533	7,669	7,281	23,483
APRIL	22,973*	8,148	2,602	33,723
MAY	27,599	13,391	1,928	42,818
JUNE	31,765	6,288	1,769	39,822

Figures calculated only for days when plants discharged. Totals do not reflect down time, but approximate average daily loadings when both plants are running.

* Plant ran only 6 days

SUSPENDED SOLID ANALYSIS

ST. REGIS PAPER COMPANY

JUNE 1979

DATE	DIPPER SAMPLER mg/l	B.C. N-CON mg/l	FLOW MGD	DIPPER SAMPLER LBS OF SOLIDS	B.C. N-CON LBS OF SOLIDS
7	1,170	1,040	3.4838	33,994	30,217
8	1,020	-	3.4858	29,653	-
9	1,170	1,100	3.5063	34,213	32,166
10	950	970	3.2424	25,689	26,230
11	1,260	1,470	2.7411	28,804	33,605
12	1,310	920	2.4199	26,438	18,567
13	1,110	1,030	2.7377	25,343	23,517
14	1,130	1,290	3.3755	31,811	36,315
15	1,430	-	1.7486	20,854	-
16	1,420	1,400	2.3360	27,664	27,275
17	1,560	2,250	2.2745	29,592	42,680
18	1,660	750	2.8780	39,844	18,002
19	470	600	2.9823	11,690	14,923
20	1,180	1,290	2.0480	20,154	22,033
21	1,240	1,610	2.0890	21,603	28,049
22	1,090	5,220	1.4761	13,417	64,257
23	1,180	4,200	2.3965	23,579	83,927
24	720	3,020	2.8630	17,191	72,109
25	600	700	2.1806	10,912	14,003
26	1,170	1,650	2.4838	24,234	34,179
27	740	610	2.1328	13,162	10,850
28	1,430	1,230	2.2092	26,347	22,662
29	600	640	2.5447	12,734	13,583
30	1,690	700	2.7075	38,161	15,806

LBS OF SOLIDS = mg/l (8.34 x mgd)

SUSPENDED SOLIDS ANALYSIS

ST. REGIS PAPER COMPANY

MONTH	PLANT INFLUENT (DAILY AVG lbs)	ST. REGIS (DAILY AVG lbs)	PERCENT OF INFLUENT
APRIL 78	37,613	15,415	41
MAY 78	62,500	14,716	24
JUNE 78	64,400	14,851	23
JULY 78	42,000	14,143	34
AUG 78	45,000	15,358	34
SEPT 78	40,400	15,582	39
OCT 78	49,200	12,966	26
NOV 78	42,900	15,347	36
DEC 78	39,900	14,464	36
JAN 79	49,000	20,669	42
FEB 79	58,300	18,138	31
MAR 79	39,100	17,979	46
APR 79	39,700	13,546	34
MAY 79	86,400	42,641	49

ST REGIS CONTRACT - 10,000 lbs/day

PRESENT PLANT DESIGN LOADING - 42,000 lbs day

FUTURE PLANT DESIGN LOADING - 61,809 lbs/day

SAINT REGIS

SUSPENDED SOLIDS

MONTHS (DAYS)	TOTAL	DAILY AVERAGE
Feb. (29)	431,546	14,881
Jan. (31)	540,545	17,437
Dec. (31)	461,788	14,896
Nov. (30)	431,921	14,397
Oct. (31)	530,898	17,126
Sept. (30)	638,386	21,280
Aug. (31)	496,580	16,019
July (31)	552,867	17,834
June (30)	1,194,676	39,823
May (31)	1,321,872	42,641
April (30)	419,939	13,997
March (31)	557,339	17,979
Total (Days) = 366	$\frac{7,578,357}{366} = 20,706$	

SUSPENDED SOLIDS LOADS

ST. REGIS PAPER COMPANY
DECEMBER 1979

DATE	PLANT INFLUENT	ANGELL LBS.	DORR LBS.	WACO LBS.	ST. REGIS TOTAL
1	37,136	12,035	9,298	78	21,411
2	27,744	13,229	4,150	100	17,479
3	44,812	26,392	10,019	131	36,542
4	41,883	11,584	9,715	87	21,386
5	23,759	8,995	4,757	49	13,801
6	44,981	6,746	4,970	10	11,726
7	46,837	7,929	7,280	95	15,504
8	26,780	4,071	5,746	27	9,844
9	26,446	4,275	4,348*1	30	8,653
10	46,891	6,259	3,678	7	9,944
11	68,283	8,435	4,142	30	12,607
12	42,754	6,986	6,190	130	13,306
13	31,485	7,829	4,162	32	12,023
14	38,254	8,056	3,571	7	11,634
15	29,784	7,236	12,775	19	20,030
16	35,933	9,887	5,969	17	15,873
17	41,547	9,236	6,981	43	16,260
18	35,137	15,229	2,390	82	17,701
19	64,636	6,781	9,300	16	16,097
20	61,045	15,197	6,552	27	21,776
21	40,466	7,657	9,346	222	17,225
22	72,858	8,468	30,617	155	39,240
23	44,532	9,688	N.S.	N.S.	9,688
24	13,600	N.S.	N.S.	N.S.	-
25	56,276	499*3	N.S.	N.S.	499*3
26	13,915	6,944	4,184	116	11,244
27	29,169	9,918	4,559	1	14,478
28	67,429	8,662	2,449	2	11,113
29	16,575	13,644	6,134	1,912	21,690
30	18,724	10,369*2	4	5,730	16,103
31	14,091	N.S.	N.S.	N.S.	-
TL	1,203,762	272,186	183,486	9,155	464,827
ME	38,831	8,780	5,919	295	14,994
%	-	23%	15%	1%	39%

*1 St. Regis Lab Results
*2 St. Regis Sample
*3 Composite of 24th and 25th
N.S. No Sample

JULY 25, 1963

TO: E. H. COLE

cc: C. Cameron, L. Philipps, R. Armstrong, R. Johnson, C. Eckhart

SUBJECT: COMPOSITE SAMPLING PROGRAM

Just prior to the first of May this year an experimental program was initiated to explore the possibility of reducing the frequency of the City testing our waste water. Such a reduction would reduce their testing costs, and hopefully, the waste water processing charges.

Daily testing was carried out as usual by our lab personnel on suspended solids and BOD. A weekly composite sample was made from the daily samples, weighted by the daily flow for the Dorr, Waco and Angel effluents. These composite samples were tested for suspended solids and BOD by disposal plant personnel.

During this program period our daily results have been used for billing purposes.

From our daily test results the weekly, flow weighted, averages were computed. These computed averages have been compared with the City-obtained results (please see attached pages). The overall cost difference for the months of May and June was 7.90% for solids and 17.40% for BOD.

It was expected at the start of this program that differences would be found in BOD values due to sample changes on storage. Yet the differences found are very non-uniform, thereby preventing the use of any constant factor for calculation.

The cause for the differences in suspended solids measurements is not known. The writer places considerable faith in the test method employed by our lab; running 3 tests on each sample obtained daily, as opposed to a single test on a weekly composite sample as has been by the city during this program.

Currently, under the new superintendent, Mr. Goodman, the City is getting daily samples for test purposes. We are first measuring the solids and setting up BODs from these same samples (our values will again be used for billing purposes for July). There will be a meeting with disposal plant personnel shortly after the end of the month to go over the test values obtained by both places during the month. Results of this coming meeting will be put out in memo form later.

J. D. Hamelink

JH:djj

SOLIDS COMPARISON

Period Covered	Area	City #/MGal.	MSC	% Diff.	# Solids	Solids Charges	Diff. in $	% of [illegible]
May 1-8, 1963	Angel	.93	1.05	11.4	10,530	$96.83	-11.04	
May 9-15	Angel	1.76	1.95	9.7	22,717	209.00	-20.27	
May 16-22	Angel	1.83	1.65	10.9	18,567	170.82	+18.62	
May 23 - end	Angel	1.66	2.06	19.4	23,423	233,89	-45.37	
June 1-5	Angel	1.67	1.35	23.7	9,234	84.95	+20.13	
June 6-12	Angel	1.77	1.67	6.0	15,996	147.16	+ 8.83	
June 13-19	Angel	2.71	3.19	15.0	46,074	423,88	-63.58	
June 20-26	Angel	1.07	1.09	1.8	18,845	173.37	- 3.12	
June 27-end	Angel	-	3.53	-	9,043	83.20	-	
							-95.80	(-5.90%)
May 1-8, 1963	WACO	1.20	1.35	11.1	12,850	$118.22	-13.12	
May 9-15	Waco	1.69	2.06	18.0	12,622	116.12	-20.90	
May 16-22	Waco	1.77	1.64	7.9	11,808	108.63	+ 8.58	
May 23 - end	Waco	1.39	1.87	25.7	15,336	141.09	-36.26	
June 1-5	Waco	1.93	1.67	15.6	6,600	60.72	+ 9.47	
June 13-19	Waco	1.42	1.49	4.7	9,039	83.16	- 3.90	
June 13-19	Waco	1.92	2.20	12.7	4,744	43.64	- 5.54	
June 20-26	Waco	1.03	1.15	10.4	11,233	103.34	-10.75	
June 27-end	Waco	-	.76	-	2,558	23.53	-	
							-72.42	(-9.07%)
May 1-8, 1963	Dorr	1.42	1.39	2.2	10.357	$ 95.28	+ 2.10	
May 9-15	Dorr	1.01	1.08	6.5	3,029	27.87	- 1.81	
May 16-22	Dorr	.67	.89	24.7	3,617	33.28	- 8.22	
May 23-end	Dorr	.70	1.30	46.2	9,490	87.31	-40.34	
June 1-5	Dorr	2.00	1.67	19.8	7.327	67.41	+13.35	
June 6-12	Dorr	.72	.73	1.4	1,103	10.15	- .14	
June13-19	Dorr	.71	.95	25.3	5,054	46.50	-11.76	
June 20-26	Dorr	.90	1.45	37.9	2,424	22.30	- 8.45	

SOLIDS OPERATION (Continued)

Period Covered	Area	$/Cal. City	$/Cal. MSS	% Diff.	# Solids	Solids Charges	Diff. in Chgs.	% of Add. Pl.
June 27-End	Derr	-	1.67	-	1.873	$ [illegible]	-	
							[illegible]	[illegible]

Total amount paid for solids - $[illegible]
Total difference in costs [illegible] ([illegible])

B.O.D. COMPARISON

Period Covered	Area	PPM City	PPM MOS	% Diff.	# BOD	BOD Charges	Diff. in Charges	% of Avg. Diff.
May 1-8, 1963	Argall	163	157	3.8	13,176	$ 41.64	+ 1.56	
May 9-15		99	134	26.1	13,008	41.10	-10.73	
May 16-22		131	132	.8	12,469	39.40	- .32	
May 23-end		107	139	23.0	14,349	45.34	-10.43	
June 1-5		63	127	50.4	7,285	23.02	-11.60	
June 6-12		86	136	36.8	10,963	34.64	-12.75	
June 13-19		94	147	46.9	22,995	72.66	-34.08	
June 20-26		121	132	8.3	17,386	54.94	- 4.56	
June 27-end			207		4,425	13.98		
							-82.69	(28.60%)
May 1-8, 1963	WASO	117	114	2.6	9,084	$ 28.71	+ .75	
May 9-15	12	126	120	5.0	6,134	19.39	+ .57	
May 16-22		162	111	45.9	6,688	21.13	+ 9.70	
May 23-end		129	136	5.1	9,303	29.40	- 1.50	
June 1-5		75	132	43.2	4,466	14.11	- 6.10	
June 6-12		86	116	25.9	5,875	18.56	- 4.81	
June 13-19		49	128	61.7	2,314	7.31	- 4.51	
June 20-26		106	106	0	8,660	27.37	-----	
June 27 - end		-	91	-	2,561	8.09	-----	
							- 9.50	(3.16%)

B.O.D. COMPARISON (Continued)

Period Covered	Area	PRM City	PRM MCC	% Diff	# BOD	BOD Charges	Diff. In Charges	% of Amt.Pd.
May 1-8	DOWN	151	157	3.8	9,784	$30.92	- 1.17	
May 9-15		128	148	13.5	3,461	10.94	- 1.48	
May 16-22		126	116	8.6	3.959	12.51	+ 1.08	
May 23-end		132	146	9.6	8,879	28.06	- 2.69	
June 1-5		76	176	56.8	6,568	20.75	-11.79	
June 6-12		37	130	71.5	1,639	5.18	- 3.70	
June 13-19		72	151	52.3	6,696	21.16	-11.07	
June 20-26		145	131	10.7	1,822	5.76	+ .62	
June 27-end			191		1,787	5.65		
							-30.20	(21.43%)

Total amount paid for BOD $681.73
Total difference in costs $118.59 (17.40%)

Water Composite Samples

Sample AUGE2

Period 14-23 APRIL 63

Date	Flow	Size Sample	Solids		BOD	
			#/Mgl.	#/Day	mg/l	#/Day
15	2,223,900	222	1.55	3,447	69	1281
16	2,143,800	214	1.00	2,144	71	1270
17	2,283,300	228	.86	1,964	53	1010
18	2,272,600	227	1.10	2,500	127	2409
19	2,213,400	221	1.17	2,484	152	2693
22	2,213,500	221	1.28	2,833	85	1570
23	2,460,000	246	3.13	7,700	192	3736
Total	15,810,500	1579		23,072		13,969
	Weighted Average		1.46		106	

Water Composite Samples

Sample ANGEL

Period 11-13 APRIL 63

Date	Flow	Size Sample	Solids #/Mgal.	Solids #/Day	BOD PPM	BOD #/Day
11	2,334,600	233	1.82	4,249	74	1442
12	2,174,000	217	1.22	2,652	31	562
13	—	—	—	—	—	—
Total	4,508,600	450		6,901		2,004
	Weighted Average		1.53		53	

Water Composite Samples

Sample Fountain - Dark

Period 24-30 April 63

Date	Flow	Size Sample	Solids #/Mgal.	Solids #/Day	BOD ppm	BOD #/Day
24	1,116,000	112	1.08	1,205	136	1,267
25	1,296,000	130	1.48	1,918	116	1,255
26	1,152,000	115	.83	956	137	1,317
27	—	—	—	—	—	—
28	—	—	—	—	—	—
29	1,008,000	101	.82	827	142	1,194
30	984,800	98	.93	916	149	1,225
Total	5,556,800	556		5,822		6,258
	Weighted Average		1.05		135	

Water Composite Samples

Sample Fountain — Door

Period 14-23 April 63

Date	Flow	Size Sample	Solids #/Mgal.	Solids #/Day	BOD ppm	BOD #/Day
14	—	—	—	—	—	—
15	599,800	60	.97	582	69	345
16	883,400	88	1.54	1,360	64	472
17	823,300	82	1.21	996	44	302
18	1,218,200	122	.90	1,096	140	1,423
22	938,000	94	1.38	1,294	175	1,370
23	972,000	97	1.49	1,448	161	1,306
Total	5,434,700	543	XXXX	6,776	XXXX	5,218
	Weighted Average		1.25		115	

Water Composite Samples

Sample FOUNTAIN – DORR

Period 11-13 APRIL 63

Date	Flow	Size Sample	Solids		BOD	
			#/Mgal.	#/Day	ppm	#/Day
11	1,233,300	123	1.54	1,899	107	1101
12	929,200	93	.58	539	39	239
13	—	—	—	—	—	—
Total	2,162,500	216		2,438		1340
	Weighted Average		1.13		74	

Water Composite Samples

Sample Auger

Period 24-30 April 63

Date	Flow	Size Sample	Solids		BOD	
			#/Mgal.	#/Day	PPM	#/Day
24	3,060,000	306	3.00	9,180	202	5,158
25	2,700,000	270	2.08	5,616	158	3,560
26	—	—	—	—	—	—
27	—	—	—	—	—	—
28	—	—	—	—	—	—
29	2,083,000	208	1.14	2,375	116	2,016
30	2,043,600	204	1.36	2,779	140	2,388
Total	9,886,600	988		19,950		13,122
	Weighted Average		2.02		159	

Water Composite Samples

Sample FOUNTAIN – WACO

Period 24-30 APRIL 63

Date	Flow	Size Sample	Solids #/Mgal.	Solids #/Day	BOD ppm	BOD #/Day
24	1,563,000	156	1.33	2,079	112	1,304
25	1,629,000	163	1.22	1,987	85	1,155
26	1,492,000	149	.73	1,089	85	1,058
27	1,045,000	105	.80	836	62	541
28	—	—	—	—	—	—
29	1,232,500	123	.88	1,085	108	1,112
30	1,615,000	162	.98	1,583	106	1,429
Total	8,577,500	858		8,659		6,599
	Weighted Average		1.01		92	

Water Composite Samples

Sample Fountain - Waco

Period 14-23 April 63

Date	Flow	Size Sample	Solids #/Mgal.	Solids #/Day	BOD ppm	BOD #/Day
14	—	—	—	—	—	—
15	1,495,000	150	1.19	1,779	68	848
16	1,622,000	162	1.91	3,098	58	785
17	1,611,000	161	1.20	1,933	28	376
18	1,456,000	146	.83	1,208	121	1470
22	1,420,000	142	2.18	3,096	141	1671
23	1,584,000	158	1.57	2,487	137	1811
Total	9,188,000	919	XXXX	13,601	XXXX	6961
	Weighted Average		1.48		91	

Water Composite Samples

Sample Fountain – Waco

Period 11-13 April 63

Date	Flow	Size Sample	Solids #/Mgal.	Solids #/Day	BOD ppm	BOD #/Day
11	1,643,000	164	1.57₀	2,583	82	1124
12	1,632,000	163	1.65	1,061	40	545
13	—	—	—	—	—	—
Total	3,275,000	327		3,624		1669
	Weighted Average		1.11		61	

Water Composite Samples

Sample Auger

Period 1-8 May 63

Date	Flow	Size Sample	Solids		BOD	
			#/Mgal.	#/Day	mg/l	#/Day
1	2,135,000	214	1.53	3,266	184	3,278
2	2,041,300	204	1.33	2,715	154	2,623
3	—	—	—	—	—	—
4	—	—	—	—	—	—
6	1,980,000	198	.78	1,544	125	2,065
7	1,985,500	199	1.19	1,363	152	2,518
8	1,932,000	193	.85	1,642	167	2,692
Total	10,073,800	1008		10,530		13,176
	Weighted Average		1.05		157	

Water Composite Sampler

Sample Auger

Period 9-15 May 63

Date	Flow	Size Sample	Solids #/Mgal.	Solids #/Day	BOD ppm	BOD #/Day
9	2,142,700	214	1.47	3,150	139	2,485
10	2,104,000	210	1.57	3,303	144	2,528
11	—	—	—	—	—	—
12	—	—	—	—	—	—
13	2,085,300	208	1.22	2,544	125	2,175
14	3,063,300	306	2.83	8,669	146	3,732
15	3,275,200	328	2.22	5,051	110	2,088
Total	16,670,500	1166		22,717		13,008
	Weighted Average		1.95		134	

Water Composite Samples

Sample ANGEL

Period 16-22 May 63

Date	Flow	Slime Sample	Solids		BOD	
			#/Mgal.	#/Day	ppm	#/Day
16	2,246,000	225	1.66	3728	141	2643
17	2,234,700	223	1.20	2682	128	2387
18	—	—	—	—	—	—
19	—	—	—	—	—	—
20	2,448,000	245	1.28	3133	128	2615
21	2,139,400	214	1.88	4022	145	2589
22	2,213,400	221	2.26	5002	121	2235
Total	11,281,500	1128		18,567		12,469
	Weighted Average		1.65		132	

Water Composite Samples

Sample Auger

Period 28 - End MAY 63

Date	Flow	Size Sample	Solids		BOD	
			#/Mgal.	#/Day	ppm	#/Day
23	2,088,000	209	1.78	3,717	75	1307
24	2,165,100	216	3.34	7,231	151	2728
25	2,138,100	214	3.70	7,911	154	2748
26	2,232,000	223	.85	1,897	162	3017
27	1,551,000	155	1.31	2,032	137	1773
28	2,160,000	216	1.22	2,635	154	2776
29	—	—	—	—	—	—
Total	12,334,200	1233		25,423		14,349
	Weighted Average		2.06		139	

1.0

Water Composite Samples

Sample FOUNTAIN - DOCK

Period 1-8 MAY 63

Date	Flow	Size Sample	Solids #/Mgal.	Solids #/Day	BOD ppm	BOD #/Day
1	1,319,000	132	.98	1,293	154	1695
2	1,242,800	125	1.17	1,460	140	1458
3	1,231,200	123	2.00	2,462	158	1623
4	1,382,400	138	1.25	1,728	178	2053
6	1,152,000	115	1.60	1,843	170	1634
7	1,130,400	113	1.39	1,571	140	1321
8	—	—	—	—	—	—
Total	7,462,800	746	XXXX	10,357	XXXX	9784
	Weighted Average		1.39		157	

Water Composite Samples

Sample FOUNTAIN - DOOR

Period 9-15 MAY 63

Date	Flow	Size Sample	Solids #/Mgal.	Solids #/Day	BOD ppm	BOD #/Day
9	—	—	—	—	—	—
10	—	—	—	—	—	—
11	—	—	—	—	—	—
12	—	—	—	—	—	—
13	821,500	82	.78	641	171	1,172
14	1,257,200	126	1.30	1634	149	1563
15	725,400	73	1.04	754	120	726
Total	2,804,100	281	XXXX	3,029	XXXX	3,461
	Weighted Average		1.08		148	

Water Composite Samples

Sample FOUNTAIN - DORR

Period 16-22 MAY 63

Date	Flow	Size Sample	Solids #/Mgal.	Solids #/Day	BOD DJC	BOD #/Day
16	922,900	97	.61	593	95	721
17	1,092,800	109	.69	754	78	711
18	—	—	—	—	—	—
19	—	—	—	—	—	—
20	124,700	12	.47	59	122	127
21	914,600	91	.84	768	149	1139
22	981,900	98	1.47	1443	148	1213
Total	4,086,900	407	XXXX	3,617	XXXX	3959
	Weighted Average		.89		116	

Water Composite Samples

Sample Fountain - Door

Period 23 - End of May 63

Date	Flow	Size Sample	Solids #/Mgal.	Solids #/Day	BOD ppm	BOD #/Day
23	1,489,400	149	2.09	3,111	163	1,297
24	1,321,200	137	1.38	1,892	151	1,728
25	807,300	81	1.18	953	169	1,139
26	1,038,200	104	1.09	1,132	179	1,552
27	1,475,400	148	1.17	1,726	156	1,921
28	1,127,400	113	.60	676	132	1,242
29	—	—	—	—	—	—
Total	7,308,400	732		9,490		8,879
	Weighted Average		1.30		146	

Water Composite Samples

Sample FOUNTAIN - WACO

Period 1 - 8 MAY 63

Date	Flow	Size Sample	Solids		EC	
			#/Mgal.	#/Day	ppm	#/Day
1	1,619,000	162	1.19	1,927	113	1527
2	1,536,000	154	1.04	1,597	85	1090
3	1,507,000	151	1.45	2,185	121	1522
4	—	—	—	—	—	—
6	1,772,000	177	1.24	2,197	129	1908
7	1,629,000	163	1.64	2,672	124	1686
8	1,485,000	149	1.53	2,272	109	1351
Total	9,548,000	956		12,850		9084
	Weighted Average		1.35		114	

Water Composite Samples

Sample Fountain – Waco

Period 9-15 May 63

Date	Flow	Size Sample	Solids #/Mgal.	Solids #/Day	BOD ppm	BOD #/Day
9	1,524,000	157	.82	1,291	93	1222
10	—	—	—	—	—	—
11	—	—	—	—	—	—
12	—	—	—	—	—	—
13	1,170,000	117	2.23	2,921	166	1621
14	1,529,000	158	2.80	4,421	148	1950
15	1,805,000	181	2.21	3,989	89	1341
Total	6,128,000	613		12,622		6134
	Weighted Average		2.06		120	

126

Water Composite Samples

Sample Fountain - Waco

Period 16-22 May 63

Date	Flow	Size Sample	Solids #/Mgal.	Solids #/Day	BOD ppm	BOD #/Day
16	1,325,000	133	2.03	2,690	78	862
17	1,344,000	134	1.20	1,613	105	1178
18	—	—	—	—	—	—
19	—	—	—	—	—	—
20	1,498,000	150	1.34	2,007	117	1463
21	1,525,000	153	1.22	1,861	125	1591
22	1,528,000	153	2.38	3,637	125	1594
Total	7,220,000	723	X	11,808	X	6688
	Weighted Average		1.64		111	

Water Composite Samples

Sample Fountain - Waco

Period 23 - End May 63

Date	Flow	Size Sample	Solids #/Mgal.	Solids #/Day	BOD ppm	BOD #/Day
23	1,291,000	129	2.38	3,072	134	1444
24	1,350,000	135	1.48	1,998	122	1374
25	1,450,000	145	2.28	3,306	139	1682
26	1,462,000	146	1.89	2,763	161	1964
27	1,411,000	141	1.98	2,794	146	1719
28	1,220,000	122	1.15	1,403	110	1120
29	—	—	—	—	—	—
Total	8,184,000	818	XXXXXX	15,336	XXXXXX	9303
	Weighted Average		1.87		136	

[illegible]

[illegible] ANGEL

[illegible] 1-5 JUNE 63

Date	Flow	Size Sample	Solids		BOD	
			[illegible]	[illegible]	[illegible]	[illegible]
—	—	—	—	—	—	—
—	—	—	—	—	—	—
1	—	—	—	—	—	—
2	—	—	—	—	—	—
3	2,209,900	221	1.10	2,431	129	2379
4	2,376,000	238	1.67	3,968	131	2597
5	2,268,000	227	1.25	2,835	122	2309
Total	6,853,900	686		9,234		7,285
	Weighted Average		1.35		127	

ANGEL

6-12 JUNE 63

Date	Flow	Size Sample	Solids [illegible]	Solids [illegible]	[illegible]	[illegible]
6	2,205,100	221	1.49	3,286	147	2,705
7	—	—	—	—	—	—
8	—	—	—	—	—	—
9	—	—	—	—	—	—
10	2,209,900	221	1.89	4,177	135	2,490
11	2,590,200	259	1.63	4,222	129	2,788
12	2,550,600	*	1.69*	4,311	140*	2,980
Total	9,555,800	701		15,996		10,963
	Weighted Average		1.67		136	
TOTAL FOR COMPUTING WEIGHTED AVERAGE	7,005,200			11,685		7,983

* SAMPLER OUT OF PROPER WORKING ORDER — USING AVERAGE VALUES FOR MONTH OF MAY FOR DAILY TOTALS (NOT IN COMPUTING COMPOSITE WEIGHTED AVERAGE).

ANGEL

13-19 JUNE 63

13	2,522,200	257	1.80	4,630	134	2,876
14	2,620,900	262	3.60	9,435	185	4,046
15	2,344,200	234	3.58	8,392	179	3,502
16	2,264,300	226	3.90	8,831	215	4,063
17	2,179,000	*	2.19 *	4,772	151 *	2,746
18	2,363,100	**	2.19 **	5,175	151 **	2,978
19	2,209,800	***	2.19 ***	4,839	151 ***	2,784
TOTAL	16,553,500	979		46,024		22,995
			3.19		177	
TOTAL FOR COMPUTING WEIGHTED AVERAGE	9,801,600			31,288		14,487

* HIGH PEAK FLOW FILLED SAMPLE CONTAINER — USING AVERAGE VALUE FOR MONTH TODATE FOR SUSPENDED SOLIDS & BOD.

** SAMPLER OUT OF WORKING ORDER — USING AVERAGE VALUE FOR MONTH TODATE FOR SUSPENDED SOLIDS & BOD.

*** SAME AS **.

ANGEL
20-26 JUNE 63

Date	Flow	Flow Sample	[illegible]		[illegible]	
20	1,648,200	*	2.19*	3,611	151*	2077
21	2,437,400	244	1.15	2,803	115	2339
22	2,552,600	255	1.23	3,140	119	2535
23	2,180,000	218	.89	1,940	123	2238
24	2,237,500	224	1.10	2,461	166	3100
25	2,316,500	232	.93	2,154	135	2610
26	2,224,000	224	1.23	2,736	134	2487
Total	15,596,700	1397		18,845		17,386
	Weighted Average		1.09		132	
TOTAL FOR COMPUTING WEIGHTED AVERAGE	13,948,000			15,234		15,309

* SAMPLER REPAIRED. COMPLETED AT TIME OF SHUT DOWN, THEREFORE NO SAMPLE — USING AVERAGE VALUE FOR MONTH TO DATE FOR SUSPENDED SOLIDS & BOD.

Water Composite Samples

Sample: AUGER

Period: 27 - END OF MONTH

Date	Flow	Size Sample	Solids		BOD	
			#/Mgal.	#/day	mg/l	#/day
27	2,561,800	256	3.53	9,043	207	4425
28	MILL DOWN	—	—	—	—	—
29	—	—	—	—	—	—
30	—	—	—	—	—	—
Total	2,561,800	256		9,043		4,425
	Weighted Average		3.53		207	

Water Composite Samples

Sample FOUNTAIN - WACO

Period 1-5 JUNE 63

Date	Flow	Size Sample	Solids #/Gal.	Solids #/Day	BOD ppm	BOD #/Day
—	—	—	—	—	—	—
—	—	—	—	—	—	—
1	—	—	—	—	—	—
2	—	—	—	—	—	—
3	1,296,000	*	1.33 *	1,724	115 *	1,244
4	1,488,000	149	1.55	2,306	127	1,577
5	1,428,000	143	1.80	2,570	138	1,645
Total	4,212,000	292		6,600		4,466
	Weighted Average		167		132	
TOTAL FOR WEIGHTED AVERAGE	2,916,000			4,876		3,222

* SAMPLER OUT OF ORDER - USING AVERAGE VALUES FOR MAY FOR SUSPENDED SOLIDS & BOD.

FOUNTAIN - WACO
6-12 JUNE 63

6	1,510,000	151	.85	1,284	91	1147
7	—	—	—	—	—	—
8	—	—	—	—	—	—
9	—	—	—	—	—	—
10	1,375,000	138	1.32	1,815	133	1,526
11	1,599,000	160	1.32	2,639	112	1,494
12	1,587,000	159	2.08	3,301	129	1,708
	6,071,000	609	~~1.49~~	9039	~~116~~	5875
			1.49		116	

FOUNTAIN - WACO
13-19 JUNE 63

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	1,725,000	173	2.32	4,002	132	1900
14	431,300	43	1.22	742	115	414
15	—	—	—	—	—	—
16	—	—	—	—	—	—
17	—	—	—	—	—	—
18	—	—	—	—	—	—
19	—	—	—	—	—	—
[illegible]	2,156,300	216	><	4,744	><	2,314
[illegible]			2.20		128	

Fountain - Waco
20-26 June 63

20	599,000	60	.76	455	135	675
21	1,853,000	185	1.59	2,854	127	1546
22	1,890,000	189	2.13	4,026	128	2019
23	1,902,000	190	.88	1,674	100	1587
24	—	—	—	—	—	—
25	1,641,000	164	.67	1,099	96	1315
26	1,875,000	188	.60	1,125	97	1518
	9,760,000	976		11,233		8660
			1.15		106	

Fountain – Waco
27 - End of June

27	1,761,000	176	.97	1,708	116	1,705
28	1,603,000	160	.53	850	64	856
29	—	—	—	—	—	—
30	—	—	—	—	—	—
—	—	—	—	—	—	—
—	—	—	—	—	—	—
—	—	—	—	—	—	—

FOUNTAIN - DORR
1-5 JUNE 63

—	—	—	—	—	—	—
—	—	—	—	—	—	—
1	—	—	—	—	—	—
2	—	—	—	—	—	—
3	1,396,200	140	2,18	3044	202	2354
4	1,579,100	158	1,65	2,606	176	2319
5	1,484,500	148	1,13	1,677	153	1895
	4,459,800	446		7,327		6568
			1.64		176	

FOUNTAIN – DORR
6-12 JUNE 63

6	1,511,100	151	.73	1,103	130	1639
7	—	—	—	—	—	—
8	—	—	—	—	—	—
9	—	—	—	—	—	—
10	—	—	—	—	—	—
11	—	—	—	—	—	—
12	—	—	—	—	—	—
	1,511,100	151		1,103		1639
			.73		130	

Fountain – Door
13-19 June 63

13	931,700	93	2.23	2,078	180	1400
14	194,200	19	.75	146	113	183
15	880,200	88	.52	458	135	992
16	—	—	—	—	—	—
17	1,088,700	109	.76	827	158	1435
18	1,690,500	169	.76	1,285	150	2116
19	509,700	51	.51	260	134	570
	5,295,000	529		5,054		6696
			.95		151	

Fountain - Dora
20-26 June 63

20	—	—	—	—	—	—
21	282,400	28	1.52	429	183	431
22	1,124,200	112	1.67	1,877	144	1073
23	53,600	5	.35	19	93	42
24	—	—	—	—	—	—
25	49,700	5	.63	31	202	84
26	158,700	16	.43	68	145	192
	1,668,600	166		2,424		1822
			1.45		131	

FOUNTAIN – DORA
27 – END JUNE 63

27	1,121,400	112	1.67	1,873	191	1787
28	3,800	—	—	—	—	—
29	—	—	—	—	—	—
30	—	—	—	—	—	—
—	—	—	—	—	—	—
—	—	—	—	—	—	—
—	—	—	—	—	—	—
	1,125,200	112		1,873		1787
			1.67		191	

MICHIGAN CARTON - December, 1962

			QUANTITY	CHARGES
			Fountain St. - Dorr	
FLOW	M.G.		5.434	77.71
BOD	Lbs.		4,942	15.63
Susp. Solids	Lbs.		4,407	40.54
Sub Total				133.87
			Fountain St. - Waco	
FLOW	M.G.		22.221	317.76
BOD	Lbs.		23,740	75.02
Susp. Solids	Lbs.		39,737	365.58
Sub Total				758.36
			Angle Street	
FLOW	M.G.		38,971 39.654	567.05
BOD	Lbs.	3 / 6	59,532 60,663	191.70
Susp. Solids	Lbs.	9 20	119,814 122,629	1,128.19
Sub Total				1,886.94

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
SEPTEMBER 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS LBS. (City)	DORR COMPOSITE SUSPENDED SOLIDS LBS. (City)	WACO COMPOSITE SUSPENDED SOLIDS LBS. (City)	TOTAL
1	26,793	8,552**	6,016	1	14,569
2	35,168	6,532**	10,735	3	17,270
3	16,775	6,721**	10,458	50	17,229
4	30,124	10,569	5,148	12	15,729
5	28,303	8,157	7,824	16	15,997
6	10,048	2,919	5,715	4	8,638
7	41,418	4,743	8,023	69	12,835
8	23,402	3,158	15,420	25	18,603
9	41,762	6,764	8,311*	18	15,093
10	42,334	12,703	9,323	60	22,086
11	28,953	7,848**	12,509	52	20,409
12	49,773	4,815	10,489	9	15,313
13	66,674	8,808	5,451	11	14,270
14	48,555	3,021	11,687	12	14,720
15	34,861	8,117	5,248	638	14,003
16	45,276	9,199	4,603	4,283	18,085
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
TL					
ME					
%					

* St. Regis Figures ** St. Regis sampler

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
AUGUST 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS lbs. (City)		DORR COMPOSITE SUSPENDED SOLIDS lbs. (City)	WACO COMPOSITE SUSPENDED SOLIDS lbs. (City)	TOTAL
1	36,126	623		7,675	4	8,302
2	33,360	9,299		6,453	13	15,765
3	38,833	17,245		2,375	5	19,625
4	49,609	11,578		4,034	12	15,624
5	34,152	4,853		8,044	39	12,936
6	34,528	4,221		11,840	4	16,065
7	29,832	37,303		1,362	1	38,666
8	36,485	30,198		12,931	104	43,233
9	68,587	1,416		-	92	-
10	19,550	915*		-	113	-
11	22,020	287		-	-	-
12	14,315	11		-	-	-
13	34,165	20,407**	Sampler off	5,254*	1,191	26,852
14	54,107	6,695		3,363*	238	10,296
15	37,669	9,144		4,157*	152	13,453
16	35,281	1,529		2,475*	3	4,007
17	40,284	8,227	Sampler off	2,073	7	10,307
18	39,090	14,074		10,745	2	24,821
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

*Based on City flow estimates **St. Regis figures

RECEIVED
AUG 21 1979
WASTEWATER
TREATMENT PLANT

SUSPENDED SOLIDS ANALYSIS
ST. REGIS PAPER COMPANY
JULY 1979

	PLANT INFLUENT	ANGELL COMPOSITE SUSPENDED SOLIDS lbs. (City)	DORR COMPOSITE SUSPENDED SOLIDS lbs. (City)	WACO COMPOSITE SUSPENDED SOLIDS lbs. (City)	TOTAL
1	42,194	16,789	4,433	1,342	22,564
2	58,919	4,631	2,166	4,348	11,145
3	28,640	-	-	-	-
4	18,128	63	961	1,304	2,328
5	40,567	2,816	6,184	1,728	10,728
6	49,360	9,730	3,733	24	13,487
7	39,540	10,731	3,599	3	14,333
8	35,884	10,601	4,428	507	15,536
9	41,438	8,674	2,540	79	11,293
10	53,863	8,659	9,662	935	19,256
11	57,181	22,368	11,072	88	33,528
12	104,526	20,632	3,879	221	24,732
13	62,710	12,828	1,469	58	14,355
14	56,712	11,884	2,989	12	14,885
15	40,901	8,140	4,293	9	12,442
16	69,209	11,950	3,066	13	15,029
17	66,936	22,537	7,913	71	30,521
18	94,101	31,941	14,953	21	46,915
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
TL	960,809	214,974	87,340	10,763	313,077
ME	53,378	11,943	4,852	598	17,393
		22%	9%	1%	33%

TOTAL ST. REGIS SOLIDS LOADINGS

1-12-80 thru 1-21-80

DATE		WWTP LAB RESULTS AMT NORMALLY BILLED (LBS)	PROBABLE MINIMUM LOADING ACTUALLY RECEIVED (LBS)		PERCENTAGE IN EXCESS OF BILLABLE AMOUNT
1-12-80		10,817	29,208	1	170%
1-13-80		20,604	29,084	1	41%
1-14-80		8,586	13,689	2	59%
1-15-80		18,671	19,976	3	7%
1-16-80		11,619	16,691	3	44%
1-17-80		14,763	21,419	3	45%
1-18-80		11,585	12,253	3	6%
1-19-80		14,989	19,375	3	29%
1-20-80		11,036	13,167	3	19%
1-21-80		11,404	21,030	3	84%
	TL	134,074	195,892		
	ME	13,407	19,589		46%

1 Based on grab samples taken at frequent intervals, as well as actual observations made at St. Regis' plants.

2 Based on grab samples, observations, and retesting of heavy,flocculant samples

3 Based on specially installed sampler (ISCO) composites

Due to the nature of the material being discharged and the ability of the samplers to pump the material all "probable minimums" are felt to be very conservative, Actual loadings may have exceeded these by a large percentage.

CITY OF BATTLE CREEK, MICHIGAN
DEPARTMENT OF PUBLIC WORKS
Zip Code 49017

WASTE WATER TREATMENT PLANT

2000 WEST RIVER ROAD

April 28, 1967

WASTEWATER TREATMENT

1966

	FLOW (MG)	B.O.D. (LBS.)	SUSP. SOLIDS (LBS.)
MICHIGAN CARTON	1,387,098,800	2,025,182	3,332,374
KELLOGG COMPANY	321,998,900	4,466,241	716,127
GENERAL FOODS	95.501.000	1.663.666	393.502
TOTAL INDUSTRIAL	1,804,598,700	8,155,089	4,442,003
DOMESTIC	2.649.901.300	4.323.911	9.934.597
TOTAL PLANT LOADING 1966	4,454,500,000	12,479,000	14,376,600

RESPONSES TO:

#16 Process Wastewater
Michigan Paperboard

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD May 2003

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			46300291				
01	1,650	820	46306327	0.60360	8,306	4,128	
02	1,710	830	46311033	0.47060	6,711	3,258	
03	1,740	1,200	46315658	0.46250	6,712	4,629	
04	1,815	1,395	46320538	0.48800	7,387	5,678	
05	1,710	610	46325829	0.52910	7,546	2,692	
06	1,710	1,070	46331053	0.52240	7,450	4,662	
07	1,890	2,110	46336193	0.51400	8,102	9,045	
08	1,698	1,089	46341158	0.49650	7,031	4,509	*
09	2,070	1,520	46346466	0.53080	9,164	6,729	
10	2,040	1,400	46352339	0.58730	9,992	6,857	
11	1,635	1,360	46363723	1.13840	15,523	12,912	
12	520	2,420	46372546	0.88230	3,826	17,807	
13	300	1,055	46375631	0.30850	772	2,714	
14	400	415	46381159	0.55280	1,844	1,913	
15	400	653	46392980	1.18210	3,943	6,438	
16	750	1,000	46403002	1.00220	6,269	8,358	
17	1,287	1,217	46408508	0.55060	5,910	5,588	*
18	1,482	1,015	46413761	0.52530	6,493	4,447	
19	1,650	1,040	46418756	0.49950	6,874	4,332	
20	1,410	950	46424164	0.54080	6,359	4,285	
21	1,218	1,210	46427793	0.36290	3,686	3,662	*
22	1,680	1,270	46434058	0.62650	8,778	6,636	
23	1,620	1,050	46439117	0.50590	6,835	4,430	
24	1,620	910	46445054	0.59370	8,021	4,506	
25	1,149	1,030	46450117	0.50630	4,852	4,349	*
26	1,149	1,030	46454486	0.43690	4,187	3,753	*
27	1,149	1,030	46459622	0.51360	4,922	4,412	*
28	1,770	1,490	46464586	0.49640	7,328	6,169	
29	1,153	1,043	46469392	0.48060	4,621	4,181	*
30	1,860	1,150	46474060	0.46680	7,241	4,477	
31	1,278	1,009	46478978	0.49180	5,242	4,139	*
TOTAL				17.86870	201,927	171,694	
AVG.	1,404	1,142		0.57641	6,514	5,539	

APPROVED BY:_____ **DATE:**_____

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **APRIL** **2003**

 # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			46119497				
01	1,500	1,210	46124904	0.54070	6,764	5,456	
02	1,500	640	46131866	0.69620	8,709	3,716	
03	1,080	1,370	46140664	0.87980	7,925	10,052	
04	1,225	870	46146423	0.57590	5,884	4,179	
05	1,300	750	46152323	0.59000	6,397	3,690	
06	1,310	745	46157460	0.51370	5,612	3,192	
07	1,415	830	46163132	0.56720	6,694	3,926	
08	1,435	1,340	46170277	0.71450	8,551	7,985	
09	1,280	2,360	46178407	0.81300	8,679	16,002	
10	1,235	920	46184194	0.57870	5,961	4,440	
11	1,560	840	46189941	0.57470	7,477	4,026	
12	1,680	1,000	46195822	0.58810	8,240	4,905	
13	1,545	825	46200823	0.50010	6,444	3,441	
14	1,380	949	46206713	0.58900	6,779	4,662	*
15	1,500	980	46212383	0.56700	7,093	4,634	
16	1,590	900	46217889	0.55060	7,301	4,133	
17	1,375	1,060	46225415	0.75260	8,630	6,653	
18	1,470	1,250	46231457	0.60420	7,407	6,299	
19	1,475	600	46237347	0.58900	7,246	2,947	
20	1,590	1,060	46243439	0.60920	8,078	5,386	
21	2,750	980	46248861	0.54220	12,435	4,432	
22	1,740	1,000	46254682	0.58210	8,447	4,855	
23	1,500	460	46261493	0.68110	8,521	2,613	
24	1,440	1,130	46267776	0.62830	7,546	5,921	
25	1,405	390	46273546	0.57700	6,761	1,877	
26	1,590	1,320	46278832	0.52860	7,010	5,819	
27	1,665	1,185	46284550	0.57180	7,940	5,651	
28	1,170	1,200	46289568	0.50180	4,896	5,022	
29	1,620	970	46295262	0.56940	7,693	4,606	
30	1,770	900	46300291	0.50290	7,424	3,775	
TOTAL				18.07940	224,544	154,295	
AVG.	1,503	1,001		0.60265	7,485	5,143	

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **March** **2003**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			45890198				
01	1,405	930	45896418	0.62200	7,288	4,824	
02	1,365	680	45903084	0.66660	7,589	3,780	
03	1,170	820	45909638	0.65540	6,395	4,482	
04	1,155	1,010	45916026	0.63880	6,153	5,381	
05	910	2,320	45934249	1.82230	13,830	35,259	
06	730	1,480	45940463	0.62140	3,783	7,670	
07	1,215	1,180	45946505	0.60420	6,122	5,946	
08	1,395	1,110	45953219	0.67140	7,811	6,215	
09	1,425	1,095	45959581	0.63620	7,561	5,810	
10	1,530	1,260	45964905	0.53240	6,794	5,595	
11	1,500	2,190	45979996	1.50910	18,879	27,563	
12	720	2,120	45998239	1.82430	10,955	32,255	
13	1,227	1,320	46005169	0.69300	7,092	7,629	*
14	1,227	1,320	46011086	0.59170	6,055	6,514	*
15	1,560	810	46019360	0.82740	10,765	5,589	
16	1,240	1,308	46025469	0.61090	6,318	6,664	*
17	1,240	1,308	46031177	0.57080	5,903	6,227	*
18	1,440	1,350	46036425	0.52480	6,303	5,909	
19	1,770	840	46042361	0.59360	8,763	4,159	
20	1,500	1,050	46048614	0.62530	7,823	5,476	
21	1,405	860	46055878	0.72640	8,512	5,210	
22	1,285	1,210	46062286	0.64080	6,867	6,467	
23	1,262	620	46069037	0.67510	7,105	3,491	
24	1,355	1,120	46075289	0.62520	7,065	5,840	
25	1,500	1,410	46083413	0.81240	10,163	9,553	
26	1,350	990	46089026	0.56130	6,320	4,634	
27	1,416	1,176	46094593	0.55670	6,574	5,460	*
28	1,470	827	46100914	0.63210	7,749	4,360	
29	1,413	1,047	46106433	0.55190	6,504	4,819	*
30	1,530	975	46112584	0.61510	7,849	5,002	
31	1,440	890	46119497	0.69130	8,302	5,131	
TOTAL				22.92990	245,192	252,915	
AVG.	1,327	1,181		0.73967	7,909	8,159	

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **FEBRUARY** **2003**

 # DAYS **28**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			45714046				
01	1,365	760	45720276	0.62300	7,092	3,949	
02	1,485	580	45727440	0.71640	8,873	3,465	
03	1,500	750	45733541	0.61010	7,632	3,816	
04	1,290	610	45741157	0.76160	8,194	3,875	
05	1,320	780	45747624	0.64670	7,119	4,207	
06	945	1,410	45753182	0.55580	4,380	6,536	
07	1,155	1,180	45759524	0.63420	6,109	6,241	
08	1,180	920	45766172	0.66480	6,542	5,101	
09	1,345	810	45772293	0.61210	6,866	4,135	
10	1,400	860	45779537	0.72440	8,458	5,196	
11	1,380	1,210	45785461	0.59240	6,818	5,978	
12	1,500	930	45791434	0.59730	7,472	4,633	
13	1,380	1,110	45799080	0.76460	8,800	7,078	
14	1,560	1,160	45804293	0.52130	6,782	5,043	
15	1,590	1,040	45810002	0.57090	7,570	4,952	
16	1,635	995	45816098	0.60960	8,312	5,059	
17	1,740	1,240	45822602	0.65040	9,438	6,726	
18	1,412	1,064	45827657	0.50550	5,953	4,486	*
19	1,560	970	45835289	0.76320	9,930	6,174	
20	1,380	1,010	45839898	0.46090	5,305	3,882	
21	1,355	1,340	45845495	0.55970	6,325	6,255	
22	1,230	1,090	45852579	0.70840	7,267	6,440	
23	1,258	1,445	45858739	0.61600	6,463	7,424	
24	1,460	1,116	45865423	0.66840	8,139	6,221	*
25	1,370	1,550	45871954	0.65310	7,462	8,443	
26	1,380	960	45878278	0.63240	7,278	5,063	
27	1,410	1,390	45885018	0.67400	7,926	7,813	
28	1,255	1,010	45890198	0.51800	5,422	4,363	
TOTAL				17.61520	203,929	152,554	
AVG.	1,387	1,046		0.62911	7,283	5,448	

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **January** **2003**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			45516534				
01	1,475	890	45522993	0.64590	7,946	4,794	
02	1,309	986	45529370	0.63770	6,962	5,244	*
03	1,400	1,020	45536792	0.74220	8,666	6,314	
04	1,235	1,460	45542905	0.61130	6,296	7,443	
05	1,233	1,028	45549169	0.62640	6,441	5,370	*
06	1,460	1,320	45555646	0.64770	7,887	7,130	
07	1,310	1,040	45562333	0.66870	7,306	5,800	
08	1,465	1,340	45569259	0.69260	8,462	7,740	
09	1,135	1,020	45575484	0.62250	5,893	5,295	
10	1,390	760	45582431	0.69470	8,053	4,403	
11	1,455	870	45588495	0.60640	7,358	4,400	
12	1,382	905	45595772	0.72770	8,387	5,492	
13	1,330	660	45603757	0.79850	8,857	4,395	
14	1,270	760	45611577	0.78200	8,283	4,957	
15	1,290	880	45618227	0.66500	7,154	4,881	
16	1,045	820	45622667	0.44400	3,870	3,036	
17	1,600	1,210	45628567	0.59000	7,873	5,954	
18	1,285	980	45635802	0.72350	7,754	5,913	
19	1,365	1,220	45643337	0.75350	8,578	7,667	
20	1,460	1,290	45648810	0.54730	6,664	5,888	
21	1,500	870	45654410	0.56000	7,006	4,063	
22	1,475	690	45660263	0.58530	7,200	3,368	
23	1,500	1,420	45666290	0.60270	7,540	7,138	
24	1,435	1,570	45671004	0.47140	5,642	6,172	
25	1,395	1,420	45677834	0.68300	7,946	8,089	
26	1,332	1,445	45684438	0.66040	7,336	7,959	
27	1,404	1,156	45690533	0.60950	7,137	5,876	*
28	1,404	1,156	45695700	0.51670	6,050	4,982	*
29	1,470	830	45701756	0.60560	7,425	4,192	
30	1,440	880	45707896	0.61400	7,374	4,506	
31	1,530	860	45714046	0.61500	7,848	4,411	
TOTAL				19.75120	227,193	172,875	
AVG.	1,380	1,057		0.63714	7,329	5,577	

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **DECEMBER** **2002**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			45324912				
01	1,532	1,090	45330747	0.58350	7,455	5,304	
02	1,555	970	45336164	0.54170	7,025	4,382	
03	1,490	1,050	45341213	0.50490	6,274	4,421	
04	1,620	1,220	45346144	0.49310	6,662	5,017	
05	1,650	880	45351946	0.58020	7,984	4,258	
06	1,800	1,110	45356550	0.46040	6,912	4,262	
07	1,710	1,510	45361659	0.51090	7,286	6,434	
08	1,095	1,235	45373652	1.19930	10,952	12,353	
09	995	1,000	45380655	0.70030	5,811	5,841	
10	1,572	1,118	45386504	0.58490	7,668	5,454	*
11	1,380	1,520	45393214	0.67100	7,723	8,506	
12	1,405	1,910	45397836	0.46220	5,416	7,363	
13	1,590	1,060	45402958	0.51220	6,792	4,528	
14	1,503	1,176	45407757	0.47990	6,016	4,707	*
15	1,503	1,176	2 Day Avg	0.51325	6,434	5,034	*
16	1,503	1,176	45418022	0.51325	6,434	5,034	*
17	1,440	1,140	45423525	0.55030	6,609	5,232	
18	1,500	660	45429680	0.61550	7,700	3,388	
19	1,710	1,390	45433797	0.41170	5,871	4,773	
20	1,490	980	45440438	0.66410	8,253	5,428	
21	1,680	1,100	45445851	0.54130	7,584	4,966	
22	1,402	1,090	45456711	1.08600	12,698	9,872	
23	105	220	45461698	0.49870	437	915	
24	105	220	45470462	0.87640	767	1,608	@
25	105	220	2 Day Avg	0.54945	481	1,008	@
26	608	730	45481451	0.54945	2,786	3,345	
27	1,398	1,118	45488405	0.69540	8,108	6,484	*
28	1,145	1,480	45494969	0.65640	6,268	8,102	
29	1,190	1,275	45501621	0.66520	6,602	7,073	
30	1,210	820	45509429	0.78080	7,879	5,340	
31	1,390	920	45516534	0.71050	8,237	5,452	
TOTAL				19.16220	203,125	165,883	
AVG.	1,303	1,050		0.61814	6,552	5,351	

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

@ Denotes 2 day average Flow.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **NOVEMBER** **2002**

 # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			45156341				
01	1,590	947	45161712	0.53710	7,122	4,242	
02	1,620	1,050	45167227	0.55150	7,451	4,829	
03	1,452	765	45173242	0.60150	7,284	3,838	
04	1,530	910	45178403	0.51610	6,586	3,917	
05	1,620	810	45184100	0.56970	7,697	3,849	
06	1,500	1,030	45190955	0.68550	8,576	5,889	
07	1,410	1,170	45195071	0.41160	4,840	4,016	
08	1,340	880	45200225	0.51540	5,760	3,783	
09	1,260	810	45208293	0.80680	8,478	5,450	
10	1,450	1,160	45213715	0.54220	6,557	5,245	
11	1,370	490	45219573	0.58580	6,693	2,394	
12	1,305	505	45226436	0.68630	7,469	2,890	
13	1,500	650	45230950	0.45140	5,647	2,447	
14	1,620	1,140	45235988	0.50380	6,807	4,790	
15	1,380	1,150	45241701	0.57130	6,575	5,479	
16	1,440	904	45247229	0.55280	6,639	4,168	*
17	1,440	904	45252370	0.51410	6,174	3,876	*
18	1,440	904	45258652	0.62820	7,544	4,736	*
19	1,530	740	45264439	0.57870	7,384	3,572	
20	1,410	1,190	45271221	0.67820	7,975	6,731	
21	1,395	1,150	45275620	0.43990	5,118	4,219	
22	1,500	1,380	45282033	0.64130	8,023	7,381	
23	1,530	880	45286743	0.47100	6,010	3,457	
24	1,620	1,090	45292523	0.57800	7,809	5,254	
25	1,710	1,300	45297488	0.49650	7,081	5,383	
26	1,560	1,240	45303737	0.62490	8,130	6,462	
27	1,505	1,220	45309506	0.57690	7,241	5,870	
28	1,650	1,100	45314660	0.51540	7,092	4,728	
29	1,770	1,270	45319374	0.47140	6,959	4,993	
30	1,650	1,130	45324912	0.55380	7,621	5,219	
TOTAL				16.85710	210,343	139,108	
AVG.	1,503	996		0.56190	7,011	4,637	

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **OCTOBER** **2002**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			44957613				
01	1,710	1,160	44964510	0.68970	9,836	6,672	
02	1,830	1,340	44971672	0.71620	10,931	8,004	
03	1,400	1,630	44976719	0.50470	5,893	6,861	
04	1,145	1,190	44982160	0.54410	5,196	5,400	
05	1,285	630	44988340	0.61800	6,623	3,247	
06	1,530	1,340	44995544	0.72040	9,192	8,051	
07	1,680	1,190	45001614	0.60700	8,505	6,024	
08	1,710	1,790	45007702	0.60880	8,682	9,089	
09	1,470	1,390	45013382	0.56800	6,964	6,585	
10	1,650	1,400	45019741	0.63590	8,751	7,425	
11	1,580	1,334	45026712	0.69710	9,186	7,756	*
12	1,710	1,090	45034492	0.77800	11,095	7,072	
13	1,440	1,535	45040015	0.55230	6,633	7,070	
14	1,470	1,010	45047353	0.73380	8,996	6,181	
15	1,240	1,290	45055297	0.79440	8,215	8,547	
16	1,425	1,110	45061565	0.62680	7,449	5,803	
17	1,490	1,254	45066132	0.45670	5,675	4,776	*
18	1,490	1,254	45072754	0.66220	8,229	6,926	*
19	1,400	1,700	45078908	0.61540	7,185	8,725	
20	1,378	835	45084991	0.60830	6,991	4,236	
21	1,500	1,190	45090880	0.58890	7,367	5,845	
22	1,208	760	45097001	0.61210	6,167	3,880	
23	1,220	1,580	45104553	0.75520	7,684	9,951	
24	1,365	750	45110145	0.55920	6,366	3,498	
25	1,335	680	45116579	0.64340	7,164	3,649	
26	1,270	710	45125713	0.91340	9,675	5,409	
27	1,110	2,395	45135008	0.92950	8,605	18,566	
28	1,360	910	45139923	0.49150	5,575	3,730	
29	1,320	1,084	45145458	0.55350	6,093	5,004	*
30	1,710	1,270	45150801	0.53430	7,620	5,659	
31	1,680	1,040	45156341	0.55400	7,762	4,805	
TOTAL				19.87280	240,305	204,445	
AVG.	1,455	1,221		0.64106	7,752	6,595	

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **SEPTEMBER** **2002**

 # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			44776524				
01	1,755	1,090	44782262	0.57380	8,399	5,216	
02	1,980	1,100	44787706	0.54440	8,990	4,994	
03	1,950	1,530	44792754	0.50480	8,210	6,441	
04	1,830	1,300	44798494	0.57400	8,761	6,223	
05	1,530	890	44804111	0.56170	7,167	4,169	
06	1,744	1,397	44809904	0.57930	8,426	6,749	*
07	2,010	1,500	44815955	0.60510	10,144	7,570	
08	1,680	1,910	44823865	0.79100	11,083	12,600	
09	1,590	1,490	44829799	0.59340	7,869	7,374	
10	1,620	1,400	44835366	0.55670	7,521	6,500	
11	1,530	1,000	44842550	0.71840	9,167	5,991	
12	1,370	1,230	44848482	0.59320	6,778	6,085	
13	1,485	1,190	44854665	0.61830	7,658	6,136	
14	1,500	1,170	44861088	0.64230	8,035	6,267	
15	1,670	1,291	44866271	0.51830	7,219	5,581	*
16	1,830	1,400	44872073	0.58020	8,855	6,774	
17	1,654	1,321	44878669	0.65960	9,099	7,267	*
18	1,830	1,610	44884007	0.53380	8,147	7,168	
19	1,590	900	44889942	0.59350	7,870	4,455	
20	1,650	1,320	44895429	0.54870	7,551	6,041	
21	1,345	1,480	44901688	0.62590	7,021	7,726	
22	1,605	1,280	44908004	0.63160	8,454	6,742	
23	1,590	1,750	44914584	0.65800	8,725	9,604	
24	1,210	550	44921810	0.72260	7,292	3,315	
25	1,550	1,258	44927500	0.56900	7,355	5,970	*
26	1,550	1,258	44933862	0.63620	8,224	6,675	*
27	1,550	1,258	44940183	0.63210	8,171	6,632	*
28	1,650	1,370	44945334	0.51510	7,088	5,885	
29	1,710	1,325	44951691	0.63570	9,066	7,025	
30	1,596	1,304	44957613	0.59220	7,883	6,440	*
TOTAL				18.10890	246,227	195,616	
AVG.	1,638	1,296		0.60363	8,208	6,521	

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - September 2002

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **August** **2002**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			44582136				
01	1,495	1,290	44588623	0.64870	8,088	6,979	
02	1,530	1,570	44595073	0.64500	8,230	8,446	
03	1,560	1,090	44602120	0.70470	9,168	6,406	
04	1,455	1,305	44609577	0.74570	9,049	8,116	
05	1,440	1,060	44616364	0.67870	8,151	6,000	
06	1,410	1,060	44623308	0.69440	8,166	6,139	
07	1,507	1,264	44631089	0.77810	9,779	8,203	*
08	1,282	1,990	44635193	0.41040	4,388	6,811	
09	1,560	1,340	44641588	0.63950	8,320	7,147	
10	1,465	960	44647872	0.62840	7,678	5,031	
11	1,504	1,230	44654422	0.65500	8,216	6,719	*
12	1,504	1,230	44661196	0.67740	8,497	6,949	*
13	1,504	1,230	44667618	0.64220	8,055	6,588	*
14	1,504	1,230	44674124	0.65060	8,161	6,674	*
15	1,504	1,230	44680399	0.62750	7,871	6,437	*
16	1,504	1,230	44686697	0.62980	7,900	6,461	*
17	1,530	1,210	44693382	0.66850	8,530	6,746	
18	1,504	1,244	44700687	0.73050	9,163	7,579	*
19	1,500	1,450	44707247	0.65600	8,207	7,933	
20	1,510	1,292	44713717	0.64700	8,148	6,972	*
21	1,590	730	44720833	0.71160	9,436	4,332	
22	1,494	1,234	44725503	0.46700	5,819	4,806	*
23	1,680	1,100	44731649	0.61460	8,611	5,638	
24	1,710	1,530	44737353	0.57040	8,135	7,278	
25	1,519	1,210	44741956	0.46030	5,831	4,645	*
26	1,620	1,430	44748178	0.62220	8,406	7,420	
27	1,530	1,520	44753948	0.57700	7,363	7,315	
28	1,650	1,320	44760481	0.65330	8,990	7,192	
29	1,554	1,840	44765368	0.48870	6,334	7,499	#
30	1,800	1,310	44770632	0.52640	7,902	5,751	
31	1,920	2,390	44776524	0.58920	9,435	11,744	
TOTAL				19.43880	250,027	211,957	
AVG.	1,543	1,326		0.62706	8,065	6,837	

APPROVED BY:_____ **DATE:**_____

 # Denotes 12 day average for BOD.

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - August 2002

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **JULY** **2002**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			44371571				
01	1,653	1,306	44376682	0.51110	7,046	5,567	*
02	1,653	1,306	44383808	0.71260	9,824	7,762	*
03	1,410	1,180	44392021	0.82130	9,658	8,083	
04	1,653	1,346	44398334	0.63130	8,703	7,087	*
05	1,655	1,290	44404912	0.65780	9,079	7,077	
06	1,770	1,560	44410599	0.56870	8,395	7,399	
07	1,695	937	44417105	0.65060	9,197	5,084	
08	1,560	1,270	44424462	0.73570	9,572	7,792	
09	1,710	1,330	44429944	0.54820	7,818	6,081	
10	1,560	940	44437640	0.76960	10,013	6,033	
11	1,650	1,810	44441231	0.35910	4,942	5,421	
12	1,680	1,380	44447692	0.64610	9,053	7,436	
13	1,644	1,346	44453377	0.56850	7,795	6,382	*
14	1,530	1,530	44459849	0.64720	8,258	8,258	
15	1,920	1,750	44465063	0.52140	8,349	7,610	
16	1,920	3,200	44471380	0.63170	10,115	16,859	
17	1,680	2,510	44481175	0.97950	13,724	20,504	
18	1,230	4,050	44488413	0.72380	7,425	24,448	
19	1,375	1,670	44495469	0.70560	8,091	9,827	
20	1,560	1,570	44502671	0.72020	9,370	9,430	
21	1,665	1,145	44509325	0.66540	9,240	6,354	
22	1,135	885	44518659	0.93340	8,835	6,889	
23	1,135	750	44526379	0.77200	7,308	4,829	
24	1,470	1,220	44533164	0.67850	8,318	6,904	
25	1,590	1,520	44540027	0.68630	9,101	8,700	
26	1,500	1,460	44547115	0.70880	8,867	8,631	
27	1,500	2,000	44554902	0.77870	9,742	12,989	
28	1,470	1,180	44562077	0.71750	8,796	7,061	
29	1,440	1,070	44568872	0.67950	8,161	6,064	
30	1,680	940	44575072	0.62000	8,687	4,861	
31	1,710	1,550	44582136	0.70640	10,074	9,132	
TOTAL				21.05650	273,556	266,552	
AVG.	1,574	1,516		0.67924	8,824	8,598	

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - July 2002

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JUNE 2002

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			44184924				
01	2,100	780	44189687	0.47630	8,342	3,098	
02	2,100	1,160	44194209	0.45220	7,920	4,375	
03	1,920	960	44199962	0.57530	9,212	4,606	
04	1,770	670	44206854	0.68920	10,174	3,851	
05	1,980	1,400	44211999	0.51450	8,496	6,007	
06	1,830	580	44218355	0.63560	9,701	3,075	
07	1,590	960	44224672	0.63170	8,377	5,058	
08	1,710	550	44233162	0.84900	12,108	3,894	
09	1,830	910	44237240	0.40780	6,224	3,095	
10	1,740	640	44243547	0.63070	9,152	3,366	
11	1,848	863	44249816	0.62690	9,662	4,512	*
12	1,650	810	44256165	0.63490	8,737	4,289	
13	1,290	687	44262329	0.61640	6,632	3,532	
14	400	337	44268294	0.59650	1,990	1,677	
15	1,365	780	44275506	0.72120	8,210	4,692	
16	1,670	755	44282718	0.72120	10,045	4,541	*
17	1,680	610	44289267	0.65490	9,176	3,332	
18	1,800	3,160	44294981	0.57140	8,578	15,059	
19	1,560	680	44302564	0.75830	9,866	4,300	
20	1,410	610	44308208	0.56440	6,637	2,871	
21	1,740	1,180	44314219	0.60110	8,723	5,916	
22	1,594	746	44320361	0.61420	8,165	3,821	*
23	1,875	1,575	44326459	0.60980	9,536	8,010	
24	1,606	848	44332342	0.58830	7,880	4,161	*
25	1,710	1,010	44339579	0.72370	10,321	6,096	
26	1,590	2,710	44345435	0.58560	7,765	13,235	
27	1,580	1,065	44351792	0.63570	8,377	5,646	*
28	1,970	1,470	44357014	0.52220	8,580	6,402	
29	1,620	1,250	44364049	0.70350	9,505	7,334	
30	1,545	1,790	44371571	0.75220	9,692	11,229	
TOTAL				18.66470	257,781	161,081	
AVG.	1,669	1,052		0.62216	8,593	5,369	

APPROVED BY:_____ DATE:_____

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD May 2002

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			43957907				
01	1,210	740	43966099	0.81920	8,267	5,056	
02	1,175	810	43974446	0.83470	8,180	5,639	
03	1,125	750	43982335	0.78890	7,402	4,935	
04	1,150	480	43991713	0.93780	8,994	3,754	
05	1,140	690	43998696	0.69830	6,639	4,018	
06	1,195	420	44007272	0.85760	8,547	3,004	
07	1,330	680	44015318	0.80460	8,925	4,563	
08	1,140	570	44023819	0.85010	8,082	4,041	
09	510	460	44032336	0.85170	3,623	3,267	
10	1,350	710	44040700	0.83640	9,417	4,953	
11	1,380	640	44049483	0.87830	10,109	4,688	
12	1,320	2,540	44061348	1.18650	13,062	25,134	
13	1,620	653	44064188	0.28400	3,837	1,547	*
14	930	653	44069563	0.53750	4,169	2,927	*
15	1,110	653	44078101	0.85380	7,904	4,650	*
16	1,320	3,530	44087411	0.93100	10,249	27,409	
17	1,470	850	44094216	0.68050	8,343	4,824	
18	1,335	837	44099554	0.53380	5,943	3,726	*
19	1,500	1,620	44106092	0.65380	8,179	8,833	
20	1,540	1,020	44111630	0.55380	7,113	4,711	
21	1,530	3,300	44118971	0.73410	9,367	20,204	
22	1,470	1,570	44126595	0.76240	9,347	9,983	
23	1,355	960	44135526	0.89310	10,093	7,151	
24	1,293	1,378	44140722	0.51960	5,603	5,972	*
25	1,590	1,770	44147384	0.66620	8,834	9,834	
26	1,605	1,340	44153423	0.60390	8,084	6,749	
27	1,680	800	44159983	0.65600	9,191	4,377	
28	1,710	2,780	44167300	0.73170	10,435	16,965	
29	1,710	1,160	44173400	0.61000	8,699	5,901	
30	1,740	820	44179503	0.61030	8,856	4,174	
31	1,860	1,150	44184924	0.54210	8,409	5,199	
TOTAL				22.70170	253,903	228,187	
AVG.	1,368	1,172		0.73231	8,190	7,361	

APPROVED BY:_____ **DATE:**_____

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **April** **2002**

 # DAYS **30**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			43721602				
01	1,210	690	43729787	0.81850	8,260	4,710	
02	1,280	940	43737901	0.81140	8,662	6,361	
03	1,150	610	43745779	0.78780	7,556	4,008	
04	1,295	850	43751969	0.61900	6,685	4,388	
05	1,272	772	43759434	0.74650	7,919	4,806	*
06	1,355	940	43766621	0.71870	8,122	5,634	
07	1,395	745	43774348	0.77270	8,990	4,801	
08	1,290	778	43782283	0.79350	8,537	5,149	*
09	1,620	1,010	43789725	0.74420	10,055	6,269	
10	1,306	784	43798363	0.86380	9,409	5,648	*
11	1,305	530	43805412	0.70490	7,672	3,116	
12	1,265	460	43813145	0.77330	8,158	2,967	
13	1,135	360	43821919	0.87740	8,305	2,634	
14	1,020	780	43829911	0.79920	6,799	5,199	
15	1,240	680	43838421	0.85100	8,801	4,826	
16	1,205	920	43846325	0.79040	7,943	6,065	
17	1,085	760	43854863	0.85380	7,726	5,412	
18	1,225	1,190	43860785	0.59220	6,050	5,877	
19	1,250	360	43868603	0.78180	8,150	2,347	
20	1,230	707	43876088	0.74850	7,678	4,413	
21	1,234	695	43885322	0.92340	9,503	5,352	*
22	1,095	713	43894703	0.93810	8,567	5,578	
23	1,020	920	43902168	0.74650	6,350	5,728	
24	1,195	820	43908844	0.66760	6,654	4,566	
25	1,095	1,350	43919479	1.06350	9,712	11,974	
26	1,200	930	43927586	0.81070	8,113	6,288	
27	1,285	740	43934731	0.71450	7,657	4,410	
28	1,160	675	43943118	0.83870	8,114	4,721	
29	1,245	560	43950864	0.77460	8,043	3,618	
30	1,178	802	43957907	0.70430	6,919	4,711	*
TOTAL				23.63050	241,110	151,576	
AVG.	1,228	769		0.78768	8,037	5,053	

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - April 2002

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **March** **2002**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			43466460			
01	900	535	43476379	0.99190	7,445	4,426
02	860	480	43485719	0.93400	6,699	3,739
03	915	1,415	43494936	0.92170	7,034	10,877
04	1,030	500	43503283	0.83470	7,170	3,481
05	1,140	210	43511919	0.86360	8,211	1,513
06	1,210	653	43520282	0.83630	8,439	4,555
07	1,235	710	43527675	0.73930	7,615	4,378
08	1,220	573	43534587	0.69120	7,033	3,303
09	1,240	520	43543370	0.87830	9,083	3,809
10	1,345	740	43550729	0.73590	8,255	4,542
11	1,295	1,060	43558065	0.73360	7,923	6,485
12	1,160	560	43567251	0.91860	8,887	4,290
13	1,125	513	43574404	0.71530	6,711	3,060
14	1,245	490	43581123	0.67190	6,977	2,746
15	1,205	470	43589799	0.86760	8,719	3,401
16	1,270	435	43597836	0.80370	8,513	2,916
17	1,292	675	43605041	0.72050	7,764	4,056
18	1,225	753	43614367	0.93260	9,528	5,857
19	1,255	860	43623105	0.87380	9,146	6,267
20	1,350	1,350	43631666	0.85610	9,639	9,639
21	1,380	840	43639499	0.78330	9,015	5,487
22	755	920	43647624	0.81250	5,116	6,234
23	1,320	650	43656119	0.84950	9,352	4,605
24	1,129	850	43663804	0.76850	7,236	5,448
25	1,425	780	43671827	0.80230	9,535	5,219
26	1,300	880	43680515	0.86880	9,420	6,376
27	1,340	693	43688126	0.76110	8,506	4,399
28	1,470	910	43696528	0.84020	10,301	6,377
29	1,350	807	43704779	0.82510	9,290	5,553
30	1,220	630	43712710	0.79310	8,070	4,167
31	1,150	630	43721602	0.88920	8,528	4,672
TOTAL				25.51420	255,157	151,876
AVG.	1,205	713		0.82304	8,231	4,899

APPROVED BY:_____**DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - March 2002

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD | February | 2002

DAYS 28

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			43230970				
01	1,375	800	43238138	0.71680	8,220	4,782	
02	1,295	850	43246599	0.84610	9,138	5,998	
03	1,140	630	43255770	0.91710	8,719	4,819	
04	998	655	43264439	0.86690	7,215	4,736	
05	1,230	1,162	43270821	0.63820	6,547	6,185	
06	1,285	790	43278449	0.76280	8,175	5,026	
07	1,410	820	43286690	0.82410	9,691	5,636	
08	1,290	380	43294322	0.76320	8,211	2,419	
09	1,240	710	43302909	0.85870	8,880	5,085	
10	1,258	750	43310986	0.80770	8,474	5,052	
11	1,345	880	43319644	0.86580	9,712	6,354	
12	1,278	770	43327371	0.77270	8,236	4,962	*
13	1,315	1,200	43337138	0.97670	10,712	9,775	
14	1,280	950	43345648	0.85100	9,085	6,742	
15	1,290	690	43352904	0.72560	7,806	4,176	
16	1,255	840	43361614	0.87100	9,116	6,102	
17	1,292	725	43369409	0.77950	8,399	4,713	
18	1,235	770	43378319	0.89100	9,177	5,722	
19	1,380	770	43386857	0.85380	9,827	5,483	
20	1,345	455	43393104	0.62470	7,007	2,371	
21	1,150	1,000	43401140	0.80360	7,707	6,702	
22	1,185	647	43410851	0.97110	9,597	5,240	
23	3,150	770	43420139	0.92880	24,401	5,965	
24	1,005	574	43429493	0.93540	7,840	4,478	
25	1,170	720	43439425	0.99320	9,691	5,964	
26	1,258	746	43448894	0.94690	9,935	5,891	*
27	1,245	660	43457048	0.81540	8,467	4,488	
28	1,270	690	43466460	0.94120	9,969	5,416	
TOTAL				23.54900	259,955	150,281	
AVG.	1,320	764		0.84104	9,284	5,367	

APPROVED BY:_____ DATE:_____

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **January** **2002**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			42978580			
01	1,440	1,140	42986931	0.83510	10,029	7,940
02	1,560	960	42996542	0.96110	12,504	7,695
03	1,320	827	43006070	0.95280	10,489	6,572
04	1,230	880	43014279	0.82090	8,421	6,025
05	1,260	1,070	43021760	0.74810	7,861	6,676
06	1,305	1,045	43029240	0.74800	8,141	6,519
07	870	1,070	43038067	0.88270	6,405	7,877
08	1,530	2,086	43046678	0.86110	10,988	14,981
09	1,350	1,170	43054719	0.80410	9,053	7,846
10	1,290	970	43061603	0.68840	7,406	5,569
11	1,170	810	43068696	0.70930	6,921	4,792
12	1,380	1,100	43075983	0.72870	8,387	6,685
13	1,080	1,045	43084363	0.83800	7,548	7,303
14	1,132	1,240	43092369	0.80060	7,558	8,279
15	1,060	820	43101155	0.87860	7,767	6,009
16	1,135	820	43109226	0.80710	7,640	5,520
17	1,040	850	43116365	0.71390	6,192	5,061
18	1,295	740	43124716	0.83510	9,019	5,154
19	1,320	1,125	43132813	0.80970	8,914	7,597
20	1,110	945	43140495	0.76820	7,112	6,054
21	1,265	950	43148672	0.81770	8,627	6,479
22	1,250	940	43157564	0.88920	9,270	6,971
23	1,375	590	43165959	0.83950	9,627	4,131
24	1,220	470	43175964	1.00050	10,180	3,922
25	1,180	840	43183173	0.72090	7,095	5,050
26	1,345	840	43190748	0.75750	8,497	5,307
27	1,110	865	43198649	0.79010	7,314	5,700
28	1,225	1,430	43207133	0.84840	8,668	10,118
29	1,320	1,060	43215610	0.84770	9,332	7,494
30	1,410	1,070	43222882	0.72720	8,551	6,489
31	1,325	810	43230970	0.80880	8,938	5,464
TOTAL				25.23900	264,455	207,278
AVG.	1,255	986		0.81416	8,531	6,686

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **December** **2001**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			42742889				
01	1,500	1,260	42751873	0.89840	11,239	9,441	
02	1,185	650	42761531	0.96580	9,545	5,236	
03	1,140	1,030	42771187	0.96560	9,181	8,295	
04	1,230	940	42780350	0.91630	9,400	7,183	
05	1,260	870	42789240	0.88900	9,342	6,450	
06	982	770	42795767	0.65270	5,346	4,192	
07	1,350	1,060	42804488	0.87210	9,819	7,710	
08	1,290	960	42812183	0.76950	8,279	6,161	
09	1,155	780	42819948	0.77650	7,480	5,051	
10	1,140	940	42828676	0.87280	8,298	6,842	
11	1,380	920	42836226	0.75500	8,689	5,793	
12	1,260	1,210	42844342	0.81160	8,529	8,190	
13	1,140	960	42851739	0.73970	7,033	5,922	
14	1,118	630	42859776	0.80370	7,494	4,223	
15	1,148	850	42868689	0.89130	8,534	6,318	
16	1,032	680	42876509	0.78200	6,731	4,435	
17	1,290	970	42884830	0.83210	8,952	6,732	
18	1,320	1,171	42892362	0.75320	8,292	7,356	
19	1,260	1,300	42900870	0.85080	8,941	9,224	
20	1,110	740	42909505	0.86350	7,994	5,329	
21	1,380	1,430	42916541	0.70360	8,098	8,391	
22	1,500	970	42924744	0.82030	10,262	6,636	
23	1,095	1,550	42933588	0.88440	8,077	11,433	
24	78	170	2 day avg	0.43695	284	620	*
25	78	170	42942327	0.43695	284	620	*
26	78	170	42944179	0.18520	120	263	
27	58	134	42948713	0.45340	219	507	
28	892	740	42954549	0.58360	4,342	3,602	
29	1,028	1,360	42962660	0.81110	6,954	9,200	
30	1,140	1,045	42969919	0.72590	6,902	6,326	
31	1,260	1,090	42978580	0.86610	9,101	7,873	
TOTAL				23.56910	223,758	185,553	
AVG.	1,061	888		0.76029	7,218	5,986	

APPROVED BY:_____ **DATE:**_____

*** Denotes following day as this days value for Suspended Solids and BOD.**

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **NOVEMBER** **2001**

 # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			42487135				
01	1,110	850	42495162	0.80270	7,431	5,690	
02	1,110	750	42502015	0.68530	6,344	4,287	
03	2,145	965	42511136	0.91210	16,317	7,341	
04	1,320	967	42519405	0.82690	9,103	6,669	
05	1,200	680	42529060	0.96550	9,663	5,476	
06	1,320	1,183	42535746	0.66860	7,360	6,597	
07	1,221	861	42546326	1.05800	10,774	7,597	*
08	1,170	830	42554169	0.78430	7,653	5,429	
09	1,290	740	42562482	0.83130	8,944	5,130	
10	1,440	506	42570209	0.77270	9,280	3,261	
11	1,305	710	42578804	0.85950	9,355	5,089	
12	1,290	810	42586680	0.78760	8,473	5,321	
13	1,290	1,189	42594987	0.83070	8,937	8,237	
14	1,230	980	42603375	0.83880	8,605	6,856	
15	1,200	670	42612234	0.88590	8,866	4,950	
16	1,140	990	42620806	0.85720	8,150	7,078	
17	1,125	507	42628436	0.76300	7,159	3,226	
18	1,068	730	42636780	0.83440	7,432	5,080	
19	1,260	880	42645662	0.88820	9,334	6,519	
20	1,095	870	42655769	1.01070	9,230	7,333	
21	1,050	1,060	42664010	0.82410	7,217	7,285	
22	1,350	2,650	42672489	0.84790	9,547	18,739	
23	1,320	920	42682466	0.99770	10,983	7,655	
24	1,320	1,030	42690611	0.81450	8,967	6,997	
25	1,290	1,360	42699520	0.89090	9,585	10,105	
26	1,320	1,290	42707758	0.82380	9,069	8,863	
27	1,200	1,179	42715003	0.72450	7,251	7,124	
28	998	680	42723967	0.89640	7,461	5,084	
29	1,110	700	42734017	1.00500	9,304	5,867	
30	1,170	980	42742889	0.88720	8,657	7,251	
TOTAL				25.57540	266,449	202,136	
AVG.	1,249	951		0.85251	8,882	6,738	

APPROVED BY:_____ **DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - November 2001

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD OCTOBER 2001

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			42233625				
01	1,170	1,210	42241559	0.79340	7,742	8,007	
02	1,072	720	42249697	0.81380	7,276	4,887	
03	1,380	1,360	42256889	0.71920	8,277	8,157	
04	1,320	1,070	42265308	0.84190	9,268	7,513	
05	1,290	950	42273758	0.84500	9,091	6,695	
06	1,260	410	42282429	0.86710	9,112	2,965	
07	1,200	855	42290136	0.77070	7,713	5,496	
08	1,260	660	42299194	0.90580	9,519	4,986	
09	1,440	1,171	42307871	0.86770	10,421	8,474	
10	1,350	990	42315656	0.77850	8,765	6,428	
11	1,005	690	42321604	0.59480	4,985	3,423	
12	1,200	640	42329260	0.76560	7,662	4,086	
13	1,230	870	42337736	0.84760	8,695	6,150	
14	1,305	1,125	42345540	0.78040	8,494	7,322	
15	1,500	850	42353390	0.78500	9,820	5,565	
16	1,320	1,122	42361001	0.76110	8,379	7,122	
17	1,200	1,530	42369483	0.84820	8,489	10,823	
18	1,200	910	42377763	0.82800	8,287	6,284	
19	1,260	760	42385222	0.74590	7,838	4,728	
20	1,110	680	42393127	0.79050	7,318	4,483	
21	1,455	1,160	42401031	0.79040	9,591	7,647	
22	1,320	833	42409622	0.85910	9,458	5,968	
23	1,230	1,167	42418059	0.84370	8,655	8,212	
24	1,170	510	42426637	0.85780	8,370	3,649	
25	1,050	820	42436655	1.00180	8,773	6,851	
26	1,257	934	42444927	0.82720	8,672	6,444	*
27	1,140	900	42453720	0.87930	8,360	6,600	
28	1,260	660	42461026	0.73060	7,677	4,022	
29	1,260	790	42468584	0.75580	7,942	4,980	
30	1,320	1,050	42477898	0.93140	10,254	8,156	
31	1,170	840	42487135	0.92370	9,013	6,471	
TOTAL				25.35100	263,916	192,592	
AVG.	1,249	911		0.81777	8,513	6,213	

APPROVED BY:_____ DATE:_____

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD September 2001

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			41971640				
01	1,260	1,156	41979513	0.78730	8,273	7,590	
02	1,102	1,120	41987868	0.83550	7,679	7,804	
03	1,320	950	41997690	0.98220	10,813	7,782	
04	1,148	820	42007936	1.02460	9,810	7,007	
05	840	700	42022009	1.40730	9,859	8,216	
06	982	700	42032803	1.07940	8,840	6,302	
07	1,170	710	42041336	0.85330	8,326	5,053	
08	1,410	760	42050084	0.87480	10,287	5,545	
09	1,335	740	42058803	0.87190	9,708	5,381	
10	1,380	950	42066694	0.78910	9,082	6,252	
11	1,320	950	42075714	0.90200	9,930	7,147	
12	1,219	884	42084614	0.89000	9,048	6,562	*
13	1,058	873	42091747	0.71330	6,294	5,193	
14	1,208	857	42098872	0.71250	7,178	5,093	*
15	1,230	853	42108537	0.96650	9,915	6,876	
16	1,170	1,215	42116424	0.78870	7,696	7,992	
17	1,320	1,170	42124096	0.76720	8,446	7,486	
18	1,530	1,088	42132923	0.88270	11,263	8,010	
19	1,470	900	42141152	0.82290	10,089	6,177	
20	1,110	680	42149091	0.79390	7,349	4,502	
21	1,320	1,010	42156115	0.70240	7,733	5,917	
22	1,410	930	42164748	0.86330	10,152	6,696	
23	1,440	1,045	42172847	0.80990	9,727	7,059	
24	1,230	690	42181936	0.90890	9,324	5,230	
25	1,350	840	42191202	0.92660	10,433	6,491	
26	1,350	1,170	42198885	0.76830	8,650	7,497	
27	1,350	1,290	42207572	0.86870	9,781	9,346	
28	1,350	1,230	42214355	0.67830	7,637	6,958	
29	1,410	1,288	42222360	0.80050	9,413	8,599	
30	1,200	865	42233625	1.12650	11,274	8,127	
TOTAL				26.19850	274,008	203,888	
AVG.	1,266	948		0.87328	9,134	6,796	

APPROVED BY: Mike Andrews DATE: 10/8/01

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD August 2001

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			41710799				
01	990	590	41717791	0.69920	5,773	3,440	
02	1,102	1,280	41725216	0.74250	6,824	7,926	
03	990	660	41733000	0.77840	6,427	4,285	
04	1,140	650	41739800	0.68000	6,465	3,686	
05	1,170	723	41748810	0.90100	8,792	5,433	
06	1,260	1,040	41757508	0.86980	9,140	7,544	
07	1,260	1,620	41764494	0.69860	7,341	9,439	
08	1,290	1,180	41772482	0.79880	8,594	7,861	
09	1,200	1,410	41782128	0.96460	9,654	11,343	
10	1,260	1,425	41790623	0.84950	8,927	10,096	
11	1,125	960	41799450	0.88270	8,282	7,067	
12	1,084	727	41807344	0.78940	7,137	4,786	
13	1,095	1,060	41816209	0.88650	8,096	7,837	
14	1,260	990	41824894	0.86850	9,127	7,171	
15	1,230	900	41833693	0.87990	9,026	6,605	
16	1,290	540	41841952	0.82590	8,886	3,720	
17	1,170	940	41850335	0.83830	8,180	6,572	
18	1,380	730	41859214	0.88790	10,219	5,406	
19	1,218	1,032	41868493	0.92790	9,426	7,986	*
20	1,080	753	41876963	0.84700	7,629	5,319	
21	1,260	960	41885945	0.89820	9,439	7,191	
22	1,020	750	41895341	0.93960	7,993	5,877	
23	1,080	670	41903802	0.84610	7,621	4,728	
24	1,118	450	41912025	0.82230	7,667	3,086	
25	1,072	513	41920628	0.86030	7,691	3,681	
26	1,162	503	41929523	0.88950	8,620	3,731	
27	1,290	527	41938084	0.85610	9,210	3,763	
28	1,260	680	41945628	0.75440	7,928	4,278	
29	1,140	510	41954848	0.92200	8,766	3,922	
30	1,230	647	41962810	0.79620	8,168	4,296	
31	1,170	1,140	41971640	0.88300	8,616	8,395	
TOTAL				26.08410	255,663	186,471	
AVG.	1,174	857		0.84142	8,247	6,015	

APPROVED BY: _____ DATE: 9/10/01

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JULY 2001

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			41462629			
01	1,114	850	41470281	0.76520	7,109	5,425
02	1,185	830	41479077	0.87960	8,693	6,089
03	1,350	750	41486418	0.73410	8,265	4,592
04	1,410	540	41494836	0.84180	9,899	3,791
05	1,380	1,110	41502345	0.75090	8,642	6,951
06	1,320	940	41510457	0.81120	8,930	6,359
07	1,170	660	41519743	0.92860	9,061	5,111
08	1,140	575	41528257	0.85140	8,095	4,083
09	1,170	840	41536331	0.80740	7,878	5,656
10	1,178	880	41544014	0.76830	7,548	5,639
11	1,290	740	41552520	0.85060	9,151	5,250
12	1,080	847	41559816	0.72960	6,572	5,154
13	1,170	500	41567573	0.77570	7,569	3,235
14	1,350	1,020	41575904	0.83310	9,380	7,087
15	1,290	795	41582982	0.70780	7,615	4,693
16	1,440	820	41590986	0.80040	9,612	5,474
17	1,162	1,480	41598848	0.78620	7,619	9,704
18	1,290	1,058	41606832	0.79840	8,590	7,045
19	1,200	910	41613506	0.66740	6,679	5,065
20	1,410	770	41621663	0.81570	9,592	5,238
21	1,440	690	41630435	0.87720	10,535	5,048
22	1,200	790	41638653	0.82180	8,225	5,415
23	1,230	730	41646918	0.82650	8,478	5,032
24	1,290	850	41655709	0.87910	9,458	6,232
25	1,290	910	41664039	0.83300	8,962	6,322
26	1,200	770	41671410	0.73710	7,377	4,734
27	1,290	860	41679711	0.83010	8,931	5,954
28	1,410	547	41687628	0.79170	9,310	3,612
29	1,170	710	41695394	0.77660	7,578	4,599
30	1,170	610	41703658	0.82640	8,064	4,204
31	1,230	680	41710799	0.71410	7,325	4,050
TOTAL				24.81700	260,744	166,841
AVG.	1,259	808		0.80055	8,411	5,382

APPROVED BY: Mike Andrews DATE: 8/8/01

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JUNE 2001

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			41205974			
01	1,028	650	41215350	0.93760	8,039	5,083
02	1,320	660	41223820	0.84700	9,324	4,662
03	1,155	1,465	41235061	1.12410	10,828	13,734
04	510	2,150	41242352	0.72910	3,101	13,073
05	300	655	41243070	0.07180	180	392
06	300	750	41244765	0.16950	424	1,060
07	300	1,320	41252370	0.76050	1,903	8,372
08	615	920	41259580	0.72100	3,698	5,532
09	742	1,007	41272596	1.30160	8,055	10,931
10	382	895	41281534	0.89380	2,848	6,672
11	945	930	41291845	1.03110	8,126	7,997
12	1,035	675	41302689	1.08440	9,360	6,105
13	976	627	41313761	1.10720	9,012	5,790
14	1,140	600	41323529	0.97680	9,287	4,888
15	1,155	770	41333333	0.98040	9,444	6,296
16	1,350	840	41341132	0.77990	8,781	5,464
17	1,110	705	41350297	0.91650	8,484	5,389
18	1,140	890	41359345	0.90480	8,602	6,716
19	1,028	540	41368574	0.92290	7,913	4,156
20	990	700	41377910	0.93360	7,708	5,450
21	1,035	760	41386910	0.90000	7,769	5,705
22	1,170	710	41394863	0.79530	7,760	4,709
23	1,200	770	41402718	0.78550	7,861	5,044
24	1,035	690	41411443	0.87250	7,531	5,021
25	1,080	740	41420488	0.90450	8,147	5,582
26	1,230	600	41430245	0.97570	10,009	4,882
27	1,170	930	41437495	0.72500	7,074	5,623
28	1,020	680	41446012	0.85170	7,245	4,830
29	1,028	830	41453665	0.76530	6,561	5,298
30	1,370	685	41462629	0.89640	10,242	5,121
TOTAL				25.66550	215,319	179,579
AVG.	962	838		0.85552	7,177	5,986

APPROVED BY:_____ DATE:_____

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD MAY 2001

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			40940314				
01	1,050	720	40947612	0.72980	6,391	4,382	
02	968	500	40957045	0.94330	7,615	3,934	
03	990	653	40966539	0.94940	7,839	5,170	
04	930	480	40975612	0.90730	7,037	3,632	
05	1,035	580	40985862	1.02500	8,848	4,958	
06	1,008	920	40995278	0.94160	7,916	7,225	
07	1,020	540	41003659	0.83810	7,130	3,774	
08	1,028	687	41013996	1.03370	8,862	5,923	
09	1,015	634	41023765	0.97690	8,270	5,165	*
10	998	687	41033131	0.93660	7,796	5,366	
11	1,095	750	41041826	0.86950	7,941	5,439	
12	1,035	680	41051236	0.94100	8,123	5,337	
13	1,014	635	41059623	0.83870	7,093	4,442	*
14	1,230	1,190	41068637	0.90140	9,247	8,946	
15	1,350	1,175	41076181	0.75440	8,494	7,393	
16	1,200	910	41084023	0.78420	7,848	5,952	
17	1,320	1,280	41091713	0.76900	8,466	8,209	
18	1,320	1,220	41098744	0.70310	7,740	7,154	
19	1,380	980	41106616	0.78720	9,060	6,434	
20	1,140	1,170	41115231	0.86150	8,191	8,406	
21	1,290	1,110	41122792	0.75610	8,135	7,000	
22	1,260	1,480	41130765	0.79730	8,378	9,841	
23	1,230	1,040	41139888	0.91230	9,359	7,913	
24	1,050	1,140	41148083	0.81950	7,176	7,791	
25	1,080	1,030	41156433	0.83500	7,521	7,173	
26	1,140	1,190	41164944	0.85110	8,092	8,447	
27	1,080	1,140	41173240	0.82960	7,472	7,888	
28	961	953	41181932	0.86920	6,966	6,908	
29	1,380	1,050	41189861	0.79290	9,126	6,943	
30	1,290	930	41197921	0.80600	8,671	6,251	
31	1,080	807	41205974	0.80530	7,253	5,420	
TOTAL				26.56600	248,055	198,817	
AVG.	1,128	912		0.85697	8,002	6,413	

APPROVED BY: Mike Andrews DATE: 6/7/01

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD April 2001

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			40687682				
01	1,110	616	40695690	0.80080	7,413	4,114	
02	1,095	680	40704348	0.86580	7,907	4,910	
03	1,110	640	40713375	0.90270	8,357	4,818	
04	1,260	650	40721597	0.82220	8,640	4,457	
05	698	365	40729781	0.81840	4,764	2,491	
06	1,110	720	40737140	0.73590	6,813	4,419	
07	1,260	520	40744846	0.77060	8,098	3,342	
08	1,350	655	40752932	0.80860	9,104	4,417	
09	1,200	733	40762325	0.93930	9,401	5,742	
10	1,230	600	40770889	0.85640	8,785	4,285	
11	1,200	610	40780039	0.91500	9,157	4,655	
12	1,174	630	40788519	0.84800	8,303	4,456	*
13	1,320	770	40795701	0.71820	7,907	4,612	
14	1,260	880	40803635	0.79340	8,337	5,823	
15	1,020	670	40812951	0.93160	7,925	5,206	
16	1,170	1,570	40820378	0.74270	7,247	9,725	
17	1,110	2,188	40831833	1.14550	10,604	20,903	
18	780	1,360	40842769	1.09360	7,114	12,404	
19	818	890	40850463	0.76940	5,249	5,711	
20	1,102	1,040	40859134	0.86710	7,969	7,521	
21	1,290	900	40867519	0.83850	9,021	6,294	
22	1,095	755	40875983	0.84640	7,730	5,330	
23	1,320	1,086	40883222	0.72390	7,969	6,557	
24	1,320	740	40890513	0.72910	8,027	4,500	
25	1,290	1,027	40897180	0.66670	7,173	5,710	
26	1,110	680	40905557	0.83770	7,755	4,751	
27	1,132	1,005	40913396	0.78390	7,401	6,570	*
28	1,110	740	40922370	0.89740	8,308	5,538	
29	884	690	40931830	0.94600	6,974	5,444	
30	1,012	550	40940314	0.84840	7,161	3,892	
TOTAL				25.26320	236,611	178,596	
AVG.	1,131	832		0.84211	7,887	5,953	

APPROVED BY: Mike Andrews DATE: 5/14/01

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD MARCH 2000

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			40431505				
01	1,050	667	40439727	0.82220	7,200	4,574	
02	1,005	500	40448385	0.86580	7,257	3,610	
03	1,065	593	40457804	0.94190	8,366	4,658	
04	1,170	695	40465347	0.75430	7,360	4,372	
05	1,042	780	40473804	0.84570	7,349	5,501	
06	1,140	750	40482539	0.87350	8,305	5,464	
07	1,140	1,020	40491491	0.89520	8,511	7,615	
08	862	807	40498153	0.66620	4,789	4,484	
09	1,042	690	40505575	0.74220	6,450	4,271	
10	1,230	820	40513348	0.77730	7,974	5,316	
11	1,155	645	40521858	0.85100	8,197	4,578	
12	1,440	700	40529941	0.80830	9,707	4,719	
13	1,290	833	40537684	0.77430	8,330	5,379	
14	1,230	830	40546087	0.84030	8,620	5,817	
15	975	580	40552804	0.67170	5,462	3,249	
16	1,020	473	40561338	0.85340	7,260	3,367	
17	1,012	744	40568643	0.73050	6,165	4,533	*
18	1,410	3,025	40577551	0.89080	10,475	22,474	
19	1,260	850	40586357	0.88060	9,254	6,243	
20	1,350	840	40594687	0.83300	9,379	5,836	
21	1,200	970	40602937	0.82500	8,257	6,674	
22	1,140	1,050	40610853	0.79160	7,526	6,932	
23	1,230	1,000	40618986	0.81330	8,343	6,783	
24	1,228	830	40627275	0.82890	8,489	5,738	*
25	1,170	1,830	40635956	0.86810	8,471	13,249	
26	1,200	1,280	40644844	0.88880	8,895	9,488	
27	1,320	1,030	40652736	0.78920	8,688	6,779	
28	1,170	680	40662085	0.93490	9,123	5,302	
29	1,200	813	40670847	0.87620	8,769	5,941	
30	1,290	650	40679260	0.84130	9,051	4,561	
31	1,170	610	40687682	0.84220	8,218	4,285	
TOTAL				25.61770	250,241	191,790	
AVG.	1,168	890		0.82638	8,072	6,187	

APPROVED BY: Mike Andrews DATE: 4/9/01

* Denotes 12 day average for Suspended Solids and BOD.

File Name Billing - March 2001 xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD DECEMBER 2000

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			39618829				
01	1,080	1,173	39629562	1.07330	9,667	10,500	
02	1,350	3,590	39640111	1.05490	11,877	31,584	
03	929	767	39649416	0.93050	7,209	5,952	
04	1,012	1,310	39659747	1.03310	8,719	11,287	
05	990	1,600	39670109	1.03620	8,555	13,827	
06	1,590	3,070	39679518	0.94090	12,477	24,091	
07	1,170	6,100	39686288	0.67700	6,606	34,442	
08	960	880	39696246	0.99580	7,973	7,308	
09	1,020	720	39705435	0.91890	7,817	5,518	
10	900	860	39715761	1.03260	7,751	7,406	
11	1,047	1,483	2-day Avg.	1.24185	10,844	15,359	*@
12	1,047	1,483	39740598	1.24185	10,844	15,359	*@
13	885	730	39750033	0.94350	6,964	5,744	
14	862	493	39759394	0.93610	6,730	3,849	
15	1,080	840	39769328	0.99340	8,948	6,959	
16	1,030	1,437	2-day Avg.	0.95380	8,193	11,431	*@
17	1,030	1,437	39788404	0.95380	8,193	11,431	*@
18	1,080	1,047	39797429	0.90250	8,129	7,881	
19	960	920	39807606	1.01770	8,148	7,809	
20	1,080	1,480	39817182	0.95760	8,625	11,820	
21	922	910	39828272	1.10900	8,528	8,417	
22	908	810	39837791	0.95190	7,208	6,430	
23	862	2,430	39852458	1.46670	10,544	29,724	
24	528	843	2-day Avg.	0.42600	1,876	2,995	^@
25	528	843	39860978	0.42600	1,876	2,995	^@
26	30	174	39864682	0.37040	93	538	
27	300	415	39868232	0.35500	888	1,229	
28	585	1,740	39877669	0.94370	4,604	13,695	
29	682	727	39889422	1.17530	6,685	7,126	
30	735	707	39900925	1.15030	7,051	6,783	
31	836	1,295	39910864	0.99390	6,930	10,734	
TOTAL				29.20350	230,553	340,223	
AVG.	904	1,365		0.94205	7,437	10,975	

APPROVED BY: Mike Andrews DATE: 1/8/01

^ Denotes an average For BOD and Solids using the succeeding 6 days data.

* Denotes 12 day average for Suspended Solids and BOD.

@ Denotes 2 day average for Flow.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD NOVEMBER 2000

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			39292469			
01	847	560	39304155	1.16860	8,255	5,458
02	682	470	39315319	1.11640	6,350	4,376
03	818	553	39327219	1.19000	8,118	5,488
04	840	760	39339465	1.22460	8,579	7,762
05	720	510	39350917	1.14520	6,877	4,871
06	765	370	39363185	1.22680	7,827	3,786
07	780	482	39374915	1.17300	7,631	4,715
08	735	507	39387046	1.21310	7,436	5,129
09	615	630	39398064	1.10180	5,651	5,789
10	660	370	39408411	1.03470	5,695	3,193
11	765	360	39420077	1.16660	7,443	3,503
12	809	506	39431454	1.13770	7,676	4,801
13	847	710	39442002	1.05480	7,451	6,246
14	780	740	39453280	1.12780	7,337	6,960
15	878	570	39463814	1.05340	7,714	5,008
16	930	710	39474556	1.07420	8,332	6,361
17	915	560	39484537	0.99810	7,617	4,662
18	998	760	39494093	0.95560	7,954	6,057
19	866	576	39503976	0.98830	7,138	4,748
20	982	1,190	39513678	0.97020	7,946	9,629
21	1,020	800	39523922	1.02440	8,714	6,835
22	975	980	39534522	1.06000	8,619	8,664
23	945	880	39544993	1.04710	8,253	7,685
24	1,125	750	39556652	1.16590	10,939	7,293
25	1,200	770	39567138	1.04860	10,494	6,734
26	1,027	600	39577862	1.07240	9,185	5,366
27	1,050	773	39588602	1.07400	9,405	6,924
28	1,080	970	39598723	1.01210	9,116	8,188
29	1,012	810	39608866	1.01430	8,561	6,852
30	945	767	39618829	0.99630	7,852	6,373
TOTAL				32.63600	240,165	179,454
AVG.	887	666		1.08787	8,005	5,982

APPROVED BY: Mike Andrews DATE: 12/11/00

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD OCTOBER 2000

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			38934451				
01	300	337	38938509	0.40580	1,015	1,141	
02	982	4,160	38943788	0.52790	4,323	18,315	
03	300	700	38948314	0.45260	1,132	2,642	
04	300	580	38952712	0.43980	1,100	2,127	
05	300	496	38961011	0.82990	2,076	3,433	
06	600	2,430	38975278	1.42670	7,139	28,914	
07	1,050	2,681	38991106	1.58280	13,861	35,379	@
08	742	1,530	39001722	1.06160	6,569	13,546	
09	750	733	39014945	1.32230	8,271	8,084	
10	825	790	39026045	1.11000	7,637	7,313	
11	840	810	39037861	1.18160	8,278	7,982	
12	742	980	39047291	0.94300	5,836	7,707	
13	675	613	39060544	1.32530	7,461	6,775	
14	675	533	39074479	1.39350	7,845	6,194	
15	750	800	39087376	1.28970	8,067	8,605	
16	847	907	39100277	1.29010	9,113	9,759	
17	795	1,480	39111822	1.15450	7,655	14,250	
18	682	820	39124745	1.29230	7,350	8,838	
19	690	690	39139110	1.43650	8,266	8,266	
20	652	693	39151212	1.21020	6,581	6,994	
21	712	653	39163560	1.23480	7,332	6,725	
22	821	930	39174991	1.14310	7,827	8,866	
23	682	565	39189739	1.47480	8,388	6,949	
24	772	706	39203098	1.33590	8,601	7,866	
25	675	505	39217342	1.42440	8,019	5,999	
26	622	565	39230096	1.27540	6,616	6,010	
27	795	525	39242857	1.27610	8,461	5,587	
28	832	730	39256430	1.35730	9,418	8,264	
29	840	637	39268726	1.22960	8,614	6,532	
30	877	670	39281560	1.28340	9,387	7,171	
31	742	520	39292469	1.09090	6,751	4,731	
TOTAL				35.80180	218,992	280,967	
AVG.	705	960		1.15490	7,064	9,063	

APPROVED BY: Mike Andrews DATE: 11/14/00

@ Denotes estimated average for Suspended Solids.

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD September 2000

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			38605227				
01	645	645	38619755	1.45280	7,815	7,815	
02	480	587	38635915	1.61600	6,469	7,911	
03	742	1,362	38647824	1.19090	7,370	13,528	
04	735	1,270	38658446	1.06220	6,511	11,251	
05	608	790	38670786	1.23400	6,257	8,130	
06	630	1,400	38682603	1.18170	6,209	13,798	
07	570	980	38694699	1.20960	5,750	9,886	
08	525	710	38707103	1.24040	5,431	7,345	
09	630	1,100	38719038	1.19350	6,271	10,949	
10	625	893	38730125	1.10870	5,779	8,257	*
11	728	930	38742251	1.21260	7,362	9,405	
12	649	931	38753795	1.15440	6,248	8,963	*
13	712	550	38765830	1.20350	7,146	5,520	
14	848	1,070	38776041	1.02110	7,222	9,112	
15	765	520	38791286	1.52450	9,726	6,611	
16	660	607	38806603	1.53170	8,431	7,754	
17	562	472	38825110	1.85070	8,674	7,285	
18	825	560	38837360	1.22500	8,429	5,721	
19	878	740	38848775	1.14150	8,359	7,045	
20	788	580	38860123	1.13480	7,458	5,489	
21	705	580	38872013	1.18900	6,991	5,751	
22	698	575	38882533	1.05200	6,124	5,045	
23	802	793	38895018	1.24850	8,351	8,257	
24	757	2,725	38911906	1.68880	10,662	38,381	
25	300	285	38916364	0.44580	1,115	1,060	
26	741	190	38920625	0.42610	2,633	675	**
27	300	1,085	38924027	0.34020	851	3,078	
28	300	170	38927025	0.29980	750	425	
29	300	128	38930250	0.32250	807	344	
30	30	42	38934451	0.42010	105	147	
TOTAL				32.92240	181,308	234,941	
AVG.	618	776		1.09741	6,044	7,831	

APPROVED BY: _____ DATE: 10/9/00

* Denotes 12 day average for Suspended Solids and BOD.

** Denotes 12 day average for BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD AUGUST 2000

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			38191249				
01	892	647	38201254	1.00050	7,443	5,399	
02	872	698	38212089	1.08350	7,880	6,307	*
03	682	533	38223236	1.11470	6,340	4,955	
04	600	600	38231862	0.86260	4,316	4,316	
05	750	687	38242866	1.10040	6,883	6,305	
06	1,084	612	38252494	0.96280	8,704	4,914	
07	982	660	38262313	0.98190	8,042	5,405	
08	900	488	38273326	1.10130	8,266	4,482	
09	960	1,110	38283058	0.97320	7,792	9,009	
10	900	1,000	38293058	1.00000	7,506	8,340	
11	857	688	38303664	1.06060	7,581	6,086	*
12	735	605	38314009	1.03450	6,341	5,220	
13	690	450	38325213	1.12040	6,447	4,205	
14	637	490	38339129	1.39160	7,393	5,687	
15	765	573	38352541	1.34120	8,557	6,409	
16	795	520	38364860	1.23190	8,168	5,343	
17	405	260	38385454	2.05940	6,956	4,466	
18	435	267	38408270	2.28160	8,277	5,081	
19	375	325	38428968	2.06980	6,473	5,610	
20	300	320	38452144	2.31760	5,799	6,185	
21	300	290	38476810	2.46660	6,171	5,966	
22	300	297	38497974	2.11640	5,295	5,242	
23	510	775	38508798	1.08240	4,604	6,996	
24	515	411	38520970	1.21720	5,228	4,172	*
25	675	660	38532480	1.15100	6,480	6,336	
26	652	527	38543502	1.10220	5,993	4,844	
27	638	785	38554467	1.09650	5,834	7,179	
28	585	444	38570485	1.60180	7,815	5,931	
29	495	505	38582091	1.16060	4,791	4,888	
30	675	670	38594901	1.28100	7,211	7,158	
31	810	850	38605227	1.03260	6,976	7,320	
TOTAL				41.39780	211,564	179,756	
AVG.	670	572		1.33541	6,825	5,799	

APPROVED BY: Mike Andrews DATE: 9/11/00

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - August 2000.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JULY 2000

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			37854404				
01	832	1,060	37865003	1.05990	7,355	9,370	
02	874	820	37874601	0.95980	6,996	6,564	
03	818	560	37884476	0.98750	6,737	4,612	
04	998	650	37894403	0.99270	8,263	5,381	
05	728	460	37904449	1.00460	6,099	3,854	
06	855	645	37914206	0.97570	6,957	5,249	
07	848	593	37925173	1.09670	7,756	5,424	
08	930	960	37935517	1.03440	8,023	8,282	
09	881	540	37946071	1.05540	7,755	4,753	
10	975	730	37955704	0.96330	7,833	5,865	
11	848	840	37966193	1.04890	7,418	7,348	
12	682	860	37974716	0.85230	4,848	6,113	
13	675	767	37984585	0.98690	5,556	6,313	
14	570	560	37996388	1.18030	5,611	5,512	
15	705	507	38008008	1.16200	6,832	4,913	
16	848	900	38019330	1.13220	8,007	8,498	
17	788	660	38031855	1.25250	8,231	6,894	
18	615	727	38044323	1.24680	6,395	7,560	
19	540	590	38057312	1.29890	5,850	6,391	
20	754	717	38068806	1.14940	7,228	6,873	*
21	802	700	38080014	1.12080	7,497	6,543	
22	862	680	38092068	1.20540	8,666	6,836	
23	810	545	38103840	1.17720	7,952	5,351	
24	848	640	38114918	1.10780	7,835	5,913	
25	1,020	720	38126049	1.11310	9,469	6,684	
26	848	680	38135944	0.98950	6,998	5,612	
27	1,020	1,170	38147781	1.18370	10,069	11,550	
28	915	780	38159395	1.16140	8,863	7,555	
29	780	700	38168725	0.93300	6,069	5,447	
30	836	590	38180170	1.14450	7,980	5,632	
31	889	847	38191249	1.10790	8,214	7,826	
TOTAL				33.68450	229,362	200,719	
AVG.	819	716		1.08660	7,399	6,475	

APPROVED BY: Mike Anderson DATE: 8/14/00

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JUNE 2000

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			37534869				
01	930	700	37545112	1.02430	7,945	5,980	
02	885	1,460	37554597	0.94850	7,001	11,549	
03	878	1,010	37565787	1.11900	8,194	9,426	
04	926	1,215	37576213	1.04260	8,052	10,565	
05	915	1,100	37588692	1.24790	9,523	11,448	
06	765	920	37599478	1.07860	6,882	8,276	
07	835	1,080	37610103	1.06250	7,399	9,570	*
08	742	1,050	37619691	0.95880	5,933	8,396	
09	735	600	37631732	1.20410	7,381	6,025	
10	885	770	37641761	1.00290	7,402	6,440	
11	816	1,010	37652212	1.04510	7,112	8,803	*
12	735	1,060	37663521	1.13090	6,932	9,998	
13	817	1,020	37675115	1.15940	7,900	9,863	*
14	825	1,310	37686580	1.14650	7,888	12,526	
15	638	480	37693279	0.66990	3,564	2,682	
16	829	974	37706329	1.30500	9,023	10,601	*
17	832	547	37717436	1.11070	7,707	5,067	
18	832	1,540	37730685	1.32490	9,193	17,016	
19	814	958	37741488	1.08030	7,334	8,631	*
20	814	958	37754002	1.25140	8,495	9,998	*
21	465	1,180	37766151	1.21490	4,712	11,956	
22	802	800	37775682	0.95310	6,375	6,359	
23	772	1,060	37786359	1.06770	6,874	9,439	
24	750	790	37796410	1.00510	6,287	6,622	
25	731	743	37805645	0.92350	5,630	5,723	
26	765	870	37815375	0.97300	6,208	7,060	
27	300	1,150	37825222	0.98470	2,464	9,444	
28	1,050	1,560	37834607	0.93850	8,218	12,210	
29	741	999	37844457	0.98500	6,087	8,207	*
30	892	1,250	37854404	0.99470	7,400	10,370	
TOTAL				31.95350	211,116	270,251	
AVG.	791	1,005		1.06512	7,037	9,008	

APPROVED BY: Mike Andrews DATE: 7/11/00

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - June 2000.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD MAY 2000

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			37195077				
01	690	385	37206490	1.14130	6,568	3,665	
02	952	1,040	37216909	1.04190	8,272	9,037	
03	652	960	37228886	1.19770	6,513	9,589	
04	832	1,233	37239015	1.01290	7,028	10,416	
05	862	680	37249544	1.05290	7,569	5,971	
06	814	796	37258488	0.89440	6,072	5,938	*
07	945	1,485	37267474	0.89860	7,082	11,129	
08	817	796	37277673	1.01990	6,949	6,771	*
09	1,058	1,980	37287743	1.00700	8,885	16,629	
10	908	1,330	37299957	1.22140	9,249	13,548	
11	818	1,190	37308398	0.84410	5,759	8,377	
12	892	840	37317578	0.91800	6,829	6,431	
13	780	529	37326922	0.93440	6,078	4,122	
14	866	1,050	37337209	1.02870	7,430	9,008	
15	855	630	37347989	1.07800	7,687	5,664	
16	465	505	37371963	2.39740	9,297	10,097	
17	1,335	580	37381790	0.98270	10,941	4,754	
18	735	1,790	37394300	1.25100	7,669	18,676	
19	300	700	37404981	1.06810	2,672	6,236	
20	952	1,120	37414023	0.90420	7,179	8,446	
21	792	925	37423905	0.98820	6,527	7,623	
22	892	730	37434288	1.03830	7,724	6,321	
23	930	767	37443944	0.96560	7,489	6,177	
24	1,170	1,000	37452357	0.84130	8,209	7,016	
25	975	1,120	37463722	1.13650	9,241	10,616	
26	930	1,670	37473271	0.95490	7,406	13,300	
27	878	920	37483338	1.00670	7,372	7,724	
28	746	835	37495508	1.21700	7,572	8,475	
29	720	960	37510586	1.50780	9,054	12,072	
30	675	1,150	37523433	1.28470	7,232	12,322	
31	705	1,230	37534869	1.14360	6,724	11,731	
TOTAL				33.97920	230,282	277,881	
AVG.	837	998		1.09610	7,428	8,964	

APPROVED BY: Mike Andrews DATE: 6/8/00

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - May 2000.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD APRIL 2000

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			36865790				
01	892	830	36876984	1.11940	8,328	7,749	
02	829	1,175	36886703	0.97190	6,720	9,524	
03	758	710	36897699	1.09960	6,951	6,511	
04	795	750	36908318	1.06190	7,041	6,642	
05	825	1,470	36920477	1.21590	8,366	14,907	
06	742	2,690	36930593	1.01160	6,260	22,695	
07	772	1,620	36941441	1.08480	6,984	14,657	
08	802	2,220	36953527	1.20860	8,084	22,377	
09	836	1,945	36963151	0.96240	6,710	15,611	
10	870	2,490	36975101	1.19500	8,671	24,816	
11	862	2,070	36985815	1.07140	7,702	18,496	
12	848	1,900	36998615	1.28000	9,053	20,283	
13	802	1,120	37009030	1.04150	6,966	9,728	
14	1,020	4,080	37021301	1.22710	10,439	41,755	
15	750	1,270	37031676	1.03750	6,490	10,989	
16	862	715	37042681	1.10050	7,912	6,562	
17	855	1,070	37053514	1.08330	7,725	9,667	
18	728	1,000	37065401	1.18870	7,217	9,914	
19	720	805	37076714	1.13130	6,793	7,595	
20	822	1,589	37086282	0.95680	6,559	12,680	*
21	870	920	37096516	1.02340	7,426	7,852	
22	802	1,480	37106743	1.02270	6,841	12,623	
23	828	2,045	37118371	1.16280	8,030	19,832	
24	922	1,250	37128614	1.02430	7,876	10,678	
25	960	547	37138748	1.01340	8,114	4,623	
26	705	380	37150615	1.18670	6,977	3,761	
27	698	607	37162085	1.14700	6,677	5,807	
28	848	360	37172507	1.04220	7,371	3,129	
29	795	1,090	37183566	1.10590	7,332	10,053	
30	840	1,042	37195077	1.15110	8,064	10,003	
TOTAL				32.92870	225,678	381,521	
AVG.	822	1,375		1.09762	7,523	12,717	

APPROVED BY: Mike Andrews DATE: 5/12/00

* Denotes 12 day average for Suspended Solids and BOD.

File Name Billing - April 2000 xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD MARCH 2000

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			36536501				
01	802	870	36547931	1.14300	7,645	8,293	
02	682	680	36557957	1.00260	5,703	5,686	
03	824	698	36568066	1.01090	6,947	5,885	*
04	772	790	36578655	1.05890	6,818	6,977	
05	664	545	36589896	1.12410	6,225	5,109	
06	720	907	36600164	1.02680	6,166	7,767	
07	878	830	36610999	1.08350	7,934	7,500	
08	862	570	36620886	0.98870	7,108	4,700	
09	900	810	36630747	0.98610	7,402	6,661	
10	990	1,410	36639743	0.89960	7,428	10,579	
11	802	960	36649907	1.01640	6,798	8,138	
12	762	775	36660382	1.04750	6,657	6,771	
13	795	750	36670630	1.02480	6,795	6,410	
14	862	750	36680711	1.00810	7,247	6,306	
15	870	770	36690613	0.99020	7,185	6,359	
16	750	2,470	36704533	1.39200	8,707	28,675	
17	698	1,360	36714466	0.99330	5,782	11,266	
18	840	1,430	36725923	1.14570	8,026	13,664	
19	633	740	36735864	0.99410	5,248	6,135	
20	840	920	36746080	1.02160	7,157	7,839	
21	878	658	36756677	1.05970	7,760	5,815	
22	878	590	36766347	0.96700	7,081	4,758	
23	765	740	36776932	1.05850	6,753	6,533	
24	765	1,115	36787553	1.06210	6,776	9,877	
25	758	820	36796808	0.92550	5,851	6,329	
26	701	715	36807055	1.02470	5,991	6,110	
27	848	1,010	36817236	1.01810	7,200	8,576	
28	938	1,820	36829839	1.26030	9,859	19,130	
29	832	2,370	36843899	1.40600	9,756	27,791	
30	668	585	36855265	1.13660	6,332	5,545	
31	742	780	36865790	1.05250	6,513	6,847	
TOTAL				32.92890	218,850	278,031	
AVG.	797	975		1.06222	7,060	8,969	

APPROVED BY: Mike Andrews DATE: 4/10/2000

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - March 2000 xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD FEBRUARY 2000

DAYS 29

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			36238162				
01	848	1,070	36248412	1.02500	7,249	9,147	
02	873	1,217	36259770	1.13580	8,270	11,528	*
03	750	880	36268702	0.89320	5,587	6,555	
04	908	1,060	36278765	1.00630	7,620	8,896	
05	855	730	36289070	1.03050	7,348	6,274	
06	742	865	36299695	1.06250	6,575	7,665	
07	818	880	36309301	0.96060	6,553	7,050	
08	810	800	36320533	1.12320	7,588	7,494	
09	832	700	36331557	1.10240	7,649	6,436	
10	780	1,000	36341456	0.98990	6,439	8,256	
11	758	785	36353131	1.16750	7,381	7,644	
12	806	890	36362986	0.98550	6,625	7,315	*
13	855	1,275	36374229	1.12430	8,017	11,955	
14	788	990	36384161	0.99320	6,527	8,200	
15	908	1,010	36394455	1.02940	7,795	8,671	
16	810	670	36404908	1.04530	7,061	5,841	
17	652	610	36414112	0.92040	5,005	4,682	
18	435	450	36423934	0.98220	3,563	3,686	
19	592	340	36434670	1.07360	5,301	3,044	
20	770	790	36446232	1.15620	7,425	7,618	*
21	795	580	36456748	1.05160	6,972	5,087	
22	750	890	36467238	1.04900	6,561	7,786	
23	1,080	775	36476947	0.97090	8,745	6,275	
24	840	760	36486301	0.93540	6,553	5,929	
25	810	550	36496608	1.03070	6,963	4,728	
26	840	96	36506214	0.96060	6,730	769	
27	862	915	36516122	0.99080	7,123	7,561	
28	892	640	36526950	1.08280	8,055	5,780	
29	968	890	36536501	0.95510	7,711	7,089	
TOTAL				29.83390	200,992	198,962	
AVG.	808	797		1.02876	6,931	6,861	

APPROVED BY: Mike Andrews DATE: 3/8/00

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JANUARY 2000

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			35903168				
01	825	830	35914402	1.12340	7,730	7,776	
02	798	1,000	35927282	1.28800	8,572	10,742	
03	855	1,070	35937078	0.97960	6,985	8,742	
04	832	1,100	35947094	1.00160	6,950	9,189	
05	795	1,270	35959196	1.21020	8,024	12,818	
06	705	827	35971333	1.21370	7,136	8,371	
07	938	2,440	35985612	1.42790	11,170	29,057	
08	878	2,370	35996510	1.08980	7,980	21,541	
09	956	1,960	36007771	1.12610	8,978	18,408	
10	840	1,530	36020735	1.29640	9,082	16,542	
11	360	955	36031755	1.10200	3,309	8,777	
12	600	940	36041986	1.02310	5,120	8,021	
13	720	980	36052729	1.07430	6,451	8,780	
14	772	740	36062617	0.98880	6,366	6,102	
15	690	1,690	36076754	1.41370	8,135	19,926	
16	480	660	36086617	0.98630	3,948	5,429	
17	675	700	36096499	0.98820	5,563	5,769	
18	758	1,780	36110671	1.41720	8,959	21,039	
19	735	1,360	36119089	0.84180	5,160	9,548	*
20	788	1,000	36129263	1.01740	6,686	8,485	
21	772	1,290	36138941	0.96780	6,231	10,412	
22	848	1,560	36148682	0.97410	6,889	12,673	
23	690	1,090	36159189	1.05070	6,046	9,551	
24	908	1,310	36168341	0.91520	6,931	9,999	
25	990	1,490	36178580	1.02390	8,454	12,724	
26	930	1,170	36188466	0.98860	7,668	9,647	
27	960	1,350	36198277	0.98110	7,855	11,046	
28	938	1,240	36208511	1.02340	8,006	10,584	
29	772	1,333	36218442	0.99310	6,394	11,041	
30	739	965	36228502	1.00600	6,200	8,096	
31	870	930	36238162	0.96600	7,009	7,492	
TOTAL				33.49940	219,989	358,328	
AVG.		1,256		1.08063	7,096	11,559	

APPROVED BY: Mike Andrews DATE: Feb 10, 2000

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - January 2000 xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD DECEMBER 1999

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			35548849				
01	735	1,400	35560960	1.21110	7,424	14,141	
02	638	1,160	35570797	0.98370	5,234	9,517	
03	788	1,260	35583413	1.26160	8,291	13,257	
04	728	620	35595607	1.21940	7,404	6,305	
05	704	963	35608869	1.32620	7,787	10,651	*
06	660	405	35615682	0.68130	3,750	2,301	
07	1,170	1,910	35626508	1.08260	10,564	17,245	
08	510	2,010	35640345	1.38370	5,885	23,196	
09	315	395	35651646	1.13010	2,969	3,723	
10	435	600	35662001	1.03550	3,757	5,182	
11	585	430	35674713	1.27120	6,202	4,559	
12	784	575	35685663	1.09500	7,160	5,251	
13	848	593	35697651	1.19880	8,478	5,929	
14	938	760	35710195	1.25440	9,813	7,951	
15	975	620	35721896	1.17010	9,515	6,050	
16	960	620	35733689	1.17930	9,442	6,098	
17	945	650	35744835	1.11460	8,784	6,042	
18	855	1,070	35755230	1.03950	7,412	9,276	
19	922	962	35767497	1.22670	9,433	9,842	
20	930	740	35778916	1.14190	8,857	7,047	
21	945	1,410	35790710	1.17940	9,295	13,869	
22	765	725	35803347	1.26370	8,063	7,641	
23	878	2,100	35816972	1.36250	9,977	23,863	
24	911	815	2 Day Avg	1.00670	7,649	6,843	**
25	911	815	35837106	1.00670	7,649	6,843	**
26	626	2,325	35847371	1.02650	5,359	19,904	
27	735	820	35859383	1.20120	7,363	8,215	
28	938	1,370	35869766	1.03830	8,123	11,863	
29	728	840	35881928	1.21620	7,384	8,520	
30	705	687	35892483	1.05550	6,206	6,048	
31	818	680	35903168	1.06850	7,289	6,060	
TOTAL				35.43190	232,517	293,232	
AVG.	787	978		1.14296	7,501	9,459	

APPROVED BY: Mike Anderson DATE: Jan 12, 2000

* Denotes 12 day average for Suspended Solids and BOD.

** Denotes 12 day average for BOD and TSS and 2 day average for flow.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD NOVEMBER 1999

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			35208942				
01	750	505	35220571	1.16290	7,274	4,898	
02	810	960	35232563	1.19920	8,101	9,601	
03	765	1,020	35242620	1.00570	6,416	8,555	
04	809	810	35251757	0.91370	6,165	6,172	*
05	802	1,520	35263575	1.18180	7,905	14,981	
06	765	1,070	35274444	1.08690	6,935	9,699	
07	742	650	35286063	1.16190	7,190	6,299	
08	818	580	35296888	1.08250	7,385	5,236	
09	788	787	35307591	1.07030	7,034	7,025	
10	848	665	35318842	1.12510	7,957	6,240	
11	802	920	35331222	1.23800	8,281	9,499	
12	645	395	35344820	1.35980	7,315	4,480	
13	705	100	35356329	1.15090	6,767	960	
14	772	766	35366327	0.99980	6,437	6,387	
15	777	781	35377417	1.10900	7,187	7,224	*
16	772	727	35388248	1.08310	6,974	6,567	
17	675	753	35401020	1.27720	7,190	8,021	
18	728	1,550	35411581	1.05610	6,412	13,652	
19	652	680	35422163	1.05820	5,754	6,001	
20	1,035	1,220	35433437	1.12740	9,732	11,471	
21	945	1,250	35445071	1.16340	9,169	12,128	
22	878	1,070	35457045	1.19740	8,768	10,685	
23	660	680	35472589	1.55440	8,556	8,815	
24	765	1,020	35483152	1.05630	6,739	8,986	
25	795	667	35494385	1.12330	7,448	6,249	
26	802	860	35504928	1.05430	7,052	7,562	
27	712	600	35516999	1.20710	7,168	6,040	
28	645	983	35527440	1.04410	5,617	8,560	
29	525	980	35538079	1.06390	4,658	8,695	
30	578	1,820	35548849	1.07700	5,192	16,348	
TOTAL				33.99070	214,775	247,037	
AVG.	759	880		1.13302	7,159	8,235	

APPROVED BY: Mike Andrews DATE: 12/10/99

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD OCTOBER 1999

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			34868074				
01	878	760	34876981	0.89070	6,522	5,646	
02	765	630	34889563	1.25820	8,027	6,611	
03	746	945	34901154	1.15910	7,212	9,135	
04	728	830	34911477	1.03230	6,268	7,146	
05	682	1,200	34922460	1.09830	6,247	10,992	
06	638	810	34933747	1.12870	6,006	7,625	
07	761	1,016	34944536	1.07890	6,847	9,142	*
08	761	1,016	34955040	1.05040	6,667	8,901	*
09	855	860	34966562	1.15220	8,216	8,264	
10	844	690	34978141	1.15790	8,150	6,663	
11	878	590	34989210	1.10690	8,105	5,447	
12	900	940	35000550	1.13400	8,512	8,890	
13	802	950	35011014	1.04640	6,999	8,291	
14	630	595	35021216	1.02020	5,360	5,063	
15	825	870	35031242	1.00260	6,898	7,275	
16	776	812	35041553	1.03110	6,673	6,983	*
17	795	895	35053040	1.14870	7,616	8,574	
18	772	670	35064042	1.10020	7,084	6,148	
19	758	1,140	35078214	1.41720	8,959	13,474	
20	832	1,100	35088185	0.99710	6,919	9,147	
21	810	600	35098888	1.07030	7,230	5,356	
22	848	720	35109528	1.06400	7,525	6,389	
23	848	653	35121593	1.20650	8,533	6,571	
24	795	720	35132286	1.06930	7,090	6,421	
25	848	680	35142727	1.04410	7,384	5,921	
26	802	740	35155086	1.23590	8,267	7,627	
27	825	827	35164832	0.97460	6,706	6,722	
28	825	1,120	35175680	1.08480	7,464	10,133	
29	742	670	35187277	1.15970	7,177	6,480	
30	818	810	35199225	1.19480	8,151	8,071	
31	859	1,025	35208942	0.97170	6,961	8,307	
TOTAL				34.08680	225,775	237,413	
AVG.	795	835		1.09957	7,283	7,658	

APPROVED BY: Mike Andrews DATE: 11/10/99

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD SEPTEMBER 1999

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			34542141				
01	930	910	34553157	1.10160	8,544	8,360	
02	900	745	34563646	1.04890	7,873	6,517	
03	870	770	34575400	1.17540	8,528	7,548	
04	765	650	34586163	1.07630	6,867	5,835	
05	776	690	34597416	1.12530	7,283	6,476	
06	660	750	34610783	1.33670	7,358	8,361	
07	585	870	34623205	1.24220	6,061	9,013	
08	814	717	34639228	1.60230	10,878	9,581	*
09	600	1,040	34651544	1.23160	6,163	10,682	
10	803	748	34662756	1.12120	7,509	6,994	*
11	975	435	34675000	1.22440	9,956	4,442	
12	819	748	34686262	1.12620	7,692	7,026	*
13	675	975	34700519	1.42570	8,026	11,593	
14	30	77	34706014	0.54950	137	353	
15	300	96	34711152	0.51380	1,286	411	
16	300	120	34716788	0.56360	1,410	564	
17	675	1,850	34724268	0.74800	4,211	11,541	
18	1,560	770	34733571	0.93030	12,104	5,974	
19	631	640	34743029	0.94580	4,977	5,048	*
20	930	1,410	34753961	1.09320	8,479	12,855	
21	1,050	1,390	34763315	0.93540	8,191	10,844	
22	728	1,010	34777244	1.39290	8,457	11,733	
23	750	680	34788201	1.09570	6,854	6,214	
24	735	715	34799368	1.11670	6,845	6,659	
25	832	1,400	34810690	1.13220	7,856	13,220	
26	694	857	34820963	1.02730	5,946	7,343	*
27	795	890	34835104	1.41410	9,376	10,496	
28	840	2,443	34846133	1.10290	7,726	22,471	
29	728	1,950	34857497	1.13640	6,900	18,481	
30	758	660	34868074	1.05770	6,686	5,822	
TOTAL				32.59330	210,179	252,459	
AVG.	750	900		1.08644	7,006	8,415	

APPROVED BY: Mike Andrews DATE: 10-8-99

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - September 1999.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD AUGUST 1999

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			34208754				
01	836	810	34219863	1.11090	7,745	7,505	
02	802	1,020	34231008	1.11450	7,455	9,481	
03	850	828	34243864	1.28560	9,114	8,878	*
04	660	1,320	34253092	0.92280	5,079	10,159	
05	570	790	34264351	1.12590	5,352	7,418	
06	878	1,260	34274435	1.00840	7,384	10,597	
07	796	906	34285186	1.07510	7,137	8,123	*
08	796	906	34295675	1.04890	6,963	7,926	*
09	735	1,000	34306609	1.09340	6,702	9,119	
10	780	918	34317022	1.04130	6,774	7,972	*
11	615	670	34329735	1.27130	6,521	7,104	
12	540	805	34342178	1.24430	5,604	8,354	
13	720	813	34353659	1.14810	6,894	7,785	
14	715	644	34364810	1.11510	6,649	5,989	**
15	715	850	34378311	1.35010	8,051	9,571	*
16	630	633	34389097	1.07860	5,667	5,694	
17	615	707	34399860	1.07630	5,520	6,346	
18	660	820	34409506	0.96460	5,310	6,597	
19	630	640	34421096	1.15900	6,090	6,186	
20	645	460	34430520	0.94240	5,069	3,615	
21	660	533	34441103	1.05830	5,825	4,704	
22	648	726	34449841	0.87380	4,722	5,291	*
23	648	726	2-Day Avg.	0.98720	5,335	5,977	*
24	540	380	34469585	0.98720	4,446	3,129	
25	712	505	34479435	0.98500	5,849	4,149	
26	810	590	34488932	0.94970	6,416	4,673	
27	930	660	34500257	1.13250	8,784	6,234	
28	1,035	720	34509960	0.97030	8,376	5,826	
29	701	609	34520602	1.06420	6,222	5,405	*
30	788	720	34531601	1.09990	7,228	6,605	
31	708	617	34542141	1.05400	6,224	5,424	*
TOTAL				33.33870	200,508	211,835	
AVG.	722	761		1.07544	6,468	6,833	

APPROVED BY: Mike Andrews DATE: 9/9/99

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - August 1999 xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JULY 1999

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			33901872				
01	837	865	33910939	0.90670	6,329	6,541	*
02	930	1,100	33920174	0.92350	7,163	8,472	
03	825	605	33930443	1.02690	7,066	5,181	
04	806	765	33942574	1.21310	8,155	7,740	
05	1,110	720	33950682	0.81080	7,506	4,869	
06	1,050	695	33959879	0.91970	8,054	5,331	
07	855	928	33970097	1.02180	7,286	7,908	*
08	990	680	33978250	0.81530	6,732	4,624	
09	926	826	33987750	0.95000	7,337	6,544	*
10	1,140	910	33996880	0.91300	8,680	6,929	
11	851	1,025	34007248	1.03680	7,359	8,863	
12	892	690	34016172	0.89240	6,639	5,135	
13	960	893	34026179	1.00070	8,012	7,453	
14	1,080	435	34037107	1.09280	9,843	3,965	
15	1,200	420	34047388	1.02810	10,289	3,601	
16	1,380	670	34058135	1.07470	12,369	6,005	
17	1,035	690	34067883	0.97480	8,414	5,610	
18	1,032	520	34078816	1.09330	9,410	4,741	
19	975	820	34088840	1.00240	8,151	6,855	
20	862	833	34099814	1.09740	7,889	7,624	
21	862	1,225	34109106	0.92920	6,680	9,493	
22	772	580	34118876	0.97700	6,290	4,726	
23	982	670	34129067	1.01910	8,346	5,695	
24	1,012	820	34139588	1.05210	8,880	7,195	
25	889	1,215	34150148	1.05600	7,829	10,701	
26	885	920	34159241	0.90930	6,711	6,977	
27	915	860	34169288	1.00470	7,667	7,206	
28	885	830	34179337	1.00490	7,417	6,956	
29	592	1,020	34186372	0.70350	3,473	5,985	
30	705	660	34197788	1.14160	6,712	6,284	
31	825	670	34208754	1.09660	7,545	6,128	
TOTAL				30.68820	240,234	201,336	
AVG.	937	792		0.98994	7,749	6,495	

APPROVED BY: Mike Anderson DATE: 8/9/99

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - July 1999.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD MAY 1999

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			33263486				
01	682	317	33275859	1.23730	7,038	3,271	
02	578	1,640	33293887	1.80280	8,690	24,658	
03	300	332	33302188	0.83010	2,077	2,298	
04	300	332	33305599	0.34110	853	944	*
05	300	332	33308823	0.32240	807	893	*
06	300	332	33314274	0.54510	1,364	1,509	*
07	300	332	33318887	0.46130	1,154	1,277	*
08	300	332	33334499	1.56120	3,906	4,323	*
09	1,046	2,645	33346949	1.24500	10,861	27,464	
10	758	1,970	33358911	1.19620	7,562	19,653	
11	765	633	33370076	1.11650	7,123	5,894	
12	795	760	33380375	1.02990	6,829	6,528	
13	832	1,070	33392375	1.20000	8,327	10,709	
14	755	994	33403429	1.10540	6,960	9,164	*
15	855	540	33414211	1.07820	7,688	4,856	
16	862	442	33425934	1.17230	8,428	4,321	
17	938	593	33436047	1.01130	7,911	5,002	
18	892	640	33446662	1.06150	7,897	5,666	
19	922	680	33457177	1.05150	8,085	5,963	
20	862	590	33467351	1.01740	7,314	5,006	
21	908	1,770	33479486	1.21350	9,189	17,913	
22	818	467	33490126	1.06400	7,259	4,144	
23	851	774	33501588	1.14620	8,135	7,399	*
24	851	774	33512590	1.10020	7,808	7,102	*
25	832	620	33523770	1.11800	7,758	5,781	
26	825	930	33534540	1.07700	7,410	8,353	
27	735	620	33546058	1.15180	7,060	5,956	
28	765	390	33557882	1.18240	7,544	3,846	
29	840	538	33568920	1.10380	7,733	4,953	
30	825	525	33580044	1.11240	7,654	4,871	
31	848	580	33590476	1.04320	7,378	5,046	
TOTAL				32.69900	205,803	224,764	
AVG.	724	758		1.05481	6,639	7,250	

APPROVED BY: Mike Andrews DATE: 6/8/99

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD APRIL 1999

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			32938973				
01	878	608	32949772	1.07990	7,908	5,476	
02	975	390	32960515	1.07430	8,736	3,494	
03	802	467	32970694	1.01790	6,808	3,964	
04	806	450	32980991	1.02970	6,922	3,864	
05	945	569	32991832	1.08410	8,544	5,145	
06	952	795	33001753	0.99210	7,877	6,578	
07	968	546	33012441	1.06880	8,629	4,867	
08	938	710	33023243	1.08020	8,450	6,396	
09	1,020	960	33034722	1.14790	9,765	9,191	
10	968	760	33045583	1.08610	8,768	6,884	
11	911	1,355	33056225	1.06420	8,086	12,026	
12	750	570	33068001	1.17760	7,366	5,598	
13	914	644	33079071	1.10700	8,438	5,946	*
14	825	586	33089966	1.08950	7,496	5,325	
15	758	675	33101748	1.17820	7,448	6,633	
16	795	680	33112763	1.10150	7,303	6,247	
17	728	587	33124040	1.12770	6,847	5,521	
18	716	628	33135443	1.14030	6,809	5,972	
19	802	545	33147395	1.19520	7,994	5,433	
20	832	623	33158031	1.06360	7,380	5,526	
21	831	678	33168920	1.08890	7,547	6,157	
22	698	740	33180886	1.19660	6,966	7,385	
23	908	900	33191488	1.06020	8,029	7,958	
24	892	1,050	33201702	1.02140	7,598	8,944	
25	746	815	33212584	1.08820	6,770	7,397	
26	784	680	33223491	1.09070	7,132	6,186	*
27	930	1,150	33234928	1.14370	8,871	10,969	
28	795	990	33243873	0.89450	5,931	7,386	
29	615	840	33255097	1.12240	5,757	7,863	
30	802	560	33263486	0.83890	5,611	3,918	
TOTAL				32.45130	227,786	194,248	
AVG.	843	718		1.08171	7,593	6,475	

REVIEWED BY: Mike Andrews DATE: 5/18/99

APPROVED BY: Lawrence DeFoy DATE: 5-19-99

* Denotes 12 day average for Suspended Solids and BOD.

File Name. Billing - April 1999 xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **MARCH** **1999**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			32568343				
01	810	1,370	32579923	1.15800	7,823	13,231	
02	720	980	32592906	1.29830	7,796	10,611	
03	698	2,440	32611408	1.85020	10,771	37,651	
04	585	1,220	32625019	1.36110	6,641	13,849	
05	742	930	32637854	1.28350	7,943	9,955	
06	788	1,030	32648720	1.08660	7,141	9,334	
07	818	1,035	32660360	1.16400	7,941	10,048	
08	855	1,135	32672314	1.19540	8,524	11,316	
09	832	910	32683603	1.12890	7,833	8,568	
10	825	1,450	32693931	1.03280	7,106	12,490	
11	660	1,040	32709544	1.56130	8,594	13,542	
12	758	1,520	32720037	1.04930	6,633	13,302	
13	832	1,840	32732169	1.21320	8,418	18,617	
14	716	1,695	32745989	1.38200	8,253	19,536	
15	950	1,290	32758553	1.25640	9,954	13,517	
16	720	880	32771318	1.27650	7,665	9,368	
17	789	1,204	32781834	1.05160	6,920	10,559	*
18	789	1,204	32795581	1.37470	9,046	13,804	*
19	810	910	32807021	1.14400	7,728	8,682	
20	675	895	32819055	1.20340	6,775	8,983	
21	889	810	32830859	1.18040	8,752	7,974	
22	930	740	32841681	1.08220	8,394	6,679	
23	630	1,090	32854221	1.25400	6,589	11,400	
24	705	660	32865206	1.09850	6,459	6,047	
25	770	1,087	32876064	1.08580	6,973	9,843	*
26	878	480	32885284	0.92200	6,751	3,691	
27	840	720	32896680	1.13960	7,984	6,843	
28	570	858	32909449	1.27690	6,070	9,137	
29	300	677	32918738	0.92890	2,324	5,245	
30	570	855	32927320	0.85820	4,080	6,120	
31	720	738	32938973	1.16530	6,997	7,172	
TOTAL				37.06300	230,877	347,113	
AVG.	748	1,087		1.19558	7,448	11,197	

REVIEWED BY: Mike Andrews **DATE:** April 8, 1999

APPROVED BY: Lawrence DeBorg **DATE:** 4-8-99

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - March 1999.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD FEBRUARY 1999

DAYS 28

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			32223440				
01	855	790	32234927	1.14870	8,191	7,568	
02	735	595	32246477	1.15500	7,080	5,731	
03	878	505	32257133	1.06560	7,803	4,488	
04	698	370	32267873	1.07400	6,252	3,314	
05	832	273	32281337	1.34640	9,343	3,066	
06	855	1,100	32293855	1.25180	8,926	11,484	
07	825	1,046	32309922	1.60670	11,055	14,016	
08	728	350	32323441	1.35190	8,208	3,946	
09	802	295	32334053	1.06120	7,098	2,611	
10	818	596	32345232	1.11790	7,626	5,557	
11	668	367	32354488	0.92560	5,157	2,833	
12	780	1,130	32368668	1.41800	9,224	13,364	
13	690	495	32380599	1.19310	6,866	4,925	
14	686	580	32392581	1.19820	6,855	5,796	
15	675	545	32406839	1.42580	8,027	6,481	
16	885	1,330	32421601	1.47620	10,896	16,374	
17	705	787	32439777	1.81760	10,687	11,930	
18	652	910	32451207	1.14300	6,215	8,675	
19	832	420	32462450	1.12430	7,801	3,938	
20	968	1,090	32472531	1.00810	8,139	9,164	
21	742	875	32493598	2.10670	13,037	15,374	
22	870	580	32504398	1.08000	7,836	5,224	
23	652	515	32516375	1.19770	6,513	5,144	
24	878	650	32527281	1.09060	7,986	5,912	
25	848	620	32537456	1.01750	7,196	5,261	
26	758	833	32548119	1.06630	6,741	7,408	
27	784	740	32557195	0.90760	5,934	5,601	*
28	765	822	32568343	1.11480	7,113	7,642	
TOTAL				34.49030	223,804	202,829	
AVG.	781	686		1.23180	7,993	7,244	

REVIEWED BY: Mike Andrews DATE: 3/9/99

APPROVED BY: Lawrence DeFoe DATE: 3-9-99

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - February 1999.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JANUARY 1999

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			31866988			
01	960	257	31877887	1.08990	8,726	2,336
02	832	480	31890147	1.22600	8,507	4,908
03	570	842	31901547	1.14000	5,419	8,005
04	570	255	31911294	0.97470	4,634	2,073
05	795	450	31921855	1.05610	7,002	3,964
06	870	990	31933637	1.17820	8,549	9,728
07	608	695	31944338	1.07010	5,426	6,203
08	742	310	31956399	1.20610	7,464	3,118
09	742	245	31967449	1.10500	6,838	2,258
10	705	630	31979452	1.20030	7,057	6,307
11	675	453	31990018	1.05660	5,948	3,992
12	712	1,500	32003700	1.36820	8,124	17,116
13	630	1,220	32016546	1.28460	6,750	13,071
14	570	915	32028550	1.20040	5,706	9,160
15	660	1,540	32040552	1.20020	6,606	15,415
16	765	415	32051658	1.11060	7,086	3,844
17	630	1,360	32062818	1.11600	5,864	12,658
18	652	155	32073616	1.07980	5,872	1,396
19	840	1,320	32086096	1.24800	8,743	13,739
20	495	545	32097716	1.16200	4,797	5,282
21	540	440	32108759	1.10430	4,973	4,052
22	780	355	32121204	1.24450	8,096	3,685
23	818	450	32131203	0.99990	6,821	3,753
24	742	335	32141697	1.04940	6,494	2,932
25	750	343	32152194	1.04970	6,566	3,003
26	802	445	32164135	1.19410	7,987	4,432
27	922	847	32175304	1.11690	8,588	7,890
28	938	375	32186794	1.14900	8,989	3,593
29	990	870	32200172	1.33780	11,046	9,707
30	878	495	32211191	1.10190	8,069	4,549
31	832	290	32223440	1.22490	8,499	2,963
TOTAL				35.64520	221,247	195,129
AVG.	742	639		1.14985	7,137	6,294

REVIEWED BY: [signature] DATE: 2/10/99

APPROVED BY: Lawrence DeJong DATE: 2-10-99

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD DECEMBER 1998

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			31514102				
01	818	775	31526072	1.19700	8,166	7,737	
02	758	202	31538221	1.21490	7,680	2,047	
03	878	1,680	31553205	1.49840	10,972	20,994	
04	832	340	31564149	1.09440	7,594	3,103	
05	818	385	31575144	1.09950	7,501	3,530	
06	660	432	31587757	1.26130	6,943	4,544	
07	795	1,380	31607604	1.98470	13,159	22,842	
08	1,260	3,340	31629093	2.14890	22,582	59,859	
09	690	820	31638926	0.98330	5,658	6,725	
10	1,200	3,220	31643371	0.44450	4,449	11,937	
11	780	580	31655503	1.21320	7,892	5,868	
12	795	415	31666039	1.05360	6,986	3,647	
13	773	458	31677864	1.18250	7,623	4,517	
14	772	293	31688345	1.04810	6,748	2,561	
15	802	390	31700198	1.18530	7,928	3,855	
16	652	420	31711771	1.15730	6,293	4,054	
17	788	510	31723317	1.15460	7,588	4,911	
18	772	440	31735688	1.23710	7,965	4,540	
19	668	305	31748262	1.25740	7,005	3,198	
20	679	398	31760095	1.18330	6,701	3,928	
21	495	370	31772386	1.22910	5,074	3,793	
22	630	730	31784257	1.18710	6,237	7,227	
23	840	3,530	31798940	1.46830	10,286	43,227	
24	-	-	2-Day Avg	0.46335	-	-	**
25	-	-	31808207	0.46335	-	-	**
26	375	690	31816408	0.82010	2,565	4,719	
27	540	1,635	31825028	0.86200	3,882	11,754	
28	682	395	31835258	1.02300	5,819	3,370	
29	878	260	31845420	1.01620	7,441	2,204	
30	750	420	31856837	1.14170	7,141	3,999	
31	818	520	31866988	1.01510	6,925	4,402	
TOTAL				35.28860	222,804	269,093	
AVG.	716	817		1.13834	7,187	8,680	

REVIEWED BY: Mike Andrews DATE: 1/7/99

APPROVED BY: Lawrence DeLong DATE: 1-7-99

* Denotes 12 day average for Suspended Solids and BOD.

** Denotes sampler off for Holiday no sample collected.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD NOVEMBER 1998

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			31174903				
01	728	660	31184359	0.94560	5,741	5,205	
02	742	1,130	31194966	1.06070	6,564	9,996	
03	818	625	31204386	0.94200	6,426	4,910	
04	878	550	31215733	1.13470	8,309	5,205	
05	675	480	31225647	0.99140	5,581	3,969	
06	735	445	31235797	1.01500	6,222	3,767	
07	870	400	31246447	1.06500	7,727	3,553	
08	833	570	31253583	0.71360	4,958	3,392	
09	915	1,800	31265490	1.19070	9,086	17,875	
10	878	1,810	31274646	0.91560	6,704	13,821	
11	802	1,560	31287079	1.24330	8,316	16,176	
12	638	1,260	31296292	0.92130	4,902	9,681	
13	796	908	31319272	2.29800	15,256	17,402	*
14	742	1,765	31332990	1.37180	8,489	20,193	
15	622	235	31344316	1.13260	5,875	2,220	
16	720	223	31355590	1.12740	6,770	2,097	
17	788	1,170	31366337	1.07470	7,063	10,487	
18	735	633	31377097	1.07600	6,596	5,680	
19	540	527	31388311	1.12140	5,050	4,929	
20	825	590	31399032	1.07210	7,377	5,275	
21	720	267	31409452	1.04200	6,257	2,320	
22	615	612	31421928	1.24760	6,399	6,368	
23	465	385	31434843	1.29150	5,009	4,147	
24	682	410	31445537	1.06940	6,083	3,657	
25	832	435	31457798	1.22610	8,508	4,448	
26	690	445	31468460	1.06620	6,136	3,957	
27	772	640	31480594	1.21340	7,812	6,477	
28	788	505	31490945	1.03510	6,803	4,360	
29	656	358	31503472	1.25270	6,854	3,740	
30	690	620	31514102	1.06300	6,117	5,497	
TOTAL				33.91990	208,989	210,803	
AVG.	740	734		1.13066	6,966	7,027	

REVIEWED BY: Mike Andrews DATE: 12/8/98

APPROVED BY: Lawrence DeBoy DATE: 12-8-98

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - November 1998.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD OCTOBER 1998

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			30852432				
01	780	710	30862235	0.98030	6,377	5,805	
02	737	642	30872039	0.98040	6,026	5,249	*
03	737	642	30882503	1.04640	6,432	5,603	*
04	737	642	30893978	1.14750	7,053	6,144	*
05	818	330	30903409	0.94310	6,434	2,596	
06	765	355	30914158	1.07490	6,858	3,182	
07	825	340	30923767	0.96090	6,611	2,725	
08	645	380	30935376	1.16090	6,245	3,679	
09	788	390	30945993	1.06170	6,977	3,453	
10	968	197	30955040	0.90470	7,304	1,486	
11	870	336	30965538	1.04980	7,617	2,942	
12	922	245	30975752	1.02140	7,854	2,087	
13	982	565	30985413	0.96610	7,912	4,552	
14	832	870	30994508	0.90950	6,311	6,599	
15	780	845	31005998	1.14900	7,474	8,097	
16	630	1,000	31017872	1.18740	6,239	9,903	
17	862	605	31029844	1.19720	8,607	6,041	
18	798	520	31041308	1.14640	7,630	4,972	
19	638	185	31052156	1.08480	5,772	1,674	
20	758	280	31062800	1.06440	6,729	2,486	
21	705	1,030	31072024	0.92240	5,423	7,924	
22	540	470	31082251	1.02270	4,606	4,009	
23	750	180	31093368	1.11170	6,954	1,669	
24	795	267	31104227	1.08590	7,200	2,418	
25	765	304	31114912	1.06850	6,817	2,709	
26	885	445	31124860	0.99480	7,343	3,692	
27	1,050	685	31137034	1.21740	10,661	6,955	
28	600	748	31146459	0.94250	4,716	5,880	
29	870	620	31157139	1.06800	7,749	5,522	
30	756	452	31167213	1.00740	6,352	3,798	*
31	825	1,510	31174903	0.76900	5,291	9,684	
TOTAL				32.24710	211,574	143,534	
AVG.	788	542		1.04023	6,825	4,630	

REVIEWED BY: Mike Andrews DATE: Nov 13, 1998

APPROVED BY: LaVerne DeKorp DATE: 11-13-98

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - October 1998.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD SEPTEMBER 1998

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			30539211			
01	818	550	30549467	1.02560	6,997	4,704
02	802	720	30562244	1.27770	8,546	7,672
03	675	310	30574766	1.25220	7,049	3,237
04	712	1,070	30587355	1.25890	7,475	11,234
05	705	460	30596959	0.96040	5,647	3,684
06	765	325	30606607	0.96480	6,156	2,615
07	1,050	867	30614767	0.81600	7,146	5,900
08	892	1,470	30624962	1.01950	7,584	12,499
09	878	1,090	30635699	1.07370	7,862	9,761
10	975	880	30646101	1.04020	8,458	7,634
11	930	665	30656613	1.05120	8,153	5,830
12	908	853	30666883	1.02700	7,777	7,306
13	765	295	30676413	0.95300	6,080	2,345
14	840	435	30686319	0.99060	6,940	3,594
15	855	285	30696989	1.06700	7,608	2,536
16	698	315	30706050	0.90610	5,275	2,380
17	690	620	30716962	1.09120	6,279	5,642
18	758	485	30728210	1.12480	7,111	4,550
19	540	745	30738922	1.07120	4,824	6,656
20	855	1,750	30753002	1.40800	10,040	20,550
21	810	755	30762009	0.90070	6,085	5,671
22	540	1,800	30772364	1.03550	4,663	15,545
23	698	313	30781794	0.94300	5,490	2,462
24	630	433	30787922	0.61280	3,220	2,213
25	660	510	30799621	1.16990	6,440	4,976
26	728	225	30810425	1.08040	6,560	2,027
27	694	432	30821590	1.11650	6,462	4,023
28	742	360	30834189	1.25990	7,797	3,783
29	772	345	30842420	0.82310	5,300	2,368
30	938	810	30852432	1.00120	7,832	6,764
TOTAL				31.32210	202,856	180,162
AVG.	777	672		1.04407	6,762	6,005

REVIEWED BY: Wm Andrews DATE: 10/8/98

APPROVED BY: Lawrence DeKryg DATE: 10-9-98

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD August 1998

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			30186533				
01	525	896	30198724	1.21910	5,338	9,110	
02	638	306	30208908	1.01840	5,419	2,599	
03	630	560	30222767	1.38590	7,282	6,473	
04	765	1,550	30236214	1.34470	8,579	17,383	
05	968	2,050	30247247	1.10330	8,907	18,863	
06	725	1,180	30258990	1.17430	7,100	11,557	*
07	690	710	30269604	1.06140	6,108	6,285	
08	975	3,070	30281554	1.19500	9,717	30,597	
09	686	1,215	30292767	1.12130	6,415	11,362	
10	788	515	30303150	1.03830	6,824	4,460	
11	952	720	30312162	0.90120	7,155	5,412	
12	848	1,120	30320540	0.83780	5,925	7,826	
13	1,020	1,750	30329094	0.85540	7,277	12,485	
14	818	656	30339016	0.99220	6,769	5,428	
15	982	560	30348769	0.97530	7,988	4,555	
16	967	605	30359389	1.06200	8,565	5,359	
17	832	1,000	30369653	1.02640	7,122	8,560	
18	998	2,600	30380704	1.10510	9,198	23,963	
19	555	630	30388430	0.77260	3,576	4,059	
20	660	1,090	30395820	0.73900	4,068	6,718	
21	690	695	30407060	1.12400	6,468	6,515	
22	675	470	30421596	1.45360	8,183	5,698	
23	555	233	30436714	1.51180	6,998	2,938	
24	622	217	30450190	1.34760	6,991	2,439	
25	660	270	30463703	1.35130	7,438	3,043	
26	668	200	30478137	1.44340	8,041	2,408	
27	825	730	30489989	1.18520	8,155	7,216	
28	742	430	30501635	1.16460	7,207	4,176	
29	810	475	30516707	1.50720	10,182	5,971	
30	806	800	30528298	1.15910	7,792	7,734	
31	780	855	30539211	1.09130	7,099	7,782	
TOTAL				35.26780	223,885	258,970	
AVG.	770	908		1.13767	7,222	8,354	

REVIEWED BY: Mike Andrews DATE: Sept 10, 1998

APPROVED BY: Lawrence DeBoy DATE: 9-10-98

* Denotes 12 day average for BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JULY 1998

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			29900131			
01	758	550	29909683	0.95520	6,039	4,382
02	690	660	29917764	0.80810	4,650	4,448
03	892	1,150	29926872	0.91080	6,776	8,735
04	102	455	29935670	0.87980	748	3,339
05	934	2,230	29945432	0.97620	7,604	18,156
06	990	2,760	29955277	0.98450	8,129	22,662
07	825	1,130	29963380	0.81030	5,575	7,636
08	668	620	29973497	1.01170	5,636	5,231
09	840	1,960	29980657	0.71600	5,016	11,704
10	735	435	29989936	0.92790	5,688	3,366
11	668	580	29998395	0.84590	4,713	4,092
12	652	670	30007717	0.93220	5,069	5,209
13	870	707	30017801	1.00840	7,317	5,946
14	668	410	30029507	1.17060	6,522	4,003
15	795	615	30038105	0.85980	5,701	4,410
16	832	750	30046975	0.88700	6,155	5,548
17	922	500	30058103	1.11280	8,557	4,640
18	652	395	30067392	0.92890	5,051	3,060
19	667	412	30077432	1.00400	5,585	3,450
20	908	790	30085342	0.79100	5,990	5,212
21	728	68	30095031	0.96890	5,883	549
22	832	1,000	30105565	1.05340	7,309	8,785
23	675	1,475	30116069	1.05040	5,913	12,921
24	645	610	30130569	1.45000	7,800	7,377
25	712	687	30141368	1.07990	6,413	6,187
26	870	1,080	30150431	0.90630	6,576	8,163
27	1,035	3,888	30165704	1.52730	13,184	49,524
28	330	2,670	30171311	0.56070	1,543	12,486
29	405	2,400	30174362	0.30510	1,031	6,107
30	300	940	30177002	0.26400	661	2,070
31	585	1,980	30186533	0.95310	4,650	15,739
TOTAL				28.64020	177,481	265,137
AVG.	716	1,115		0.92388	5,725	8,553

REVIEWED BY: Mike Andrews DATE: Aug 18, 1998

APPROVED BY Lawrence DeBoy DATE: 8-12-98

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - July 1998.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JUNE 1998

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			29666624			
01	862	700	29674702	0.80780	5,807	4,716
02	720	905	29682699	0.79970	4,802	6,036
03	758	435	29690872	0.81730	5,167	2,965
04	788	575	29699341	0.84690	5,566	4,061
05	780	425	29706953	0.76120	4,952	2,698
06	990	1,210	29712165	0.52120	4,303	5,260
07	821	420	29719397	0.72320	4,952	2,533
08	878	945	29726230	0.68330	5,003	5,385
09	862	840	29733804	0.75740	5,445	5,306
10	930	1,840	29739931	0.61270	4,752	9,402
11	690	1,240	29747490	0.75590	4,350	7,817
12	742	820	29757355	0.98650	6,105	6,746
13	802	435	29765954	0.85990	5,752	3,120
14	708	264	29774345	0.83910	4,955	1,847
15	682	220	29782494	0.81490	4,635	1,495
16	780	292	29790108	0.76140	4,953	1,854
17	712	395	29798793	0.86850	5,157	2,861
18	758	285	29805106	0.63130	3,991	1,501
19	630	277	29811044	0.59380	3,120	1,372
20	720	303	29820376	0.93320	5,604	2,358
21	664	403	29827160	0.67840	3,757	2,280
22	682	395	29835059	0.78990	4,493	2,602
23	840	540	29842318	0.72590	5,085	3,269
24	878	485	29850444	0.81260	5,950	3,287
25	720	350	29859017	0.85730	5,148	2,502
26	885	357	29866161	0.71440	5,273	2,127
27	915	330	29875296	0.91350	6,971	2,514
28	774	302	29883719	0.84230	5,437	2,121
29	645	370	29893166	0.94470	5,082	2,915
30	728	730	29900131	0.69650	4,229	4,240
TOTAL				23.35070	150,795	107,194
AVG.	778	570		0.77836	5,027	3,573

REVIEWED BY: Mike Anderson DATE: 7/9/98

APPROVED BY: Lawrence L DeKorp DATE: 7-9-98

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - June 1998.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD MAY 1998

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			29358801			
01	660	450	29368158	0.93570	5,150	3,512
02	630	370	29374955	0.67970	3,571	2,097
03	818	420	29381399	0.64440	4,396	2,257
04	720	793	29393478	1.20790	7,253	7,989
05	608	490	29401870	0.83920	4,255	3,429
06	645	1,100	29412527	1.06570	5,733	9,777
07	562	490	29423940	1.14130	5,349	4,664
08	645	390	29432932	0.89920	4,837	2,925
09	848	800	29440090	0.71580	5,062	4,776
10	765	905	29453796	1.37060	8,745	10,345
11	570	330	29464136	1.03400	4,915	2,846
12	675	1,120	29475746	1.16100	6,536	10,845
13	555	1,320	29486342	1.05960	4,905	11,665
14	660	340	29497122	1.07800	5,934	3,057
15	810	565	29508802	1.16800	7,890	5,504
16	742	250	29522025	1.32230	8,183	2,757
17	723	218	29533702	1.16770	7,041	2,123
18	645	600	29546074	1.23720	6,655	6,191
19	405	360	29558369	1.22950	4,153	3,691
20	660	375	29569133	1.07640	5,925	3,366
21	802	395	29576390	0.72570	4,854	2,391
22	600	405	29585224	0.88340	4,421	2,984
23	570	360	29594753	0.95290	4,530	2,861
24	634	452	29604389	0.96360	5,095	3,632
25	645	495	29614394	1.00050	5,382	4,130
26	735	815	29622002	0.76080	4,664	5,171
27	818	580	29631525	0.95230	6,497	4,606
28	652	540	29637612	0.60870	3,310	2,741
29	705	1,100	29647602	0.99900	5,874	9,165
30	660	405	29657365	0.97630	5,374	3,298
31	641	302	29666624	0.92590	4,950	2,332
TOTAL				30.78230	171,439	147,127
AVG.	671	566		0.99298	5,530	4,746

REVIEWED BY: Vile Andrews DATE: June 8, 1998

APPROVED BY: Lawrence L. DeLong DATE: June 8, 1998

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD APRIL 1998

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			29120453			
01	615	710	29126611	0.61580	3,158	3,646
02	728	750	29133578	0.69670	4,230	4,358
03	720	525	29141510	0.79320	4,763	3,473
04	832	800	29149413	0.79030	5,484	5,273
05	803	655	29155944	0.65310	4,374	3,568
06	585	640	29162715	0.67710	3,304	3,614
07	742	360	29171373	0.86580	5,358	2,599
08	900	725	29180535	0.91620	6,877	5,540
09	975	1,310	29189171	0.86360	7,022	9,435
10	915	470	29196071	0.69000	5,265	2,705
11	945	810	29204464	0.83930	6,615	5,670
12	832	742	29212243	0.77790	5,398	4,814
13	832	385	29219197	0.69540	4,825	2,233
14	802	525	29226626	0.74290	4,969	3,253
15	952	1,000	29233716	0.70900	5,629	5,913
16	682	660	29240272	0.65560	3,729	3,609
17	735	555	29247580	0.73080	4,480	3,383
18	810	667	29255003	0.74230	5,015	4,129
19	746	560	29263341	0.83380	5,188	3,894
20	840	700	29272993	0.96520	6,762	5,635
21	1,230	2,630	29285451	1.24580	12,780	27,326
22	862	1,910	29294693	0.92420	6,644	14,722
23	645	830	29302828	0.81350	4,376	5,631
24	825	1,960	29308828	0.60000	4,128	9,808
25	750	653	29316016	0.71880	4,496	3,915
26	806	328	29323829	0.78130	5,252	2,137
27	668	265	29337584	1.37550	7,663	3,040
28	878	1,080	29343522	0.59380	4,348	5,348
29	960	3,220	29348984	0.54620	4,373	14,668
30	758	950	29358801	0.98170	6,206	7,778
TOTAL				23.83480	162,711	181,116
AVG.	812	913		0.79449	5,424	6,037

REVIEWED BY: Nilen Andrews DATE: May 8, 1998

APPROVED BY: Lawrence R. DeLong DATE: May 8, 1998

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - April 1998.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD MARCH 1998

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			28841307				
01	510	2,740	28848477	0.71700	3,050	16,385	
02	465	470	28853276	0.47990	1,861	1,881	
03	553	638	28860738	0.74620	3,441	3,970	*
04	645	410	28865591	0.48530	2,611	1,659	
05	622	510	28871465	0.58740	3,047	2,498	
06	630	500	28878376	0.69110	3,631	2,882	
07	420	977	28892338	1.39620	4,891	11,376	
08	322	1,150	28901300	0.89620	2,407	8,595	
09	742	5,860	28907684	0.63840	3,951	31,200	
10	802	4,470	28921187	1.35030	9,032	50,339	
11	638	2,440	28930181	0.89940	4,786	18,302	
12	592	360	28939640	0.94590	4,670	2,840	
13	788	475	28949737	1.00970	6,636	4,000	
14	682	285	28961742	1.20050	6,828	2,853	
15	623	530	28971488	0.97460	5,064	4,308	
16	712	630	28981362	0.98740	5,863	5,188	
17	772	285	28992192	1.08300	6,973	2,574	
18	660	560	29002662	1.04700	5,763	4,890	
19	600	350	29012546	0.98840	4,946	2,885	
20	765	460	29022193	0.96470	6,155	3,701	
21	645	520	29033161	1.09680	5,900	4,757	
22	788	535	29042443	0.92820	6,100	4,142	
23	765	680	29050679	0.82360	5,255	4,671	
24	788	660	29058998	0.83190	5,467	4,579	
25	862	420	29066961	0.79630	5,725	2,789	
26	938	380	29075540	0.85790	6,711	2,719	
27	848	665	29084034	0.84940	6,007	4,711	
28	945	540	29092311	0.82770	6,523	3,728	
29	870	690	29101362	0.90510	6,567	5,208	
30	892	1,360	29109703	0.83410	6,205	9,461	
31	720	1,580	29120453	1.07500	6,455	14,165	
TOTAL				27.91460	162,520	243,258	
AVG.	697	1,036		0.90047	5,243	7,847	

REVIEWED BY: Mike Andrews DATE: 4/9/98

APPROVED BY: Laurence L. Desing DATE: 4-9-98

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD FEBRUARY 1998

DAYS 28

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			28651393				
01	948	770	28657977	0.65840	5,206	4,228	
02	1,050	980	28662172	0.41950	3,674	3,429	
03	878	1,220	28667158	0.49860	3,651	5,073	
04	1,020	1,160	28675170	0.80120	6,816	7,751	
05	870	1,180	28682081	0.69110	5,014	6,801	
06	862	830	28688920	0.68390	4,917	4,734	
07	1,035	830	28694668	0.57480	4,962	3,979	
08	918	710	28702488	0.78200	5,987	4,631	
09	840	620	28709884	0.73960	5,181	3,824	
10	720	420	28716554	0.66700	4,005	2,336	
11	825	640	28723873	0.73190	5,036	3,907	
12	930	630	28730558	0.66850	5,185	3,512	
13	870	460	28736769	0.62110	4,507	2,383	
14	870	630	28743650	0.68810	4,993	3,615	
15	821	502	28752372	0.87220	5,972	3,652	
16	1,020	490	28760386	0.80140	6,817	3,275	
17	450	500	28769791	0.94050	3,530	3,922	
18	525	590	28776360	0.65690	2,876	3,232	
19	555	480	28783622	0.72620	3,361	2,907	
20	622	610	28790622	0.70000	3,631	3,561	
21	660	500	28797402	0.67800	3,732	2,827	
22	589	360	28803353	0.59510	2,923	1,787	
23	600	725	28811008	0.76550	3,831	4,629	
24	450	687	28819559	0.85510	3,209	4,899	
25	555	250	28824998	0.54390	2,518	1,134	
26	675	1,170	28832753	0.77550	4,366	7,567	
27	435	790	28839222	0.64690	2,347	4,262	
28	567	573	28841307	0.20850	986	996	*
TOTAL				18.99140	119,231	108,855	
AVG.	756	690		0.67826	4,258	3,888	

REVIEWED BY: Mike Andrews DATE: March 9, 1998

APPROVED BY: Lawrence L. DeBoy DATE: 3-9-98

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - February 1998 xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JANUARY 1998

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			28421126			
01	982	590	28428734	0.76080	6,231	3,744
02	990	630	28436604	0.78700	6,498	4,135
03	1,020	315	28443649	0.70450	5,993	1,851
04	1,260	495	28450782	0.71330	7,496	2,945
05	1,860	590	28457896	0.71140	11,036	3,501
06	1,260	610	28463566	0.56700	5,958	2,885
07	848	500	28470400	0.68340	4,833	2,850
08	810	470	28477508	0.71080	4,802	2,786
09	878	650	28484827	0.73190	5,359	3,968
10	825	400	28491470	0.66430	4,571	2,216
11	926	610	28497646	0.61760	4,770	3,142
12	802	710	28506146	0.85000	5,685	5,033
13	938	510	28513432	0.72860	5,700	3,099
14	1,012	1,520	28524593	1.11610	9,420	14,149
15	315	1,040	28537333	1.27400	3,347	11,050
16	652	540	28547211	0.98780	5,371	4,449
17	900	477	28554846	0.76350	5,731	3,037
18	945	700	28561725	0.68790	5,422	4,016
19	922	490	28567917	0.61920	4,761	2,530
20	1,080	560	28573827	0.59100	5,323	2,760
21	990	530	28580780	0.69530	5,741	3,073
22	832	1,230	28588437	0.76570	5,313	7,855
23	795	540	28594897	0.64600	4,283	2,909
24	818	560	28602167	0.72700	4,960	3,395
25	682	595	28609104	0.69370	3,946	3,442
26	885	570	28616724	0.76200	5,624	3,622
27	960	395	28623903	0.71790	5,748	2,365
28	1,050	450	28630893	0.69900	6,121	2,623
29	900	980	28638735	0.78420	5,886	6,409
30	862	720	28645426	0.66910	4,810	4,018
31	1,050	1,370	28651393	0.59670	5,225	6,818
TOTAL				23.02670	175,964	130,675
AVG.	937	656		0.74280	5,676	4,215

REVIEWED BY: Mike Andrews DATE: 2/18/98

APPROVED BY: Larry DeLong DATE: 2-18-98

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - January 1998.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD DECEMBER 1997

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			28185065				
01	802	630	28193913	0.88480	5,918	4,649	
02	938	980	28202279	0.83660	6,545	6,838	
03	832	560	28212189	0.99100	6,876	4,628	
04	570	360	28221284	0.90950	4,324	2,731	
05	615	325	28231444	1.01600	5,211	2,754	
06	795	425	28239769	0.83250	5,520	2,951	
07	758	558	28249825	1.00560	6,357	4,680	
08	735	580	28258961	0.91360	5,600	4,419	
09	750	520	28269595	1.06340	6,652	4,612	
10	795	620	28277128	0.75330	4,995	3,895	
11	818	490	28285475	0.83470	5,694	3,411	
12	982	570	28293602	0.81270	6,656	3,863	
13	1,020	513	28302424	0.88220	7,505	3,774	
14	882	705	28309076	0.66520	4,893	3,911	
15	915	230	28317944	0.88680	6,767	1,701	
16	862	350	28326753	0.88090	6,333	2,571	
17	1,050	400	28336077	0.93240	8,165	3,110	
18	855	770	28345000	0.89230	6,363	5,730	
19	690	430	28352424	0.74240	4,272	2,662	
20	750	790	28362242	0.98180	6,141	6,469	
21	934	525	28369011	0.67690	5,273	2,964	
22	1,042	455	28376183	0.71720	6,233	2,722	
23	998	2,060	28380008	0.38250	3,184	6,572	
24	924	551	28381877	0.09345	720	429	*#
25	924	551	28381877	0.09345	720	429	*#
26	924	551	28386567	0.46900	3,614	2,155	#
27	1,005	240	28393505	0.69380	5,815	1,389	
28	1,110	320	28400150	0.66450	6,152	1,773	
29	1,080	640	28406379	0.62290	5,611	3,325	
30	855	670	28414647	0.82680	5,896	4,620	
31	1,012	560	28421126	0.64790	5,468	3,026	
TOTAL				23.60610	169,472	108,764	
AVG.	878	578		0.76149	5,467	3,509	

REVIEWED BY: Nidia Andrews DATE: Jan 1, 1998

APPROVED BY: Lawrence L. DeLong DATE: 1-7-98

* Denotes 2 day average for Flow.

\# Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD NOVEMBER 1997

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			27918438			
01	915	580	27927746	0.93080	7,103	4,502
02	852	550	27936162	0.84160	5,980	3,860
03	998	440	27944734	0.85720	7,135	3,146
04	938	550	27953360	0.86260	6,748	3,957
05	1,020	650	27962536	0.91760	7,806	4,974
06	960	740	27970574	0.80380	6,436	4,961
07	900	460	27978559	0.79850	5,994	3,063
08	975	355	27987522	0.89630	7,288	2,654
09	915	450	27995676	0.81540	6,222	3,060
10	990	460	28003821	0.81450	6,725	3,125
11	900	535	28013807	0.99860	7,495	4,456
12	892	530	28020537	0.67300	5,007	2,975
13	720	760	28028339	0.78020	4,685	4,945
14	788	500	28037479	0.91400	6,007	3,811
15	878	470	28045411	0.79320	5,808	3,109
16	863	564	28055663	1.02520	7,379	4,822
17	1,050	435	28066044	1.03810	9,091	3,766
18	885	500	28074513	0.84690	6,251	3,532
19	855	460	28083947	0.94340	6,727	3,619
20	742	447	28092986	0.90390	5,594	3,370
21	840	480	28101826	0.88400	6,193	3,539
22	862	500	28110079	0.82530	5,933	3,442
23	698	580	28120035	0.99560	5,796	4,816
24	900	780	28128732	0.86970	6,528	5,658
25	495	430	28137209	0.84770	3,500	3,040
26	668	510	28146203	0.89940	5,011	3,826
27	922	600	28156251	1.00480	7,726	5,028
28	878	400	28165387	0.91360	6,690	3,048
29	885	245	28175935	1.05480	7,785	2,155
30	656	358	28185065	0.91300	4,995	2,726
TOTAL				26.66270	191,636	112,984
AVG.	861	511		0.88876	6,388	3,766

REVIEWED BY: Mike Andrews DATE: Dec 10, 1997

APPROVED BY: Laurence P. DeYong DATE: 12-11-97

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - November 1997.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD OCTOBER 1997

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			27676790				
01	1,170	600	27683568	0.67780	6,614	3,392	
02	1,134	840	27689669	0.61010	5,770	4,274	**
03	1,290	750	27695844	0.61750	6,643	3,862	
04	1,290	670	27702183	0.63390	6,820	3,542	
05	1,095	580	27709449	0.72660	6,636	3,515	
06	1,350	870	27715546	0.60970	6,865	4,424	
07	1,350	700	27721645	0.60990	6,867	3,561	
08	1,200	840	27727741	0.60960	6,101	4,271	
09	810	495	27734506	0.67650	4,570	2,793	
10	825	420	27742370	0.78640	5,411	2,755	
11	1,012	530	27750242	0.78720	6,644	3,480	
12	941	388	27759196	0.89540	7,027	2,897	
13	878	490	27765121	0.59250	4,339	2,421	
14	990	670	27772025	0.69040	5,700	3,858	
15	960	470	27780573	0.85480	6,844	3,351	
16	1,005	480	27787796	0.72230	6,054	2,892	
17	1,170	1,020	27795262	0.74660	7,285	6,351	
18	930	800	27805663	1.04010	8,067	6,940	
19	495	185	27815893	1.02300	4,223	1,578	
20	495	860	27828283	1.23900	5,115	8,887	
21	788	560	27836050	0.77670	5,104	3,627	
22	840	600	27843583	0.75330	5,277	3,770	
23	862	480	27852424	0.88410	6,356	3,539	
24	990	440	27860298	0.78740	6,501	2,889	
25	900	360	27869031	0.87330	6,555	2,622	
26	888	275	27878273	0.92420	6,845	2,120	
27	878	263	27886742	0.84690	6,201	1,858	
28	960	233	27895053	0.83110	6,654	1,615	
29	1,020	345	27903217	0.81640	6,945	2,349	
30	585	435	27909539	0.63220	3,084	2,294	
31	712	450	27918438	0.88990	5,284	3,340	
TOTAL				24.16480	188,402	109,064	
AVG.	962	552		0.77951	6,077	3,518	

REVIEWED BY: Mike Anderson DATE: Nov 7, 1997

APPROVED BY: Lawrence L. Derby, DATE: NOV. 7 1997

* Denotes 12 day average for Suspended Solids and BOD.

** Denotes 12 day average for BOD.

File Name: Billing - October 1997.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD SEPTEMBER 1997

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			27469489			
01	1,320	800	27475333	0.58440	6,434	3,899
02	1,020	510	27483601	0.82680	7,033	3,517
03	765	200	27490811	0.72100	4,600	1,203
04	848	520	27498694	0.78830	5,575	3,419
05	982	650	27505766	0.70720	5,792	3,834
06	1,058	680	27511868	0.61020	5,384	3,461
07	1,012	680	27519335	0.74670	6,302	4,235
08	758	600	27525888	0.65530	4,143	3,279
09	855	3,720	27535736	0.98480	7,022	30,553
10	892	900	27542502	0.67660	5,033	5,079
11	818	880	27547503	0.50010	3,412	3,670
12	915	355	27554502	0.69990	5,341	2,072
13	930	440	27562100	0.75980	5,893	2,788
14	918	512	27569264	0.71640	5,485	3,059
15	870	630	27576270	0.70060	5,083	3,681
16	1,050	680	27583976	0.77060	6,748	4,370
17	892	630	27590668	0.66920	4,978	3,516
18	848	795	27597425	0.67570	4,779	4,480
19	982	1,900	27604301	0.68760	5,631	10,896
20	1,110	650	27610650	0.63490	5,878	3,442
21	1,095	830	27617563	0.69130	6,313	4,785
22	1,170	800	27624161	0.65980	6,438	4,402
23	1,350	890	27630133	0.59720	6,724	4,433
24	1,230	1,050	27636506	0.63730	6,538	5,581
25	990	670	27642850	0.63440	5,238	3,545
26	1,230	800	27649608	0.67580	6,932	4,509
27	1,200	740	27656707	0.70990	7,105	4,381
28	1,125	415	27663406	0.66990	6,285	2,319
29	990	620	27669902	0.64960	5,363	3,359
30	1,020	720	27676790	0.68880	5,859	4,136
TOTAL				20.73010	173,343	145,902
AVG.	1,008	809		0.69100	5,778	4,863

REVIEWED BY: Mike Andrews DATE: Oct 7, 1997

APPROVED BY: L. DeKorg DATE: Oct. 7 1997

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - September 1997.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD AUGUST 1997

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			27257115				
01	993	705	27263738	0.66230	5,485	3,894	*
02	1,140	540	27270932	0.71940	6,840	3,240	
03	1,020	650	27278119	0.71870	6,114	3,896	
04	1,170	820	27284876	0.67570	6,593	4,621	
05	1,260	940	27291337	0.64610	6,789	5,065	
06	998	890	27297109	0.57720	4,804	4,284	
07	600	1,060	27303064	0.59550	2,980	5,264	
08	1,088	1,290	27308717	0.56530	5,129	6,082	
09	1,072	670	27314182	0.54650	4,886	3,054	
10	1,016	615	27320717	0.65350	5,537	3,352	
11	1,020	920	27327129	0.64120	5,455	4,920	
12	450	395	27333860	0.67310	2,526	2,217	
13	930	1,130	27341535	0.76750	5,953	7,233	
14	1,020	1,210	27348425	0.68900	5,861	6,953	
15	930	700	27355169	0.67440	5,231	3,937	
16	1,170	920	27361842	0.66730	6,511	5,120	
17	926	855	27367540	0.56980	4,400	4,063	
18	975	2,070	27377283	0.97430	7,923	16,820	
19	630	1,160	27385467	0.81840	4,300	7,918	
20	840	650	27391853	0.63860	4,474	3,462	
21	878	530	27399944	0.80910	5,925	3,576	
22	855	550	27406214	0.62700	4,471	2,876	
23	862	620	27413009	0.67950	4,885	3,514	
24	705	762	27420355	0.73460	4,319	4,668	
25	922	580	27427123	0.67680	5,204	3,274	
26	960	547	27433640	0.65170	5,218	2,973	
27	802	400	27441339	0.76990	5,150	2,568	
28	872	717	27448346	0.70070	5,096	4,190	*
29	1,050	530	27455420	0.70740	6,195	3,127	
30	1,230	540	27462318	0.68980	7,076	3,107	
31	682	405	27469489	0.71710	4,079	2,422	
TOTAL				21.23740	165,409	141,691	
AVG.	938	786		0.68508	5,336	4,571	

REVIEWED BY: Mike Andrews DATE: Sept 8, 1997

APPROVED BY: Michael R. Wing DATE: 9-8-97

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - August 1997.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JULY 1997

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			27056710				
01	1,012	680	27062473	0.57630	4,864	3,268	
02	1,002	530	27068844	0.63710	5,324	2,816	*
03	1,002	530	27074949	0.61050	5,102	2,699	*
04	300	60	27080739	0.57900	1,449	290	
05	943	486	27086888	0.61490	4,836	2,492	*
06	943	486	27092793	0.59050	4,644	2,393	*
07	1,380	830	27098991	0.61980	7,133	4,290	
08	1,170	800	27105617	0.66260	6,466	4,421	
09	1,080	810	27111971	0.63540	5,723	4,292	
10	1,020	980	27116802	0.48310	4,110	3,948	
11	1,230	920	27122151	0.53490	5,487	4,104	
12	982	554	27128115	0.59640	4,884	2,756	*
13	982	554	27134797	0.66820	5,472	3,087	*
14	982	554	27141183	0.63860	5,230	2,951	*
15	1,080	950	27146346	0.51630	4,650	4,091	
16	989	614	27152927	0.65810	5,428	3,370	*
17	989	614	27159241	0.63140	5,208	3,233	*
18	989	614	27166184	0.69430	5,727	3,555	*
19	989	614	AVG	0.66135	5,455	3,387	*@
20	989	614	27179411	0.66135	5,455	3,387	*@
21	1,170	650	27189690	1.02790	10,030	5,572	
22	848	710	27196407	0.67170	4,750	3,977	
23	960	930	27203355	0.69480	5,563	5,389	
24	892	510	27211283	0.79280	5,898	3,372	
25	922	790	27217038	0.57550	4,425	3,792	
26	570	770	27223361	0.63230	3,006	4.061	
27	975	690	27229283	0.59220	4,815	3,408	
28	892	580	27237379	0.80960	6,023	3,916	
29	1,080	580	27244930	0.75510	6,801	3,653	
30	1,290	680	27251351	0.64210	6,908	3,641	
31	1,110	670	27257115	0.57640	5,336	3,221	
TOTAL				20.04050	166,204	108,833	
AVG.	992	657		0.64647	5,361	3,511	

REVIEWED BY: Mike Andrews DATE: 8/10/97

APPROVED BY: Walt Thompson DATE: 8-11-97

* Denotes 12 day average for Suspended Solids and BOD.

@ Denotes a 2 - Day Flow Average.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JUNE 1997

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			26847283			
01	675	532	26856560	0.92770	5,222	4,116
02	810	340	26863515	0.69550	4,698	1,972
03	690	470	26869849	0.63340	3,645	2,483
04	810	550	26877008	0.71590	4,836	3,284
05	810	1,470	26884020	0.70120	4,737	8,597
06	600	1,010	26892049	0.80290	4,018	6,763
07	1,020	670	26898565	0.65160	5,543	3,641
08	1,050	600	26905837	0.72720	6,368	3,639
09	990	770	26911110	0.52730	4,354	3,386
10	960	820	26916516	0.54060	4,328	3,697
11	1,105	1,000	26923695	0.71790	6,616	5,987
12	870	710	26932605	0.89100	6,465	5,276
13	930	660	26938563	0.59580	4,621	3,280
14	930	600	26944299	0.57360	4,449	2,870
15	945	605	26951038	0.67390	5,311	3,400
16	690	760	26959129	0.80910	4,656	5,128
17	860	640	26968748	0.96190	6,899	5,134
18	1,040	620	26975538	0.67900	5,889	3,511
19	1,065	820	26982909	0.73710	6,547	5,041
20	1,255	650	26989333	0.64240	6,724	3,482
21	1,135	780	26995889	0.65560	6,206	4,265
22	930	770	27002092	0.62030	4,811	3,983
23	1,025	790	27008466	0.63740	5,449	4,200
24	1,700	665	27015087	0.66210	9,387	3,672
25	1,020	460	27020540	0.54530	4,639	2,092
26	825	350	27026866	0.63260	4,353	1,847
27	1,005	248	27033232	0.63660	5,336	1,317
28	878	208	27041573	0.83410	6,108	1,447
29	672	270	27050542	0.89690	5,027	2,020
30	930	425	27056710	0.61680	4,784	2,186
TOTAL				20.94270	162,026	111,716
AVG.	941	642		0.69809	5,401	3,724

REVIEWED BY: Mike Andrews DATE: July 8, 1997

APPROVED BY: Walter L Thompson DATE: July 8, 1997

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD MAY 1997

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			26646607				
01	1020	450	26652106	0.54990	4,678	2,064	
02	1420	360	26657298	0.51920	6,149	1,559	
03	990	362	26662986	0.56880	4,696	1,717	
04	855	415	26668418	0.54320	3,873	1,880	
05	900	390	26672958	0.45400	3,408	1,477	
06	720	607	26679165	0.62070	3,727	3,142	
07	960	840	26685784	0.66190	5,299	4,637	
08	1350	750	26690489	0.47050	5,297	2,943	
09	1230	620	26695360	0.48710	4,997	2,519	
10	990	660	26700982	0.56220	4,642	3,095	
11	690	1520	26714340	1.33580	7,687	16,934	
12	200	970	26716344	0.20040	334	1,621	
13	970	606	26718845	0.25010	2,023	1,264	*
14	200	355	26722707	0.38620	644	1,143	
15	510	760	26728743	0.60360	2,567	3,826	
16	490	345	26736181	0.74380	3,040	2,140	
17	665	385	26744777	0.85960	4,767	2,760	
18	585	552	26754056	0.92790	4,527	4,272	
19	720	690	26763181	0.91250	5,479	5,251	
20	780	313	26773279	1.00980	6,569	2,636	
21	780	350	26779605	0.63260	4,115	1,847	
22	1320	380	26785759	0.61540	6,775	1,950	
23	1050	384	26791515	0.57560	5,041	1,843	
24	1080	325	26798230	0.67150	6,048	1,820	
25	960	340	26804566	0.63360	5,073	1,797	
26	1050	315	26809736	0.51700	4,527	1,358	
27	1020	360	26816940	0.72040	6,128	2,163	
28	690	530	26823945	0.70050	4,031	3,096	
29	690	580	26831478	0.75330	4,335	3,644	
30	810	700	26839248	0.77700	5,249	4,536	
31	840	530	26847283	0.80350	5,629	3,552	
TOTAL				20.06760	141,357	94,485	
AVG.	836	540		0.64734	4,560	3,048	

REVIEWED BY: Mike Andrews DATE: June 9, 1997

APPROVED BY: Walter L Thompson DATE: June 10, 1997

* *Denotes 12 day average for Suspended Solids and BOD.*

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD April 1997

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			26474489			
01	230	565	26480256	0.57670	1,106	2,717
02	870	750	26484777	0.45210	3,280	2,828
03	660	313	26491457	0.66800	3,677	1,744
04	1,020	1,010	26498347	0.68900	5,861	5,804
05	960	645	26504593	0.62460	5,001	3,360
06	1,050	1,405	26512072	0.74790	6,549	8,764
07	960	640	26518425	0.63530	5,086	3,391
08	930	780	26523623	0.51980	4,032	3,381
09	1,200	610	26529779	0.61560	6,161	3,132
10	1,260	840	26534882	0.51030	5,362	3,575
11	1,140	770	26541019	0.61370	5,835	3,941
12	1,200	590	26546597	0.55780	5,582	2,745
13	1,230	805	26551931	0.53340	5,472	3,581
14	1,350	610	26557221	0.52900	5,956	2,691
15	1,380	610	26562221	0.50000	5,755	2,544
16	1,170	615	26567926	0.57050	5,567	2,926
17	1,350	565	26573201	0.52750	5,939	2,486
18	1,140	575	26579697	0.64960	6,176	3,115
19	1,170	540	26586480	0.67830	6,619	3,055
20	960	545	26591768	0.52880	4,234	2,404
21	930	405	26598174	0.64060	4,969	2,164
22	1,050	970	26603589	0.54150	4,742	4,381
23	1,260	1,160	26607735	0.41460	4,357	4,011
24	1,350	670	26614132	0.63970	7,202	3,575
25	1,110	750	26620528	0.63960	5,921	4,001
26	1,110	1,010	26625528	0.50000	4,629	4,212
27	1,365	1,470	26632197	0.66690	7,592	8,176
28	1,140	1,090	26637898	0.57010	5,420	5,183
29	1,290	810	26642046	0.41480	4,463	2,802
30	990	495	26646607	0.45610	3,766	1,883
TOTAL				17.21180	156,311	108,569
AVG.	1,094	754		0.57373	5,210	3,619

REVIEWED BY: Mike Andrews DATE: May 7, 1997

APPROVED BY: Walter L Thompson DATE: May 8, 1997

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - April 1997.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD MARCH 1997

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			26292629			
01	1,110	490	26298458	0.58290	5,396	2,382
02	1,380	675	26304016	0.55580	6,397	3,129
03	720	600	26310878	0.68620	4,120	3,434
04	1,080	930	26317668	0.67900	6,116	5,266
05	1,080	620	26322721	0.50530	4,551	2,613
06	1,320	515	26327629	0.49080	5,403	2,108
07	840	310	26337021	0.93920	6,580	2,428
08	750	510	26343463	0.64420	4,029	2,740
09	870	512	26349070	0.56070	4,068	2,394
10	1,020	620	26355682	0.66120	5,625	3,419
11	1,410	560	26361509	0.58270	6,852	2,721
12	1,410	555	26368091	0.65820	7,740	3,047
13	1,740	750	26373509	0.54180	7,862	3,389
14	1,230	500	26381092	0.75830	7,779	3,162
15	1,290	465	26386635	0.55430	5,963	2,150
16	1,215	550	26392443	0.58080	5,885	2,664
17	990	360	26398794	0.63510	5,244	1,907
18	1,140	740	26403951	0.51570	4,903	3,183
19	1,170	760	26409445	0.54940	5,361	3,482
20	1,410	605	26414858	0.54130	6,365	2,731
21	1,260	620	26419559	0.47010	4,940	2,431
22	1,380	605	26424239	0.46800	5,386	2,361
23	1,350	625	26429105	0.48660	5,479	2,536
24	1,410	490	26435190	0.60850	7,156	2,487
25	1,170	645	26438896	0.37060	3,616	1,994
26	1,170	580	26443804	0.49080	4,789	2,374
27	1,200	665	26450384	0.65800	6,585	3,649
28	990	375	26456662	0.62780	5,183	1,963
29	520	520	26461469	0.48070	2,085	2,085
30	1,410	730	26466659	0.51900	6,103	3,160
31	1,710	1,900	26474489	0.78300	11,167	12,407
TOTAL				18.18600	178,730	95,797
AVG.	1,185	625		0.58665	5,765	3,090

REVIEWED BY: Mike Anderson DATE: April 8, 1997

APPROVED BY: Walter L Thompson DATE: Apr. 18, 1997

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD FEBRUARY 1997

DAYS 28

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			26115429				
01	990	265	26122124	0.66950	5,528	1,480	
02	1,080	342	26127830	0.57060	5,140	1,628	
03	780	370	26137748	0.99180	6,452	3,060	
04	810	690	26143889	0.61410	4,148	3,534	
05	960	650	26150779	0.68900	5,516	3,735	
06	1,050	740	26156509	0.57300	5,018	3,536	
07	840	635	26162238	0.57290	4,014	3,034	
08	870	520	26166540	0.43020	3,121	1,866	
09	870	558	26172112	0.55720	4,043	2,593	
10	1,350	710	26178447	0.63350	7,133	3,751	
11	912	498	26184218	0.57710	4,389	2,397	*
12	960	600	26190831	0.66130	5,295	3,309	
13	750	630	26196251	0.54200	3,390	2,848	
14	660	1,560	26202226	0.59750	3,289	7,774	
15	630	315	26208186	0.59600	3,132	1,566	
16	1,035	630	26213867	0.56810	4,904	2,985	
17	1,020	480	26219943	0.60760	5,169	2,432	
18	840	680	26226093	0.61500	4,308	3,488	
19	780	620	26232187	0.60940	3,964	3,151	
20	780	670	26241746	0.95590	6,218	5,341	
21	690	445	26247527	0.57810	3,327	2,146	
22	1,140	495	26252762	0.52350	4,977	2,161	
23	1,350	482	26258541	0.57790	6,507	2,323	
24	1,110	450	26265202	0.66610	6,166	2,500	
25	1,170	700	26272501	0.72990	7,122	4,261	
26	1,020	780	26279141	0.66400	5,649	4,319	
27	960	580	26286141	0.70000	5,604	3,386	
28	810	660	26292629	0.64880	4,383	3,571	
TOTAL				17.72000	137,906	88,175	
AVG.	936	598		0.63286	4,925	3,149	

REVIEWED BY: Mike Andrews DATE: 3/7/97

APPROVED BY: Walter K Thompson DATE: 3/7/97

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JANUARY 1997

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			25940163				
01	660	260	25945147	0.49840	2,743	1,081	
02	745	247	25951529	0.63820	3,965	1,315	
03	750	205	25956355	0.48260	3,019	825	
04	610	287	25962440	0.60850	3,096	1,456	
05	1,125	262	25967517	0.50770	4,763	1,109	
06	1,230	505	25972569	0.50520	5,182	2,128	
07	990	800	25977552	0.49830	4,114	3,325	
08	1,080	430	25979527	0.19750	1,779	708	
09	1,080	385	25986873	0.73460	6,617	2,359	
10	1,080	800	25991133	0.42600	3,837	2,842	
11	990	325	25997815	0.66820	5,517	1,811	
12	960	760	26003266	0.54510	4,364	3,455	
13	840	350	26008414	0.51480	3,606	1,503	
14	930	455	26013653	0.52390	4,063	1,988	
15	1,020	665	26019844	0.61910	5,267	3,434	
16	930	910	26026156	0.63120	4,896	4,790	
17	720	980	26030772	0.46160	2,772	3,773	
18	840	200	26036888	0.61160	4,285	1,020	
19	765	250	26043471	0.65830	4,200	1,373	
20	1,500	345	26048320	0.48490	6,066	1,395	
21	944	524	26053203	0.48830	3,844	2,134	*
22	944	524	26058869	0.56660	4,461	2,476	*
23	1,080	1,395	26065550	0.66810	6,018	7,773	
24	720	350	26071920	0.63700	3,825	1,859	
25	770	285	26076955	0.50350	3,233	1,197	
26	1,065	575	26084789	0.78340	6,958	3,757	
27	900	555	26091534	0.67450	5,063	3,122	
28	840	310	26097035	0.55010	3,854	1,422	
29	840	265	26103610	0.65750	4,606	1,453	
30	780	240	26108979	0.53690	3,493	1,075	
31	870	210	26115429	0.64500	4,680	1,130	
TOTAL				17.52660	134,187	69,087	
AVG.	923	473		0.56537	4,329	2,229	

REVIEWED BY: Mike Andrews DATE: 2/6/97

APPROVED BY: Wally L Thompson DATE: 2/7/97

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD DECEMBER 1996

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			25753960				
01	1,575	755	25759187	0.52270	6,866	3,291	
02	1,290	665	25764109	0.49220	5,295	2,730	
03	1,077	618	25769590	0.54810	4,923	2,825	*
04	1,077	618	25775513	0.59230	5,320	3,053	*
05	990	355	25782039	0.65260	5,388	1,932	
06	1,050	390	25787461	0.54220	4,748	1,764	
07	900	357	25793594	0.61330	4,603	1,826	
08	1,089	418	25799285	0.56910	5,169	1,984	**
09	1,080	460	25805196	0.59110	5,324	2,268	
10	900	480	25810020	0.48240	3,621	1,931	
11	870	710	25815626	0.56060	4,068	3,320	
12	990	1,180	25822861	0.72350	5,974	7,120	
13	690	600	25829478	0.66170	3,808	3,311	
14	720	244	25834613	0.51350	3,083	1,045	
15	1,125	380	25839513	0.49000	4,597	1,553	
16	990	415	25845054	0.55410	4,575	1,918	
17	960	780	25851056	0.60020	4,805	3,904	
18	840	290	25855895	0.48390	3,390	1,170	
19	840	293	25860846	0.49510	3,468	1,210	
20	780	260	25866564	0.57180	3,720	1,240	
21	930	220	25871624	0.50600	3,925	928	
22	990	2,270	25883108	1.14840	9,482	21,741	
23	200	1,240	25888325	0.52170	870	5,395	
24	200	145	AVG	0.18840	314	228	#@
25	200	145	25892093	0.18840	314	228	#@
26	390	545	25898075	0.59820	1,946	2,719	
27	480	1,040	25911546	1.34710	5,393	11,684	
28	540	760	25920608	0.90620	4,081	5,744	
29	705	562	25927849	0.72410	4,257	3,394	
30	630	460	25935103	0.72540	3,811	2,783	
31	665	297	25940163	0.50600	2,806	1,253	
TOTAL				18.62030	129,947	105,492	
AVG.	831	579		0.60065	4,192	3,403	

REVIEWED BY: Mike Andrews DATE: Jan 7, 1997

APPROVED BY: Walter L Thompson DATE: Jan. 7, 1997

* Denotes 12 day average for Suspended Solids and BOD.

** Denotes 12 day average for BOD result.

# Denotes results from Dec'95 for BOD and Suspended Solids.

@ Denotes 2 day Flow average.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD NOVEMBER 1996
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			25578029			
01	1,080	930	25584902	0.68730	6,191	5,331
02	1,500	690	25591972	0.70700	8,845	4,069
03	1,290	675	25598666	0.66940	7,202	3,768
04	1,710	900	25603873	0.52070	7,426	3,908
05	1,680	620	25609705	0.58320	8,171	3,016
06	1,350	460	25616318	0.66130	7,446	2,537
07	1,260	525	25621938	0.56200	5,906	2,461
08	1,020	470	25627431	0.54930	4,673	2,153
09	1,110	427	25632444	0.50130	4,641	1,785
10	1,410	415	25637471	0.50270	5,911	1,740
11	1,470	330	25644365	0.68940	8,452	1,897
12	1,380	505	25650553	0.61880	7,122	2,606
13	1,110	395	25656026	0.54730	5,067	1,803
14	1,140	595	25660798	0.47720	4,537	2,368
15	1,080	445	25666351	0.55530	5,002	2,061
16	1,140	810	25673600	0.72490	6,892	4,897
17	1,035	420	25679446	0.58460	5,046	2,048
18	1,080	475	25686017	0.65710	5,919	2,603
19	1,050	625	25691059	0.50420	4,415	2,628
20	720	555	25699356	0.82970	4,982	3,840
21	840	505	25705040	0.56840	3,982	2,394
22	900	490	25709679	0.46390	3,482	1,896
23	1,020	573	25715521	0.58420	4,970	2,792
24	1,110	515	25720992	0.54710	5,065	2,350
25	1,020	647	25726488	0.54960	4,675	2,966
26	1,050	695	25731741	0.52530	4,600	3,045
27	990	670	25736572	0.48310	3,989	2,699
28	1,230	660	25742602	0.60300	6,186	3,319
29	1,020	770	25748895	0.62930	5,353	4,041
30	1,140	465	25753960	0.50650	4,816	1,964
TOTAL				17.59310	170,961	84,985
AVG.	1,165	575		0.58644	5,699	2,833

REVIEWED BY: Mike Andrews DATE: 12/6/96

APPROVED BY: Walt Thompson DATE: 12/6/96

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — OCTOBER 1996 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	25386057	********	******	******
01	960	305	25393084	0.70270	5,626	1,787
02	810	545	25400164	0.70800	4,783	3,218
03	750	440	25405218	0.50540	3,161	1,855
04	900	345	25411709	0.64910	4,872	1,868
05	600	440	25418351	0.66420	3,324	2,437
06	705	452	25424388	0.60370	3,550	2,276
07	1110	640	25430988	0.66000	6,110	3,523
08	900	610	25437431	0.64430	4,836	3,278
09	1050	360	25444061	0.66300	5,806	1,991
10	1050	520	25451280	0.72190	6,322	3,131
11	810	615	25458070	0.67900	4,587	3,483
12	900	495	25464745	0.66750	5,010	2,756
13	825	495	25471560	0.68150	4,689	2,813
14	740	710	25482951	1.13910	7,030	6,745
15	870	535	25488651	0.57000	4,136	2,343
16	1050	660	25494056	0.54050	4,733	2,975
17	1140	340	25500010	0.59540	5,661	1,688
18	900	505	25505027	0.50170	3,766	2,113
19	1050	315	25510821	0.57940	5,074	1,522
20	1575	462	25515855	0.50340	6,612	1,940
21	1680	570	25522274	0.64190	8,994	3,051
22	1890	610	25527492	0.52180	8,225	2,655
23	1080	355	25532672	0.51800	4,666	1,534
24	1650	400	25538218	0.55460	7,632	1,850
25	1260	630	25543896	0.56780	5,967	2,983
26	1260	570	25549431	0.55350	5,816	2,631
27	1350	760	25555060	0.56290	6,338	3,568
28	1140	335	25559735	0.46750	4,445	1,306
29	1530	665	25566001	0.62660	7,996	3,475
30	1140	1740	25570426	0.44250	4,207	6,421
31	1050	1260	25578029	0.76030	6,658	7,990
TOTAL				19.19720	170,630	91,406
AVG.	1088	570		0.61926	5,504	2,949

REVIEWED BY: Mike Andrews DATE: Nov. 12, 1996

APPROVED BY: Walter K Thompson DATE: Nov - 12, 1996

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — SEPTEMBER 1996
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	25211686	********	******	******
01	1320	582	25218136	0.64500	7,101	3,131
02	1410	425	25224502	0.63660	7,486	2,256
03	1470	625	25230710	0.62080	7,611	3,236
04	1290	600	25236802	0.60920	6,554	3,048
05	1440	750	25242198	0.53960	6,480	3,375
06	1440	950	25247910	0.57120	6,860	4,526
07	1410	1360	25254656	0.67460	7,933	7,652
08	1380	628	25260386	0.57300	6,595	3,001
09	1110	425	25266642	0.62560	5,791	2,217
10	1290	820	25272594	0.59520	6,404	4,070
11	990	490	25277859	0.52650	4,347	2,152
12	1290	525	25282382	0.45230	4,866	1,980
13	1320	730	25286622	0.42400	4,663	2,581
14	1650	730	25291558	0.49360	6,792	3,005
15	1575	585	25296765	0.52070	6,840	2,540
16	1620	600	25301463	0.46980	6,347	2,351
17	1560	495	25306012	0.45490	5,918	1,878
18	1530	675	25311782	0.57700	7,363	3,248
19	1290	1080	25317359	0.55770	6,000	5,023
20	990	765	25323645	0.62860	5,190	4,011
21	1290	465	25329853	0.62080	6,679	2,408
22	1260	548	25336544	0.66910	7,031	3,058
23	1470	560	25342443	0.58990	7,232	2,755
24	1230	570	25347501	0.50580	5,189	2,404
25	1290	560	25355268	0.77670	8,356	3,027
26	1290	445	25362893	0.76250	8,203	2,830
27	1320	585	25367484	0.45910	5,054	2,240
28	1380	365	25372910	0.54260	6,245	1,652
29	1350	226	25378049	0.51390	5,786	969
30	1260	600	25386057	0.80080	8,415	4,007
TOTAL				17.43710	195,337	91,233
AVG.	1351	625		0.58124	6,511	3,041

REVIEWED BY: Mike Andrews DATE: Oct 11, 1996

APPROVED BY: Walter L Thompson DATE: Oct 11, 1996

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD AUGUST 1996
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	25021712	********	******	******	
01	1230	265	25027228	0.55160	5,658	1,219	
02	1290	200	25032697	0.54690	5,884	912	
03	1350	275	25037395	0.46980	5,289	1,077	
04	1440	411	25043578	0.61830	7,426	2,119	
05	1410	475	25049164	0.55860	6,569	2,213	
06	990	390	25054738	0.55740	4,602	1,813	
07	1110	335	25060867	0.61290	5,674	1,712	
08	990	580	25068005	0.71380	5,894	3,453	
09	930	290	25073555	0.55500	4,305	1,342	
10	930	297	25080015	0.64600	5,011	1,600	
11	1095	420	25085214	0.51990	4,748	1,821	
12	990	187	25092160	0.69460	5,735	1,083	
13	1050	335	25098184	0.60240	5,275	1,683	
14	930	255	25106342	0.81580	6,328	1,735	
15	840	170	25111615	0.52730	3,694	748	
16	840	213	25117191	0.55760	3,906	991	
17	960	166	25123678	0.64870	5,194	898	
18	990	142	25129819	0.61410	5,070	727	
19	930	193	25136447	0.66280	5,141	1,067	
20	954	253	25143130	0.66830	5,317	1,410	*
21	1230	260	25149790	0.66600	6,832	1,444	
22	1320	307	25156536	0.67460	7,427	1,727	
23	1290	350	25162553	0.60170	6,473	1,756	
24	1320	360	25169461	0.69080	7,605	2,074	
25	1170	274	25176755	0.72940	7,117	1,667	
26	1170	310	25182594	0.58390	5,698	1,510	
27	960	252	25189020	0.64260	5,145	1,351	
28	1110	425	25195025	0.60050	5,559	2,128	
29	1170	555	25200422	0.53970	5,266	2,498	
30	1260	445	25206637	0.62150	6,531	2,307	
31	1230	505	25211686	0.50490	5,179	2,126	
TOTAL				18.99740	175,552	50,213	
AVG.	1112	319		0.61282	5,663	1,620	

REVIEWED BY: Mike Andrews DATE: 9/6/96

APPROVED BY: Walter L Thompson DATE: 9/9/96

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JULY 1996
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	24848707	********	******	******
01	430	1310	24853443	0.47360	1,698	5,174
02	1020	575	24859012	0.55690	4,737	2,671
03	1170	435	24864301	0.52890	5,161	1,919
04	1590	530	24868903	0.46020	6,103	2,034
05	1560	325	24874391	0.54880	7,140	1,488
06	1500	495	24879364	0.49730	6,221	2,053
07	1680	488	24884220	0.48560	6,804	1,976
08	1950	620	24889260	0.50400	8,197	2,606
09	1200	590	24895803	0.65430	6,548	3,220
10	1350	865	24900659	0.48560	5,467	3,503
11	1590	635	24904775	0.41160	5,458	2,180
12	1500	825	24910286	0.55110	6,894	3,792
13	1110	355	24916136	0.58500	5,416	1,732
14	1530	655	24921627	0.54910	7,007	3,000
15	1410	400	24927286	0.56590	6,655	1,888
16	1290	560	24933080	0.57940	6,234	2,706
17	1440	640	24937858	0.47780	5,738	2,550
18	1020	565	24946154	0.82960	7,057	3,909
19	810	655	24951807	0.56530	3,819	3,088
20	1110	730	24956800	0.49930	4,622	3,040
21	1275	520	24962950	0.61500	6,540	2,667
22	1650	520	24968570	0.56200	7,734	2,437
23	1260	375	24975374	0.68040	7,150	2,128
24	1050	265	24981776	0.64020	5,606	1,415
25	930	385	24986828	0.50520	3,918	1,622
26	840	240	24993035	0.62070	4,348	1,242
27	1140	405	24998981	0.59460	5,653	2,008
28	1140	295	25004454	0.54730	5,204	1,347
29	615	275	25010436	0.59820	3,068	1,372
30	1170	337	25015182	0.47460	4,631	1,334
31	1050	270	25021712	0.65300	5,718	1,470
TOTAL				17.30050	176,546	73,571
AVG.	1238	521		0.55808	5,695	2,373

REVIEWED BY: Mike Andrews DATE: Aug 9, 1996

APPROVED BY: Walter L Compton DATE: Aug. 9, 1996

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — JUNE 1996 — # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	24669641	********	******	******	
01	750	890	24679841	1.02000	6,380	7,571	
02	1260	432	24685794	0.59530	6,256	2,145	
03	1620	550	24692225	0.64310	8,689	2,950	
04	1320	540	24698653	0.64280	7,076	2,895	
05	1470	615	24707290	0.86370	10,589	4,430	
06	1620	645	24712785	0.54950	7,424	2,956	
07	1050	485	24719568	0.67830	5,940	2,744	
08	1440	530	24723863	0.42950	5,158	1,898	
09	1485	730	24731105	0.72420	8,969	4,409	
10	930	1130	24739548	0.84430	6,549	7,957	
11	870	1970	24748442	0.88940	6,453	14,613	
12	650	680	24755284	0.68420	3,709	3,880	
13	1140	545	24760583	0.52990	5,038	2,409	
14	1560	530	24765920	0.53370	6,944	2,359	
15	1770	470	24771694	0.57740	8,523	2,263	
16	1125	505	24782700	1.10060	10,326	4,635	
17	1140	520	24788588	0.58880	5,598	2,554	
18	1230	670	24793381	0.47930	4,917	2,678	
19	990	315	24800674	0.72930	6,022	1,916	
20	1650	600	24805881	0.52070	7,165	2,606	
21	1200	635	AVG	0.66220	6,627	3,507	*
22	1260	620	AVG	0.66220	6,959	3,424	*
23	1710	960	AVG	0.66220	9,444	5,302	*
24	600	1120	24806045	0.66220	3,314	6,185	*
25	1440	920	24813028	0.69830	8,386	5,358	
26	1330	643	24817703	0.46750	5,186	2,507	**
27	1530	730	24822836	0.51330	6,550	3,125	
28	1200	540	24834805	1.19690	11,979	5,390	
29	780	440	24843707	0.89020	5,791	3,267	
30	1068	1508	24848707	0.50000	4,454	6,288	
TOTAL				20.53900	206,414	124,221	
AVG.	1240	716		0.68463	6,880	4,141	

REVIEWED BY: Mike Andrews DATE: July 10, 1996

APPROVED BY: Walter L. Thompson DATE: July 10, 1996

** Denotes a 12-day average for BOD and Suspended Solids.

* Denotes 12-day average for Flow.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — MAY 1996 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	24427022	********	******	******	
01	1050	1830	24436386	0.93640	8,200	14,292	
02	720	550	24441101	0.47150	2,831	2,163	
03	1050	325	24447534	0.64330	5,633	1,744	
04	1050	330	24456203	0.86690	7,591	2,386	
05	1050	300	24464270	0.80670	7,064	2,018	
06	1380	495	24469360	0.50900	5,858	2,101	
07	1380	405	24475550	0.61900	7,124	2,091	
08	1260	420	24482359	0.68090	7,155	2,385	
09	1050	475	24489185	0.68260	5,978	2,704	
10	1080	425	24496190	0.70050	6,310	2,483	
11	1110	410	24503459	0.72690	6,729	2,486	
12	1170	315	24510288	0.68290	6,664	1,794	
13	1080	490	24518448	0.81600	7,350	3,335	
14	1131	370	24525483	0.70350	6,636	2,171	**
15	1140	540	24533060	0.75770	7,204	3,412	
16	1140	414	24540069	0.70090	6,664	2,420	*
17	1140	414	24546625	0.65560	6,233	2,264	*
18	1380	1080	24553546	0.69210	7,966	6,234	
19	1380	3135	24569999	1.64530	18,936	43,018	
20	1206	511	24570196	0.01970	198	84	*
21	1206	511	24571056	0.08600	865	367	*
22	1206	511	24576128	0.50720	5,101	2,162	*
23	260	585	24582171	0.60430	1,310	2,948	
24	620	305	24590946	0.87750	4,537	2,232	
25	900	675	24601741	1.07950	8,103	6,077	
26	900	758	24613093	1.13520	8,521	7,176	
27	1020	845	24625563	1.24700	10,608	8,788	
28	810	1490	24640402	1.48390	10,024	18,440	
29	1020	384	24647353	0.69510	5,913	2,226	
30	1170	1230	24659003	1.16500	11,368	11,951	
31	780	545	24669641	1.06380	6,920	4,835	
TOTAL				24.26190	211,595	168,785	
AVG.	1059	680		0.78264	6,826	5,445	

REVIEWED BY: Mike Andrews DATE: 06/07/96

APPROVED BY: Walter K Thompson DATE: 6-7-96

** Denotes 12-day BOD average due to instrument malfunction.

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD APRIL 1996
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	24173967	********	******	******
01	840	400	24181210	0.72430	5,074	2,416
02	870	490	24189682	0.84720	6,147	3,462
03	840	430	24197136	0.74540	5,222	2,673
04	870	470	24205033	0.78970	5,730	3,095
05	900	365	24212735	0.77020	5,781	2,345
06	750	1090	24222569	0.98340	6,151	8,940
07	225	612	24232876	1.03070	1,934	5,261
08	795	340	24241533	0.86570	5,740	2,455
09	750	490	24250943	0.94100	5,886	3,845
10	660	357	24259605	0.86620	4,768	2,579
11	960	385	24266975	0.73700	5,901	2,366
12	750	315	24275123	0.81480	5,097	2,141
13	1140	450	24285689	1.05660	10,046	3,965
14	572	228	24298778	1.30890	6,244	2,489
15	960	1265	24308278	0.95000	7,606	10,023
16	810	385	24317122	0.88440	5,974	2,840
17	900	805	24325382	0.82600	6,200	5,546
18	960	425	24332762	0.73800	5,909	2,616
19	990	370	24340018	0.72560	5,991	2,239
20	810	375	24348729	0.87110	5,885	2,724
21	840	385	24355710	0.69810	4,891	2,242
22	1230	720	24363404	0.76940	7,893	4,620
23	840	360	24372734	0.93300	6,536	2,801
24	685	270	24383056	1.03220	5,897	2,324
25	780	325	24389902	0.68460	4,453	1,856
26	870	290	24397235	0.73330	5,321	1,774
27	960	230	24405001	0.77660	6,218	1,490
28	990	268	24412477	0.74760	6,173	1,671
29	1170	350	24420001	0.75240	7,342	2,196
30	1050	480	24427022	0.70210	6,148	2,811
TOTAL				25.30550	178,156	97,804
AVG.	859	458		0.84352	5,939	3,260

REVIEWED BY: Mike Andrews DATE: May 13, 1996

APPROVED BY: Wally L Thompson DATE: 05-13-96

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — MARCH 1996
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	23911507	********	******	******
01	1110	950	23918718	0.72110	6,676	5,713
02	960	610	23925078	0.63600	5,092	3,236
03	1260	630	23932156	0.70780	7,438	3,719
04	1170	645	23938876	0.67200	6,557	3,615
05	1020	570	23946150	0.72740	6,188	3,458
06	990	450	23952511	0.63610	5,252	2,387
07	1410	530	23959711	0.72000	8,467	3,183
08	960	590	23967348	0.76370	6,114	3,758
09	680	730	23976789	0.94410	5,354	5,748
10	802	1008	23986466	0.96770	6,473	8,135
11	1200	1460	23997979	1.15130	11,522	14,019
12	1050	1370	24006159	0.81800	7,163	9,346
13	1080	510	24013602	0.74430	6,704	3,166
14	1230	650	24020918	0.73160	7,505	3,966
15	1170	1290	24027911	0.69930	6,824	7,523
16	1350	960	24035708	0.77970	8,779	6,243
17	1260	582	24043441	0.77330	8,126	3,754
18	900	680	24052666	0.92250	6,924	5,232
19	1320	1420	24060637	0.79710	8,775	9,440
20	1380	3160	24069547	0.89100	10,255	23,482
21	1170	3570	24080138	1.05910	10,334	31,533
22	810	2080	24091670	1.15320	7,790	20,005
23	690	1480	24100788	0.91180	5,247	11,255
24	945	1215	24109966	0.91780	7,233	9,300
25	1110	375	24119395	0.94290	8,729	2,949
26	1020	430	24128872	0.94770	8,062	3,399
27	720	395	24138415	0.95430	5,730	3,144
28	655	350	24147644	0.92290	5,042	2,694
29	750	780	24156975	0.93310	5,837	6,070
30	930	450	24164892	0.79170	6,141	2,971
31	1065	278	24173967	0.90750	8,061	2,104
TOTAL				26.24600	224,393	224,545
AVG.	1038	974		0.84665	7,238	7,243

REVIEWED BY: Mike Andrews DATE: April 16, 1996

APPROVED BY: Walter L Thompson DATE: April 17, 1996

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — FEBRUARY 1996
DAYS 29

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	23724135	********	******	******	
01	600	1280	AVG	0.68583	3,432	7,321	*
02	840	764	AVG	0.68583	4,805	4,370	*
03	1110	520	AVG	0.68583	6,349	2,974	*
04	1020	525	AVG	0.68583	5,834	3,003	*
05	1020	650	AVG	0.68583	5,834	3,718	*
06	1140	840	AVG	0.68583	6,521	4,805	*
07	1050	640	AVG	0.68583	6,006	3,661	*
08	1350	1130	23730874	0.68583	7,722	6,463	*
09	1080	820	23739398	0.85240	7,678	5,829	
10	960	640	23746684	0.72860	5,833	3,889	
11	1080	1160	23755086	0.84020	7,568	8,128	
12	1110	1500	23762993	0.79070	7,320	9,892	
13	870	470	23771603	0.86100	6,247	3,375	
14	1080	554	23777299	0.56960	5,131	2,632	
15	1080	740	23782206	0.49070	4,420	3,028	
16	930	320	23789286	0.70800	5,491	1,890	
17	720	470	23799351	1.00650	6,044	3,945	
18	915	630	23805476	0.61250	4,674	3,218	
19	1290	507	23812511	0.70350	7,569	2,975	
20	930	1180	23822019	0.95080	7,375	9,357	
21	1080	530	23829114	0.70950	6,391	3,136	
22	900	730	23838353	0.92390	6,935	5,625	
23	780	680	AVG	0.76697	4,989	4,350	*
24	990	1540	AVG	0.76697	6,333	9,851	*
25	940	620	23884257	0.76697	6,013	3,966	*
26	1110	860	23892278	0.80210	7,425	5,753	
27	960	620	23898195	0.59170	4,737	3,060	
28	900	670	23904551	0.63560	4,771	3,552	
29	1020	830	23911507	0.69560	5,917	4,815	
TOTAL				21.26045	175,362	138,580	
AVG.	995	773		0.73312	6,047	4,779	

REVIEWED BY: Mike Andrews DATE: March 11, 1996

APPROVED BY: Walter L Thompson DATE: March 11, 1996

* Denotes 12 day average for flow.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JANUARY 1996
DAYS ~~31~~

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	23520468	********	******	******	
01	1260	710	23527409	0.69410	7,294	4,110	
02	1050	440	23534613	0.72040	6,309	2,644	
03	1020	490	23540258	0.56450	4,802	2,307	
04	990	1510	23546271	0.60130	4,965	7,572	
05	1140	3210	23554986	0.87150	8,286	23,331	
06	960	740	23560444	0.54580	4,370	3,368	
07	1095	645	23568261	0.78170	7,139	4,205	
08	1140	570	23576085	0.78240	7,439	3,719	
09	1140	490	23583022	0.69370	6,595	2,835	
10	1170	720	23588792	0.57700	5,630	3,465	
11	1530	1700	23594057	0.52650	6,718	7,465	
12	1380	750	23598061	0.40040	4,608	2,505	
13	1230	930	23604773	0.67120	6.885	5,206	
14	1050	635	23609612	0.48390	4,238	2,563	
15	1050	500	23615971	0.63590	5,569	2,652	
16	1138	870	AVG	0.59247	5,623	4,299	*
17	1138	870	AVG	0.59247	5,623	4,299	*
18	1138	870	23633745	0.59247	5,623	4.299	*
19	1500	720	23639251	0.55060	6,888	3.306	
20	1530	1170	23655303	1.60520	20,483	15,663	
21	1245	375	23661733	0.64300	6,676	2,011	
22	870	1050	23666695	0.49620	3,600	4,345	
23	1260	630	23666944	0.02490	262	131	
24	1230	560	23673266	0.63220	6,485	2,953	
25	1020	695	23681149	0.78830	6,706	4,569	
26	990	890	23690263	0.91140	7,525	6,765	
27	990	685	23698044	0.77810	6,424	4,445	
28	1080	678	23704861	0.63170	6,140	3.855	
29	990	670	23709978	0.51170	4,225	2,859	
30	990	570	23716618	0.66400	5,482	3,157	
31	900	636	23724135	0.75170	5,642	3,987	
TOTAL				20.36671	194,255	148,889	
AVG.	1136	838		0.65699	6,266	4,803	

REVIEWED BY: Mike Andrews DATE: Feb 12, 1996

APPROVED BY: Walt Thompson DATE: Feb 12, 1996

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD DECEMBER 1995
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	23315810	********	******	******	
01	750	780	23324661	0.88510	5,536	5,758	
02	690	255	23334129	0.94680	5,448	2,014	
03	855	410	23342294	0.81650	5,822	2,792	
04	1080	570	23348453	0.61590	5,548	2,928	
05	989	650	23353893	0.54400	4,487	2,949	*
06	1170	290	23361187	0.72940	7,117	1,764	
07	840	230	23365480	0.42930	3,008	823	
08	1050	670	23371695	0.62150	5,442	3,473	
09	900	195	23377467	0.57720	4,332	939	
10	900	285	23382779	0.53120	3,987	1,263	
11	1200	585	23387565	0.47860	4,790	2,335	
12	960	600	23393739	0.61740	4,943	3,089	
13	1170	460	23400008	0.62690	6,117	2,405	
14	1200	610	23405941	0.59330	5,938	3,018	
15	1260	420	23411826	0.58850	6,184	2,061	
16	1110	1390	23419598	0.77720	7,195	9,010	
17	1065	595	23426055	0.64570	5,735	3,204	
18	1080	735	23432630	0.65750	5,922	4,030	
19	900	470	23439188	0.65580	4,922	2,571	
20	1080	400	23446289	0.71010	6,396	2,369	
21	960	490	23454624	0.83350	6,673	3,406	
22	1170	1020	23464955	1.03310	10,081	8,788	
23	780	1260	23475592	1.06370	6,920	11,178	
24	200	145	AVG	0.35505	592	429	#
25	200	145	23482693	0.35505	592	429	#
26	720	990	23487770	0.50770	3,049	4,192	
27	1080	620	23493644	0.58740	5,291	3,037	
28	1080	560	23500166	0.65220	5,874	3,046	
29	1080	525	23507439	0.72730	6,551	3,184	
30	1290	580	23513457	0.60180	6,475	2,911	
31	1260	500	23520468	0.70110	7,367	2,924	
TOTAL				20.46580	168,336	102,320	
AVG.	970	562		0.66019	5,430	3,301	

REVIEWED BY: Mike Andrews DATE: Jan 8, 1996

APPROVED BY: Walt Kompson DATE: Jan 8, 1996

# Denotes a 2-Day composite sample.
* Denotes 12 day average for BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — NOVEMBER 1995 — # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	23121886	********	******	******	
01	1110	530	23130320	0.84340	7,808	3,728	
02	1290	570	23136537	0.62170	6,689	2,955	
03	962	579	23144954	0.84170	6,753	4,064	*
04	1200	970	23153089	0.81350	8,142	6,581	
05	1050	1375	23165468	1.23790	10,840	14,196	
06	1024	676	23170939	0.54710	4,672	3,084	*
07	930	650	23176525	0.55860	4,333	3,028	
08	930	640	23181665	0.51400	3,987	2,744	
09	1170	535	23187430	0.57650	5,625	2,572	
10	1170	575	23192781	0.53510	5,221	2,566	
11	1350	615	23198122	0.53410	6,013	2,739	
12	1560	517	23203216	0.50940	6,627	2,196	
13	1260	570	23208568	0.53520	5,624	2,544	
14	1050	450	23215087	0.65190	5,709	2,447	
15	1020	430	23222521	0.74340	6,324	2,666	
16	1080	1010	23228425	0.59040	5,318	4,973	
17	1050	410	23236588	0.81630	7,148	2,791	
18	1140	630	23243483	0.68950	6,555	3,623	
19	1170	1116	23250735	0.72520	7,076	6,750	
20	1080	600	23256352	0.56170	5,059	2,811	
21	810	570	23261480	0.51280	3,464	2,438	
22	840	690	23267864	0.63840	4,472	3,674	
23	960	830	23273489	0.56250	4,504	3,894	
24	990	500	23279026	0.55370	4,572	2,309	
25	990	540	23284079	0.50530	4,172	2,276	
26	1365	635	23289625	0.55460	6,314	2,937	
27	1140	410	23296420	0.67950	6,460	2,323	
28	900	530	23303205	0.67850	5,093	2,999	
29	930	520	23309963	0.67580	5,242	2,931	
30	1290	550	23315810	0.58470	6,291	2,682	
TOTAL				19.39240	176,108	107,522	
AVG.	1094	641		0.64641	5,870	3,584	

REVIEWED BY: Mike Andrews DATE: Dec 12, 1995

APPROVED BY: Walter E Thompson DATE: Dec 13, 1995

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — OCTOBER 1995 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	22894684	********	******	******	
01	1140	570	22900934	0.62500	5,942	2,971	
02	1380	1040	22904882	0.39480	4,544	3,424	
03	1200	710	22910630	0.57480	5,753	3,404	
04	720	400	22916641	0.60110	3,609	2,005	
05	1070	757	AVG	0.56413	5,034	3,562	*
06	1070	757	AVG	0.56413	5,034	3,562	*
07	1070	757	22933565	0.56413	5,034	3,562	*
08	930	230	22944274	1.07090	8,306	2,054	
09	610	240	22956287	1.20130	6,111	2,405	
10	750	500	22963726	0.74390	4,653	3,102	
11	900	610	22971241	0.75150	5,641	3,823	
12	1500	570	22978397	0.71560	8,952	3,402	
13	1650	710	22983776	0.53790	7,402	3,185	
14	1440	700	22989610	0.58340	7,006	3,406	
15	1215	550	22996005	0.63950	6,480	2,933	
16	870	460	23006066	1.00610	7,300	3,860	
17	1080	700	23012484	0.64180	5,781	3,747	
18	720	650	23020330	0.78460	4,711	4,253	
19	705	1820	23027450	0.71200	4,186	10,807	
20	930	390	23034579	0.71290	5,529	2,319	
21	690	180	23041776	0.71970	4,142	1,080	
22	735	435	23048472	0.66960	4,105	2,429	
23	900	660	23054949	0.64770	4,862	3,565	
24	1020	570	23061143	0.61940	5,269	2,945	
25	1050	660	23067426	0.62830	5,502	3,458	
26	1140	560	23073760	0.63340	6,022	2,958	
27	1020	560	23082133	0.83730	7,123	3,911	
28	280	1100	23092186	1.00530	2,348	9,223	
29	545	500	23106805	1.46190	6,645	6,096	
30	930	440	23115143	0.83380	6,467	3,060	
31	1170	740	23121886	0.67430	6,580	4,162	
TOTAL				22.72019	176,074	114,672	
AVG.	982	630		0.73291	5,680	3,699	

REVIEWED BY: Mike Anderson DATE: Nov. 9, 1995

APPROVED BY: Walter L Thompson DATE: Nov. 12, 1995

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — SEPTEMBER 1995 — # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	22666907	********	******	******
01	1110	420	22673624	0.67170	6,218	2,353
02	1110	740	22680690	0.70660	6,541	4,361
03	1290	490	22687792	0.71020	7,641	2,902
04	1110	480	22695005	0.72130	6,677	2,888
05	1230	390	22701725	0.67200	6,894	2,186
06	1050	630	22709231	0.75060	6,573	3,944
07	1020	2850	22719860	1.06290	9,042	25,264
08	655	1150	22728347	0.84870	4,636	8,140
09	870	750	22736099	0.77520	5,625	4,849
10	915	770	22742631	0.65320	4,985	4,195
11	1590	450	22750784	0.81530	10,811	3,060
12	1050	620	22757916	0.71320	6,245	3,688
13	900	500	22764026	0.61100	4,586	2,548
14	1140	240	22771641	0.76150	7,240	1,524
15	1200	510	22778517	0.68760	6,882	2,925
16	1080	1230	22786744	0.82270	7,410	8,439
17	1050	520	22794393	0.76490	6,698	3,317
18	960	620	22802323	0.79300	6,349	4,100
19	1080	450	22809972	0.76490	6,890	2,871
20	990	380	22817256	0.72840	6,014	2,308
21	590	1180	22826391	0.91350	4,495	8,990
22	870	800	22836524	1.01330	7,352	6,761
23	960	570	22843018	0.64940	5,199	3,087
24	945	580	22849649	0.66310	5,226	3,208
25	1020	530	22859865	1.02160	8,691	4,516
26	960	1060	22866955	0.70900	5,677	6,268
27	1110	770	22873348	0.63930	5,918	4,105
28	1140	1060	22880504	0.71560	6,804	6,326
29	1140	680	22887654	0.71500	6,798	4,055
30	1080	1250	22894684	0.70300	6,332	7,329
TOTAL				22.77770	196,449	150,505
AVG.	1041	756		0.75926	6,548	5,017

REVIEWED BY: Mike Andrews DATE: Oct 10, 1995

APPROVED BY: Walter L Thompson DATE: Oct 12, 1995

* Denotes 12 day average for Suspended Solids and BOD.

[illegible]

DATE	BOD mg/l	SS mg/l	FLOW READING	FLOW GD	COD Lbs	SS Lbs
PREV	******	******	22405714	******	******	******
01	1230	670	22411662	0.59480	[illegible]	[illegible]
02	780	370	22418792	0.71300	[illegible]	[illegible]
03	1200	500	2242496	0.61690	[illegible]	[illegible]
04	1350	510	22430663	0.57020	[illegible]	[illegible]
05	1380	440	22436660	0.59970	[illegible]	[illegible]
06	1320	620	22443872	0.72120	[illegible]	3,729
07	1380	470	22451[illegible]07	[illegible]	[illegible]	[illegible]
08	1230	640	22457620	[illegible]	[illegible]	3,370
09	1380	590	22505553	0.57764	[illegible]	2,[illegible] *
10	1110	590	22514395	0.88420	8,185	4,351
11	600	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	990	440	[illegible]	[illegible]	[illegible]	[illegible]
13	1065	490	[illegible]	[illegible]	[illegible]	[illegible]
14	1260	410	[illegible]	[illegible]	[illegible]	2,[illegible]
15	600	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	1170	400	[illegible]	[illegible]	[illegible]	2,469
17	1080	440	22571557	0.72600	6,53[illegible]	2,664
18	685	3880	22575832	0.42750	2,442	[illegible],334
19	340	1560	22581607	0.57750	1,633	7,514
20	900	2060	22589797	0.81900	6,147	14,071
21	990	370	22596045	0.62510	[illegible]	[illegible],929
22	1140	560	22601814	0.57660	[illegible],482	2,693
23	1080	550	22612049	1.02350	[illegible]	[illegible]
24	1290	640	22618791	0.67420	[illegible]	3,599
25	1230	680	22625644	0.68530	7,030	[illegible],886
26	1320	[illegible]	22632891	0.72470	[illegible]	3,[illegible]
27	1260	560	22638928	0.60370	[illegible]	2,520
28	1410	430	22644610	0.58820	[illegible]	[illegible]
29	930	770	22655019	[illegible]2090	[illegible]	[illegible]
30	1080	760	22659985	0.49660	[illegible]	[illegible],148
31	720	520	22666907	[illegible]	[illegible]	[illegible]
TOTAL				[illegible]	[illegible]	[illegible]
AVG.	1081	715		0.70657	[illegible]	[illegible]

REVIEWED BY: Mike Andrews DATE Sept 11, 1995

APPROVED BY: [illegible] Thompson DATE: Sept 11 1995

** Denotes a 12 day average for flow

* Denotes 12 day average for COD and [illegible]

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JULY 1995
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	22192311	********	******	******
01	1080	700	22199719	0.74080	6,673	4,325
02	1050	640	22206283	0.65640	5,748	3,504
03	1140	1460	22213368	0.70850	6,736	8,627
04	990	3040	22221021	0.76530	6,319	19,403
05	1020	960	22227640	0.66190	5,631	5,299
06	1260	880	22234301	0.66610	7,000	4,889
07	1050	650	22241882	0.75810	6,639	4,110
08	1050	347	22248814	0.69320	6,070	2,006
09	900	335	22255853	0.70390	5,283	1,967
10	900	513	22262810	0.69570	5,222	2,976
11	750	320	22269621	0.68110	4,260	1,818
12	1170	720	22276577	0.69560	6,788	4,177
13	990	610	22282710	0.61330	5,064	3,120
14	960	1140	22289016	0.63060	5,049	5,995
15	1110	770	22296207	0.71910	6,657	4,618
16	870	380	22304101	0.78940	5,728	2,502
17	1140	870	22311780	0.76790	7,301	5,572
18	960	770	22318906	0.71260	5,705	4,576
19	1410	750	22326589	0.76830	9,035	4,806
20	1200	950	22332875	0.62860	6,291	4,980
21	1230	1340	22339644	0.67690	6,944	7,565
22	1110	830	22347434	0.77900	7,212	5,392
23	1095	600	22353320	0.58860	5,375	2,945
24	1410	660	22360121	0.68010	7,998	3,744
25	1440	1620	22366943	0.68220	8,193	9,217
26	1440	990	22373486	0.65430	7,858	5,402
27	1290	620	22380894	0.74080	7,970	3,831
28	1080	520	22386395	0.55010	4,955	2,386
29	1560	1140	22392842	0.64470	8,388	6,130
30	1320	680	22399688	0.68460	7,537	3,883
31	1470	470	22405714	0.60260	7,388	2,362
TOTAL				21.34030	203,013	152,125
AVG.	1143	848		0.68840	6,549	4,907

REVIEWED BY: Mike Andrews DATE: Aug 8, 1995

APPROVED BY: Walter L Thompson DATE: Aug. 14, 1995

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JUNE 1995
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	21985425	********	******	******
01	1110	750	21990982	0.55570	5,144	3,476
02	1050	740	21996422	0.54400	4,764	3,357
03	840	1640	22002296	0.58740	4,115	8,034
04	1065	1170	22008495	0.61990	5,506	6,049
05	810	1000	22015367	0.68720	4,642	5,731
06	670	1180	22021189	0.58220	3,253	5,730
07	770	800	22028627	0.74380	4,777	4,963
08	675	490	22035785	0.71580	4,030	2,925
09	550	470	22046069	1.02840	4,717	4,031
10	660	610	22053741	0.76720	4,223	3,903
11	885	745	22059869	0.61280	4,523	3,808
12	930	720	22067039	0.71700	5,561	4,305
13	1110	660	22073223	0.61840	5,725	3,404
14	1140	800	22079029	0.58060	5,520	3,874
15	1230	930	22085579	0.65500	6,719	5,080
16	1200	820	22091609	0.60300	6,035	4,124
17	1440	2050	22099022	0.74130	8,903	12,674
18	1020	910	22106540	0.75180	6,395	5,706
19	1110	950	22113331	0.67910	6,287	5,381
20	1110	510	22119460	0.61290	5,674	2,607
21	1200	510	22125414	0.59540	5,959	2,532
22	960	490	22132441	0.70270	5,626	2,872
23	840	670	22138704	0.62630	4,388	3,500
24	1020	820	22146194	0.74900	6,372	5,122
25	855	690	22154506	0.83120	5,927	4,783
26	1080	710	22161152	0.66460	5,986	3,935
27	1110	560	22168404	0.72520	6,713	3,387
28	900	450	22176951	0.85470	6,415	3,208
29	960	650	22184252	0.73010	5,845	3,958
30	960	570	22192311	0.80590	6,452	3,831
TOTAL				20.68860	166,197	136,289
AVG.	975	802		0.68962	5,540	4,543

REVIEWED BY: Mike Andrews DATE: July 11, 1995

APPROVED BY: Walter F. Thompson DATE: July 13, 1995

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD MAY 1995
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	21806807	********	******	******	
01	1020	620	21814117	0.73100	6,218	3,780	
02	1200	980	21820013	0.58960	5,901	4,819	
03	960	460	21827898	0.78850	6,313	3,025	
04	1020	460	21833451	0.55530	4,724	2,130	
05	1080	780	21838624	0.51730	4,659	3,365	
06	1170	730	21844313	0.56890	5,551	3,464	
07	960	1065	21849624	0.53110	4,252	4,717	
08	1110	790	21855039	0.54150	5,013	3,568	
09	720	330	21860753	0.57140	3,431	1,573	
10	990	310	21867485	0.67320	5,558	1,740	
11	990	790	21873883	0.63980	5,283	4,215	
12	930	330	21880008	0.61250	4,751	1,686	
13	690	170	21884097	0.40890	2,353	580	
14	625	3550	21894394	1.02970	5,367	30,486	
15	200	1400	21900700	0.63060	1,052	7,363	
16	200	220	21903394	0.26940	449	494	
17	200	290	21905794	0.24000	400	580	
18	742	626	21907387	0.15930	986	832	*
19	480	1880	21916017	0.86300	3,455	13,531	
20	440	1740	21923671	0.76540	2,809	11,107	
21	600	1490	21928666	0.49950	2,499	6,207	
22	870	880	21934271	0.56050	4,067	4,114	
23	930	500	21938487	0.42160	3,270	1,758	
24	900	870	21944574	0.60870	4,569	4,417	
25	960	680	21949909	0.53350	4,271	3,026	
26	775	700	21956792	0.68830	4,449	4,018	
27	690	620	21962614	0.58220	3,350	3,010	
28	675	505	21967413	0.47990	2,702	2,021	
29	1050	450	21973376	0.59630	5,222	2,238	
30	810	510	21979375	0.59990	4,053	2,552	
31	1350	750	21985425	0.60500	6,812	3,784	
TOTAL				17.86180	123,789	140,200	
AVG.	817	822		0.57619	3,993	4,523	

REVIEWED BY: Mike Andrews DATE: June 13, 1995

APPROVED BY: Walter K Thompson DATE: June 14, 1995

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD APRIL 1995
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	21614913	********	******	******
01	870	210	21621309	0.63960	4,641	1,120
02	975	300	21627701	0.63920	5,198	1,599
03	810	240	21634192	0.64910	4,385	1,299
04	990	350	21641799	0.76070	6,281	2,220
05	750	540	21647721	0.59220	3,704	2,667
06	990	510	21654445	0.67240	5,552	2,860
07	1080	610	21661421	0.69760	6,283	3,549
08	720	620	21668495	0.70740	4,248	3,658
09	975	650	21675422	0.69270	5,633	3,755
10	990	920	21682663	0.72410	5,979	5,556
11	840	500	21688177	0.55140	3,863	2,299
12	750	550	21694262	0.60850	3,806	2,791
13	850	540	21701771	0.75090	5,323	3,382
14	800	570	21707934	0.61630	4,112	2,930
15	720	700	21714509	0.65750	3,948	3,838
16	960	485	21721438	0.69290	5,548	2,803
17	720	540	21727982	0.65440	3,930	2,947
18	990	760	21733876	0.58940	4,866	3,736
19	900	570	21738660	0.47840	3,591	2,274
20	900	960	21744376	0.57160	4,290	4,576
21	780	990	21751562	0.71860	4,675	5,933
22	660	640	21756264	0.47020	2,588	2,510
23	945	585	21763142	0.68780	5,421	3,356
24	780	580	21769289	0.61470	3,999	2,973
25	990	570	21775711	0.64220	5,302	3,053
26	1080	490	21781677	0.59660	5,374	2,438
27	1170	340	21787774	0.60970	5,949	1,729
28	1050	660	21793446	0.56720	4,967	3,122
29	1080	720	21799248	0.58020	5,226	3,484
30	915	675	21806807	0.75590	5,768	4,255
TOTAL				19.18940	144,449	92,714
AVG.	901	579		0.63965	4,815	3,090

REVIEWED BY: Mike Andrews DATE: 05/12/95

APPROVED BY: Walter K Thompson DATE: 05/15/95

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — MARCH 1995 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	21401836	********	******	******	
01	675	480	21411014	0.91780	5,167	3,674	
02	360	280	21418432	0.74180	2,227	1,732	
03	575	470	21424865	0.64330	3,085	2,522	
04	595	610	21431866	0.70010	3,474	3,562	
05	588	405	21438012	0.61460	3,014	2,076	
06	695	230	21444814	0.68020	3,943	1,305	
07	720	260	21451399	0.65850	3,954	1,428	
08	690	290	21458101	0.67020	3,857	1,621	
09	580	480	21463826	0.57250	2,769	2,292	
10	745	260	21470783	0.69570	4,323	1,509	
11	710	220	21476254	0.54710	3,240	1,004	
12	725	300	21483165	0.69110	4,179	1,729	
13	930	290	21490346	0.71810	5,570	1,737	
14	662	326	21497894	0.75480	4,167	2,052	*
15	662	326	21505415	0.75210	4,152	2,045	*
16	662	326	21511474	0.60590	3,345	1,647	*
17	900	290	21518706	0.72320	5,428	1,749	
18	700	460	21523703	0.49970	2,917	1,917	
19	662	326	21531264	0.75610	4,174	2,056	*
20	915	310	21537502	0.62380	4,760	1,613	
21	990	430	21543266	0.57640	4,759	2,067	
22	870	300	21550170	0.69040	5,009	1,727	
23	615	530	21556579	0.64090	3,287	2,833	
24	705	1190	21562150	0.55710	3,276	5,529	
25	810	1150	21570145	0.79950	5,401	7,668	
26	640	1635	21577668	0.75230	4,015	10,258	
27	630	390	21585034	0.73660	3,870	2,396	
28	680	390	21592436	0.74020	4,198	2,408	
29	900	720	21599882	0.74460	5,589	4,471	
30	960	540	21607774	0.78920	6,319	3,554	
31	870	500	21614913	0.71390	5,180	2,977	
TOTAL				21.30770	128,649	85,157	
AVG.	723	475		0.68735	4,150	2,747	

REVIEWED BY: Mike Andrews DATE: 04/10/95

APPROVED BY: Walter L Thompson DATE: 04/11/95

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — FEBRUARY 1995
DAYS 28

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	21232116	********	******	******	
01	778	732	21238330	0.62140	4,032	3,794	*
02	755	730	21244431	0.61010	3,842	3,714	
03	675	700	21251429	0.69980	3,940	4,085	
04	735	820	21256863	0.54340	3,331	3,716	
05	744	746	21262567	0.57040	3,539	3,549	*
06	744	746	21268074	0.55070	3,417	3,426	*
07	744	746	21275785	0.77110	4,785	4,798	*
08	744	746	21281834	0.60490	3,753	3,763	*
09	710	720	21287551	0.57170	3,385	3,433	
10	740	746	21294929	0.73780	4,553	4,590	*
11	800	790	21299774	0.48450	3,233	3,192	
12	790	810	21306412	0.66380	4,374	4,484	
13	810	1100	21312032	0.56200	3,797	5,156	
14	1020	850	21317093	0.50610	4,305	3,588	
15	720	580	21322516	0.54230	3,256	2,623	
16	695	660	21327350	0.48340	2,802	2,661	
17	695	560	21333140	0.57900	3,356	2,704	
18	840	550	21337913	0.47730	3,344	2,189	
19	592	475	21347638	0.97250	4,802	3,853	
20	680	500	21352471	0.48330	2,741	2,015	
21	700	700	21358290	0.58190	3,397	3,397	
22	695	430	21364830	0.65400	3,791	2,345	
23	460	500	21371473	0.66430	2,549	2,770	
24	540	470	21377882	0.64090	2,886	2,512	
25	725	660	21382040	0.41580	2,514	2,289	
26	660	835	21389302	0.72620	3,997	5,057	
27	810	620	21395963	0.66610	4,500	3,444	
28	840	650	21401836	0.58730	4,114	3,184	
TOTAL				16.97200	102,334	96,333	
AVG.	730	685		0.60614	3,655	3,440	

REVIEWED BY: Mike Andrews DATE: March 6, 1995

APPROVED BY: Walter L Thompson DATE: March 7, 1995

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — JANUARY 1995 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	21040405	********	******	******
01	810	610	21047160	0.67550	4,563	3,437
02	810	490	21054313	0.71530	4,832	2,923
03	855	605	21060833	0.65200	4,649	3,290
04	960	690	21067442	0.66090	5,291	3,803
05	720	430	21072874	0.54320	3,262	1,948
06	775	820	21080062	0.71880	4,646	4,916
07	700	540	21087953	0.78910	4,607	3,554
08	772	830	21095913	0.79600	5,125	5,510
09	1080	790	21100513	0.46000	4,143	3,031
10	1020	730	21106527	0.60140	5,116	3,661
11	750	660	21114589	0.80620	5,043	4,438
12	720	630	21119195	0.46060	2,766	2,420
13	510	680	21125107	0.59120	2,515	3,353
14	630	720	21131155	0.60480	3,178	3,632
15	700	435	21137929	0.67740	3,955	2,458
16	630	670	21144655	0.67260	3,534	3,758
17	810	720	21150532	0.58770	3,970	3,529
18	840	800	21156694	0.61620	4,317	4,111
19	1110	860	21161197	0.45030	4,169	3,230
20	790	680	21168233	0.70360	4,636	3,990
21	820	640	21174036	0.58030	3,969	3,097
22	930	785	21178550	0.45140	3,501	2,955
23	750	720	21183787	0.52370	3,276	3,145
24	900	840	21190279	0.64920	4,873	4,548
25	675	710	21196227	0.59480	3,348	3,522
26	600	780	21201748	0.55210	2,763	3,592
27	715	640	21207417	0.56690	3,380	3,026
28	805	770	21213445	0.60280	4,047	3,871
29	678	745	21218049	0.46040	2,603	2,861
30	780	650	21225103	0.70540	4,589	3,824
31	870	1670	21232116	0.70130	5,088	9,768
TOTAL				19.17110	125,753	115,199
AVG.	791	721		0.61842	4,057	3,716

REVIEWED BY: Mike Andrews DATE: Feb 7, 1995

APPROVED BY: Wally L Thompson DATE: Feb. 7, 1995

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD DECEMBER 1994
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	20848766	********	******	******	
01	1080	990	20853803	0.50370	4,537	4,159	
02	870	1360	20860952	0.71490	5,187	8,109	
03	720	1000	20867442	0.64900	3,897	5,413	
04	832	1095	20874434	0.69920	4,852	6,385	
05	840	850	20880599	0.61650	4,319	4,370	
06	1050	1290	20886672	0.60730	5,318	6,534	
07	948	1095	20893779	0.71070	5,619	6,490	*
08	765	1000	20899923	0.61440	3,920	5,124	
09	750	770	20907064	0.71410	4,467	4,586	
10	1530	730	20912292	0.52280	6,671	3,183	
11	660	880	20918905	0.66130	3,640	4,853	
12	990	1190	20924455	0.55500	4,582	5,508	
13	904	993	20931129	0.66740	5,032	5,527	*
14	904	993	20938139	0.70100	5,285	5,805	*
15	1110	610	20942115	0.39760	3,681	2,023	
16	930	620	20947994	0.58790	4,560	3,040	
17	720	810	20954403	0.64090	3,848	4,330	
18	870	690	20959879	0.54760	3,973	3,151	
19	990	540	20964446	0.45670	3,771	2,057	
20	840	815	20973082	0.86360	6,050	5,870	*
21	915	1295	20978727	0.56450	4,308	6,097	
22	930	790	20985863	0.71360	5,535	4,702	
23	540	1790	20993155	0.72920	3,284	10,886	
24	896	838	AVG	0.40080	2,995	2,801	*
25	896	838	21001171	0.40080	2,995	2,801	*
26	896	838	21008079	0.69080	5,162	4,828	*
27	690	710	21013216	0.51370	2,956	3,042	
28	885	850	21019836	0.66200	4,886	4,693	
29	780	690	21025815	0.59790	3,889	3,441	
30	600	610	21033820	0.80050	4,006	4,072	
31	1020	620	21040405	0.65850	5,602	3,405	
TOTAL				19.16390	138,827	147,284	
AVG.	882	909		0.61819	4,478	4,751	

REVIEWED BY: Mike Andrews DATE: Jan 11, 1995

APPROVED BY: [signature] DATE: Jan. 11, 1995

* Denotes 12 day average for Suspended Solids AND BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD NOVEMBER 1994
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	20654596	********	******	******
01	780	860	20662119	0.75230	4,894	5,396
02	658	760	20668879	0.67600	3,710	4,285
03	1020	1050	20676808	0.79290	6,745	6,943
04	1050	850	20684050	0.72420	6,342	5,134
05	780	740	20691740	0.76900	5,002	4,746
06	750	880	20698194	0.64540	4,037	4,737
07	1080	1690	20704309	0.61150	5,508	8,619
08	990	860	20711050	0.67410	5,566	4,835
09	1020	1560	20715677	0.46270	3,936	6,020
10	750	590	20721153	0.54760	3,425	2,695
11	730	690	20727421	0.62680	3,816	3,607
12	750	780	20734654	0.72330	4,524	4,705
13	1110	875	20740328	0.56740	5,253	4,141
14	1170	1110	20745707	0.53790	5,249	4,980
15	2010	1060	20751628	0.59210	9,926	5,234
16	1350	890	20756922	0.52940	5,961	3,930
17	1050	620	20763731	0.68090	5,963	3,521
18	1200	470	20769697	0.59660	5,971	2,339
19	1050	820	20776433	0.67360	5,899	4,607
20	840	730	20783781	0.73480	5,148	4,474
21	960	640	20789367	0.55860	4,472	2,982
22	1080	810	20795986	0.66190	5,962	4,471
23	930	710	20803702	0.77160	5,985	4,569
24	930	1240	20808649	0.49470	3,837	5,116
25	1260	1140	20814067	0.54180	5,693	5,151
26	1230	1280	20821128	0.70610	7,243	7,538
27	750	1300	20827120	0.59920	3,748	6,497
28	720	570	20836993	0.98730	5,929	4,693
29	960	1140	20841752	0.47590	3,810	4,525
30	1155	865	20848766	0.70140	6,756	5,060
TOTAL				19.41700	160,308	145,546
AVG.	1004	919		0.64723	5,344	4,852

REVIEWED BY: Mike Andrews DATE: Dec 7, 1994

APPROVED BY: Walter L Thompson DATE: Dec 7, 1994

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — OCTOBER 1994 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	20463378	********	******	******
01	1140	730	20470000	0.66220	6,296	4,032
02	1170	835	20475549	0.55490	5,415	3,864
03	1440	1170	20480964	0.54150	6,503	5,284
04	1200	1040	20486027	0.50630	5,067	4,391
05	1620	690	20490674	0.46470	6,278	2,674
06	1230	580	20496462	0.57880	5,937	2,800
07	1470	620	20503168	0.67060	8,221	3,468
08	1170	570	20509109	0.59410	5,797	2,824
09	1320	710	20515258	0.61490	6,769	3,641
10	1290	990	20519632	0.43740	4,706	3,611
11	1425	405	20526299	0.66670	7,923	2,252
12	1350	480	20531905	0.56060	6,312	2,244
13	1530	890	20538135	0.62300	7,950	4,624
14	1320	660	20544350	0.62150	6,842	3,421
15	1320	720	20550569	0.62190	6,846	3,734
16	1110	880	20557834	0.72650	6,726	5,332
17	1215	525	20563530	0.56960	5,772	2,494
18	900	990	20569161	0.56310	4,227	4,649
19	1320	920	20575708	0.65470	7,207	5,023
20	960	810	20581808	0.61000	4,884	4,121
21	1050	1010	20588255	0.64470	5,646	5,431
22	1020	920	20594798	0.65430	5,566	5,020
23	1110	950	20599659	0.48610	4,500	3,851
24	1230	690	20605491	0.58320	5,983	3,356
25	990	580	20611350	0.58590	4,838	2,834
26	960	690	20619208	0.78580	6,291	4,522
27	870	340	20626755	0.75470	5,476	2,140
28	960	780	20633161	0.64060	5,129	4,167
29	930	900	20640994	0.78330	6,075	5,879
30	930	790	20647179	0.61850	4,797	4,075
31	930	910	20654596	0.74170	5,753	5,629
TOTAL				19.12180	185,732	121,390
AVG.	1177	767		0.61683	5,991	3,916

REVIEWED BY: Mike Andrews DATE: Nov 8, 1994

APPROVED BY: Walter L Thompson DATE: 11-08-94

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD SEPTEMBER 1994
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	20262228	********	******	******
01	960	350	20268813	0.65850	5,272	1,922
02	1080	610	20275594	0.67810	6,108	3,450
03	1080	310	20280853	0.52590	4,737	1,360
04	1020	700	20287279	0.64260	5,466	3,751
05	1020	610	20295229	0.79500	6,763	4,044
06	1110	770	20302858	0.76290	7,062	4,899
07	1020	630	20308645	0.57870	4,923	3,041
08	870	540	20315208	0.65630	4,762	2,956
09	900	600	20322246	0.70380	5,283	3,522
10	960	730	20328616	0.63700	5,100	3,878
11	975	2605	20337516	0.89000	7,237	19,336
12	870	660	20345107	0.75910	5,508	4,178
13	960	410	20351747	0.66400	5,316	2,270
14	870	530	20358052	0.63050	4,575	2,787
15	840	350	20363567	0.55150	3,864	1,610
16	930	1200	20370869	0.73020	5,664	7,308
17	1050	580	20376289	0.54200	4,746	2,622
18	870	580	20382895	0.66060	4,793	3,195
19	1320	830	20388098	0.52030	5,728	3,602
20	1410	750	20393590	0.54920	6,458	3,435
21	1170	730	20399833	0.62430	6,092	3,801
22	1110	680	20404934	0.51010	4,722	2,893
23	1230	840	20410961	0.60270	6,183	4,222
24	1230	960	20416508	0.55470	5,690	4,441
25	1320	940	20421929	0.54210	5,968	4,250
26	1425	975	20427151	0.52220	6,206	4,246
27	870	660	20436928	0.97770	7,094	5,382
28	900	680	20445724	0.87960	6,602	4,988
29	810	340	20457150	1.14260	7,719	3,240
30	1080	860	20463378	0.62280	5,610	4,467
TOTAL				20.11500	171,251	125,097
AVG.	1042	734		0.67050	5,708	4,170

REVIEWED BY: Mike Andrews DATE: Oct 7, 1994

APPROVED BY: Wally L Thompson DATE: Oct 10, 1994

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD AUGUST 1994
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	20038156	********	******	******	
01	1095	570	20044995	0.68390	6,246	3,251	
02	870	620	20052971	0.79760	5,787	4,124	
03	870	530	20061036	0.80650	5,852	3,565	
04	909	550	20068316	0.72800	5,519	3,339	*
05	960	420	20075534	0.72180	5,779	2,528	
06	930	440	20081858	0.63240	4,905	2,321	
07	810	440	20089446	0.75880	5,126	2,784	
08	1290	510	20097470	0.80240	8,633	3,413	
09	780	590	20104152	0.66820	4,347	3,288	
10	720	850	20112001	0.78490	4,713	5,564	
11	960	1030	20119423	0.74220	5,942	6,376	
12	840	565	20127722	0.82990	5,814	3,911	
13	870	760	20134674	0.69520	5,044	4,406	
14	1050	2320	20142915	0.82410	7,217	15,945	
15	1110	490	20151150	0.82350	7,623	3,365	
16	1110	900	20159087	0.79370	7,348	5,958	
17	1140	480	20167046	0.79590	7,567	3,186	
18	1170	430	20174051	0.70050	6,835	2,512	
19	990	420	20181260	0.72090	5,952	2,525	
20	870	2730	20188116	0.68560	4,975	15,610	
21	200	890	20190450	0.23340	389	1,732	
22	855	1040	20195965	0.55150	3,933	4,783	
23	1260	650	20202669	0.67040	7,045	3,634	
24	695	370	20216669	1.40000	8,115	4,320	
25	810	500	20222150	0.54810	3,703	2,286	
26	1050	560	20228737	0.65870	5,768	3,076	
27	1050	1180	20234796	0.60590	5,306	5,963	
28	960	875	20240995	0.61990	4,963	4,524	
29	1020	360	20247517	0.65220	5,548	1,958	
30	1200	540	20254526	0.70090	7,015	3,157	
31	1140	1040	20262228	0.77020	7,323	6,680	
TOTAL				22.40720	180,331	140,086	
AVG.	954	763		0.72281	5,817	4,519	

REVIEWED BY: Mike Andrews DATE: Sept 7, 1994

APPROVED BY: Wally L Thompson DATE: Sept-8, 1994

* Denotes 12 day average for BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JULY 1994
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	19804437	********	******	******	
01	780	440	19812988	0.85510	5,563	3,138	
02	840	1500	19820789	0.78010	5,465	9,759	
03	870	750	19827749	0.69600	5,050	4,353	
04	930	325	19835456	0.77070	5,978	2,089	
05	1050	390	19842969	0.75130	6,579	2,444	
06	1245	520	19849983	0.70140	7,283	3,042	
07	1080	270	19857825	0.78420	7,063	1,766	
08	960	380	19866378	0.85530	6,848	2,711	
09	625	260	19874739	0.83610	4,358	1,813	
10	780	440	19883002	0.82630	5,375	3,032	
11	810	665	19890530	0.75280	5,085	4,175	
12	810	780	19897033	0.65030	4,393	4,230	
13	1080	750	19905090	0.80570	7,257	5,040	
14	1170	560	19911735	0.66450	6,484	3,103	
15	930	390	19919377	0.76420	5,927	2,486	
16	930	470	19926815	0.74380	5,769	2,916	
17	915	1755	19934346	0.75310	5,747	11,023	
18	900	620	19941309	0.69630	5,226	3,600	
19	870	410	19949129	0.78200	5,674	2,674	
20	900	445	19956807	0.76780	5,763	2,850	
21	990	1890	19962791	0.59840	4,941	9,432	
22	900	380	19970236	0.74450	5,588	2,359	
23	750	480	19977981	0.77450	4,844	3,100	
24	870	370	19986385	0.84040	6,098	2,593	
25	840	650	19992794	0.64090	4,490	3,474	
26	990	640	20000687	0.78930	6,517	4,213	
27	900	360	20008341	0.76540	5,745	2,298	
28	990	500	20015128	0.67870	5,604	2,830	
29	908	625	20022812	0.76840	5,819	4,005	*
30	908	625	20030114	0.73020	5,530	3,806	*
31	870	1040	20038156	0.80420	5,835	6,975	
TOTAL				23.37190	177,899	121,331	
AVG.	916	635		0.75393	5,739	3,914	

REVIEWED BY: Mike Andrews DATE: Aug 9, 1994

APPROVED BY: Walter L Thompson DATE: Aug 9, 1994

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JUNE 1994
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	19574571	********	******	******
01	600	520	19581578	0.70070	3,506	3,039
02	960	540	19588142	0.65640	5,255	2,956
03	750	440	19596404	0.82620	5,168	3,032
04	675	580	19605556	0.91520	5,152	4,427
05	638	1060	19614296	0.87400	4,650	7,727
06	600	350	19623725	0.94290	4,718	2,752
07	660	280	19632584	0.88590	4,876	2,069
08	960	450	19641539	0.89550	7,170	3,361
09	1050	430	19649852	0.83130	7,280	2,981
10	930	600	19656086	0.62340	4,835	3,119
11	990	470	19663508	0.74220	6,128	2,909
12	810	400	19670598	0.70900	4,790	2,365
13	720	600	19679378	0.87800	5,272	4,394
14	690	230	19685794	0.64160	3,692	1,231
15	825	520	19692319	0.65250	4,490	2,830
16	1170	820	19698759	0.64400	6,284	4,404
17	1110	530	19707265	0.85060	7,874	3,760
18	780	480	19713787	0.65220	4,243	2,611
19	570	390	19721180	0.73930	3,514	2,405
20	810	500	19730026	0.88460	5,976	3,689
21	930	300	19739640	0.96140	7,457	2,405
22	810	390	19747833	0.81930	5,535	2,665
23	460	300	19756065	0.82320	3,158	2,060
24	620	460	19762598	0.65330	3,378	2,506
25	640	420	19770082	0.74840	3,995	2,621
26	840	525	19776987	0.69050	4,837	3,023
27	900	610	19783751	0.67640	5,077	3,441
28	1230	390	19791391	0.76400	7,837	2,485
29	1020	330	19798927	0.75360	6,411	2,074
30	990	1030	19804437	0.55100	4,549	4,733
TOTAL				22.98660	157,109	94,074
AVG.	825	498		0.76622	5,237	3,136

REVIEWED BY: Mike Anderson DATE: July 7, 1994

APPROVED BY: Walter L. Thompson DATE: July 7, 1994

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD MAY 1994
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	19364Ø9	********	******	******	
Ø1	795	54Ø	1937Ø291	Ø.5882Ø	3,9ØØ	2,649	
Ø2	68Ø	38Ø	19378ØØ4	Ø.8113Ø	4,6Ø1	2,571	
Ø3	84Ø	8ØØ	19383917	Ø.5513Ø	3,862	3,678	
Ø4	93Ø	98Ø	19389462	Ø.5545Ø	4,3Ø1	4,532	
Ø5	1Ø2Ø	56Ø	19395966	Ø.65Ø4Ø	5,533	3,Ø38	
Ø6	1Ø5Ø	7ØØ	194Ø2979	Ø.7Ø13Ø	6,141	4,Ø94	
Ø7	49Ø	1Ø7Ø	194Ø8Ø2Ø	Ø.5Ø41Ø	2,Ø6Ø	4,498	
Ø8	675	91Ø	19412770	Ø.475ØØ	2,674	3,6Ø5	
Ø9	66Ø	72Ø	19419265	Ø.6495Ø	3,575	3,9ØØ	
1Ø	1Ø5Ø	98Ø	1942543Ø	Ø.6165Ø	5,399	5,Ø39	
11	1Ø8Ø	69Ø	19431ØØ9	Ø.6Ø79Ø	5,475	3,498	
12	12ØØ	57Ø	1943828Ø	Ø.6771Ø	6,776	3,219	
13	114Ø	63Ø	19443972	Ø.5692Ø	5,412	2,991	
14	93Ø	6ØØ	1945Ø1Ø5	Ø.6133Ø	4,757	3,Ø69	
15	5ØØ	153Ø	19458814	Ø.87Ø9Ø	3,632	11,113	
16	635	88Ø	19465697	Ø.6883Ø	3,645	5,Ø52	
17	6ØØ	3ØØ	19473502	Ø.78Ø5Ø	3,9Ø6	1,953	
18	66Ø	56Ø	19481282	Ø.778ØØ	4,282	3,634	
19	793	66Ø	19488959	Ø.7677Ø	5,Ø77	4,226	**
2Ø	78Ø	54Ø	19496742	Ø.7783Ø	5,Ø63	3,5Ø5	
21	72Ø	66Ø	195Ø4Ø18	Ø.7276Ø	4,369	4,ØØ5	
22	826	235Ø	19512712	Ø.8694Ø	5,989	17,Ø39	**
23	18Ø	144Ø	19519507	Ø.6795Ø	1,Ø2Ø	8,161	
24	2ØØ	5ØØ	19525147	Ø.564ØØ	941	2,352	
25	2ØØ	25Ø	19528453	Ø.33Ø6Ø	551	689	
26	564	767	19532706	Ø.4253Ø	2,ØØ1	2,721	*
27	15Ø	46Ø	19539914	Ø.72Ø8Ø	9Ø2	2,765	
28	32Ø	54Ø	19548454	Ø.854ØØ	2,279	3,846	
29	59Ø	62Ø	19557Ø16	Ø.8562Ø	4,213	4,427	
3Ø	658	44Ø	19566614	Ø.9598Ø	5,267	3,522	
31	69Ø	48Ø	19574571	Ø.7957Ø	4,579	3,185	
TOTAL				21.Ø162Ø	122,183	132,576	
AVG.	697	745		Ø.67794	3,941	4,277	

REVIEWED BY: Mike Anderson DATE: June 7, 1994

APPROVED BY: W L Thompson DATE: 6-7-94

** Denotes 12 day average for BOD only.

* Denotes 12 day average for Suspended Solids and BOD5.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — APRIL 1994 — # DAYS 3Ø

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	19142467	********	******	******	
Ø1	123Ø	45Ø	19149234	Ø.6767Ø	6,942	2,54Ø	
Ø2	99Ø	69Ø	19155524	Ø.629ØØ	5,193	3,62Ø	
Ø3	885	725	19161952	Ø.6428Ø	4,744	3,887	
Ø4	73Ø	38Ø	19174285	1.2333Ø	7,5Ø9	3,9Ø9	
Ø5	66Ø	179Ø	19182221	Ø.7936Ø	4,368	11,847	
Ø6	72Ø	71Ø	19187781	Ø.556ØØ	3,339	3,292	
Ø7	81Ø	84Ø	19193189	Ø.54Ø8Ø	3,653	3,789	
Ø8	63Ø	47Ø	192Ø62Ø	Ø.7431Ø	3,9Ø4	2,913	
Ø9	74Ø	33Ø	19206664	Ø.6Ø44Ø	3,73Ø	1,663	
1Ø	23Ø	44Ø	19213187	Ø.6523Ø	1,251	2,394	
11	87Ø	39Ø	19219662	Ø.6475Ø	4,698	2,1Ø6	
12	111Ø	57Ø	1922705Ø	Ø.7388Ø	6,839	3,512	
13	1Ø2Ø	48Ø	19234527	Ø.7477Ø	6,361	2,993	
14	117Ø	61Ø	19241493	Ø.6966Ø	6,797	3,544	
15	126Ø	5ØØ	19250125	Ø.8632Ø	9,Ø71	3,6ØØ	
16	81Ø	93Ø	19257Ø22	Ø.6897Ø	4,659	5,349	
17	93Ø	75Ø	19263Ø98	Ø.6Ø76Ø	4,713	3,8Ø1	
18	81Ø	445	19269785	Ø.6687Ø	4,517	2,482	
19	1Ø2Ø	95Ø	19276926	Ø.7141Ø	6,Ø75	5,658	
2Ø	68Ø	84Ø	1928866Ø	1.1734Ø	6,655	8,22Ø	
21	96Ø	262Ø	19298123	Ø.9463Ø	7,576	2Ø,677	
22	99Ø	276Ø	193Ø74Ø7	Ø.9284Ø	7,665	21,37Ø	
23	78Ø	814Ø	1931829Ø	1.Ø883Ø	7,Ø8Ø	73,882	
24	96Ø	11Ø1	19324999	Ø.67Ø9Ø	5,371	6,16Ø	*
25	96Ø	11Ø1	19333131	Ø.8132Ø	6,511	7,467	*
26	81Ø	71Ø	1934Ø863	Ø.7732Ø	5,223	4,578	
27	1Ø2Ø	1Ø6Ø	19346679	Ø.5816Ø	4,948	5,142	
28	96Ø	93Ø	19352493	Ø.5814Ø	4,655	4,5Ø9	
29	9ØØ	7ØØ	19358596	Ø.61Ø3Ø	4,581	3,563	
3Ø	72Ø	69Ø	19364Ø9	Ø.5813Ø	3,491	3,345	
TOTAL				22.1942Ø	162,12Ø	231,812	
AVG.	879	11Ø3		Ø.73981	5,4Ø4	7,727	

REVIEWED BY: Mike Andrews DATE: May 9, 1994

APPROVED BY: Wally L Thompson DATE: May 9, 1994

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD MARCH 1994
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	18913597	********	******	******	
Ø1	93Ø	58Ø	18921352	Ø.7755Ø	6,Ø15	3,751	
Ø2	99Ø	995	18927597	Ø.6245Ø	5,156	5,182	
Ø3	96Ø	12ØØ	18936Ø79	Ø.8482Ø	6,791	8,489	
Ø4	1Ø8Ø	82Ø	18943391	Ø.7312Ø	6,586	5,ØØ1	
Ø5	93Ø	8ØØ	1895Ø6Ø6	Ø.7215Ø	5,596	4,814	
Ø6	144Ø	88Ø	18957894	Ø.7288Ø	8,753	5,349	
Ø7	963	825	18965117	Ø.7223Ø	5,8Ø1	4,97Ø	*
Ø8	87Ø	61Ø	18971977	Ø.686ØØ	4,977	3,49Ø	
Ø9	1Ø2Ø	815	18978322	Ø.6345Ø	5,398	4,313	
1Ø	1Ø5Ø	65Ø	18986231	Ø.79Ø9Ø	6,926	4,287	
11	96Ø	745	18994487	Ø.8256Ø	6,61Ø	5,13Ø	
12	78Ø	1Ø1Ø	19ØØ1996	Ø.75Ø9Ø	4,885	6,325	
13	945	88Ø	19Ø1Ø39Ø	Ø.8394Ø	6,616	6,161	
14	974	82Ø	19Ø18496	Ø.81Ø6Ø	6,585	5,544	*
15	99Ø	61Ø	19Ø26151	Ø.7655Ø	6,32Ø	3,894	
16	1Ø35	47Ø	19Ø34437	Ø.8286Ø	7,152	3,248	
17	126Ø	54Ø	19Ø41621	Ø.7184Ø	7,549	3,235	
18	1Ø5Ø	55Ø	19Ø48983	Ø.7362Ø	6,447	3,377	
19	96Ø	44Ø	19Ø57563	Ø.858ØØ	6,869	3,149	
2Ø	1Ø5Ø	53Ø	19Ø65443	Ø.788ØØ	6,9Ø1	3,483	
21	123Ø	54Ø	19Ø73242	Ø.7799Ø	8,ØØØ	3,512	
22	96Ø	58Ø	19Ø81Ø26	Ø.7784Ø	6,232	3,765	
23	1Ø35	695	19Ø88523	Ø.7497Ø	6,471	4,345	
24	1Ø5Ø	33Ø	19Ø94813	Ø.629ØØ	5,5Ø8	1,731	
25	99Ø	54Ø	191Ø1734	Ø.6921Ø	5,714	3,117	
26	75Ø	67Ø	191Ø8585	Ø.6851Ø	4,285	3,828	
27	99Ø	13ØØ	19115541	Ø.6956Ø	5,743	7,542	
28	117Ø	875	19123Ø16	Ø.7475Ø	7,294	5,455	
29	117Ø	57Ø	19129638	Ø.6622Ø	6,462	3,148	
3Ø	99Ø	49Ø	1913527Ø	Ø.5632Ø	4,65Ø	2,3Ø2	
31	99Ø	79Ø	19142467	Ø.7197Ø	5,942	4,742	
TOTAL				22.887ØØ	194,236	136,678	
AVG.	1Ø18	715		Ø.73829	6,266	4,4Ø9	

REVIEWED BY: Mike Anderson DATE: April 6, 1994

APPROVED BY: Walter L Thompson DATE: April 6, 1994

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — FEBRUARY 1994
DAYS 28

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	187Ø6Ø92	********	******	******	
Ø1	1Ø5Ø	43Ø	18712975	Ø.6883Ø	6,Ø27	2,468	
Ø2	126Ø	65Ø	1872Ø328	Ø.7353Ø	7,727	3,986	
Ø3	1Ø2Ø	125Ø	18727Ø2	Ø.7374Ø	6,273	7,687	
Ø4	114Ø	1Ø7Ø	18735272	Ø.757ØØ	7,197	6,755	
Ø5	93Ø	1Ø3Ø	18744Ø2	Ø.953ØØ	7,392	8,186	
Ø6	1Ø8Ø	81Ø	1875218Ø	Ø.7378Ø	6,646	4,984	
Ø7	117Ø	68Ø	18759132	Ø.6952Ø	6,784	3,943	
Ø8	114Ø	162Ø	18768Ø85	Ø.8953Ø	8,512	4,778	*
Ø9	915	915	18773976	Ø.5891Ø	4,495	4,495	
1Ø	66Ø	68Ø	1878Ø247	Ø.6271Ø	3,452	3,556	
11	78Ø	65Ø	1878761Ø	Ø.7363Ø	4,79Ø	3,991	
12	84Ø	48Ø	18796361	Ø.8751Ø	6,131	3,5Ø3	
13	96Ø	51Ø	188Ø3835	Ø.7474Ø	5,984	3,179	
14	114Ø	55Ø	18812216	Ø.8381Ø	7,968	3,844	
15	81Ø	68Ø	18819672	Ø.7456Ø	5,Ø37	4,228	
16	84Ø	69Ø	1882Ø5Ø5	Ø.8833Ø	6,188	5,Ø83	
17	84Ø	55Ø	18836124	Ø.7619Ø	5,338	3,495	
18	1Ø5Ø	52Ø	18842818	Ø.6694Ø	5,862	2,9Ø3	
19	12ØØ	53Ø	1885ØØ97	Ø.7279Ø	7,285	3,217	
2Ø	111Ø	94Ø	18856Ø8	Ø.6111Ø	5,657	4,791	
21	15ØØ	74Ø	18861712	Ø.55Ø4Ø	6,886	3,397	
22	69Ø	65Ø	1887ØØ46	Ø.8334Ø	4,796	4,518	
23	68Ø	97Ø	18878967	Ø.8921Ø	5,Ø59	7,217	
24	96Ø	92Ø	18884242	Ø.5275Ø	4,223	4,Ø47	
25	93Ø	7ØØ	18891733	Ø.7491Ø	5,81Ø	4,373	
26	72Ø	68Ø	1889975Ø	Ø.8Ø17Ø	4,814	4,547	
27	126Ø	67Ø	189Ø6174	Ø.6424Ø	6,751	3,59Ø	
28	87Ø	815	18913597	Ø.7423Ø	5,386	5,Ø45	
TOTAL				2Ø.75Ø5Ø	168,469	125,81Ø	
AVG.	984	764		Ø.741Ø9	6,Ø17	4,493	

REVIEWED BY: Mike Andrews DATE: March 7 1994

APPROVED BY: W R Thompson DATE: 03/07/94

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JANUARY 1994
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	18455541	********	******	******
Ø1	93Ø	72Ø	1846310Ø	Ø.7566Ø	5,868	4,543
Ø2	93Ø	99Ø	18471162	Ø.8Ø55Ø	6,248	6,651
Ø3	156Ø	143Ø	18479672	Ø.851ØØ	11,Ø72	1Ø,149
Ø4	9ØØ	187Ø	1848ØØ4	Ø.8332Ø	6,254	12,994
Ø5	9ØØ	279Ø	1849Ø823	1.ØØ19Ø	7,52Ø	23,313
Ø6	99Ø	199Ø	185Ø6486	Ø.8463Ø	6,988	14,Ø46
Ø7	132Ø	347Ø	18516730	1.Ø244Ø	11,277	29,646
Ø8	87Ø	12ØØ	18526285	Ø.9555Ø	6,933	9,563
Ø9	93Ø	1435	18534379	Ø.8Ø94Ø	6,278	9,687
1Ø	1Ø8Ø	2Ø4Ø	18542ØØØ	Ø.8521Ø	7,675	14,497
11	9ØØ	95Ø	18552Ø89	Ø.9189Ø	6,897	7,28Ø
12	93Ø	81Ø	18561Ø14	Ø.8925Ø	6,922	6,Ø29
13	96Ø	7ØØ	18569544	Ø.853ØØ	6,829	4,98Ø
14	12ØØ	21ØØ	18578277	Ø.8733Ø	8,74Ø	15,295
15	1Ø5Ø	154Ø	18586796	Ø.8519Ø	7,46Ø	1Ø,941
16	99Ø	3Ø9Ø	18595ØØ8	Ø.8812Ø	7,276	22,7Ø9
17	1Ø2Ø	414Ø	186Ø3458	Ø.785ØØ	6,678	27,1Ø4
18	111Ø	19ØØ	1861Ø668	Ø.721ØØ	6,675	11,425
19	96Ø	287Ø	18617696	Ø.7Ø28Ø	5,627	16,822
2Ø	9ØØ	91Ø	18624879	Ø.7183Ø	5,392	5,451
21	75Ø	71Ø	1863Ø77Ø	Ø.5891Ø	3,685	3,488
22	1Ø2Ø	118Ø	18637665	Ø.6895Ø	5,865	6,786
23	126Ø	53Ø	18644855	Ø.719ØØ	7,556	3,178
24	1Ø2Ø	495	18651849	Ø.6994Ø	5,95Ø	2,887
25	114Ø	68Ø	18658Ø1	Ø.6752Ø	6,42Ø	3,829
26	42Ø	69Ø	18663663	Ø.5Ø62Ø	1,773	2,913
27	1Ø2Ø	54Ø	18672988	Ø.9325Ø	7,933	4,2ØØ
28	111Ø	59Ø	18681448	Ø.846ØØ	7,832	4,163
29	1Ø8Ø	63Ø	1869ØØ96	Ø.8648Ø	7,789	4,544
3Ø	675	58Ø	18697462	Ø.7366Ø	4,147	3,563
31	96Ø	55Ø	187Ø6Ø92	Ø.863ØØ	6,91Ø	3,959
TOTAL				25.Ø551Ø	21Ø,467	3Ø6,636
AVG.	996	1423		Ø.8Ø823	6,789	9,891

REVIEWED BY: Mike Anderson DATE: Feb 7, 1994

APPROVED BY: W L Thompson DATE: Feb 8, 1994

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — DECEMBER 1993 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	18186279	********	******	******	
Ø1	9ØØ	64Ø	18195154	Ø.8875Ø	6,662	4,737	
Ø2	66Ø	1Ø2Ø	182Ø4421	Ø.9267Ø	5,1Ø1	7,883	
Ø3	72Ø	15ØØ	18212657	Ø.8236Ø	4,946	1Ø,3Ø3	
Ø4	68Ø	114Ø	18221531	Ø.8874Ø	5,Ø33	8,437	
Ø5	72Ø	66Ø	18229709	Ø.8178Ø	4,911	4,5Ø1	
Ø6	72Ø	74Ø	18238488	Ø.8779Ø	5,272	5,418	
Ø7	81Ø	174Ø	1824724Ø	Ø.8752Ø	5,912	12,7Ø1	
Ø8	84Ø	178Ø	18257483	1.Ø243Ø	7,176	15,2Ø6	
Ø9	63Ø	11ØØ	18265Ø96	Ø.7613Ø	4,ØØØ	6,984	
1Ø	96Ø	43Ø	18273355	Ø.8259Ø	6,612	2,962	
11	87Ø	71Ø	18281546	Ø.8191Ø	5,943	4,85Ø	
12	72Ø	84Ø	18291478	Ø.9932Ø	5,964	6,958	
13	78Ø	7Ø5	183ØØ323	Ø.8845Ø	5,754	5,2Ø1	
14	75Ø	61Ø	183Ø9445	Ø.9122Ø	5,7Ø6	4,641	
15	69Ø	38Ø	18319897	1.Ø452Ø	6,Ø15	3,312	
16	75Ø	97Ø	18329Ø8	Ø.9611Ø	6,Ø12	7,775	
17	9ØØ	67Ø	18337572	Ø.8Ø64Ø	6,Ø53	4,5Ø6	
18	78Ø	123Ø	18349469	1.1897Ø	7,739	12,2Ø4	
19	915	128Ø	1836Ø318	1.Ø849Ø	8,279	11,582	
2Ø	1Ø2Ø	266Ø	18369912	Ø.9594Ø	8,161	21,284	
21	111Ø	138Ø	18378Ø4	Ø.8892Ø	8,232	1Ø,234	
22	78Ø	163Ø	1838723Ø	Ø.8426Ø	5,481	11,454	
23	72Ø	234Ø	18395ØØ	Ø.837ØØ	5,Ø26	16,335	
24	812	1166	184Ø4393	Ø.8793Ø	5,955	8,551	*
25	812	1166	AVG	Ø.38485	2,6Ø6	3,742	*
26	71Ø	388Ø	1841Ø9Ø	Ø.38485	2,279	12,453	
27	63Ø	187Ø	1842Ø7Ø3	Ø.8613Ø	4,525	13,433	
28	9ØØ	143Ø	1843ØØ62	Ø.9359Ø	7,Ø25	11,162	
29	93Ø	7ØØ	18436343	Ø.6281Ø	4,872	3,667	
3Ø	1Ø2Ø	99Ø	1844681	1.Ø458Ø	8,896	8,635	
31	315	79Ø	18455541	Ø.874ØØ	2,296	5,758	
TOTAL				26.9262Ø	178,443	266,869	
AVG.	792	1231		Ø.86859	5,756	8,6Ø9	

REVIEWED BY: Mike Andrews DATE: 01/06/94

APPROVED BY: Walter L Thompson DATE: 01-07-94

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD NOVEMBER 1993
DAYS 3Ø

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	******	******	17919717	********	******	******	
Ø1	75Ø	136Ø	17928166	Ø.8449Ø	5,285	9,583	
Ø2	111Ø	173Ø	17937295	Ø.9129Ø	8,451	13,172	
Ø3	114Ø	237Ø	1795Ø244	1.2949Ø	12,311	25,595	
Ø4	62Ø	116Ø	1796ØØ8Ø	1.3836Ø	7,154	13,385	
Ø5	69Ø	96Ø	17973864	Ø.9784Ø	5,63Ø	7,833	
Ø6	655	47Ø	17982722	Ø.8858Ø	4,839	3,472	
Ø7	72Ø	49Ø	17992164	Ø.9442Ø	5,67Ø	3,859	
Ø8	81Ø	1Ø9Ø	18ØØØØ52	Ø.7888Ø	5,329	7,171	
Ø9	9ØØ	127Ø	18ØØ8225	Ø.8173Ø	6,135	8,657	
1Ø	975	2Ø45	18Ø18895	1.Ø67ØØ	8,676	18,198	
11	93Ø	174Ø	18Ø28222	Ø.9327Ø	7,234	13,535	
12	84Ø	159Ø	18Ø37212	Ø.899ØØ	6,298	11,921	
13	9ØØ	221Ø	18Ø4672Ø	Ø.95Ø8Ø	7,137	17,525	
14	87Ø	83Ø	18Ø55631	Ø.8911Ø	6,466	6,168	
15	885	69Ø	18Ø62748	Ø.7117Ø	5,253	4,Ø96	
16	81Ø	87Ø	18Ø7Ø687	Ø.7939Ø	5,363	5,76Ø	
17	81Ø	68Ø	18Ø7911Ø	Ø.8423Ø	5,69Ø	4,777	
18	87Ø	43Ø	18Ø87674	Ø.8564Ø	6,214	3,Ø71	
19	87Ø	92Ø	18Ø94955	Ø.7281Ø	5,283	5,587	
2Ø	93Ø	97Ø	181Ø2677	Ø.7722Ø	5,989	6,247	
21	96Ø	88Ø	18111622	Ø.8945Ø	7,162	6,565	
22	93Ø	115Ø	1812Ø745	Ø.9123Ø	7,Ø76	8,75Ø	
23	884	1Ø32	18129Ø2	Ø.8357Ø	6,161	7,193	*
24	84Ø	83Ø	18137566	Ø.8464Ø	5,93Ø	5,859	
25	87Ø	16ØØ	18146231	Ø.8665Ø	6,287	11,563	
26	87Ø	121Ø	18154197	Ø.7966Ø	5,78Ø	8,Ø39	
27	81Ø	8ØØ	18161652	Ø.7455Ø	5,Ø36	4,974	
28	99Ø	113Ø	18169112	Ø.746ØØ	6,159	7,Ø3Ø	
29	72Ø	813	18177811	Ø.8699Ø	5,224	5,898	
3Ø	87Ø	77Ø	18186279	Ø.8468Ø	6,144	5,438	
TOTAL				26.6562Ø	191,366	26Ø,92Ø	
AVG.	861	1136		Ø.88854	6,379	8,697	

REVIEWED BY: Mike Andrews DATE: 12/10/93

APPROVED BY: [signature] DATE: 12-13-93

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — OCTOBER 1993
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	17648Ø38	********	******	******
Ø1	84Ø	145Ø	17656478	Ø.844ØØ	5,913	1Ø,2Ø6
Ø2	87Ø	214Ø	1766506 4	Ø.8586Ø	6,23Ø	15,324
Ø3	1Ø2Ø	143Ø	17673988	Ø.8924Ø	7,591	1Ø,643
Ø4	77Ø	92Ø	17682714	Ø.8726Ø	5,6Ø4	6,695
Ø5	93Ø	91Ø	17691266	Ø.8552Ø	6,633	6,49Ø
Ø6	156Ø	194Ø	177ØØ776	Ø.951ØØ	12,373	15,387
Ø7	81Ø	179Ø	1771Ø695	Ø.9919Ø	6,7Ø1	14,8Ø8
Ø8	9ØØ	1Ø2Ø	17718578	Ø.7883Ø	5,917	6,7Ø6
Ø9	96Ø	87Ø	1772 5Ø3	Ø.6625Ø	5,3Ø4	4,8Ø7
1Ø	96Ø	132Ø	17732767	Ø.7564Ø	6,Ø56	8,327
11	111Ø	2125	17742454	Ø.9687Ø	8,968	17,168
12	1Ø5Ø	97Ø	1775Ø363	Ø.79Ø9Ø	6,926	6,398
13	1Ø5Ø	146Ø	17759191	Ø.8828Ø	7,731	1Ø,749
14	87Ø	17ØØ	17768442	Ø.9251Ø	6,712	13,116
15	81Ø	122Ø	17775619	Ø.7177Ø	4,848	7,3Ø2
16	99Ø	94Ø	1778 45Ø2	Ø.8883Ø	7,334	6,964
17	99Ø	81Ø	1779 27Ø1	Ø.8199Ø	6,77Ø	5,539
18	114Ø	73Ø	178ØØ275	Ø.7574Ø	7,2Ø1	4,611
19	111Ø	98Ø	178Ø8575	Ø.83ØØØ	7,684	6,784
2Ø	1Ø5Ø	138Ø	1781714Ø	Ø.8565Ø	7,5ØØ	9,858
21	87Ø	144Ø	1782976Ø	1.262ØØ	9,157	15,156
22	87Ø	1Ø2Ø	17837949	Ø.8189Ø	5,942	6,966
23	87Ø	169Ø	1784 68Ø2	Ø.8853Ø	6,424	12,478
24	84Ø	15ØØ	17856976	1.Ø174Ø	7,127	12,728
25	84Ø	136Ø	17867282	1.Ø3Ø6Ø	7,22Ø	11,689
26	1Ø5Ø	77Ø	17875643	Ø.8361Ø	7,322	5,369
27	96Ø	1Ø7Ø	1788 446Ø	Ø.8817Ø	7,Ø59	7,868
28	78Ø	124Ø	17891819	Ø.7359Ø	4,787	7,61Ø
29	87Ø	147Ø	179Ø1342	Ø.9523Ø	6,91Ø	11,675
3Ø	111Ø	181Ø	1791Ø422	Ø.9Ø8ØØ	8,4Ø6	13,7Ø7
31	855	1535	17919717	Ø.9295Ø	6,628	11,899
TOTAL				27.1679Ø	216,977	3Ø5,Ø29
AVG.	958	1323		Ø.87638	6,999	9,84Ø

REVIEWED BY: Mike Andrews DATE: 11/9/93

APPROVED BY: Walter L Thompson DATE: 11/9/93

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — SEPTEMBER 1993
DAYS 3Ø

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	****	******	******		********	******	******	
Ø1	NS	748	15Ø6		Ø.43Ø43	2,685	5,4Ø6	*
Ø2	NS	748	15Ø6	17398918	Ø.43Ø43	2,685	5,4Ø6	*
Ø3	7.5	78Ø	255Ø	174Ø4975	Ø.6Ø57Ø	3,94Ø	12,881	
Ø4	7.7	81Ø	141Ø	17413Ø5	Ø.813ØØ	5,492	9,56Ø	
Ø5	7.7	945	151Ø	17419772	Ø.6667Ø	5,254	8,396	
Ø6	7.7	75Ø	17ØØ	1743Ø698	1.Ø926Ø	6,834	15,491	
Ø7	7.8	75Ø	133Ø	17437915	Ø.7217Ø	4,514	8,ØØ5	
Ø8	7.6	735	156Ø	17446192	Ø.8277Ø	5,Ø74	1Ø,769	
Ø9	7.7	855	26Ø	17455ØØ1	Ø.88Ø9Ø	6,281	1,91Ø	
1Ø	7.7	63Ø	13ØØ	17465767	1.Ø766Ø	5,657	11,672	
11	7.7	635	153Ø	17474399	Ø.8632Ø	4,571	11,Ø15	
12	7.7	675	221Ø	17482248	Ø.7849Ø	4,419	14,467	
13	7.6	1Ø2Ø	213Ø	17491329	Ø.9Ø81Ø	7,725	16,132	
14	7.7	75Ø	2Ø1Ø	175ØØ766	Ø.9437Ø	5,9Ø3	15,82Ø	
15	7.8	765	14ØØ	175Ø89Ø1	Ø.8135Ø	5,19Ø	9,498	
16	7.6	655	15ØØ	17517178	Ø.8277Ø	4,521	1Ø,355	
17	7.7	71Ø	1Ø4Ø	17524658	Ø.748ØØ	4,429	6,488	
18	7.7	69Ø	135Ø	17533Ø5Ø	Ø.8392Ø	4,829	9,449	
19	7.8	665	113Ø	17543ØØ	1.Ø45ØØ	5,796	9,848	
2Ø	7.8	7ØØ	925	17552291	Ø.8791Ø	5,132	6,782	
21	8.4	72Ø	71Ø	1756Ø336	Ø.8Ø45Ø	4,831	4,764	
22	8.Ø	93Ø	67Ø	17569786	Ø.945ØØ	7,33Ø	5,28Ø	
23	8.1	47Ø	58Ø	1758177Ø	1.1984Ø	4,697	5,797	
24	7.9	73Ø	157Ø	17591481	Ø.9711Ø	5,912	12,715	
25	7.9	685	11ØØ	176Ø1849	1.Ø368Ø	5,923	9,512	
26	8.Ø	638	17ØØ	17611661	Ø.9812Ø	5,221	13,911	
27	7.8	72Ø	271Ø	17621Ø7	Ø.9746Ø	5,852	22,Ø27	
28	7.8	635	277Ø	1763Ø781	Ø.9374Ø	* 4,964	21,656	
29	7.8	72Ø	5ØØ	17639Ø7	Ø.8326Ø	5,ØØØ	3,472	
3Ø	7.9	685	79Ø	17648Ø38	Ø.8931Ø	5,1Ø2	5,884	
TOTAL					25.77285	155,766	3Ø4,369	
AVG.		732	1432		Ø.8591Ø	5,192	1Ø,146	

REVIEWED BY: Mike DATE: 10/6/93

APPROVED BY: W Thompson DATE: 10/06/93

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — AUGUST 1993 — # DAYS 31

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	****	******	******	17159677	********	******	******
Ø1	7.2	765	172Ø	17168Ø25	Ø.8348Ø	5,326	11,975
Ø2	7.4	84Ø	161Ø	17175197	Ø.7172Ø	5,Ø24	9,63Ø
Ø3	7.4	63Ø	111Ø	17182229	Ø.7Ø32Ø	3,695	6,51Ø
Ø4	7.9	66Ø	1Ø27	17189393	Ø.7164Ø	3,943	6,136
Ø5	7.7	71Ø	1165	17196731	Ø.7338Ø	4,345	7,13Ø
Ø6	7.7	685	116Ø	172Ø4481	Ø.775ØØ	4,427	7,498
Ø7	7.8	66Ø	115Ø	17211Ø68	Ø.6587Ø	3,626	6,318
Ø8	7.7	695	145Ø	17218726	Ø.7658Ø	4,439	9,261
Ø9	7.6	73Ø	252Ø	17224891	Ø.6165Ø	3,753	12,957
1Ø	7.7	63Ø	8ØØ	17230426	Ø.5535Ø	2,9Ø8	3,693
11	7.7	675	1ØØØ	17238Ø94	Ø.7668Ø	4,317	6,395
12	7.6	645	136Ø	17244869	Ø.6775Ø	3,644	7,684
13	7.7	56Ø	39Ø	17253721	Ø.8852Ø	4,134	2,879
14	7.3	48Ø	1Ø8Ø	17263152	Ø.9431Ø	3,775	8,495
15	7.7	54Ø	45Ø	17271293	Ø.8141Ø	3,666	3,Ø55
16	7.8	655	62Ø	17278336	Ø.7Ø43Ø	3,847	3,642
17	7.7	72Ø	533	17284858	Ø.6522Ø	3,916	2,899
18	7.6	645	128Ø	17291117	Ø.6259Ø	3,367	6,682
19	7.7	755	353Ø	17299696	Ø.8579Ø	5,4Ø2	25,257
2Ø	7.7	715	213Ø	173Ø6328	Ø.6632Ø	3,955	11,781
21	7.7	695	121Ø	17313728	Ø.74ØØØ	4,289	7,468
22	7.7	642	233Ø	1732313Ø	Ø.94Ø2Ø	5,Ø34	18,27Ø
23	7.7	72Ø	255Ø	17331973	Ø.8843Ø	5,31Ø	18,8Ø6
24	7.6	75Ø	132Ø	1734Ø783	Ø.881ØØ	5,511	9,699
25	7.7	96Ø	633	17348Ø5	Ø.7422Ø	5,942	3,918
26	7.7	84Ø	171Ø	17356Ø31	Ø.7826Ø	5,483	11,161
27	7.6	72Ø	115Ø	17364463	Ø.8432Ø	5,Ø63	8,Ø87
28	7.8	67Ø	72Ø	17373564	Ø.91Ø1Ø	5,Ø85	5,465
29	7.8	7Ø5	78Ø	17381Ø1	Ø.8137Ø	4,784	5,293
3Ø	7.8	915	1155		Ø.43Ø43	3,285	4,146
31	NS	748	15Ø6		Ø.43Ø43	2,685	5,4Ø6 *
TOTAL					23.Ø6325	133,984	257,596
AVG.		7Ø2	1327		Ø.74398	4,322	8,31Ø

REVIEWED BY: Mike Andrews DATE: 09/09/93

APPROVED BY: Walter L Thompson DATE: 09-09-93

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — JULY 1993
DAYS 31

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	****	******	******	16933782	********	******	******	
01	7.4	750	810	16941180	0.73980	4,627	4,998	
02	7.7	540	1400	16949227	0.80470	3,624	9,396	
03	8.1	66	755	16954216	0.49890	275	3,141	
04	8.6	36	280	16958933	0.47170	142	1,102	
05	8.1	253	1840	16963599	0.46660	985	7,160	
06	7.7	510	1890	16974470	1.08710	4,624	17,136	
07	7.7	680	1260	16983469	0.89990	5,104	9,457	
08	8.2	840	2010	16990516	0.70470	4,937	11,813	
09	7.6	775	3110	16999760	0.92440	5,975	23,977	
10	7.5	960	2610	17008224	0.84640	6,777	18,424	
11	7.8	1020	2650	17015489	0.72650	6,180	16,056	
12	NS	609	1662	17023597	0.81080	4,118	11,239	*
13	7.5	690	780	17030759	0.71620	4,121	4,659	
14	7.5	720	578	17038021	0.72620	4,361	3,501	
15	7.4	775	1113	17046008	0.79870	5,162	7,414	
16	7.5	725	1087	17053955	0.79470	4,805	7,204	
17	7.5	760	1480	17061741	0.77860	4,935	9,610	
18	7.5	855	1505	17068831	0.70900	5,056	8,899	
19	7.5	710	573	17075305	0.64740	3,834	3,094	
20	7.4	710	695	17081431	0.61260	3,627	3,551	
21	7.4	750	1030	17088865	0.74340	4,650	6,386	
22	7.4	710	585	17096309	0.74440	4,408	3,632	
23	7.4	785	615	17102925	0.66160	4,331	3,393	
24	7.5	720	487	17110584	0.76590	4,599	3,111	
25	7.4	765	590	17117044	0.64600	4,122	3,179	
26	7.2	682	545	17124298	0.72540	4,126	3,297	
27	7.4	660	515	17131025	0.67270	3,703	2,889	
28	7.4	720	853	17137804	0.67790	4,071	4,823	
29	7.2	780	1850	17145706	0.79020	5,140	12,192	
30	8.0	700	1200	17152843	0.71370	4,167	7,143	
31	7.4	745	920	17159677	0.68340	4,246	5,244	
TOTAL					22.58950	130,830	237,117	
AVG.		677	1203		0.72869	4,220	7,649	

REVIEWED BY: Mike Andrews DATE: 08/10/93

APPROVED BY: Walter R Thompson DATE: 08/10/93

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — JUNE 1993
DAYS 30

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	****	******	******	16720444	********	******	******
01	7.1	630	1050	16727124	0.66800	3,510	5,850
02	7.8	750	776	16734633	0.75090	4,697	4,860
03	7.0	810	770	16741283	0.66500	4,492	4,270
04	7.7	585	800	16751431	1.01480	4,951	6,771
05	7.6	745	820	16759407	0.79760	4,956	5,455
06	7.7	765	960	16767707	0.83000	5,295	6,645
07	7.7	740	1380	16774088	0.63810	3,938	7,344
08	7.7	720	930	16781061	0.69730	4,187	5,408
09	7.6	650	847	16787932	0.68710	3,725	4,854
10	7.6	870	3440	16794072	0.61400	4,455	17,615
11	6.9	725	2470	16801665	0.75930	4,591	15,641
12	7.5	870	670	16807148	0.54830	3,978	3,064
13	7.5	990	1590	16813457	0.63090	5,209	8,366
14	7.7	810	850	16820822	0.73650	4,975	5,221
15	7.7	720	827	16827958	0.71360	4,285	4,922
16	7.5	810	2035	16836474	0.85160	5,753	14,453
17	7.6	810	1640	16843817	0.73430	4,960	10,043
18	7.5	655	1350	16849464	0.56470	3,085	6,358
19	7.5	730	2720	16857783	0.83190	5,065	18,871
20	7.5	810	650	16864785	0.70020	4,730	3,796
21	7.5	855	630	16871259	0.64740	4,616	3,402
22	7.6	810	840	16876288	0.50290	3,397	3,523
23	7.5	870	1053	16883714	0.74260	5,388	6,522
24	7.5	670	860	16891578	0.78640	4,394	5,640
25	7.5	725	910	16898819	0.72410	4,378	5,495
26	7.5	720	1250	16906797	0.79780	4,791	8,317
27	7.5	658	1085	16913689	0.68920	3,782	6,237
28	7.6	670	590	16920869	0.71800	4,012	3,533
29	7.6	840	950	16926811	0.59420	4,163	4,708
30	7.6	780	1400	16933782	0.69710	4,535	8,139
TOTAL					21.33380	134,295	215,324
AVG.		760	1205		0.71113	4,477	7,177

REVIEWED BY: Mike DATE: 07/07/93

APPROVED BY: [signature] DATE: 07-08-93

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — MAY 1993 — # DAYS 31

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	****	******	******	16510066	********	******	******
01	7.7	750	1550	16516456	0.63900	3,997	8,260
02	7.0	795	1710	16523491	0.70350	4,664	10,033
03	7.6	700	1860	16530166	0.66750	3,897	10,355
04	7.7	1020	2120	16540022	0.98560	8,384	17,426
05	8.5	100	850	16544189	0.41670	348	2,954
06	7.7	140	480	16549169	0.49800	581	1,994
07	8.0	625	450	16553272	0.41030	2,139	1,540
08	8.0	700	1570	16559450	0.61780	3,607	8,089
09	7.6	750	1620	16567147	0.76970	4,814	10,399
10	7.7	930	2840	16573789	0.66420	5,152	15,732
11	7.7	810	2150	16580346	0.65570	4,430	11,757
12	7.7	705	1314	16585859	0.55130	3,241	6,042
13	7.6	870	1470	16592706	0.68470	4,968	8,394
14	7.6	810	1250	16598237	0.55310	3,736	5,766
15	7.6	840	840	16604789	0.65520	4,590	4,590
16	7.5	840	2560	16610818	0.60290	4,224	12,372
17	7.5	885	1285	16616603	0.57850	4,270	6,200
18	7.6	810	630	16623641	0.70380	4,754	3,698
19	7.6	900	2040	16630878	0.72370	5,432	12,313
20	7.7	690	1680	16637878	0.70000	4,028	9,808
21	7.5	750	900	16644230	0.63520	3,973	4,768
22	7.0	840	1720	16650877	0.66470	4,657	9,535
23	7.7	810	965	16657751	0.68740	4,644	5,532
24	7.6	870	1600	16664675	0.69240	5,024	9,239
25	7.7	960	973	16671000	0.63250	5,064	5,133
26	7.7	900	1630	16677571	0.65710	4,932	8,933
27	7.5	870	2290	16684154	0.65830	4,776	12,573
28	7.7	750	1670	16691706	0.75520	4,724	10,518
29	NS	575	1130	16699019	0.73130	3,507	6,892
30	7.7	580	1630	16709748	1.07290	5,190	14,585
31	7.5	630	2560	16720444	1.06960	5,620	22,836
TOTAL					21.03780	133,367	278,766
AVG.		749	1527		0.67864	4,302	8,992

REVIEWED BY: Mike Anderson DATE: 06/08/93

APPROVED BY: Walter L Thompson DATE: 06/11/93

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — APRIL 1993 — # DAYS 3Ø

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	****	******	******	163Ø82Ø8	********	******	******
Ø1	7.6	9ØØ	117Ø	16315164	Ø.6956Ø	5,221	6,788
Ø2	7.6	87Ø	239Ø	16321812	Ø.6648Ø	4,824	13,251
Ø3	7.7	8ØØ	96Ø	16329167	Ø.7355Ø	4,9Ø7	5,889
Ø4	7.6	78Ø	1Ø6Ø	16334234	Ø.5Ø67Ø	3,296	4,479
Ø5	7.1	74Ø	1Ø1Ø	1634Ø636	Ø.64Ø2Ø	3,951	5,393
Ø6	7.6	72Ø	12ØØ	1634674Ø	Ø.61Ø4Ø	3,665	6,1Ø9
Ø7	7.5	81Ø	1365	16355452	Ø.8712Ø	5,885	9,918
Ø8	7.6	64Ø	197Ø	16363792	Ø.834ØØ	4,452	13,7Ø2
Ø9	7.Ø	695	74Ø	16369576	Ø.5784Ø	3,353	3,57Ø
1Ø	7.6	87Ø	92Ø	16375666	Ø.6Ø9ØØ	4,419	4,673
11	7.5	87Ø	2Ø4Ø	1638Ø418	Ø.4752Ø	3,448	8,Ø85
12	7.6	99Ø	1365	16386Ø7	Ø.5889Ø	4,862	6,7Ø4
13	7.7	99Ø	259Ø	16392169	Ø.5862Ø	4,84Ø	12,662
14	7.8	114Ø	171Ø	164ØØØ22	Ø.7853Ø	7,466	11,199
15	7.5	93Ø	19ØØ	16405623	Ø.56Ø1Ø	4,344	8,875
16	7.8	96Ø	222Ø	16412675	Ø.7Ø52Ø	5,646	13,Ø57
17	8.Ø	99Ø	18ØØ	16418Ø27	Ø.5352Ø	4,419	8,Ø34
18	7.6	87Ø	183Ø	16424134	Ø.61Ø7Ø	4,431	9,321
19	7.9	93Ø	269Ø	16429175	Ø.5Ø41Ø	3,91Ø	11,3Ø9
2Ø	7.7	93Ø	236Ø	16435Ø29	Ø.5854Ø	4,54Ø	11,522
21	7.8	84Ø	1Ø25	1644Ø671	Ø.5642Ø	3,953	4,823
22	7.8	725	6ØØØ	16463138	Ø.59246	3,582	29,647
23	7.7	56Ø	125Ø	16468868	Ø.573ØØ	2,676	5,974
24	7.7	9ØØ	24ØØ	16474883	Ø.6Ø15Ø	4,515	12,Ø4Ø
25	7.7	81Ø	184Ø	16481539	Ø.6656Ø	4,496	1Ø,214
26	7.6	945	189Ø	16487572	Ø.6Ø33Ø	4,755	9,51Ø
27	7.6	84Ø	181Ø	16493133	Ø.5561Ø	3,896	8,395
28	7.5	1Ø2Ø	136Ø	16498725	Ø.5592Ø	4,757	6,343
29	7.7	1Ø2Ø	156Ø	16504173	Ø.5448Ø	4,635	7,Ø88
3Ø	7.6	9ØØ	155Ø	1651ØØ66	Ø.5893Ø	4,423	7,618
TOTAL					18.53156	133,568	276,19Ø
AVG.		866	1799		Ø.61772	4,452	9,2Ø6

REVIEWED BY: Mike DATE: 05/10/93

APPROVED BY: Wally L Thompson DATE: 05/10/93

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — APRIL 1993 — # DAYS 3Ø

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	****	******	******	163Ø82Ø8	********	******	******
Ø1	7.6	9ØØ	117Ø	16315164	Ø.6956Ø	5,221	6,788
Ø2	7.6	87Ø	239Ø	16321812	Ø.6648Ø	4,824	13,251
Ø3	7.7	8ØØ	96Ø	16329167	Ø.7355Ø	4,9Ø7	5,889
Ø4	7.6	78Ø	1Ø6Ø	16334234	Ø.5Ø67Ø	3,296	4,479
Ø5	7.1	74Ø	1Ø1Ø	1634Ø636	Ø.64Ø2Ø	3,951	5,393
Ø6	7.6	72Ø	12ØØ	1634674Ø	Ø.61Ø4Ø	3,665	6,1Ø9
Ø7	7.5	81Ø	1365	16355452	Ø.8712Ø	5,885	9,918
Ø8	7.6	64Ø	197Ø	16363792	Ø.834ØØ	4,452	13,7Ø2
Ø9	7.Ø	695	74Ø	16369576	Ø.5784Ø	3,353	3,57Ø
1Ø	7.6	87Ø	92Ø	16375666	Ø.6Ø9ØØ	4,419	4,673
11	7.5	87Ø	2Ø4Ø	1638Ø418	Ø.4752Ø	3,448	8,Ø85
12	7.6	99Ø	1365	16386Ø7	Ø.5889Ø	4,862	6,7Ø4
13	7.7	99Ø	259Ø	16392169	Ø.5862Ø	4,84Ø	12,662
14	7.8	114Ø	171Ø	164ØØØ22	Ø.7853Ø	7,466	11,199
15	7.5	93Ø	19ØØ	164Ø5623	Ø.56Ø1Ø	4,344	8,875
16	7.8	96Ø	222Ø	16412675	Ø.7Ø52Ø	5,646	13,Ø57
17	8.Ø	99Ø	18ØØ	1641ØØ27	Ø.5352Ø	4,419	8,Ø34
18	7.6	87Ø	183Ø	16424134	Ø.61Ø7Ø	4,431	9,321
19	7.9	93Ø	269Ø	16429175	Ø.5Ø41Ø	3,91Ø	11,3Ø9
2Ø	7.7	93Ø	236Ø	16435Ø29	Ø.5854Ø	4,54Ø	11,522
21	7.8	84Ø	1Ø25	1644Ø671	Ø.5642Ø	3,953	4,823
22	7.8	725	6ØØØ	16463138	Ø.59246	3,582	29,647
23	7.7	56Ø	125Ø	16468868	Ø.573ØØ	2,676	5,974
24	7.7	9ØØ	24ØØ	16474883	Ø.6Ø15Ø	4,515	12,Ø4Ø
25	7.7	81Ø	184Ø	16481539	Ø.6656Ø	4,496	1Ø,214
26	7.6	945	189Ø	16487572	Ø.6Ø33Ø	4,755	9,51Ø
27	7.6	84Ø	181Ø	16493133	Ø.5561Ø	3,896	8,395
28	7.5	1Ø2Ø	136Ø	16498725	Ø.5592Ø	4,757	6,343
29	7.7	1Ø2Ø	156Ø	165Ø4173	Ø.5448Ø	4,635	7,Ø88
3Ø	7.6	9ØØ	155Ø	1651ØØ66	Ø.5893Ø	4,423	7,618
TOTAL					18.53156	133,568	276,19Ø
AVG.		866	1799		Ø.61772	4,452	9,2Ø6

REVIEWED BY: Mike DATE: 05/10/93

APPROVED BY: Wally L Thompson DATE: 05/10/93

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — FEBRUARY 1993
DAYS 28

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	****	******	******	15871312	********	******	******
Ø1	7.7	81Ø	184Ø	15877512	Ø.62ØØØ	4,188	9,514
Ø2	7.8	63Ø	15ØØ	15883452	Ø.594ØØ	3,121	7,431
Ø3	8.Ø	885	18ØØ	1589Ø587	Ø.7135Ø	5,266	1Ø,711
Ø4	7.8	46Ø	147Ø	159ØØ915	1.Ø328Ø	3,962	12,662
Ø5	7.7	5ØØ	89Ø	1591Ø383	Ø.9468Ø	3,948	7,Ø28
Ø6	7.9	42Ø	55Ø	1592Ø58Ø	1.Ø197Ø	3,572	4,677
Ø7	7.8	56Ø	128Ø	15927475	Ø.6895Ø	3,22Ø	7,361
Ø8	7.9	74Ø	975	15936386	Ø.8911Ø	5,5ØØ	7,246
Ø9	7.8	62Ø	157Ø	15944739	Ø.8353Ø	4,319	1Ø,937
1Ø	7.8	47Ø	212Ø	15954295	Ø.9556Ø	3,746	16,896
11	7.8	55Ø	86Ø	15961413	Ø.7118Ø	3,265	5,1Ø5
12	7.8	51Ø	73Ø	15968221	Ø.68Ø8Ø	2,896	4,145
13	7.7	68Ø	87Ø	15976Ø41	Ø.782ØØ	4,435	5,674
14	7.8	665	1435	1598502Ø	Ø.8979Ø	4,98Ø	1Ø,746
15	7.8	58Ø	1ØØØ	15993465	Ø.8445Ø	4,Ø85	7,Ø43
16	7.8	67Ø	56Ø	16ØØØ257	Ø.6792Ø	3,795	3,172
17	7.8	57Ø	68Ø	16ØØ7469	Ø.7212Ø	3,428	4,Ø9Ø
18	7.9	72Ø	177Ø	16Ø14367	Ø.6898Ø	4,142	1Ø,183
19	7.7	625	172Ø	16Ø21465	Ø.7Ø98Ø	3,7ØØ	1Ø,182
2Ø	7.2	5ØØ	1Ø3Ø	16Ø32972	1.15Ø7Ø	4,798	9,885
21	7.8	6ØØ	1Ø9Ø	16Ø43Ø54	1.ØØ82Ø	5,Ø45	9,165
22	7.9	5ØØ	1Ø3Ø	16Ø53219	1.Ø165Ø	4,239	8,732
23	7.8	59Ø	151Ø	16Ø62499	Ø.928ØØ	4,566	11,687
24	8.Ø	515	53Ø	16Ø67Ø18	Ø.4519Ø	1,941	1,997
25	7.9	58Ø	567	16Ø74755	Ø.7737Ø	3,743	3,659
26	7.9	6ØØ	98Ø	16Ø8115Ø	Ø.6395Ø	3,2ØØ	5,227
27	7.9	65Ø	75Ø	16Ø9Ø429	Ø.9279Ø	5,Ø3Ø	5,8Ø4
28	7.9	48Ø	8ØØ	161ØØ851	1.Ø422Ø	4,172	6,954
TOTAL					22.9539Ø	112,3Ø3	217,912
AVG.		596	114Ø		Ø.81978	4,Ø11	7,783

REVIEWED BY: Mike Anderson DATE: 03/08/93

APPROVED BY: Walter L Thompson DATE: 03/08/93

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — JANUARY 1993 — # DAYS 31

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	****	******	******	15615754	********	******	******	
Ø1	7.6	56Ø	13ØØ	15622955	Ø.72Ø1Ø	3,363	7,8Ø7	
Ø2	7.7	56Ø	115Ø	15633452	1.Ø497Ø	4,9Ø3	1Ø,Ø68	
Ø3	7.6	51Ø	132Ø	15641972	Ø.852ØØ	3,624	9,379	
Ø4	7.7	5ØØ	158Ø	15652442	1.Ø47ØØ	4,366	13,797	
Ø5	7.8	5ØØ	66Ø	15662156	Ø.9714Ø	4,Ø51	5,347	
Ø6	7.9	54Ø	1Ø3Ø	15671Ø1	Ø.9245Ø	4,164	7,942	
Ø7	7.8	59Ø	395	15681288	Ø.9887Ø	4,865	3,257	
Ø8	7.9	625	77Ø	15689224	Ø.7936Ø	4,137	5,Ø96	
Ø9	7.9	6ØØ	143Ø	157ØØ214	1.Ø99ØØ	5,499	13,1Ø7	
1Ø	7.9	615	3Ø6Ø	1571Ø131	Ø.9917Ø	5,Ø87	25,3Ø9	
11	7.9	615	133Ø	15718853	Ø.8722Ø	4,474	9,675	
12	7.8	51Ø	153Ø	15726489	Ø.7636Ø	3,248	9,744	
13	7.8	595	17ØØ	15736134	Ø.9645Ø	4,786	13,675	
14	7.9	49Ø	193Ø	15744665	Ø.8531Ø	3,486	13,732	
15	7.8	59Ø	2Ø4Ø	15751156	Ø.6491Ø	3,194	11,Ø44	
16	8.5	38Ø	99Ø	15754Ø31	Ø.2875Ø	911	2,374	
17	8.Ø	53Ø	153Ø	15762197	Ø.8166Ø	3,61Ø	1Ø,42Ø	
18	7.9	635	14ØØ	15771Ø44	Ø.8847Ø	4,685	1Ø,33Ø	
19	7.9	645	219Ø	15778514	Ø.747ØØ	4,Ø18	13,644	
2Ø	7.8	58Ø	216Ø	15786281	Ø.7767Ø	3,757	13,992	
21	7.8	5ØØ	58Ø	15796Ø86	Ø.98Ø5Ø	4,Ø89	4,743	
22	7.8	59Ø	96Ø	158Ø4493	Ø.84Ø7Ø	4,137	6,731	
23	7.9	54Ø	8ØØ	15816ØØ	1.2ØØ7Ø	5,4Ø7	8,Ø11	
24	7.8	5Ø5	1655	15828761	1.2261Ø	5,164	16,923	
25	7.8	775	246Ø	15835124	Ø.6363Ø	4,113	13,Ø55	
26	7.8	56Ø	2ØØØ	15841862	Ø.6738Ø	3,147	11,239	*
27	7.8	65Ø	2Ø8Ø	15846366	Ø.45Ø4Ø	2,442	7,813	
28	7.9	55Ø	117Ø	15851748	Ø.5382Ø	2,469	5,252	
29	7.9	45Ø	16ØØ	1586Ø523	Ø.8775Ø	3,293	11,7Ø9	
3Ø	7.9	62Ø	3Ø1Ø	15866453	Ø.593ØØ	3,Ø66	14,886	
31	7.8	66Ø	199Ø	15871312	Ø.4859Ø	2,675	8,Ø64	
TOTAL					25.5558Ø	12Ø,228	318,162	
AVG.		567	1542		Ø.82438	3,878	1Ø,263	

REVIEWED BY: Mike Anderson DATE: 02/08/93

APPROVED BY: Walter L Clayton DATE: 02/08/93

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — DECEMBER 1992 — # DAYS 31

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	****	******	******	15358915	********	******	******
Ø1	7.7	1Ø5Ø	397Ø	15365Ø8	Ø.6993Ø	6,124	23,154
Ø2	7.9	78Ø	141Ø	15372838	Ø.693ØØ	4,5Ø8	8,149
Ø3	7.7	84Ø	162Ø	1538ØØ4	Ø.8166Ø	5,721	11,Ø33
Ø4	8.Ø	84Ø	127Ø	1538ØØ2	Ø.7998Ø	5,6Ø3	8,471
Ø5	8.2	72Ø	1Ø8Ø	15399216	1.Ø214Ø	6,133	9,2ØØ
Ø6	7.7	66Ø	993	154Ø7994	Ø.8778Ø	4,832	7,27Ø
Ø7	7.7	78Ø	1Ø7Ø	15415696	Ø.77Ø2Ø	5,Ø1Ø	6,873
Ø8	7.7	87Ø	175Ø	15423741	Ø.8Ø45Ø	5,837	11,742
Ø9	7.8	665	111Ø	15428964	Ø.5223Ø	2,897	4,835
1Ø	7.6	61Ø	167Ø	15438269	Ø.93Ø5Ø	4,734	12,96Ø
11	7.7	69Ø	121Ø	15445848	Ø.7579Ø	4,361	7,648
12	7.7	78Ø	338Ø	15454299	Ø.8451Ø	5,498	23,823
13	7.8	75Ø	21ØØ	15461Ø7	Ø.74Ø8Ø	4,634	12,974
14	7.8	78Ø	175Ø	15469857	Ø.815ØØ	5,3Ø2	11,895
15	8.Ø	78Ø	258Ø	15477244	Ø.7387Ø	4,8Ø5	15,895
16	7.4	96Ø	4Ø25	1548ØØ7	Ø.8763Ø	7,Ø16	29,416
17	7.5	96Ø	291Ø	15493327	Ø.732ØØ	5,861	17,765
18	7.7	69Ø	3Ø9Ø	155Ø2656	Ø.9329Ø	5,368	24,Ø41
19	7.5	1Ø5Ø	373Ø	1551726Ø	1.46Ø4Ø	12,789	45,43Ø
2Ø	7.7	655	325Ø	1552723Ø	Ø.997ØØ	5,446	27,Ø24
21	7.6	8Ø5	676Ø	15536337	Ø.91Ø7Ø	6,114	51,344
22	7.7	96Ø	635Ø	15546947	1.Ø61ØØ	8,495	56,189
23	8.2	44Ø	356Ø	15561462	1.4515Ø	5,326	43,Ø96
24	8.3	25Ø	116Ø	AVG	Ø.22435	468	2,17Ø
25	8.3	25Ø	116Ø	15565949	Ø.22435	468	2,17Ø
26	7.9	47Ø	3147	1557652Ø	1.Ø571Ø	4,144	27,745
27	7.8	545	154Ø	15585369	Ø.8849Ø	4,Ø22	11,365
28	7.7	615	188Ø	1559Ø57	Ø.8688Ø	4,456	13,622
29	7.7	57Ø	145Ø	156Ø2246	Ø.8189Ø	3,893	9,9Ø3
3Ø	7.8	48Ø	125Ø	156Ø9469	Ø.7223Ø	2,892	7,53Ø
31	7.8	55Ø	129Ø	15615754	Ø.6285Ø	2,883	6,762
TOTAL					25.6839Ø	155,639	551,495
AVG.		7Ø5	2371		Ø.82851	5,Ø21	17,79Ø

REVIEWED BY: Mike Anderson DATE: 01/06/93

APPROVED BY: Walter L Thompson DATE: 01/06/93

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — NOVEMBER 1992 — # DAYS 3Ø

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	****	******	******	15149382	********	******	******	
Ø1	7.6	9ØØ	1785	15157489	Ø.81Ø7Ø	6,Ø85	12,Ø69	
Ø2	7.5	81Ø	224Ø	15165886	Ø.8397Ø	5,673	15,687	
Ø3	7.5	1Ø8Ø	613Ø	1516599Ø	Ø.ØØ14Ø	13	72	
Ø4	7.9	24Ø	177Ø	15165ØØ2	Ø.ØØØ2Ø	Ø	3	
Ø5	NS	754	216Ø	15165ØØ2	Ø.ØØØØØ	Ø	Ø	*
Ø6	7.9	61Ø	249Ø	15167541	Ø.1639Ø	834	3,4Ø4	
Ø7	7.7	87Ø	197Ø	1517Ø163	Ø.2622Ø	1,9Ø2	4,3Ø8	
Ø8	7.7	825	32ØØ	15176235	Ø.6Ø72Ø	4,178	16,2Ø5	
Ø9	7.7	7Ø5	673	15184457	Ø.8222Ø	4,834	4,615	
1Ø	7.8	71Ø	183Ø	15191359	Ø.69Ø2Ø	4,Ø87	1Ø,534	
11	7.8	81Ø	162Ø	15197451	Ø.6Ø92Ø	4,115	8,231	
12	7.7	57Ø	5ØØ	152Ø9896	1.2445Ø	5,916	5,19Ø	
13	7.6	69Ø	1567	15216746	Ø.685ØØ	3,942	8,952	
14	7.6	715	13ØØ	15224939	Ø.8193Ø	4,886	8,883	
15	7.2	75Ø	647	15233371	Ø.8432Ø	5,274	4,55Ø	
16	7.6	655	114Ø	15241Ø16	Ø.7645Ø	4,176	7,269	
17	7.6	61Ø	9ØØ	15251176	1.Ø16ØØ	5,169	7,626	
18	7.6	67Ø	947	15259786	Ø.861ØØ	4,811	6,8ØØ	
19	NS	715	1259	15269744	Ø.9958Ø	5,938	1Ø,456	*
2Ø	7.6	645	1Ø5Ø	1527869Ø	Ø.8946Ø	4,812	7,834	
21	7.6	78Ø	1Ø1Ø	15287165	Ø.8475Ø	5,513	7,139	
22	7.7	96Ø	113Ø	15296138	Ø.8973Ø	7,184	8,456	
23	7.8	795	825	153Ø439Ø	Ø.8252Ø	5,471	5,678	
24	7.7	1Ø5Ø	224Ø	15311366	Ø.6976Ø	6,1Ø9	13,Ø32	
25	7.7	1Ø5Ø	2Ø2Ø	15317867	Ø.65Ø1Ø	5,693	1Ø,952	
26	7.8	78Ø	137Ø	15326291	Ø.8424Ø	5,48Ø	9,625	
27	7.7	87Ø	157Ø	1533351Ø	Ø.7219Ø	5,238	9,452	
28	7.6	1Ø5Ø	1413	15341342	Ø.7832Ø	6,858	9,23Ø	
29	7.7	1125	3Ø2Ø	15350415	Ø.9Ø73Ø	8,513	22,852	
3Ø	7.6	87Ø	186Ø	15358915	Ø.85ØØØ	6,167	13,186	
TOTAL					2Ø.9533Ø	138,873	252,288	
AVG.		789	1721		Ø.69844	4,629	8,41Ø	

REVIEWED BY: Mike Anderson DATE: 12/7/92

APPROVED BY: Walter L Thompson DATE: 12/8/92

* Denotes 12 day average for Suspended Solids.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — OCTOBER 1992
DAYS 31

DATE	pH (SU)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV	****	******	******	14887979	********	******	******	
Ø1	7.8	87Ø	153Ø	14895983	Ø.8ØØ4Ø	5,8Ø8	1Ø,213	
Ø2	7.1	96Ø	171Ø	149Ø3466	Ø.7483Ø	5,991	1Ø,672	
Ø3	7.7	695	93Ø	14914ØØ5	1.1Ø39Ø	6,399	8,562	
Ø4	7.8	65Ø	152Ø	14922691	Ø.8186Ø	4,438	1Ø,377	
Ø5	7.9	635	1545	14931796	Ø.91Ø5Ø	4,822	11,732	
Ø6	7.8	68Ø	176Ø	14937264	Ø.5468Ø	3,1Ø1	8,Ø26	
Ø7	7.9	81Ø	292Ø	14943604	Ø.634ØØ	4,283	15,44Ø	
Ø8	7.9	87Ø	182Ø	1495Ø159	Ø.6555Ø	4,756	9,95Ø	
Ø9	NS	799	1354	14958337	Ø.8178Ø	5,45Ø	9,235	*
1Ø	NS	799	1354	14968385	1.ØØ48Ø	6,696	11,347	*
11	7.9	735	1235	14978Ø1Ø	Ø.9625Ø	5,9ØØ	9,914	
12	7.7	87Ø	241Ø	14985863	Ø.7853Ø	5,698	15,784	
13	7.8	81Ø	1Ø4Ø	14993243	Ø.738ØØ	4,985	6,4Ø1	
14	7.7	75Ø	132Ø	15ØØ2Ø27	Ø.8784Ø	5,494	9,67Ø	
15	7.8	9ØØ	175Ø	15ØØ97Ø3	Ø.7676Ø	5,762	11,2Ø3	
16	7.7	111Ø	543Ø	15Ø168Ø3	Ø.71ØØØ	6,573	32,153	
17	7.7	62Ø	133Ø	15Ø259ØØ	Ø.9Ø97Ø	4,7Ø4	1Ø,Ø91	
18	7.8	615	1Ø6Ø	15Ø35514	Ø.9614Ø	4,931	8,499	
19	7.7	75Ø	271Ø	15Ø42215	Ø.67Ø1Ø	4,191	15,145	
2Ø	7.9	69Ø	154Ø	15Ø51386	Ø.9171Ø	5,278	11,779	
21	7.8	645	875	15Ø62228	1.Ø842Ø	5,832	7,912	
22	7.6	99Ø	2Ø3Ø	15Ø69672	Ø.7444Ø	6,146	12,6Ø3	
23	7.6	84Ø	388Ø	15Ø785Ø7	Ø.8835Ø	6,189	28,589	
24	7.6	78Ø	24ØØ	15Ø87412	Ø.89Ø5Ø	5,793	17,824	
25	7.6	81Ø	272Ø	15Ø96224	Ø.8812Ø	5,953	19,99Ø	
26	7.8	78Ø	19ØØ	151Ø5629	Ø.94Ø5Ø	6,118	14,9Ø3	
27	7.9	67Ø	156Ø	15114783	Ø.9154Ø	5,115	11,91Ø	
28	7.6	81Ø	3535	15123452	Ø.8669Ø	5,856	25,558	
29	7.8	56Ø	132Ø	15132Ø37	Ø.8585Ø	4,Ø1Ø	9,451	
3Ø	7.8	75Ø	237Ø	15141Ø36	Ø.8999Ø	5,629	17,787	
31	7.6	665	12ØØ	15149382	Ø.8346Ø	4,629	8,353	
TOTAL					26.14Ø3Ø	166,529	411,Ø72	
AVG.		772	1937		Ø.84324	5,372	13,26Ø	

REVIEWED BY: _____ DATE: 11-6-92

APPROVED BY: _____ DATE: 11/6/92

* Denotes 12 day average for Suspended Solids and BOD.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD

SEPTEMBER 1992
DAYS 30

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	14645269	********	******	******
01	7.6	540	410	14657896	1.26270	5,687	4,318
02	7.7	780	320	14666573	0.86770	5,645	2,316
03	7.7	900	890	14673556	0.69830	5,241	5,183
04	7.8	930	900	14681410	0.78540	6,092	5,895
05	7.7	780	740	14689528	0.81180	5,281	5,010
06	7.6	810	1490	14699193	0.96650	6,529	12,010
07	7.6	1050	1710	14707182	0.79890	6,996	11,393
08	7.7	810	960	14714263	0.70810	4,783	5,669
09	7.6	780	855	14721554	0.72910	4,743	5,199
10	7.6	990	1160	14729030	0.74760	6,173	7,233
11	7.4	990	1120	14734807	0.57770	4,770	5,396
12	7.6	780	2190	14743912	0.91050	5,923	16,630
13	7.7	750	2120	14752071	0.81590	5,103	14,426
14	7.6	712	1970	14759780	0.77090	4,578	12,666
15	7.8	640	730	14768921	0.91410	4,879	5,565
16	7.8	670	1820	14776587	0.76660	4,284	11,636
17	8.0	540	970	14783818	0.72310	3,257	5,850
18	7.7	680	630	14791256	0.74380	4,218	3,908
19	7.8	655	590	14800261	0.90050	4,919	4,431
20	7.9	702	690	14808808	0.85470	5,004	4,918
21	7.8	755	1410	14817199	0.83910	5,284	9,867
22	7.7	600	1080	14824787	0.75880	3,797	6,835
23	7.7	720	1090	14833029	0.82420	4,949	7,492
24	7.7	780	980	14841036	0.80070	5,209	6,544
25	7.6	1110	870	14849182	0.81460	7,541	5,911
26	7.7	1020	630	14857930	0.87480	7,442	4,596
27	7.8	870	950	14866380	0.84500	6,131	6,695
28	7.8	750	1050	14874050	0.76700	4,798	6,717
29	7.7	870	910	14881328	0.72780	5,281	5,524
30	7.7	930	1175	14887979	0.66510	5,159	6,518
TOTAL					24.27100	159,694	216,351
AVG.	7.7	796	1080		0.80903	5,323	7,212

REVIEWED BY: Chris DATE: 10/8/92

APPROVED BY: [illegible] DATE: 10-8-92

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — AUGUST 1992 — # DAYS 31

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	14384581	********	******	******
01	7.5	810	1920	14393243	0.86620	5,852	13,870
02	7.4	750	1130	14401009	0.77660	4,858	7,319
03	7.5	795	770	14407615	0.66060	4,380	4,242
04	7.0	840	900	14413813	0.61980	4,342	4,652
05	7.6	660	560	14420878	0.70650	3,889	3,300
06	7.6	720	880	14427401	0.65230	3,917	4,787
07	7.4	660	860	AVG.	0.79000	4,348	5,666
08	7.4	570	760	14443201	0.79000	3,756	5,007
09	7.5	632	1925	14449980	0.67790	3,573	10,883
10	7.7	450	2530	14457301	0.73210	2,748	15,447
11	7.8	640	2850	14464785	0.74840	3,995	17,789
12	7.6	570	850	14473296	0.85110	4,046	6,033
13	7.3	490	410	14484397	1.11010	4,537	3,796
14	7.5	565	680	14497272	1.28750	6,067	7,302
15	7.1	540	590	14505322	0.80500	3,625	3,961
16	7.5	510	610	14516712	1.13900	4,845	5,795
17	7.4	705	400	14525138	0.84260	4,954	2,811
18	7.5	665	780	14534557	0.94190	5,224	6,127
19	7.1	575	1380	14542912	0.83550	4,007	9,616
20	7.5	570	507	14553867	1.09550	5,208	4,632
21	7.2	620	920	14561276	0.74090	3,831	5,685
22	7.5	650	550	14570987	0.97110	5,264	4,454
23	7.4	630	520	14580417	0.94300	4,955	4,090
24	7.2	680	795	14589511	0.90940	5,157	6,030
25	7.7	810	870	14596583	0.70720	4,777	5,131
26	7.8	635	540	14604326	0.77430	4,101	3,487
27	7.8	715	840	14612255	0.79290	4,728	5,555
28	7.6	480	660	14619706	0.74510	2,983	4,101
29	7.6	610	940	14627438	0.77320	3,934	6,062
30	7.8	730	2250	14636716	0.92780	5,649	17,410
31	7.7	685	670	14645269	0.85530	4,886	4,779
TOTAL					26.06880	138,433	209,820
AVG.	7.5	644	995		0.84093	4,466	6,768

REVIEWED BY: Chris DATE: 9/4/92

APPROVED BY: WFL DATE: 9-9-92

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — JULY 1992 — # DAYS 31

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	14117701	********	******	******
01	7.5	730	1160	14124391	0.66900	4,073	6,472
02	7.6	720	793	14134120	0.97290	5,842	6,434
03	7.6	640	700	14144317	1.01970	5,443	5,953
04	7.6	420	290	14157632	1.33150	4,664	3,220
05	7.6	420	550	14168648	1.10160	3,859	5,053
06	7.7	575	480	14177045	0.83970	4,027	3,361
07	7.7	615	720	14191061	1.40160	7,189	8,416
08	7.6	648	1550	14198136	0.70750	3,824	9,146
09	7.9	640	255	14206832	0.86960	4,642	1,849
10	7.8	605	890	14214166	0.73340	3,701	5,444
11	7.7	605	2200	14222765	0.85990	4,339	15,777
12	7.7	620	1480	14231877	0.91120	4,712	11,247
13	7.8	635	795	14242678	1.08010	5,720	7,161
14	7.7	545	230	14253665	1.09870	4,994	2,108
15	7.7	575	620	14262898	0.92330	4,428	4,774
16	7.5	780	590	14269624	0.67260	4,375	3,310
17	7.6	930	870	14277541	0.79170	6,141	5,744
18	7.6	960	1940	14285108	0.75670	6,058	12,243
19	7.7	640	430	14294521	0.94130	5,024	3,376
20	7.6	695	415	14303221	0.87000	5,043	3,011
21	7.6	655	1040	14313655	1.04340	5,700	9,050
22	7.7	600	1080	14321387	0.77320	3,869	6,964
23	7.8	670	910	14329423	0.80360	4,490	6,099
24	7.6	750	640	2 DAY AVG.	0.80385	5,028	4,291
25	7.4	675	550	14345500	0.80385	4,525	3,687
26	7.4	750	680	14351575	0.60750	3,800	3,445
27	7.4	1140	500	14358927	0.73520	6,990	3,066
28	7.6	960	1410	14364936	0.60090	4,811	7,066
29	7.6	1065	1240	14371641	0.67050	5,955	6,934
30	7.6	930	610	14378793	0.71520	5,547	3,639
31	7.5	810	830	14384581	0.57880	3,910	4,007
TOTAL					26.68800	152,722	182,349
AVG.	7.6	710	853		0.86090	4,927	5,882

REVIEWED BY: Diane M. Noonan DATE: 8-6-92

APPROVED BY: CEH DATE: 8/10/92

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD

JUNE 1992
DAYS 30

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	13846494	********	******	******
01	7.8	705	1090	13855676	0.91820	5,399	8,347
02	7.8	605	380	13863226	0.75500	3,810	2,393
03	7.7	450	1140	13877685	1.44590	5,426	13,747
04	8.5	540	527	13887997	1.03120	4,644	4,532
05	7.6	540	710	13899320	1.13230	5,099	6,705
06	7.7	570	490	13909040	0.97200	4,621	3,972
07	7.8	430	1830	13921025	1.19850	4,298	18,292
08	8.2	585	402	13929669	0.86440	4,217	2,898
09	7.6	440	2480	13935548	0.58790	2,157	12,160
10	7.6	610	570	13944966	0.94180	4,791	4,477
11	7.6	625	480	13955148	1.01820	5,307	4,076
12	8.0	840	960	13961870	0.67220	4,709	5,382
13	7.5	840	1060	13969380	0.75100	5,261	6,639
14	7.6	870	1115	13977576	0.81960	5,947	7,622
15	7.5	1170	880	13984483	0.69070	6,740	5,069
16	7.5	1080	1340	13994198	0.97150	8,750	10,857
17	7.5	440	1880	14001512	0.73140	2,684	11,468
18	7.0	900	920	14008669	0.71570	5,372	5,491
19	7.1	900	1060	14017215	0.85460	6,415	7,555
20	7.6	745	310	14024957	0.77420	4,810	2,002
21	7.6	900	2390	14032494	0.75370	5,657	15,023
22	7.9	835	1060	14039510	0.70160	4,886	6,202
23	7.9	690	760	14047618	0.81080	4,666	5,139
24	7.7	810	710	14055121	0.75030	5,069	4,443
25	7.8	585	370	14065456	1.03350	5,042	3,189
26	7.7	900	530	14071837	0.63810	4,790	2,821
27	7.7	670	1410	14080370	0.85330	4,768	10,034
28	7.6	702	840	14090447	1.00770	5,900	7,060
29	7.8	570	2540	14102522	1.20750	5,740	25,579
30	8.7	140	1370	14117701	1.51790	1,772	17,343
TOTAL					27.12070	148,749	240,517
AVG.	7.7	690	1053		0.90402	4,958	8,017

REVIEWED BY: Chris DATE: 7/10/92

APPROVED BY: [illegible] DATE: 7/13/92

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — MAY 1992 — # DAYS 31

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	13584014	********	******	******
01	7.6	900	810	13590075	0.606100	4,549	4,094
02	7.7	810	840	13596763	0.668800	4,518	4,685
03	8.3	265	760	13605895	0.913200	2,018	5,788
04	8.2	71	660	13609424	0.352900	209	1,943
05	8.2	330	230	13612620	0.319600	880	613
06	8.0	40	265	13614125	0.150500	50	333
07	8.2	140	1720	13624227	1.010200	1,180	14,491
08	7.8	180	360	13631680	0.745300	1,119	2,238
09	8.1	160	165	13645375	1.369500	1,827	1,885
10	7.9	150	122	13661754	1.637900	2,049	1,667
11	7.8	190	387	13674125	1.237100	1,960	3,993
12	7.9	230	2710	13691035	1.691000	3,244	38,219
13	7.9	145	1305	13706697	1.566200	1,894	17,046
14	7.6	270	3200	13713254	0.655700	1,477	17,499
15	8.0	470	2900	13720100	0.684600	2,683	16,558
16	7.6	460	250	13727666	0.756600	2,903	1,578
17	7.0	430	1990	13735369	0.770300	2,762	12,784
18	7.2	525	1215	13741997	0.662800	2,902	6,716
19	7.6	500	1400	13747746	0.574900	2,397	6,713
20	7.2	560	1030	13753906	0.616000	2,877	5,292
21	7.5	350	473	13761154	0.724800	2,116	2,859
22	7.6	320	2130	13766787	0.563300	1,503	10,007
23	7.2	480	2240	13772155	0.536800	2,149	10,028
24	7.3	150	1890	13782406	1.025100	1,282	16,158
25	8.1	260	5190	13790282	0.787600	1,708	34,091
26	7.1	440	1480	13798423	0.814100	2,987	10,049
27	7.9	490	310	13806938	0.851500	3,480	2,201
28	7.9	640	367	13815597	0.865900	4,622	2,650
29	8.0	855	420	13824532	0.893500	6,371	3,130
30	8.0	530	530	13832905	0.837300	3,701	3,701
31	7.8	665	430	13846494	1.358900	7,537	4,873
TOTAL					26.248000	80,955	263,881
AVG.	7.7	387	1219		0.846710	2,611	8,512

REVIEWED BY: Chris DATE: 6/12/92

APPROVED BY: WLT DATE: 6-15-92

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — APRIL 1992 — # DAYS 30

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	13383556	********	******	******
01	7.6	810	2030	13389768	0.62120	4,196	10,517
02	7.7	570	2480	13395692	0.59240	2,816	12,253
03	7.9	750	2720	13399462	0.37700	2,358	8,552
04	7.6	675	450	13406017	0.65550	3,690	2,460
05	7.7	870	1220	13413337	0.73200	5,311	7,448
06	7.8	960	1140	13418973	0.56360	4,512	5,358
07	7.7	810	3630	13427339	0.83660	5,652	25,327
08	7.8	560	950	13433985	0.66460	3,104	5,266
09	7.1	690	1190	13442535	0.85500	4,920	8,486
10	7.6	690	1020	13451066	0.85310	4,909	7,257
11	7.6	750	1660	13459923	0.88570	5,540	12,262
12	7.6	720	985	13468761	0.88380	5,307	7,260
13	7.7	780	1550	13476383	0.76220	4,958	9,853
14	7.7	900	1420	13481900	0.55170	4,141	6,534
15	7.6	660	1840	13488356	0.64560	3,554	9,907
16	7.6	810	1810	13494572	0.62160	4,199	9,383
17	7.8	750	1640	13500077	0.55050	3,443	7,530
18	7.3	720	3140	13506010	0.59330	3,563	15,537
19	7.3	900	5260	13510237	0.42270	3,173	18,543
20	7.7	710	2790	13518101	0.78640	4,657	18,298
21	7.8	690	2580	13524517	0.64160	3,692	13,805
22	7.6	810	2165	13530949	0.64320	4,345	11,614
23	7.8	900	2450	13537089	0.61400	4,609	12,546
24	7.4	810	2510	13543337	0.62480	4,221	13,079
25	7.7	900	2670	13550186	0.68490	5,141	15,251
26	7.7	780	2460	13556790	0.66040	4,296	13,549
27	7.7	675	1020	13562929	0.61390	3,456	5,222
28	7.7	630	1360	13570518	0.75890	3,987	8,608
29	7.5	810	1360	13575764	0.52460	3,544	5,950
30	7.7	690	633	13584014	0.82500	4,748	4,355
TOTAL					20.04580	126,042	312,012
AVG.	7.6	759	1938		0.66819	4,201	10,400

REVIEWED BY: Chris DATE: 5-7-92

APPROVED BY: [signature] DATE: 5-20-92

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — MARCH 1992 — # DAYS 31

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	13178197	********	******	******
01	7.5	750	715	13185728	0.75310	4,711	4,491
02	7.4	690	660	13193154	0.74260	4,273	4,088
03	7.5	750	1080	13199241	0.60870	3,807	5,483
04	7.5	960	760	13206704	0.74630	5,975	4,730
05	7.0	1050	1010	13212861	0.61570	5,392	5,186
06	7.4	750	940	13218061	0.52000	3,253	4,077
07	7.5	930	1910	13223705	0.56440	4,378	8,991
08	7.3	810	1840	13229895	0.61900	4,182	9,499
09	7.7	700	1600	13237107	0.72120	4,210	9,624
10	7.7	440	1150	13246270	0.91630	3,362	8,788
11	7.8	535	3900	AVG	0.90000	4,016	29,273
12	8.3	645	1970	13255270	0.90000	4,841	14,787
13	7.6	660	1760	13261699	0.64290	3,539	9,437
14	7.7	750	2060	13268910	0.72110	4,510	12,389
15	7.6	810	1040	13277936	0.90260	6,097	7,829
16	7.5	640	1085	13285202	0.72660	3,878	6,575
17	7.7	660	1100	13291160	0.59580	3,280	5,466
18	7.6	630	720	13297588	0.64280	3,377	3,860
19	7.6	660	690	13304186	0.65980	3,632	3,797
20	7.5	720	920	13310762	0.65760	3,949	5,046
21	7.6	750	710	13317583	0.68210	4,267	4,039
22	7.6	900	645	13324382	0.67990	5,103	3,657
23	7.6	840	750	13330920	0.65380	4,580	4,090
24	7.6	900	660	13337949	0.70290	5,276	3,869
25	7.6	690	980	13345962	0.80130	4,611	6,549
26	7.7	930	1020	13352413	0.64510	5,004	5,488
27	7.6	990	930	13358515	0.61020	5,038	4,733
28	7.5	870	990	13364962	0.64470	4,678	5,323
29	7.6	960	1280	13370402	0.54400	4,355	5,807
30	7.6	840	510	13377578	0.71760	5,027	3,052
31	7.8	600	1460	13383556	0.59780	2,991	7,279
TOTAL					21.43590	135,593	217,300
AVG.	7.6	768	1189		0.69148	4,374	7,010

REVIEWED BY: Chris DATE: 4-8-92

APPROVED BY: WH DATE: 4-16-92

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD

FEBRUARY 1992
DAYS 29

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	12980861	********	******	******
01	7.7	840	1790	12987024	0.61630	4,318	9,200
02	7.6	1080	1040	12993458	0.64340	5,795	5,581
03	7.7	1245	2115	12999188	0.57300	5,950	10,107
04	7.7	960	800	13006966	0.77780	6,227	5,189
05	7.8	870	290	13013856	0.68900	4,999	1,666
06	7.6	840	1450	13020841	0.69850	4,893	8,447
07	6.9	930	1780	13026177	0.53360	4,139	7,921
08	7.7	885	910	13034809	0.86320	6,371	6,551
09	7.3	832	2160	13040891	0.60820	4,220	10,956
10	6.5	900	1350	13048967	0.80760	6,062	9,093
11	7.5	785	1100	13056065	0.70980	4,647	6,512
12	7.9	870	980	13063607	0.75420	5,472	6,164
13	7.8	900	1900	13071817	0.82100	6,162	13,010
14	7.4	750	2060	13080557	0.87400	5,467	15,016
15	7.8	855	640	13088088	0.75310	5,370	4,020
16	7.6	645	820	13096220	0.81320	4,374	5,561
17	7.6	870	1060	13101923	0.57030	4,138	5,042
18	7.7	744	850	13107666	0.57430	3,564	4,071
19	7.6	645	615	13114561	0.68950	3,709	3,537
20	7.7	810	1210	13121224	0.66630	4,501	6,724
21	7.7	915	930	13127072	0.58480	4,463	4,536
22	7.6	810	700	13134389	0.73170	4,943	4,272
23	7.5	825	1250	13141097	0.67080	4,615	6,993
24	7.6	990	1330	13148980	0.78830	6,509	8,744
25	7.5	825	1690	13153308	0.43280	2,978	6,100
26	7.5	795	1030	13160199	0.68910	4,569	5,920
27	7.7	150	2920	13167037	0.68380	855	16,652
28	7.3	930	1100	13171926	0.48890	3,792	4,485
29	7.5	840	770	13178197	0.62710	4,393	4,027
TOTAL					19.73360	137,496	206,097
AVG.	7.6	839	1263		0.68047	4,741	7,107

REVIEWED BY: Chris DATE: 3-6-92

APPROVED BY: Walt DATE: 3-9-92

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — JANUARY 1992 — # DAYS 31

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	12752485	********	******	******
01	7.5	870	1140	12761344	0.88590	6,428	8,423
02	7.7	655	870	12768787	0.74430	4,066	5,400
03	7.9	690	930	12775500	0.67130	3,863	5,207
04	8.4	1260	6230	12783008	0.75080	7,890	39,010
05	7.9	840	1150	12790736	0.77280	5,414	7,412
06	7.9	730	650	12798636	0.79000	4,810	4,283
07	7.9	600	1510	12808628	0.99920	5,000	12,583
08	7.9	631	254	12815488	0.68600	3,610	1,453
09	7.8	735	1040	12821859	0.63710	3,905	5,526
10	8.0	675	1270	12829545	0.76860	4,327	8,141
11	7.6	690	1450	12835991	0.64460	3,709	7,795
12	7.6	600	880	12844908	0.89170	4,462	6,544
13	7.9	600	845	12852836	0.79280	3,967	5,587
14	7.8	510	950	12861833	0.89970	3,827	7,128
15	8.0	530	930	12869507	0.76740	3,392	5,952
16	7.7	930	1060	12875323	0.58160	4,511	5,142
17	7.6	1020	1130	12881490	0.61670	5,246	5,812
18	7.7	780	1280	12889323	0.78330	5,096	8,362
19	7.7	878	1450	12898555	0.92320	6,760	11,164
20	7.6	765	1080	12906473	0.79180	5,052	7,132
21	7.7	840	890	12912729	0.62560	4,383	4,644
22	7.7	750	890	12918616	0.58870	3,682	4,370
23	7.5	690	1250	12923145	0.45290	2,606	4,721
24	7.6	490	1070	12929714	0.65690	2,684	5,862
25	7.5	618	3370	12940643	1.09290	5,633	30,717
26	7.8	652	1870	12945530	0.48870	2,657	7,622
27	8.0	840	2310	12950150	0.46200	3,237	8,901
28	7.6	885	3150	12956767	0.66170	4,884	17,384
29	7.9	780	615	12966685	0.99180	6,452	5,087
30	7.6	750	2800	12975208	0.85230	5,331	19,903
31	7.7	930	1560	12980861	0.56530	4,385	7,355
TOTAL					22.83760	141,269	284,621
AVG.	7.8	749	1480		0.73670	4,557	9,181

REVIEWED BY: Chris DATE: 2/7/92

APPROVED BY: Walter L Thompson DATE: 2/10/92

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — DECEMBER 1991 — # DAYS 31

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	12516386	********	******	******
01	7.4	840	1000	12525863	0.94770	6,639	7,904
02	7.2	750	1840	12535438	0.95750	5,989	14,693
03	7.3	840	1080	12543250	0.78120	5,473	7,036
04	7.2	915	2520	12551181	0.79310	6,052	16,668
05	7.7	855	2050	12558932	0.77510	5,527	13,252
06	7.6	900	1030	12567465	0.85330	6,405	7,330
07	7.3	750	980	12575973	0.85080	5,322	6,954
08	7.8	915	1880	12583295	0.73220	5,587	11,480
09	7.7	715	1040	12593267	0.99720	5,946	8,649
10	7.8	1035	1080	12600751	0.74840	6,460	6,741
11	7.8	1028	1375	12608854	0.81030	6,947	9,292
12	7.4	1350	960	12617058	0.82040	9,237	6,568
13	7.6	810	1060	12626331	0.92730	6,264	8,198
14	7.7	870	960	12632839	0.65080	4,722	5,211
15	8.3	870	1370	12641219	0.83800	6,080	9,575
16	7.4	825	330	12647825	0.66060	4,545	1,818
17	7.8	870	390	12655864	0.80390	5,833	2,615
18	7.6	795	300	12664326	0.84620	5,611	2,117
19	7.4	1080	440	12672819	0.84930	7,650	3,117
20	7.6	870	510	12680069	0.72500	5,260	3,084
21	7.5	810	1370	12688285	0.82160	5,550	9,387
22	7.9	968	2595	12700657	1.23720	9,988	26,776
23	8.1	180	590	12704567	0.39100	587	1,924
24	8.3	60	390		0.26245	131	854
25	8.3	60	390	12709816	0.26245	131	854
26	8.4	610	1450	12714796	0.49800	2,534	6,022
27	7.9	780	860	12723244	0.84480	5,496	6,059
28	7.7	780	1270	12729508	0.62640	4,075	6,635
29	7.8	700	1620	12735186	0.56780	3,315	7,671
30	8.1	915	680	12743636	0.84500	6,448	4,792
31	7.7	710	700	12752485	0.88490	5,240	5,166
TOTAL					23.60990	165,046	228,443
AVG.	7.7	789	1100		0.76161	5,324	7,369

REVIEWED BY: Chris DATE: 1/8/92

APPROVED BY: Walter Thompson DATE: 1-10-92

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — NOVEMBER 1991 — # DAYS 30

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	12252066	********	******	******
01	7.3	900	1010	12260890	0.88240	6,623	7,433
02	7.5	885	780	12270557	0.96670	7,135	6,289
03	7.1	1020	2070	12280085	0.95280	8,105	16,449
04	7.5	938	965	12288297	0.82120	6,424	6,609
05	7.4	810	2480	12299038	1.07410	7,256	22,216
06	7.4	825	890	12307533	0.84950	5,845	6,305
07	7.3	765	2650	12316052	0.85190	5,435	18,828
08	7.4	560	920	12326875	1.08230	5,055	8,304
09	7.7	530	370	12335871	0.89960	3,976	2,776
10	7.6	716	1060	12345245	0.93740	5,598	8,287
11	7.7	750	500	12353095	0.78500	4,910	3,273
12	7.6	840	1140	12362887	0.97920	6,860	9,310
13	7.2	780	1070	12373404	1.05170	6,842	9,385
14	7.5	885	880	12381980	0.85760	6,330	6,294
15	7.4	1110	930	12391251	0.92710	8,583	7,191
16	7.7	660	830	12399938	0.86870	4,782	6,013
17	7.6	655	970	12406716	0.67780	3,703	5,483
18	7.5	870	770	12414976	0.82600	5,993	5,304
19	7.4	810	750	12424660	0.96840	6,542	6,057
20	7.5	878	284	12431411	0.67510	4,943	1,599
21	7.9	960	990	12440921	0.95100	7,614	7,852
22	8.0	960	780	12447137	0.62160	4,977	4,044
23	7.6	990	850	12455134	0.79970	6,603	5,669
24	7.6	1118	1380	12464932	0.97980	9,136	11,277
25	7.7	930	1040	12471975	0.70430	5,463	6,109
26	7.5	720	3310	12481724	0.97490	5,854	26,913
27	7.5	660	1900	12491002	0.92780	5,107	14,702
28	7.6	615	1940	12501587	1.05850	5,429	17,126
29	7.6	960	1590	12508607	0.70200	5,620	9,309
30	7.6	720	1740	12516386	0.77790	4,671	11,289
TOTAL					26.43200	181,414	277,695
AVG.	7.5	827	1228		0.88107	6,047	9,256

REVIEWED BY: Chris DATE: 12-9-91

APPROVED BY: CLB DATE: 12/9/91

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD

OCTOBER 1991
DAYS 31

DATE	pH (S.U.)	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	******	11970370	********	******	******
01		735	740	11978498	0.81280	4,982	5,016
02		780	420	11986103	0.76050	4,947	2,664
03		870	510	11993455	0.73520	5,334	3,127
04		1095	630	12001067	0.76120	6,952	3,999
05		1065	1080	12008612	0.75450	6,702	6,796
06		975	710	12017586	0.89740	7,297	5,314
07	7.1	795	1140	12027575	0.99890	6,623	9,497
08	7.6	765	1420	12037089	0.95140	6,070	11,267
09	7.9	1110	3560	12049346	1.22570	11,347	36,392
10	7.3	825	3300	12060931	1.15850	7,971	31,884
11	7.2	900	2730	12070310	0.93790	7,040	21,354
12	7.6	960	1810	12080119	0.98090	7,853	14,807
13	7.6	870	1620	12089815	0.96960	7,035	13,100
14	7.7	1320	4180	12100934	1.11190	12,241	38,762
15	10.3	470	4080	12101036	0.01020	40	347
16	8.0	570	3430	12105406	0.43700	2,077	12,501
17	7.4	1320	4880	12116768	1.13620	12,508	46,242
18	7.6	1320	5430	12129496	1.27280	14,012	57,640
19	7.8	1665	1460	12139181	0.96850	13,449	11,793
20	7.7	982	1140	12147637	0.84560	6,925	8,040
21	7.5	840	1530	12161120	1.34830	9,446	17,205
22	7.6	735	900	12171468	1.03480	6,343	7,767
23	7.7	885	700	12180972	0.95040	7,015	5,548
24	7.8	870	900	12189531	0.85590	6,210	6,424
25	7.5	735	1050	12198875	0.93440	5,728	8,183
26	7.4	750	830	12207688	0.88130	5,513	6,101
27	7.6	705	690	12215782	0.80940	4,759	4,658
28	6.7	930	1510	12225630	0.98480	7,638	12,402
29	7.7	270	1180	12235311	0.96810	2,180	9,527
30	7.4	635	890	12243300	0.79890	4,231	5,930
31	7.2	870	1520	12252066	0.87660	6,360	11,112
TOTAL					28.16960	216,829	435,401
AVG.	7.6	891	1805		0.90870	6,994	14,045

REVIEWED BY: Chris DATE: 11-7-91

APPROVED BY: [illegible] DATE: 11/12/91

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — SEPTEMBER 1991
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	11725305	********	******	******
01	712	11975	11734392	0.90870	5,396	90,753
02	780	1470	11743443	0.90510	5,888	11,096
03	750	280	11750978	0.75350	4,713	1,760
04	930	830	11758316	0.73380	5,691	5,080
05	795	950	11765688	0.73720	4,888	5,841
06	840	560	11773325	0.76370	5,350	3,567
07	582	520	11781712	0.83870	4,071	3,637
08	1372	6770	11789659	0.79470	9,093	44,870
09	990	740	11797002	0.73430	6,063	4,532
10	960	130	11804541	0.75390	6,036	817
11	1290	2600	11809784	0.52430	5,641	11,369
12	975	2830	11817282	0.74980	6,097	17,697
13	1065	3060	11824493	0.72110	6,405	18,403
14	1050	780	11833909	0.94160	8,246	6,125
15	960	790	11842096	0.81870	6,555	5,394
16	1185	1160	11849545	0.74490	7,362	7,206
17	960	450	11858412	0.88670	7,099	3,328
18	945	490	11865168	0.67560	5,325	2,761
19	1275	1610	11871438	0.62700	6,667	8,419
20	810	940	11882215	1.07770	7,280	8,449
21	945	2940	11891531	0.93160	7,342	22,842
22	990	2950	11901890	1.03590	8,553	25,486
23	692	2035	11910803	0.89130	5,144	15,127
24	720	1840	11918261	0.74580	4,478	11,445
25	780	1240	11928765	1.05040	6,833	10,863
26	915	1510	11937111	0.83460	6,369	10,510
27	975	1210	11945240	0.81290	6,610	8,203
28	930	1090	AVG	0.84565	6,559	7,687
29	990	2350	11962153	0.84565	6,982	16,574
30	855	520	11970370	0.82170	5,859	3,564
TOTAL				24.50650	188,596	393,406
AVG.	934	1887		0.81688	6,287	13,114

REVIEWED BY: Chris DATE: 10-10-91

APPROVED BY: DO DATE: 11 Oct 91

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD AUGUST 1991
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	11406255	********	******	******
01	720	1200	11418668	1.24130	7,454	12,423
02	675	1160	11429976	1.13080	6,366	10,940
03	645	1380	11439340	0.93640	5,037	10,777
04	780	2980	11449908	1.05680	6,875	26,265
05	615	170	11458167	0.82590	4,236	1,171
06	650	380	11466553	0.83860	4,546	2,658
07	592	1430	11475494	0.89410	4,414	10,663
08	765	2080	11485589	1.00950	6,441	17,512
09	750	1520	11494121	0.85320	5,337	10,816
10	750	740	11506362	1.22410	7,657	7,555
11	750	950	11516489	1.01270	6,334	8,024
12	765	1340	11526037	0.95480	6,092	10,670
13	900	3030	11535391	0.93540	7,021	23,638
14	735	2050	11542167	0.67760	4,154	11,585
15	1020	890	11552768	1.06010	9,018	7,869
16	840	760	11562875	1.01070	7,081	6,406
17	840	1650	11572258	0.93830	6,573	12,912
18	1042	1810	11583600	1.13420	9,857	17,121
19	680	890	11595187	1.15870	6,571	8,601
20	700	1580	11607883	1.26960	7,412	16,730
21	540	1700	11622926	1.50430	6,775	21,328
22	690	1010	11634046	1.11200	6,399	9,367
23	530	970	11649637	1.55910	6,892	12,613
24	470	1520	11660012	1.03750	4,067	13,152
25	500	820	11671338	1.13260	4,723	7,746
26	780	1380	11680424	0.90860	5,911	10,457
27	810	890	11689107	0.86830	5,866	6,445
28	765	1395	11699541	1.04340	6,657	12,139
29	720	1150	11707663	0.81220	4,877	7,790
30	900	950	11716568	0.89050	6,684	7,055
31	855	1260	11725305	0.87370	6,230	9,181
TOTAL				31.90500	193,555	351,608
AVG.	735	1324		1.02919	6,244	11,342

REVIEWED BY: Chris DATE: 9-10-91

APPROVED BY: [illegible] DATE: 9/10/91

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — JULY 1991 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	11141049	********	******	******
01	1200	3000	11149330	0.82810	8,288	20,719
02	712	625	11156709	0.73790	4,382	3,846
03	960	633	11164652	0.79430	6,359	4,193
04	825	388	11172511	0.78590	5,407	2,543
05	780	328	11179789	0.72780	4,734	1,991
06	1020	820	11186382	0.65930	5,609	4,509
07	1089	740	11188814	0.24320	2,209	1,501
08	1230	4570	11191993	0.31790	3,261	12,116
09	960	2690	11196855	0.48620	3,893	10,908
10	810	910	11204540	0.76850	5,192	5,832
11	772	625	11213940	0.94000	6,052	4,900
12	840	1030	11221390	0.74500	5,219	6,400
13	825	760	11228203	0.68130	4,688	4,318
14	540	1430	11235856	0.76530	3,447	9,127
15	810	1740	11244291	0.84350	5,698	12,241
16	810	2190	11255459	1.11680	7,544	20,398
17	795	2500	11260555	0.50960	3,379	10,625
18	765	2066	11268889	0.83340	5,317	14,360
19	840	1440	11278029	0.91400	6,403	10,977
20	645	1730	11287589	0.95600	5,143	13,793
21	840	4120	11296051	0.84620	5,928	29,076
22	720	2700	11305407	0.93560	5,618	21,068
23	660	2210	11314100	0.86930	4,785	16,022
24	750	3030	11324285	1.01850	6,371	25,738
25	990	2060	11332319	0.80340	6,633	13,803
26	750	2110	11348066	1.57470	9,850	27,711
27	750	1400	11359285	1.12190	7,017	13,099
28	1020	4440	11370368	1.10830	9,428	41,040
29	700	1990	11382503	1.21350	7,084	20,140
30	730	820	11393916	1.14130	6,948	7,805
31	682	1075	11406255	1.23390	7,018	11,063
TOTAL				26.52060	178,905	401,862
AVG.	833	1812		0.85550	5,771	12,963

REVIEWED BY: Chris DATE: 8-8-91

APPROVED BY: CW DATE: 8/9/91

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JUNE 1991
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	10886464	********	******	******
01	870	285	10892797	0.63330	4,595	1,505
02	705	790	10900354	0.75570	4,443	4,979
03	675	200	10907074	0.67200	3,783	1,121
04	810	490	10915331	0.82570	5,578	3,374
05	660	195	10923489	0.81580	4,490	1,327
06	645	280	10932655	0.91660	4,931	2,140
07	810	365	10940381	0.77260	5,219	2,352
08	810	290	10947333	0.69520	4,696	1,681
09	685	160	10955304	0.79710	4,554	1,064
10	740	216	10962691	0.73870	4,559	1,331
11	765	370	10970448	0.77570	4,949	2,394
12	930	542	10979286	0.88380	6,855	3,995
13	408	2260	10985940	0.66540	2,264	12,542
14	645	1360	10991676	0.57360	3,086	6,506
15	840	1675	10997732	0.60560	4,243	8,460
16	680	788	11002694	0.49620	2,814	3,261
17	840	1260	11012911	1.02170	7,158	10,736
18	810	1430	11021200	0.82890	5,600	9,886
19	840	920	11028497	0.72970	5,112	5,599
20	855	1007	11032882	0.43850	3,127	3,683
21	930	2430	11043891	1.10090	8,539	22,311
22	435	1230	11054048	1.01570	3,685	10,419
23	540	600	11064953	1.09050	4,911	5,457
24	810	775	11073561	0.86080	5,815	5,564
25	1020	647	11080421	0.68600	5,836	3,702
26	990	885	11089414	0.89930	7,425	6,638
27	1140	3120	11100000	1.05860	10,065	27,546
28	1140	1670	11113001	1.30010	12,361	18,108
29	690	1010	11128052	1.50510	8,661	12,678
30	960	1665	11141049	1.29970	10,406	18,048
TOTAL				25.45850	169,759	218,404
AVG.	789	964		0.84862	5,659	7,280

REVIEWED BY: Diane M. Noonan DATE: 7-9-91

APPROVED BY: CWO DATE: 7/9/91

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — MAY 1991 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	10675573	********	******	******
01	750	955	10682302	0.67290	4,209	5,359
02	750	505	10687922	0.56200	3,515	2,367
03	780	495	10695675	0.77530	5,043	3,201
04	780	196	10702637	0.69620	4,529	1,138
05	620	160	10709710	0.70730	3,657	944
06	630	120	10716800	0.70900	3,725	710
07	705	210	10724579	0.77790	4,574	1,362
08	630	185	10731903	0.73240	3,848	1,130
09	645	113	10739237	0.73340	3,945	691
10	750	145	10747812	0.85750	5,364	1,037
11	675	760	10757021	0.92090	5,194	5,837
12	570	380	10768204	1.11830	5,316	3,544
13	265	2260	10777310	0.91060	2,013	17,163
14	0	0	10777310	0.00000	0	0
15	0	0	10777310	0.00000	0	0
16	0	0	10777311	0.00010	0	0
17	420	730	10778483	0.11720	411	714
18	280	310	10786209	0.77260	1,804	1,997
19	530	1300	10794898	0.86890	3,841	9,421
20	50	245	10802831	0.79330	331	1,621
21	630	760	10814266	1.14350	6,008	7,248
22	590	190	10822721	0.84550	4,160	1,340
23	735	185	10829865	0.71440	4,379	1,102
24	1245	216	10837046	0.71810	7,456	1,294
25	750	930	10845746	0.87000	5,442	6,748
26	720	110	10853997	0.82510	4,955	757
27	750	193	10862322	0.83250	5,207	1,340
28	885	180	10869549	0.72270	5,334	1,085
29	945	185	10876161	0.66120	5,211	1,020
30	855	502	10881796	0.56350	4,018	2,359
31	1035	425	10886464	0.46680	4,029	1,655
TOTAL				21.08910	117,510	84,183
AVG.	612	418		0.68029	3,791	2,716

REVIEWED BY: Chris DATE: 6-10-91

APPROVED BY: DWO DATE: 6/10/91

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD APRIL 1991
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	10437454	********	******	******
01	610	180	10445230	0.77760	3,956	1,167
02	810	1340	10451528	0.62980	4,255	7,038
03	750	192	10459197	0.76690	4,797	1,228
04	580	787	10465524	0.63270	3,060	4,153
05	690	620	10473385	0.78610	4,524	4,065
06	810	156	10480971	0.75860	5,125	987
07	915	44	10488314	0.73430	5,604	269
08	795	146	10495853	0.75390	4,999	918
09	750	244	10503181	0.73280	4,584	1,491
10	750	388	10510674	0.74930	4,687	2,425
11	735	763	10519165	0.84910	5,205	5,403
12	770	1288	10527298	0.81330	5,223	8,736
13	660	188	10535111	0.78130	4,301	1,225
14	608	244	10544155	0.90440	4,586	1,840
15	660	168	10551677	0.75220	4,140	1,054
16	720	208	10559622	0.79450	4,771	1,378
17	660	137	10570193	1.05710	5,819	1,208
18	600	90	10578064	0.78710	3,939	591
19	780	204	10586262	0.81980	5,333	1,395
20	750	132	10593823	0.75610	4,729	832
21	622	205	10601457	0.76340	3,960	1,305
22	810	380	10609933	0.84760	5,726	2,686
23	825	140	10617992	0.80590	5,545	941
24	750	240	10626986	0.89940	5,626	1,800
25	720	320	10635264	0.82780	4,971	2,209
26	765	320	10642148	0.68840	4,392	1,837
27	660	285	10650690	0.85420	4,702	2,030
28	690	170	10658674	0.79840	4,594	1,132
29	810	288	10667640	0.89660	6,057	2,154
30	630	880	10675573	0.79330	4,168	5,822
TOTAL				23.81190	143,375	69,322
AVER	723	358		0.79373	4,779	2,311

REVIEWED BY: Chris DATE: 5-8-91

APPROVED BY: CNO DATE: 5/8/91

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — MARCH 1991 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	10196672	********	******	******
01	750	210	10206040	0.93680	5,860	1,641
02	915	104	10213615	0.75750	5,781	657
03	810	228	10221844	0.82290	5,559	1,565
04	645	132	10229213	0.73690	3,964	811
05	630	727	10234698	0.54850	2,882	3,326
06	690	280	10242218	0.75200	4,327	1,756
07	1005	142	10249122	0.69040	5,787	818
08	930	258	10256092	0.69700	5,406	1,500
09	780	252	10263944	0.78520	5,108	1,650
10	900	272	10271073	0.71290	5,351	1,617
11	840	164	10277734	0.66610	4,666	911
12	690	296	10285586	0.78520	4,519	1,938
13	810	152	10293363	0.77770	5,254	986
14	915	132	10301490	0.81270	6,202	895
15	870	200	10308268	0.67780	4,918	1,131
16	720	228	10317038	0.87700	5,266	1,668
17	772	230	10325160	0.81220	5,229	1,558
18	870	667	10335306	1.01460	7,362	5,644
19	750	314	10342648	0.73420	4,592	1,923
20	780	220	10349756	0.71080	4,624	1,304
21	660	220	10358624	0.88680	4,881	1,627
22	750	83	10366416	0.77920	4,874	539
23	700	600	10374537	0.81210	4,741	4,064
24	615	496	10382992	0.84550	4,337	3,498
25	630	346	10391274	0.82820	4,352	2,390
26	572	165	10398515	0.72410	3,454	996
27	630	204	10405224	0.67090	3,525	1,141
28	720	315	10412426	0.72020	4,325	1,892
29	750	345	10422486	1.00600	6,293	2,895
30	615	304	10430480	0.79940	4,100	2,027
31	735	1020	10437454	0.69740	4,275	5,933
TOTAL				24.07820	151,812	60,299
AVER	756	300		0.77672	4,897	1,945

REVIEWED BY: Chris DATE: 4-10-91

APPROVED BY: WB DATE: 4.10.91

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — FEBRUARY 1991
DAYS 28

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	9969215	********	******	******
01	1020	372	9975776	0.65610	5,581	2,036
02	960	126	9984164	0.83880	6,716	881
03	625	60	9991080	0.69160	3,605	346
04	810	90	9997616	0.65360	4,415	491
05	765	82	10003887	0.62710	4,001	429
06	690	65	10011389	0.75020	4,317	407
07	770	480	10019851	0.84620	5,434	3,388
08	1020	230	10026720	0.68690	5,843	1,318
09	690	116	10032279	0.55590	3,199	538
10	695	112	10039970	0.76910	4,458	718
11	735	110	10046501	0.65310	4,003	599
12	720	144	10053100	0.65990	3,963	793
13	900	144	10059575	0.64750	4,860	778
14	870	92	10066434	0.68590	4,977	526
15	945	118	10072100	0.56660	4,466	558
16	840	156	10079240	0.71400	5,002	929
17	840	552	10085763	0.65230	4,570	3,003
18	885	234	10094728	0.89650	6,617	1,750
19	900	244	10100485	0.57570	4,321	1,172
20	720	280	10108484	0.79990	4,803	1,868
21	685	264	10118818	1.03340	5,904	2,275
22	690	310	10126195	0.73770	4,245	1,907
23	720	116	10132864	0.66690	4,005	645
24	462	1060	10141596	0.87320	3,365	7,719
25	210	860	10154061	1.24650	2,183	8,940
26	490	216	10164535	1.04740	4,280	1,887
27	595	132	10178906	1.43710	7,131	1,582
28	630	780	10196672	1.77660	9,335	11,557
TOTAL				22.74570	135,599	59,038
AVER	746	269		0.81235	4,843	2,109

REVIEWED BY: Chris DATE: 3-7-91

APPROVED BY: DC DATE: 3/25/91

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — JANUARY 1991 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	9745943	********	******	******
Ø1	665	64Ø	9751621	Ø.5678Ø	3,149	3,Ø31
Ø2	685	148	9759197	Ø.7576Ø	4,328	935
Ø3	75Ø	2Ø8	9766123	Ø.6926Ø	4,332	1,2Ø1
Ø4	87Ø	2593	9774434	Ø.8311Ø	6,Ø3Ø	17,973
Ø5	665	1455	9785349	1.Ø915Ø	6,Ø54	13,245
Ø6	69Ø	1Ø35	9790407	Ø.5Ø58Ø	2,911	4,366
Ø7	765	173	9797443	Ø.7Ø36Ø	4,489	1,Ø15
Ø8	24Ø	22Ø	9804427	Ø.6984Ø	1,398	1,281
Ø9	825	74Ø	9811998	Ø.7571Ø	5,2Ø9	4,673
1Ø	788	1Ø8	9819557	Ø.7559Ø	4,968	681
11	1530	14Ø	9826859	Ø.7302Ø	9,317	853
12	81Ø	92	9834540	Ø.7681Ø	5,189	589
13	765	166	9841144	Ø.6604Ø	4,213	914
14	885	36Ø	9849662	Ø.8518Ø	6,287	2,557
15	81Ø	622	9857630	Ø.7968Ø	5,383	4,133
16	63Ø	3Ø5	9865899	Ø.8269Ø	4,345	2,1Ø3
17	825	1Ø5	9872521	Ø.6622Ø	4,556	58Ø
18	1170	235	9880032	Ø.7511Ø	7,329	1,472
19	1350	272	9887181	Ø.7149Ø	8,Ø49	1,622
2Ø	1155	118	9894794	Ø.7613Ø	7,333	749
21	87Ø	32Ø	9901743	Ø.6949Ø	5,Ø42	1,855
22	78Ø	2ØØ	9908818	Ø.7Ø75Ø	4,6Ø2	1,18Ø
23	9ØØ	195	9916636	Ø.7818Ø	5,868	1,271
24	14Ø	547	9922834	Ø.6198Ø	724	2,828
25	16Ø	473	9929789	Ø.6955Ø	928	2,744
26	54Ø	6Ø7	9937Ø91	Ø.7302Ø	3,289	3,697
27	75Ø	176	9942271	Ø.518ØØ	3,24Ø	76Ø
28	645	1245	9948894	Ø.6623Ø	3,563	6,877
29	78Ø	693	9955641	Ø.6747Ø	4,389	3,9ØØ
3Ø	87Ø	14Ø	9962759	Ø.7118Ø	5,165	831
31	78Ø	128	9969215	Ø.6456Ø	4,2ØØ	689
TOTAL				22.3272Ø	145,879	9Ø,6Ø5
AVER	777	466		Ø.72Ø23	4,7Ø6	2,923

REVIEWED BY: Chris DATE: 2-6-91

APPROVED BY: CWO DATE: 2/8/91

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — DECEMBER 1990 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	9492390	********	******	******
01	615	164	9500132	0.77420	3,971	1,059
02	620	152	9508223	0.80910	4,184	1,026
03	605	447	9516367	0.81440	4,109	3,036
04	590	210	9523744	0.73770	3,630	1,292
05	735	473	9530711	0.69670	4,271	2,748
06	490	1228	9543416	1.27050	5,192	13,012
07	360	395	9553545	1.01290	3,041	3,337
08	590	655	9560975	0.74300	3,656	4,059
09	608	1330	9569888	0.89130	4,520	9,886
10	620	1380	9581400	1.15120	5,953	13,249
11	715	152	9588821	0.74210	4,425	941
12	663	268	9596015	0.71940	3,978	1,608
13	660	167	9602209	0.61940	3,409	863
14	570	210	9610538	0.83290	3,959	1,459
15	612	456	9618162	0.76240	3,891	2,899
16	590	172	9626269	0.81070	3,989	1,163
17	620	204	9636265	0.99960	5,169	1,701
18	530	295	9645283	0.90180	3,986	2,219
19	530	156	9654423	0.91400	4,040	1,189
20	600	525	9663549	0.91260	4,567	3,996
21	615	192	9672799	0.92500	4,744	1,481
22	530	396	9682549	0.97500	4,310	3,220
23	570	2065	9695446	1.28970	6,131	22,211
24	30	93	AVG	0.20390	51	158
25	30	93	9699524	0.20390	51	158
26	340	1230	9706933	0.74090	2,101	7,600
27	450	280	9715631	0.86980	3,264	2,031
28	608	165	9723392	0.77610	3,935	1,068
29	550	172	9730084	0.66920	3,070	960
30	590	160	9737118	0.70340	3,461	939
31	655	320	9745943	0.88250	4,821	2,355
TOTAL				25.35530	119,879	112,923
AVER	545	458		0.81791	3,867	3,643

REVIEWED BY: Chris DATE: 1-9-91

APPROVED BY: CNC DATE: 1/9/91

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — NOVEMBER 1990 — # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	9255549	********	******	******
01	425	780	9265081	0.95320	3,379	6,201
02	550	126	9273158	0.80770	3,705	849
03	510	336	9281316	0.81580	3,470	2,286
04	520	152	9289467	0.81510	3,535	1,033
05	640	135	9297516	0.80490	4,296	906
06	610	290	9305855	0.83390	4,242	2,017
07	590	880	9313140	0.72850	3,585	5,347
08	690	336	9320787	0.76470	4,401	2,143
09	670	285	9328102	0.73150	4,087	1,739
10	660	820	9336749	0.86470	4,760	5,914
11	590	225	9345142	0.83930	4,130	1,575
12	485	89	9354477	0.93350	3,776	693
13	470	82	9362744	0.82670	3,240	565
14	550	104	9370625	0.78810	3,615	684
15	548	430	9376917	0.62920	2,876	2,256
16	590	1287	9385081	0.81640	4,017	8,763
17	550	156	9393392	0.83110	3,812	1,081
18	490	283	9400551	0.71590	2,926	1,690
19	610	315	9408320	0.77690	3,952	2,041
20	530	184	9412530	0.42100	1,861	646
21	540	188	9420634	0.81040	3,650	1,271
22	590	180	9427940	0.73060	3,595	1,097
23	610	120	9435730	0.77900	3,963	780
24	605	176	9443448	0.77180	3,894	1,133
25	570	88	9451393	0.79450	3,777	583
26	650	345	9461820	1.04270	5,652	3,000
27	630	252	9471494	0.96740	5,083	2,033
28	240	970	9477502	0.60080	1,203	4,860
29	410	285	9484902	0.74000	2,530	1,759
30	570	155	9492390	0.74880	3,560	968
TOTAL				23.68410	110,572	65,911
AVER	556	335		0.78947	3,686	2,197

REVIEWED BY: Chris DATE: 12-6-90

APPROVED BY: DVO DATE: 12/6/90

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — OCTOBER 1990
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	8995248	********	******	******
01	630	260	9002402	0.71540	3,759	1,551
02	560	340	9007058	0.46560	2,175	1,320
03	585	316	9016665	0.96070	4,687	2,532
04	600	196	9025608	0.89430	4,475	1,462
05	572	1995	9032965	0.73570	3,510	12,241
06	510	496	9043279	1.03140	4,387	4,267
07	520	1380	9054400	1.11210	4,823	12,799
08	530	270	9062656	0.82560	3,649	1,859
09	670	590	9071209	0.85530	4,779	4,209
10	770	195	9078837	0.76280	4,899	1,241
11	690	330	9086451	0.76140	4,382	2,096
12	660	384	9094341	0.78900	4,343	2,527
13	655	1720	9101164	0.68230	3,727	9,787
14	115	405	9109762	0.85980	825	2,904
15	690	310	9117798	0.80360	4,624	2,078
16	720	395	9125989	0.81910	4,919	2,698
17	220	330	9133645	0.76560	1,405	2,107
18	710	275	9141331	0.76860	4,551	1,763
19	652	170	9148756	0.74250	4,037	1,053
20	625	200	9158045	0.92890	4,842	1,549
21	592	875	9170687	1.26420	6,242	9,225
22	170	490	9182384	1.16970	1,658	4,780
23	240	870	9189556	0.71720	1,436	5,204
24	370	315	9201262	1.17060	3,612	3,075
25	575	257	9208502	0.72400	3,472	1,552
26	600	445	9216072	0.75700	3,788	2,809
27	470	304	9225156	0.90840	3,561	2,303
28	485	324	9232857	0.77010	3,115	2,081
29	640	285	9239994	0.71370	3,809	1,696
30	530	175	9247622	0.76280	3,372	1,113
31	560	228	9255549	0.79270	3,702	1,507
TOTAL				26.03010	116,564	107,389
AVER	546	488		0.83968	3,760	3,464

REVIEWED BY: Chris DATE: 11-9-90

APPROVED BY: CVB DATE: 11/9/90

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — SEPTEMBER 1990
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	8735229	********	******	******
01	580	272	8744015	0.87860	4,250	1,993
02	600	184	8753023	0.90080	4,508	1,382
03	640	1440	8760904	0.78810	4,207	9,465
04	590	764	8769142	0.82380	4,054	5,249
05	575	372	8776996	0.78540	3,766	2,437
06	530	240	8785344	0.83480	3,690	1,671
07	590	200	8793372	0.80280	3,950	1,339
08	600	292	8801730	0.83580	4,182	2,035
09	610	185	8810111	0.83810	4,264	1,293
10	660	168	8818415	0.83040	4,571	1,163
11	490	275	8827111	0.86960	3,554	1,994
12	450	264	8837461	1.03500	3,884	2,279
13	465	347	8848083	1.06220	4,119	3,074
14	480	180	8859093	1.10100	4,408	1,653
15	460	132	8868934	0.98410	3,775	1,083
16	515	292	8877906	0.89720	3,854	2,185
17	695	140	8886874	0.89680	5,198	1,047
18	740	92	8897286	1.04120	6,426	799
19	530	104	8906244	0.89580	3,960	777
20	520	108	8915628	0.93840	4,070	845
21	490	263	8923626	0.79980	3,268	1,754
22	530	120	8928538	0.49120	2,171	492
23	530	102	8936962	0.84240	3,724	717
24	635	156	8944925	0.79630	4,217	1,036
25	590	296	8951895	0.69700	3,430	1,721
26	195	180	8961834	0.99390	1,616	1,492
27	590	278	8970690	0.88560	4,358	2,053
28	690	218	8978295	0.76050	4,376	1,383
29	510	216	8987372	0.90770	3,861	1,635
30	510	180	8995248	0.78760	3,350	1,182
TOTAL				26.00190	119,060	57,229
AVER	553	269		0.86673	3,969	1,908

REVIEWED BY: Chris DATE: 10-10-90

APPROVED BY: DWO DATE: 10/10/90

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — AUGUST 1990 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	8491295	********	******	******
01	715	172	8499017	0.77220	4,605	1,108
02	610	104	8507349	0.83320	4,239	723
03	390	230	8514861	0.75120	2,443	1,441
04	460	216	8523605	0.87440	3,355	1,575
05	520	170	8532287	0.86820	3,765	1,231
06	500	204	8539780	0.74930	3,125	1,275
07	665	1470	8549616	0.98360	5,455	12,059
08	620	515	8558344	0.87280	4,513	3,749
09	560	400	8568459	1.01150	4,724	3,374
10	620	265	8578703	1.02440	5,297	2,264
11	732	737	8583369	0.46660	2,849	2,868
12	870	240	8590193	0.68240	4,951	1,366
13	728	398	8598833	0.86400	5,246	2,868
14	590	210	8607689	0.88560	4,358	1,551
15	580	82	8615975	0.82860	4,008	567
16	710	78	8623954	0.79790	4,725	519
17	650	225	8633006	0.90520	4,907	1,699
18	635	232	8637941	0.49350	2,614	955
19	729	836	8645617	0.76760	4,667	5,352
20	610	175	8653780	0.81630	4,153	1,191
21	685	588	8660319	0.65390	3,736	3,207
22	708	430	8667162	0.68430	4,041	2,454
23	580	233	8673567	0.64050	3,098	1,245
24	360	252	8680733	0.71660	2,152	1,506
25	540	208	8688605	0.78720	3,545	1,366
26	695	244	8696226	0.76210	4,417	1,551
27	750	184	8704144	0.79180	4,953	1,215
28	570	920	8710959	0.68150	3,240	5,229
29	440	1280	8719157	0.81980	3,008	8,752
30	480	1298	8726136	0.69790	2,794	7,555
31	540	170	8735229	0.90930	4,095	1,289
TOTAL				24.39340	123,075	83,101
AVER	608	412		0.78688	3,970	2,681

REVIEWED BY: _____ DATE: 9-10-90

APPROVED BY: _____ DATE: 9/11/90

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — JULY 1990 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	8251988	********	******	******
01	480	124	8258270	0.628200	2,515	650
02	525	275	8264874	0.660400	2,892	1,515
03	555	1787	8272476	0.760200	3,519	11,330
04	70	214	8273844	0.136800	80	244
05	80	667	8274458	0.061400	41	342
06	25	234	8284680	1.022200	213	1,995
07	200	1400	8294754	1.007400	1,680	11,762
08	595	2860	8300427	0.567300	2,815	13,531
09	590	1910	8309524	0.909700	4,476	14,491
10	540	1230	8314496	0.497200	2,239	5,100
11	560	104	8322877	0.838100	3,914	727
12	515	81	8330494	0.761700	3,272	515
13	702	1465	8337867	0.737300	4,317	9,008
14	585	103	8346297	0.843000	4,113	724
15	655	220	8354451	0.815400	4,454	1,496
16	613	304	8365397	1.094600	5,596	2,775
17	550	214	8375336	0.993900	4,559	1,774
18	540	280	8385695	1.035900	4,665	2,419
19	520	66	8395548	0.985300	4,273	542
20	535	113	8404668	0.912000	4,069	859
21	480	200	8415107	1.043900	4,179	1,741
22	630	632	8423552	0.844500	4,437	4,451
23	665	160	8429791	0.623900	3,460	833
24	780	120	8437605	0.781400	5,083	782
25	690	188	8444512	0.690700	3,975	1,083
26	684	132	8452746	0.823400	4,697	906
27	698	117	8459440	0.669400	3,897	653
28	652	112	8467707	0.826700	4,495	772
29	530	80	8475775	0.806800	3,566	538
30	660	856	8483419	0.764400	4,208	5,457
31	640	200	8491295	0.787600	4,204	1,314
TOTAL				23.930700	109,903	100,331
AVER	534	531		0.771960	3,545	3,236

REVIEWED BY: _____ DATE: 8-7-90

APPROVED BY: _____ DATE: 8/8/90

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JUNE 1990
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	8026188	********	******	******
01	735	195	8033741	0.7553Ø	4,63Ø	1,228
02	655	408	8040983	0.7242Ø	3,956	2,464
03	618	172	8048548	0.7565Ø	3,899	1,Ø85
04	58Ø	208	8055776	0.7228Ø	3,496	1,254
05	84Ø	192	8063395	0.7619Ø	5,338	1,22Ø
06	779	144	8070886	0.7491Ø	4,867	9ØØ
07	58Ø	352	8078730	0.7844Ø	3,794	2,3Ø3
08	685	388	8086055	0.7325Ø	4,185	2,37Ø
09	64Ø	42Ø	8093235	0.718ØØ	3,832	2,515
1Ø	71Ø	672	8102517	0.9282Ø	5,496	5,2Ø2
11	745	42Ø	8111160	0.8643Ø	5,37Ø	3,Ø27
12	62Ø	353	8118492	0.7332Ø	3,791	2,159
13	645	234	8127379	0.8887Ø	4,781	1,734
14	5ØØ	232	8136278	0.8899Ø	3,711	1,722
15	51Ø	18Ø	8145465	0.9187Ø	3,9Ø8	1,379
16	52Ø	17Ø	8153886	0.8421Ø	3,652	1,194
17	655	276	8162761	0.8875Ø	4,848	2,Ø43
18	63Ø	15Ø	8169Ø82	0.6321Ø	3,321	791
19	18Ø	18Ø	8176Ø4Ø	0.6958Ø	1,Ø45	1,Ø45
2Ø	792	2Ø4	8183310	0.7270Ø	4,8Ø2	1,237
21	93Ø	1Ø15	8191498	0.8188Ø	6,351	6,931
22	2Ø5	584	8195804	0.4306Ø	736	2,Ø97
23	578	596	8200364	0.4560Ø	2,198	2,267
24	573	16Ø	8208411	0.8047Ø	3,846	1,Ø74
25	6ØØ	164	8214517	0.6106Ø	3,Ø55	835
26	69Ø	168	8222556	0.8039Ø	4,626	1,126
27	672	2ØØ	8230613	0.8057Ø	4,516	1,344
28	56Ø	352	8238886	0.8273Ø	3,864	2,429
29	16Ø	97Ø	8243851	0.4965Ø	663	4,Ø17
3Ø	46Ø	953	8251988	0.8137Ø	3,122	6,467
TOTAL				22.58ØØØ	115,698	65,459
AVER	6Ø2	357		Ø.75267	3,857	2,182

REVIEWED BY: Chris DATE: 7-10-90

APPROVED BY: WO DATE: 7/10/90

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — MAY 1990 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	7792027	********	******	******
01	560	184	7800112	0.80850	3,776	1,241
02	600	284	7807340	0.72280	3,617	1,712
03	620	970	7817466	1.01260	5,236	8,192
04	610	293	7824047	0.65810	3,348	1,608
05	735	856	7831519	0.74720	4,580	5,334
06	732	255	7838553	0.70340	4,294	1,496
07	675	226	7846239	0.76860	4,327	1,449
08	600	172	7853361	0.71220	3,564	1,022
09	585	520	7862301	0.89400	4,362	3,877
10	690	360	7870226	0.79250	4,561	2,379
11	685	380	7877011	0.67850	3,876	2,150
12	618	196	7884753	0.77420	3,990	1,266
13	570	680	7889566	0.48130	2,288	2,730
14	560	132	7897146	0.75800	3,540	834
15	490	252	7906290	0.91440	3,737	1,922
16	480	287	7913848	0.75580	3,026	1,809
17	750	284	7921012	0.71640	4,481	1,697
18	630	860	7926558	0.55460	2,914	3,978
19	650	440	7935113	0.85550	4,638	3,139
20	600	156	7943204	0.80910	4,049	1,053
21	705	186	7948239	0.50350	2,960	781
22	715	648	7956043	0.78040	4,654	4,218
23	660	364	7962438	0.63950	3,520	1,941
24	655	745	7971904	0.94660	5,171	5,882
25	525	360	7981985	1.00810	4,414	3,027
26	590	352	7991033	0.90480	4,452	2,656
27	600	695	8001011	0.99780	4,993	5,784
28	650	1230	8007740	0.67290	3,648	6,903
29	690	270	8012649	0.49090	2,825	1,105
30	960	1070	8019504	0.68550	5,488	6,117
31	675	316	8026188	0.66840	3,763	1,762
TOTAL				23.41610	124,091	89,062
AVER	641	452		0.75536	4,003	2,873

REVIEWED BY: _____ DATE: 6-7-90

APPROVED BY: _____ DATE: 6/11/90

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD APRIL 1990
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	7576989	********	******	******
01	530	207	7585588	0.85990	3,801	1,485
02	630	178	7592456	0.68680	3,609	1,020
03	810	136	7599754	0.72980	4,930	828
04	750	135	7606379	0.66250	4,144	746
05	712	392	7614163	0.77840	4,622	2,545
06	670	1400	7623203	0.90400	5,051	10,555
07	320	1035	7627683	0.44800	1,196	3,867
08	640	180	7634089	0.64060	3,419	962
09	540	132	7639280	0.51910	2,338	571
10	750	533	7645081	0.58010	3,629	2,579
11	900	2480	7652161	0.70800	5,314	14,644
12	605	556	7659263	0.71020	3,583	3,293
13	700	150	7666260	0.69970	4,085	875
14	580	1133	7673700	0.74400	3,599	7,030
15	440	104	7681269	0.75690	2,778	657
16	525	114	7687820	0.65510	2,868	623
17	555	138	7695665	0.78450	3,631	903
18	555	400	7702819	0.71540	3,311	2,387
19	615	380	7710069	0.72500	3,719	2,298
20	620	385	7717177	0.71080	3,675	2,282
21	730	932	7724756	0.75790	4,614	5,891
22	725	280	7732336	0.75800	4,583	1,770
23	680	245	7740107	0.77710	4,407	1,588
24	660	340	7746891	0.67840	3,734	1,924
25	570	204	7753515	0.66240	3,149	1,127
26	600	164	7761674	0.81590	4,083	1,116
27	705	256	7769035	0.73610	4,328	1,572
28	655	213	7777587	0.85520	4,672	1,519
29	510	300	7785279	0.76920	3,272	1,925
30	550	377	7792027	0.67480	3,095	2,122
TOTAL				21.50380	113,239	80,700
AVER	628	449		0.71679	3,775	2,690

REVIEWED BY: Chris DATE: 5-10-90

APPROVED BY: CWD DATE: 5/10/90

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — MARCH 1990 — # DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	7384656	********	******	******
01	. 695	448	7390654	0.59980	3,477	2,241
02	690	212	7395268	0.46140	2,655	816
03	720	268	7400040	0.47720	2,865	1,067
04	655	340	7404970	0.49300	2,693	1,398
05	728	296	7410426	0.54560	3,313	1,347
06	360	144	7417720	0.72940	2,190	876
07	470	940	7418536	0.08160	320	640
08	260	700	7421837	0.33010	716	1,927
09	670	2890	7427797	0.59600	3,330	14,365
10	570	308	7430734	0.29370	1,396	754
11	780	272	7438038	0.73040	4,751	1,657
12	605	152	7444958	0.69200	3,492	877
13	840	180	7451427	0.64690	4,532	971
14	900	216	7457612	0.61850	4,642	1,114
15	750	516	7466683	0.90710	5,674	3,904
16	645	550	7474645	0.79620	4,283	3,652
17	600	148	7481448	0.68030	3,404	840
18	650	232	7489462	0.80140	4,344	1,551
19	660	145	7497027	0.75650	4,164	915
20	735	145	7503841	0.68140	4,177	824
21	758	348	7509729	0.58880	3,722	1,709
22	760	133	7515639	0.59100	3,746	656
23	620	136	7522288	0.66490	3,438	754
24	665	160	7529477	0.71890	3,987	959
25	735	170	7536225	0.67480	4,136	957
26	735	110	7542257	0.60320	3,698	553
27	550	140	7549242	0.69850	3,204	816
28	770	490	7556873	0.76310	4,900	3,118
29	670	268	7564659	0.77860	4,351	1,740
30	830	417	7571938	0.72790	5,039	2,531
31	720	2453	7576989	0.50510	3,033	10,333
TOTAL				19.23330	109,673	65,862
AVER	671	449		0.62043	3,538	2,125

REVIEWED BY: Chris DATE: 4-6-90

APPROVED BY: CWO DATE: 4/9/90

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — FEBRUARY 1990 — # DAYS 28

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	7200962	********	******	******
01	900	835	7210409	0.94470	7,091	6,579
02	640	720	7220383	0.99740	5,324	5,989
03	745	1904	7228180	0.77970	4,845	12,381
04	628	260	7235206	0.70260	3,680	1,524
05	360	124	7238569	0.33630	1,010	348
06	540	200	7244624	0.60550	2,727	1,010
07	545	135	7252324	0.77000	3,500	867
08	648	84	7260216	0.78920	4,265	553
09	570	158	7266433	0.62170	2,955	819
10	665	204	7273129	0.66960	3,714	1,139
11	595	140	7279589	0.64600	3,206	754
12	720	1012	7285774	0.61850	3,714	5,220
13	525	632	7292831	0.70570	3,090	3,720
14	535	328	7302572	0.97410	4,346	2,665
15	650	403	7311635	0.90630	4,913	3,046
16	770	287	7315139	0.35040	2,250	839
17	785	230	7321763	0.66240	4,337	1,271
18	600	310	7328967	0.72040	3,605	1,863
19	655	182	7335064	0.60970	3,331	925
20	630	152	7340209	0.51450	2,703	652
21	945	176	7346507	0.62980	4,964	924
22	600	160	7352327	0.58200	2,912	777
23	492	154	7356556	0.42290	1,735	543
24	600	176	7363359	0.68030	3,404	999
25	640	328	7368638	0.52790	2,818	1,444
26	930	2280	7375209	0.65710	5,097	12,495
27	810	376	7379649	0.44400	2,999	1,392
28	825	192	7384656	0.50070	3,445	802
TOTAL				18.36940	101,979	71,539
AVER	662	434		0.65605	3,642	2,555

REVIEWED BY: Diane Norman DATE: 3/7/90

APPROVED BY: CWO DATE: 3/7/90

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JANUARY 1990
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	7001780	********	******	******
01	350	376	7006758	0.49780	1,453	1,561
02	610	1508	7011892	0.51340	2,612	6,457
03	734	4487	7018241	0.63490	3,887	23,759
04	690	680	7023880	0.56390	3,245	3,198
05	780	245	7028794	0.49140	3,197	1,004
06	685	200	7034786	0.59920	3,423	999
07	742	796	7039938	0.51520	3,188	3,420
08	670	548	7044357	0.44190	2,469	2,020
09	900	256	7051543	0.71860	5,394	1,534
10	990	392	7058425	0.68820	5,682	2,250
11	870	316	7065189	0.67640	4,908	1,783
12	720	427	7071825	0.66360	3,985	2,363
13	675	248	7077346	0.55210	3,108	1,142
14	610	184	7083850	0.65040	3,309	998
15	560	220	7090243	0.63930	2,986	1,173
16	622	146	7096275	0.60320	3,129	734
17	780	1008	7102034	0.57590	3,746	4,841
18	975	910	7109559	0.75250	6,119	5,711
19	585	425	7118360	0.88010	4,294	3,120
20	678	220	7125842	0.74820	4,231	1,373
21	655	436	7133374	0.75320	4,115	2,739
22	690	648	7139357	0.59830	3,443	3,233
23	660	296	7147474	0.81170	4,468	2,004
24	620	256	7154327	0.68530	3,544	1,463
25	795	1450	7161803	0.74760	4,957	9,041
26	660	212	7167462	0.56590	3,115	1,001
27	675	148	7174398	0.69360	3,905	856
28	810	3400	7179098	0.47000	3,175	13,327
29	650	144	7185954	0.68560	3,717	823
30	900	974	7192859	0.69050	5,183	5,609
31	825	552	7200962	0.81030	5,575	3,730
TOTAL				19.91820	119,559	113,267
AVER	715	713		0.64252	3,857	3,654

REVIEWED BY: Chris DATE: 2-7-90

APPROVED BY: CW DATE: 2/8/90

RESPONSES TO:

#16 Process Wastewater
St. Regis

FIN L EFFLUENT SHEET

DATE 1/18/82
TIME 13.49.32

PLANT- ST. LOUIS-FOUNTAIN WACC 43

DAY	BOD MG/L	BOD LBS.	SS MG/L	SS LBS.	FLOW
01	370	1,[illegible]	564	1,[illegible]63	.39680
02	165	89	64	34	.06450
03	240	92	340	409	.14100
04	223	53	192	45	.02830
05	26[illegible]	384	156	229	.17550
06	[illegible]	22	52	5	.01120
07	155	7[illegible]	41[illegible]	3,341	.56870
08	375	181	2730	1,319	.05730
09	[illegible]	[illegible]	208	29	.01660
10	115	47	92	38	.04920
11	[illegible]	[illegible]	735	1,940	.31630
12	[illegible]	7	56	333	.84150
13	4	[illegible]7	104	755	.86970
14	320	138	600	[illegible]	.05160
[illegible]	175	[illegible]	410	120	.03520
16	[illegible]	6	320	16	.00610
17	720	[illegible]	105	780	.05890
18	170	[illegible]	88	12	.01630
1[illegible]	[illegible]	[illegible]	229	73	.03840
[illegible]	120	[illegible]	56	14	.03000
[illegible]		[illegible]	193	2	.00750
[illegible]	74	66	112	95	.10130
23	[illegible]	441	465	1,257	.52400
24				0	.00000
25	[illegible]	114	9	37	.55650
26	45	46	30	37	.33760
27	50	22	56	16	.05490
28	40	13	124	413	.38900
29	45	134	112	334	.35750
30	25	67	48	120	.32120
31	40	121	36	100	.33250
TOTAL	[illegible]	6,00[illegible]	10024	14,657	6.63520
AVG AS OF THIS MONTH					
	155	20	334	489	.22117

PLANT- ST. REGIS-FOUTMAIN WACO A3

	---COD------		-----SS------		FLOW
	G/L	LBS.	MG/L	LBS.	
DAY					
01	30	55	112	207	.22110
02	298	257	528	508	.11540
03	292	111	148	56	.04570
04	223	122	190	99	.06570
05	240	13	225	122	.06510
06	193	925	470	2,147	.54750
07	20	30	28	43	.18190
08	40	91	120	272	.27160
09	410	35	444	379	.10220
10	490	424	724	627	.10380
11	232	53	345	79	.02750
12	265	379	116	166	.17150
13	150	358	1825	4,359	.28620
14	15	55	44	160	.43660
15	40	133	84	279	.39820
16	185	107	930	540	.06960
17	270	391	1150	1,667	.17370
18	375	503	550	778	.16070
19	285	316	276	306	.13290
20	285	564	272	538	.23710
21	233	253	390	423	.13000
22	200	136	164	107	.07840
23	298	427	540	773	.17160
24	350	742	360	763	.25400
25	45	98	255	554	.26050
26	25	37	9	12	.17710
27	216	225	80	83	.12460
28	50	54	36	39	.13030
29	5	5	412	644	.18720
30	185	979	280	1,481	.63400
31		0		0	.00000
TO	5350	8,318	11126	18,211	5.96170
AVERAGE DAY THIS MONTH					
	193	277	370	607	.19872

WSM

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 3
DATE 11/18/81
TIME 12.18.17

PLANT- ST. REGIS-MOUNTAIN WACC A3

DAY	--BOD-- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	[illegible]	[illegible]	60	74	.14680
02	[illegible]	104	132	153	.13900
03	[illegible]	[illegible]	32	63	.23660
04	[illegible]	342	32	88	.32860
05	[illegible]	[illegible]	156	444	.34100
06	[illegible]	[illegible]	216	16	.00870
07	[illegible]	35	76	11	.01790
08	[illegible]	16	116	8	.00780
09	110	[illegible]	244	426	.20940
10	60	[illegible]	20	52	.31440
11	[illegible]	[illegible]	28	60	.25640
12	63	[illegible]	204	193	.11350
13	[illegible]	[illegible]	425	1,796	.50650
14	[illegible]	[illegible]	445	445	.11990
15	[illegible]	51	[illegible]	52	.02190
16	28	469	430	685	.24660
17	10	19	24	46	.23090
18	40	52	60	123	.24650
19	360	723	520	1,045	.24080
20	[illegible]	[illegible]	220	248	.13490
21	300	521	368	639	.20820
22	315	212	256	172	.08060
23	[illegible]	509	270	609	.27050
24	30	48	52	83	.19050
25	[illegible]	[illegible]	64	135	.25310
26	[illegible]	[illegible]	[illegible]	1,205	.53100
27	240	8	920	29	.00380
28	270	30	1610	180	.01340
29	280	15	1200	66	.00660
30	313	[illegible]	1970	4,455	.27100
31	30	61	196	398	.24350
TO	[illegible]	[illegible]	10903	14,199	5.93970
AVERAGE DAY THIS MONTH					
	[illegible]	[illegible]	351	458	.19160

ITY OF CATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 3
DATE 10/19/81
TIME 10.26.51

PLANT- T. [illegible] IS-FOUNTAIN W [illegible]

					FLLW
	/L	L S.	C/L	LBS.	
[illegible]					
0	0			3	.0008
0	0	[illegible]	[illegible]	11	.00101
0	[illegible]	7	[illegible]	[illegible]	.00261
04	0	[illegible]	[illegible]	[illegible]	.16613
0	[illegible]	64	0	77[illegible]	.[illegible]
06	0	[illegible]	[illegible]	75	.24890
07	8	[illegible]	[illegible]	4	.2705
08	[illegible]	27	[illegible]	[illegible]	.08360
09	[illegible]	11[illegible]	[illegible]	1[illegible]	.0[illegible]80
10	[illegible]	25		[illegible]	.00470
11	70	1,084	67	9[illegible]	.16870
1		1[illegible]7		87	.21610
13	[illegible]	[illegible]	[illegible]	66	.24670
14	[illegible]	45		10	.02290
15		17	[illegible]	18	.00910
16	[illegible]	[illegible]	[illegible]	7	.00020
17	[illegible]	1	9[illegible]	2	.00020
18	[illegible]	[illegible]	744	[illegible]	.27960
19	[illegible]	[illegible]	[illegible]	[illegible]77	.2[illegible]44
20	[illegible]	[illegible]		75	.28200
21	[illegible]	[illegible]	[illegible]	944	.23[illegible]
2[illegible]	7	10	7[illegible]	14[illegible]	.04460
23	[illegible]	54	1[illegible]4	26	.01920
24	[illegible]	57	[illegible]	[illegible]0	.02720
2[illegible]	75	[illegible]	[illegible]	534	.21060
26	5	11[illegible]	[illegible]	[illegible]	.24[illegible]20
27	[illegible]	104		94	.31290
28	[illegible]		[illegible]		.07390
29	[illegible]	[illegible]	[illegible]	118	.17720
30	[illegible]	[illegible]	[illegible]	72	.15420
31		[illegible]		0	.00000
TO	[illegible]	[illegible],179	[illegible]	[illegible],606	4.12100
AVER[illegible] DAY THIS MONTH					
	[illegible]	[illegible]	[illegible]	4[illegible]0	.13737

WSM200

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 6
DATE 9/23/81
TIME 15.50.05

PLANT- ST. REGIS-FOUNTAIN WACC 06

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	304	453	282	420	.17840
02	120	190	20	32	.18970
03	10	16	36	57	.18940
04	20	39	24	47	.23310
05	65	67	4	4	.12370
06	218	271	128	159	.14900
07	218	452	128	265	.24850
08	115	374	20	65	.38970
09	233	942	912	3,687	.48450
10	720	153	276	59	.02550
11	440	136	216	67	.03710
12	380	5	188	3	.00160
13	720	29	1730	71	.00490
14	620	527	744	632	.10180
15	65	177	36	98	.32540
16	110	329	380	1,138	.35880
17	235	45	380	74	.02320
18	640	702	1510	1,656	.13140
19	410	575	880	1,235	.16820
20	330	289	544	476	.10490
21	360	890	804	1,989	.29640
22	228	779	16	55	.40930
23	160	595	192	714	.44550
24	295	154	1400	733	.06270
25	348	194	464	259	.06680
26	318	64	280	56	.02400
27	315	126	316	126	.04790
28	760	1,495	404	795	.23580
29	85	359	28	118	.50590
30	90	323	1	4	.43010
31	245	316	470	606	.15460
TO	9177	11,066	12813	15,700	6.14780
AVERAGE DAY THIS MONTH	296	357	413	506	.19832

PLANT- ST. REGIS-FOUNTAIN WACO 06

	---BOD---		-----SS-----		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	390	7	510	9	.00200
02	218	125	216	124	.06880
03	95	190	188	377	.24020
04	125	280	32	72	.26860
05	60	132	8	18	.26460
06	140	10	28	2	.00840
07	88	165	12	22	.22460
08	90	192	24	51	.25590
09	120	242	16	32	.24190
10	130	398	24	72	.35760
11	75	205	9	22	.32760
12	85	335	28	110	.47190
13	135	115	91	78	.10240
14	420	185	576	253	.05270
15	119	0	79	0	.00020
16	119	0	79	0	.00020
17	90	35	224	220	.11770
18	103	313	78	237	.36410
19	103	385	78	291	.44760
20	215	0	216	0	.00000
21	328	133	232	94	.04860
22	193	0	378	1	.00030
23	290	2	880	6	.00030
24	215	624	272	789	.34780
25	215	1,055	272	1,336	.58810
26	164	903	250	1,376	.65970
27	282	98	140	40	.03430
28	230	47	360	73	.02440
29	580	87	124	19	.01800
30	590	60	34	9	.01220
31	510	1,342	472	1,242	.31530
TOT	6517	7,691	5929	6,974	5.96650
AVERAGE DAY THIS MONTH					
	210	248	191	225	.19255

PLANT- ST. REGIS-FOUNTAIN WACC 06

DAY	---BOD--- MG/L	LBS.	---SS--- MG/L	LBS.	FLOW
01	365	11	14260	68	.00360
02	235	3	510	6	.00150
03	490	164	9720	3,245	.04000
04	115	0	392	0	.00000
05	260	131	604	303	.06020
06	263	80	1580	481	.03650
07	293	115	440	172	.04690
08	288	31	408	44	.01270
09	270	43	188	30	.01910
10	203	28	3420	468	.01640
11	328	25	656	49	.00900
12	510	196	1420	545	.04600
13	390	45	3960	456	.01380
14	460	376	4190	3,427	.09800
15	393	275	6230	4,357	.08380
16	145	9	1010	65	.00770
17	700	110	432	68	.01880
18	680	90	144	19	.01590
19	268	539	32	70	.24340
20	263	17	252	18	.00860
21	278	56	132	27	.02420
22	243	196	204	164	.09660
23	520	79	468	71	.01810
24	510	0	516	0	.00000
25	298	41	760	105	.01650
26	218	37	1060	179	.02020
27	353	5	1100	17	.00180
28	373	0	148	0	.00000
29	290	12	216	9	.00500
30	245	29	13260	149	.01400
31		0		0	.00000
TO	10247	2,795	67720	14,612	.99850
AVERA E DAY THIS MONTH	341	93	2257	487	578,765

PLANT- ST. REGIS-FOUNTAIN WWCC 06

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	365	11	14260	68	.00260
02	235	3	516	6	.00150
03	490	164	9720	3,245	.04000
04	115	0	394	0	.00000
05	260	131	604	303	.06020
06	263	80	1580	481	.03650
07	293	115	440	172	.04690
08	288	31	408	44	.01290
09	270	43	188	30	.01910
10	203	28	3420	468	.01640
11	328	25	656	49	.00900
12	510	196	1420	545	.04600
13	390	45	3960	456	.01380
14	460	376	4190	3,427	.09800
15	393	275	6230	4,357	.08380
16	145	9	1010	65	.00770
17	700	110	432	68	.01880
18	680	90	144	19	.01590
19	268	589	32	70	.26340
20	263	19	252	18	.00860
21	278	56	132	27	.02420
22	243	196	204	164	.09660
23	520	79	468	71	.01810
24	510	0	516	0	.00000
25	298	41	760	105	.01650
26	218	37	1060	179	.02020
27	353	5	1100	17	.00180
28	373	0	148	0	.00000
29	290	12	216	9	.00500
30	245	29	13260	149	.01400
31		0		0	.00000
TO	10247	2,795	67720	14,612	.99850
AVERAGE DAY THIS MONTH	341	93	2257	487	578,765

PLANT- ST. REGIS-FOUNTAIN WACC 06

	---BOD---		---SS---		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	320	139	450	193	.05140
02	35	66	64	121	.22730
03	190	596	330	1,035	.37580
04	380	339	320	285	.10690
05	188	20	60	6	.01280
06	95	0	116	0	.00000
07	343	787	684	1,569	.27490
08	328	720	820	1,800	.26300
09	173	807	272	1,269	.55920
10	258	910	331	1,167	.42250
11	620	730	140	165	.14100
12	205	100	168	82	.05840
13	410	13	36	1	.00390
14	315	13	236	10	.00500
15	215	0	610	1	.00020
16	340	7	2340	30	.00150
17	330	14	560	24	.00520
18	105	30	236	68	.03430
19	730	1	652	1	.00010
20	770	0	1670	0	.00000
21	700	0	524	0	.00000
22	680	112	1800	297	.01980
23	223	644	609	1,756	.34600
24	188	879	56	262	.56040
25	300	1,586	108	571	.63350
26	320	181	104	59	.06790
27	230	46	140	28	.02380
28	302	37	116	14	.01460
29	348	167	96	46	.05760
30	253	131	100	52	.06200
31	293	36	84	10	.01470
TOT	10392	9,111	13881	10,922	4.34370
AVERAGE - DAY THIS MONTH					
	335	294	447	352	2

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CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 6
DATE 5/21/81
TIME 14.45.32

PLANT- ST. REGIS-FOUNTAIN WACC 06

DAY	BOD MG/L	BOD LBS.	SS MG/L	SS LBS.	FLOW
01	340	41	304	37	.01440
02	370	201	548	298	.06510
03	240	794	424	1,403	.39640
04	303	196	396	256	.07740
05	440	377	350	300	.10280
06	330	[illegible]	392	165	.05050
07	80	[illegible]	248	1,724	.83280
08	304	93	541	165	.03650
09	304	371	541	661	.14640
10	440	[illegible]	340	413	.14560
11	490	280	420	240	.06850
12	438	169	440	170	.04630
13	640	426	1920	1,277	.07970
14	480	771	992	1,594	.19260
15	390	254	630	411	.07810
16	110	442	128	515	.48180
17	320	945	468	1,441	.35390
18	320	926	438	1,412	.34670
19	320	1,391	483	2,121	.52090
20	710	746	336	353	.12590
21	318	195	430	293	.07450
22	410	201	330	162	.05080
23	750	355	1090	516	.05670
24	710	1,312	930	1,718	.22140
25	130	635	16	78	.58540
26	90	367	124	506	.48870
27	275	84	350	107	.03630
28	332	32	270	26	.01170
29	300	43	440	62	.01700
30	258	39	300	104	.04150
31		0		0	.00000
TOT	10,942	12,969	9744	8,533	5.75480
AVERAGE DAY THIS MONTH					
	364	432	491	611	.19183

1240 20
471 233
[illegible] 817

APK 61

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PLANT- ST. REGIS-FOUNTAIN WACC 06

	---BOD---		-----SS-----		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	508	1,636	599	1,929	.38590
02	265	28	664	70	.01260
03	318	54	172	29	.02050
04	115	40	268	93	.04140
05	520	167	388	125	.03850
06	440	210	1930	920	.05710
07	337	21	2400	148	.00740
08	380	62	1050	171	.01950
09	342	66	156	30	.02310
10	270	72	1445	386	.03200
11	335	28	585	49	.01000
12	490	104	472	100	.02550
13	600	755	1140	1,434	.15070
14	60	147	152	373	.29390
15	65	135	68	141	.24890
16	55	98	4	7	.21380
17	100	215	44	95	.25780
18	295	616	84	176	.25040
19	85	146	120	206	.20550
20	75	138	52	96	.22080
21	50	123	60	148	.29590
22	65	179	36	99	.33040
23	210	737	140	492	.42070
24	253	46	284	51	.02170
25	135	0	324	1	.00030
26	195	15	300	23	.00900
27	155	29	216	39	.02190
28	490	236	1870	893	.05760
29	340	148	745	325	.05230
30	328	42	488	63	.01550
31	235	400	512	385	.20710
TOT	8111	6,696	16768	9,603	3.94760
AVE AGE DAY THIS MONTH					
	261	216	540	310	.12734

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PLANT- ST. REGIS-FOUNTAIN WACO 06

	---BOD---		-----SS-----		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	640	822	810	1,041	.15400
02	312	23	408	31	.00900
03	330	179	515	279	.06500
04	292	46	420	67	.01900
05	312	14	400	18	.00530
06	258	181	745	523	.08410
07	110	619	176	990	.67380
08	40	182	320	1,458	.54580
09	248	135	16290	2,336	.06500
10	630	53	10060	840	.01000
11	7740	982	2160	274	.01520
12	590	91	1190	184	.01850
13	450	495	970	1,066	.13170
14	325	791	730	1,777	.29170
15	325	1,494	730	3,355	.55070
16	620	52	330	28	.01010
17	270	16	285	16	.00690
18	400	188	705	331	.05620
19	375	145	555	215	.04640
20	630	503	775	618	.09560
21	468	992	871	1,847	.25410
22	468	1,434	871	2,669	.36720
23	750	09	2970	275	.01110
24	640	13	455	9	.00240
25	517	59	85	10	.01360
26	517	219	455	193	.05080
27	490	278	960	544	.06790
28	522	1,267	512	1,243	.29090
29		0		0	.00000
30		0		0	.00000
31		0		0	.00000
TOT	19269	11,342	45753	22,237	3.91200
AVERAGE DAY THIS MONTH					
	688	405	1634	794	.13971

PLANT- ST. REGIS-FOUNTAIN WACC 06

DAY	---BOD------ MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	70	197	4	11	.33730
02	218	510	508	1,190	.28060
03	292	29	348	34	.01170
04	275	15	295	16	.00670
05	238	16	400	27	.00800
06	382	10	1075	27	.00300
07	358	344	410	394	.11530
08	95	685	428	3,087	.86440
09	450	322	408	292	.08570
10	282	70	300	74	.02960
11	238	68	305	87	.03400
12	255	117	565	259	.05500
13	400	103	435	113	.03100
14	390	120	400	124	.03700
15	600	117	730	143	.02340
16	325	68	845	178	.02520
17	315	139	190	83	.05240
18	318	249	360	282	.09400
19	155	52	195	65	.04000
20	378	148	424	166	.04700
21	350	269	2340	1,797	.09200
22	370	354	800	764	.11450
23	319	83	510	133	.03130
24	300	172	420	241	.06890
25	360	251	1020	712	.08370
26	460	104	485	109	.02700
27	760	298	4510	1,769	.04700
28	215	27	355	44	.01500
29	300	51	2100	359	.02050
30	270	105	500	194	.04640
31	480	655	2310	3,154	.16360
TOT	10217	5,747	23975	15,928	2.89120
AVERAGE DAY THIS MONTH	329	185	773	514	.09326

PLANT- ST. REGIS-FOUNTAIN WACC 06

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	750	50	185	12	.00800
02	680	0	210	0	.00000
03	140	7	200	10	.00600
04	105	2	156	3	.00220
05	188	1	200	1	.00060
06	45	0	196	0	.00020
07	60	0	240	0	.00000
08	165	1	280	2	.00100
09	90	0	290	1	.00030
10	145	1	400	2	.00070
11	110	0	330	1	.00020
12	55	0	160	1	.00040
13	188	1	100	0	.00040
14	135	0	210	0	.00000
15	130	3	48	1	.00300
16	135	0	60	0	.00000
17	298	524	1005	1,769	.21090
18	620	106	480	82	.02050
19	135	0	160	0	.00030
20	220	1	560	1	.00030
21	282	0	990	0	.00000
22	740	25	464	15	.00400
23	590	133	745	168	.02700
24		0		0	.00000
25	305	1,563	644	3,300	.61400
26	105	259	196	484	.29600
27	175	386	167	368	.26410
28	245	674	660	1,817	.32990
29	130	371	168	479	.34200
30	80	245	88	270	.36770
31	205	554	32	87	.32400
TOT	7251	4,907	9624	8,874	2.82370
AVERAGE DAY THIS MONTH					
	241	164	320	296	.11295

PLANT- ST. REGIS-FOUNTAIN WACO 06

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	272	0	196	0	.00020
02	100	3	92	2	.00300
03	190	0	140	0	.00030
04	310	180	410	238	.06950
05	160	23	136	20	.01720
06	278	93	715	240	.04020
07	600	149	540	134	.02980
08	362	109	300	90	.03600
09	262	197	472	355	.09020
10	140	12	650	54	.01000
11	300	229	410	308	.09000
12	200	15	365	27	.00900
13	410	41	208	21	.01190
14	500	3	590	3	.00060
15	330	0	410	0	.00000
16	255	94	730	268	.04400
17	850	50	6140	359	.00700
18	20	3	2040	306	.01800
19	352	86	1071	263	.02940
20	352	6	1071	17	.00190
21	630	402	2940	1,877	.07650
22	295	43	520	76	.01760
23	165	0	650	0	.00000
24	225	9	360	15	.00500
25	348	0	545	0	.00000
26	350	275	750	588	.09400
27		0		0	.00000
28	190	1,088	1300	7,446	.68640
29	341	1,106	365	1,184	.38860
30	235	0	200	0	.00000
31		0		0	.00000
TOT	9022	4,212	24316	13,891	1.77630
AVERAGE DAY THIS MONTH					
	311	145	838	479	.07105

PLANT- ST. REGIS-FOUNTAIN HACC 06

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01		0	76	51	.08000
02	120	437	800	2,916	.43680
03	100	32	60	19	.03810
04	35	20	192	112	.06580
05	25	16	64	40	.07530
06	90	39	172	75	.05200
07	100	28	300	85	.03400
08	248	195	1400	1,098	.09400
09	25	13	180	92	.06130
10	100	81	200	162	.09690
11	60	49	92	75	.09600
12	55	37	92	61	.07580
13	25	13	16	8	.06000
14	65	54	132	110	.10000
15	100	63	32	20	.07560
16	40	28	180	124	.08260
17	90	49	88	48	.06480
18	30	16	116	61	.06260
19	95	34	212	76	.04300
20	25	15	615	379	.07380
21	20	9	72	33	.05520
22	110	60	344	189	.06590
23	185	179	408	394	.11580
24		0	60	23	.04620
25	120	108	415	372	.10740
26	400	169	4180	1,769	.05070
27	300	43	68	10	.01700
28	100	35	56	20	.04200
29	70	20	590	167	.03400
30	145	65	168	75	.05350
31	212	16	228	18	.00930
TOT	3090	1,923	11608	8,682	2.37480
AVERAGE DAY THIS MONTH					
	106	66	374	280	.07661

PLANT- ST. REGIS-FOUNTAIN WACP 06

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	190	144	216	164	.09100
02	218	191	528	463	.10500
03	178	91	200	102	.06100
04	210	165	264	208	.09420
05	150	105	520	364	.08380
06	90	31	220	76	.04150
07	105	96	430	393	.10950
08	126	111	320	281	.10540
09	145	94	294	190	.07760
10	220	221	390	392	.12050
11	268	234	304	265	.10450
12	180	228	164	208	.15200
13	100	73	243	180	.08690
14	185	746	440	1,774	.48310
15	150	98	168	109	.07800
16	252	303	368	442	.14400
17	125	97	136	106	.09300
18	172	136	268	212	.09480
19	25	17	60	40	.08050
20	30	20	116	77	.07970
21	5	3	96	58	.07300
22	40	31	275	212	.09240
23	215	247	560	643	.13760
24	45	13	60	17	.03400
25	30	22	220	163	.08860
26	15	3	210	49	.02780
27	135	79	435	252	.06950
28	110	24	140	30	.02610
29	110	466	1230	5,214	.50800
30	162	66	755	309	.04900
31		0		0	.00000
TOT	3986	4,154	9635	12,993	3.39200
AVERAGE DAY THIS MONTH	132	138	321	433	.11307

PLANT- ST. REGIS-FOUNTAIN WACC 06

DAY	---BOD--- MG/L	LBS.	---SS--- MG/L	LBS.	FLOW
01	70	8	415	50	.01440
02	85	80	392	370	.11320
03		0	136	42	.03060
04	20	1	264	18	.00800
05	76	118	690	1,163	.20200
06	190	62	2240	729	.03500
07	448	607	9450	12,807	.16240
08	105	58	116	64	.06660
09	470	490	2340	2,441	.12500
10	390	387	330	328	.11900
11	325	71	480	104	.02600
12	70	34	3520	1,733	.05990
13	80	34	1180	502	.05100
14	50	3	330	21	.00770
15	70	14	84	17	.02360
16	30	23	560	438	.09370
17	290	670	4600	10,940	.28800
18	110	585	1070	5,689	.63700
19	25	99	60	238	.47500
20	115	457	20	79	.47600
21	35	144	92	379	.49340
22	30	127	244	1,034	.50790
23	95	412	32	139	.52020
24	90	466	84	435	.62000
25	80	107	4260	5,688	.16000
26	55	67	1340	1,633	.14600
27	210	270	1280	2,631	.15400
28	210	122	850	493	.06950
29	40	29	540	392	.08700
30	85	27	52	17	.03850
31	180	114	375	238	.07600
TOT	4123	5,706	37726	50,251	5.85320
AVERAGE DAY THIS MONTH					
	137	190	1216	1,621	.19010

BOD AVG - SEPT '79 - AUG. 80 = 126 mg/l

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

DATE 8/18/81
TIME 10.51.22

PLANT- ST. REGIS-FOUNTAIN WACO 06

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	<50	400	757	1,227	.1960
02	145	401	661	1,823	.3310
03	105	592	328	1,850	.6760
04	50	287	56	693	.6389
05	50	219	72	316	.5251
06	95	676	144	994	.8270
07	125	324	680	1,765	.3110
08	15	25	168	276	.1972
09		3	44	69	.1880
10	80	11	56	7	.0157
11	130	25	28	5	.0233
12	65	5	256	21	.0130
13	85	339	311	1,196	.4777
14		1	76	183	.2893
15	45	14	256	801	.3750
16	320	1,375	420	1,805	.5150
17	115	6	172	9	.0060
18	80	35	40	17	.0500
19	115	73	570	362	.0760
20	85	94	300	333	.1330
21	110	145	252	332	.1580
22	85	207	416	524	.1510
23	85	94	320	354	.1327
24	155	154	244	242	.1188
25	85	9	100	112	.1346
26	155	131	12	10	.1009
27	45	41	190	171	.1080
28	148	124	36	30	.1000
29	8	7	136	117	.1030
30	60	61	292	224	.0920
31	75	31	44	18	.0458
TOT	2981	7,979	7418	15,492	7.1160
AVERAGE DAY THIS MONTH	102	206	239	500	.22935

WSM200

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 6
DATE 7/15/80
TIME 15.43.15

PLANT- ST. REGIS-FOUNTAIN WACO 06

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	210	94	2180	975	.3536
02	182	39	3000	651	.0260
03	178	75	2760	1,156	.0502
04	145	98	460	312	.0813
05	55	28	480	243	.0606
06	285	147	292	151	.0612
07	95	14	1010	152	.0180
08	120	58	200	97	.0580
09	80	55	116	80	.0828
10	100	176	232	409	.2112
11	85	42	132	65	.0590
12	55	18	64	21	.0400
13	233	144	64	40	.0740
14	95	36	72	28	.0400
15	50	16	52	16	.0380
16	70	35	1740	871	.0600
17	140	98	108	76	.0840
18	150	210	680	993	.1750
19	500	327	184	120	.0783
20	145	121	136	114	.1003
21	85	56	120	80	.0794
22	80	71	620	548	.1 60
23	105	74	335	235	.0840
24	75	62	152	138	.1.90
25	75	48	80	51	.0770
26	80	70	80	70	.1051
27	50	32	276	176	.0762
28	80	4_	610	319	.0627
29	55	17	28	9	.0380
30	200	295	248	366	.1776
31		0		0	.0000
TOT	3858	2,613	16511	8,562	2.3726
AVERAGE DAY THIS MONTH	128	87	550	285	.0790

WSM200

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 6
DATE 6/13/80
TIME 10.44.15

PLANT- ST. REGIS-FOUNTAIN WACO 06

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	245	203	225	186	.09930
02	125	98	84	66	.09370
03	105	108	505	518	.12300
04	95	72	244	185	.09100
05	95	64	495	335	.08100
06	75	56	1200	891	.08900
07	90	83	1870	1,717	.11000
08	60	38	92	59	.07640
09	123	67	172	94	.06570
10	30	14	1095	520	.05690
11	20	11	570	300	.06300
12	145	104	2510	1,801	.08600
13	390	80	1570	324	.02470
14	25	25	116	116	.12000
15	50	22	535	240	.05370
16	101	63	80	50	.07420
17	380	67	3340	585	.02100
18	80	60	2860	2,339	.0980
19	720	503	6780	4,753	.08400
20	313	270	192	166	.10340
21	333	252	550	416	.09060
22	225	174	220	171	.09290
23	248	104	260	109	.0504
24	15	37	700	1,721	.2947
25	55	149	8	22	.3240
26	25	98	84	329	.47000
27	720	1,122	475	740	.1867
28	100	66	120	79	.0793
29	80	43	108	78	.08660
30	45	27	1270	767	.0724
31	70	11	2440	395	.01940
TOT	5163	4,193	30770	20,072	3.38100
AVERAGE DAY THIS MONTH	206	134	992	647	.10906

WSM200

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 6
DATE 5/12/80
TIME 10.15.59

PLANT- ST. REGIS-FOUNTAIN WACO 06

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	250	361	500	722	.17300
02	170	122	200	144	.08600
03	293	506	250	432	.20700
04	145	106	210	154	.08790
05	200	164	355	292	.09850
06	85	201	88	208	.28360
07	85	410	795	3,835	.57800
08	233	338	152	221	.17400
09	323	178	430	237	.06600
10	200	175	600	526	.10500
11	253	1,500	145	859	.71030
12	290	123	150	64	.05090
13	143	81	80	45	.06780
14	138	86	245	153	.07500
15	220	160	76	55	.08700
16	245	176	156	112	.08600
17	202	152	132	99	.09050
18	215	163	255	193	.09070
19	168	116	180	124	.08280
20	108	62	104	59	.06850
21	140	96	160	109	.08200
22	265	208	240	188	.09400
23	350	289	740	611	.09900
24	228	367	220	354	.19300
25	258	271	285	299	.12570
26	213	214	175	176	.12050
27	173	45	164	43	.03110
28	248	51	415	86	.02470
29	248	271	460	503	.13100
30	320	323	565	571	.12100
31		0		0	.00000
TOT	6409	7,315	8527	11,474	4.29000
AVERAGE DAY THIS MONTH	213	244	284	382	.14300

PLANT- ST. REGIS-FOUNTAIN WACO 06

	---BOD---		-----SS------		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	420	311	145	107	.08870
02	81	56	115	80	.08300
03	9	7	100	77	.09200
04	24	24	304	309	.12200
05	25	41	410	674	.19700
06	36	33	220	199	.10820
07	325	290	490	437	.10690
08	77	65	365	310	.10190
09	75	58	185	142	.09200
10	26	36	905	1,254	.16600
11	13	13	430	427	.11900
12	21	18	295	256	.10380
13	305	352	360	415	.13820
14	273	227	435	362	.09960
15	75	60	380	306	.09640
16	760	1,065	980	1,374	.16800
17	80	76	215	205	.11400
18	790	1,121	450	638	.17000
19	79	115	1270	1,855	.17500
20	73	280	1230	4,722	.46000
21	77	520	760	5,131	.80900
22	77	121	245	386	.18900
23	75	49	65	43	.07900
24	19	1	90	5	.00730
25	24	18	164	126	.09200
26	26	20	192	151	.09400
27	265	212	320	256	.09570
28	352	345	635	623	.11750
29	245	224	315	289	.10980
30	280	243	575	499	.10400
31	220	318	810	1,169	.17300
TOT	5227	6,319	13455	22,827	4.67200
AVERAGE DAY THIS MONTH					
	168	204	434	736	.15071

WSM200

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 6
DATE 3/13/80
TIME 10.49.15

PLANT- ST. REGIS-FOUNTAIN WACC 6

DAY	BOD MG/L	BOD LBS.	SS MG/L	SS LBS.		FLOW
01	75	353	92	433		.56350
02	173	524	610	1,848		.36310
03	5	0	45	4		.0100
04	4	0	225	11		.00600
05	16	1	84	8		.01100
06	7	42	344	2,072		.72190
07	215	888	1435	5,929		.49510
08	60	9	108	17		.01870
09	730	4,522	384	2,379		.74230
10	70	68	100	97		.11570
11	85	244	196	562		.34330
12	8	47	420	2,450		.69900
13	21	110	204	1,069		.62800
14	26	113	1260	5,499		.52300
15	6	22	285	1,067		.44870
16	408	1,7[illegible]3	216	902		.50030
17	77	302	635	2,492		.47[illegible]30
18	2	7	98	3[illegible]4		.4140
19	7	3[illegible]	128	548		.5[illegible]
20	10	62	608	3,783	5062*	.74[illegible]
21	21	24	384	444		.13840
22	240	208	1[illegible]8	111		.1[illegible]7
23	76	7[illegible]	[illegible]	273		.1[illegible]
24	16	13	95	77		.[illegible]
25	24	2[illegible]	154	154		.[illegible]
26	19	26	684	943		.[illegible]
27	223	167	172	129		.[illegible]
28	150	12[illegible]	48[illegible]	38[illegible]		.[illegible]
29		0	296	247		.1[illegible]1
30		0		[illegible]		.[illegible]
31		[illegible]		[illegible]		.
TOT	[illegible]774	9,695	10155	3[illegible]8		9.33400
AV PAGE DAY THIS MONTH	95	334	350	1,1[illegible]0		.3[illegible]186
				35,501 1,224		

— Includes estimated flow when WIER capacity was exceeded

* Includes excess solids measured during WEIR Overflow

PLANT- ST. REGIS-FOUNTAIN WACC 06

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	80	457	304	1,736	.68450
02	9	17	172	329	.22930
03	5	2	92	36	.04720
04	540	71	310	41	.01570
05	75	97	124	161	.15560
06	8	55	504	3,450	.82030
07	9	66	100	734	.88000
08	7	0	52	2	.00950
09	158	13	136	11	.00960
10	12	6	404	200	.05540
11	130	36	160	44	.03310
12	165	69	60	25	.05040
13	30	5	1025	156	.01620
14	72	124	605	1,045	.20700
15	10	2	132	25	.02230
16	7	1	76	15	.02320
17	18	2	68	8	.01480
18	65	13	80	17	.02480
19	750	1,810	410	989	.28520
20	70	74	475	505	.12750
21	7	4	280	157	.06710
22	180	55	536	164	.03670
23	27	78	848	2,445	.34550
24	20	5	72	17	.02790
25	6	3	208	119	.06850
26	790	547	268	185	.08290
27	54	18	324	106	.03930
28	53	38	120	86	.08550
29	8	4	36	19	.06210
30	40	11	40	11	.03250
31	12	44	256	932	.43640
TOT	3417	3,727	8277	13,770	5.00240
AVERAGE DAY THIS MONTH	110	120	267	444	.16137

PLANT- ST. REGIS-FOUNTAIN WACO 06

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	95	64	116	78	.08040
02	98	60	164	100	.07300
03	110	77	188	131	.08340
04	98	63	136	87	.07650
05	60	27	108	49	.05410
06	363	133	28	10	.04390
07	95	64	140	95	.08130
08	115	78	40	27	.08090
09	30	19	48	30	.07490
10	50	31	12	7	.07450
11	85	52	48	30	.07400
12	105	64	212	130	.07350
13	30	22	44	32	.08690
14	5	3	12	7	.06550
15	90	48	36	19	.06340
16	50	27	32	17	.06430
17	50	31	70	43	.07310
18	10	4	184	82	.05340
19	22	14	24	16	.07800
20	20	13	40	27	.07980
21	90	63	320	222	.08330
22	54	34	244	155	.07600
23	35	18	248	130	.06290
24	36	192	248	1,321	.63840
25	35	186	248	1,321	.63840
26	17	8	252	117	.05540
27	9	1	8	1	.01390
28	24	3	16	2	.01670
29	740	1,348	1050	1,913	.21830
30	76	155	920	1,881	.24500
31	78	562	612	4,412	.86380
TOT	2775	3,464	5848	12,492	4.34690
AVERAGE DAY THIS MONTH	89	112	188	403	.14022

PLANT- ST. REGIS-FOUNTAIN WACO 06

	---BOD---		---SS---		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	19	5	266	123	.05520
02	13	4	70	24	.04120
03	70	11	76	12	.01820
04		0	100	16	.01850
05	[illegible]	21	390	97	.1600
06	279	[illegible]	240	674	.27870
07	193	146	167	142	[illegible]
08	140	193	384	501	.15640
09		0	1050	1,014	.11570
10	35	8	220	49	.02650
11	110	53	32	11	.04300
12	47	7	16	3	.02160
13	5	1	16	2	.02270
14	33	6	60	11	.02290
15	18	3	52	10	.02210
16	310	57	215	35	.01930
17		0	32	7	.02740
18	55	9	4	1	.02010
19	45	19	92	38	.04530
20	55	53	160	154	.11560
21	120	399	204	677	.39890
22	8	36	20	90	.53830
23	20	93	88	406	.55520
24	265	673	1090	2,668	.30450
25	73	66	220	200	.10890
26	193	498	28	72	.30900
27	45	125	40	111	.33200
28	38	108	40	114	.34100
29	73	129	96	170	.21200
30	93	222	88	210	.28600
31		0		0	.00000
TOT	2420	3,544	5661	7,652	4.56440
AVERAGE DAY THIS MONTH					
	80	118	188	255	.15215

PLANT- ST. REGIS-FOUNTAIN WACO 06

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	165	128	56	43	.09300
02	25	19	92	71	.09230
03	120	84	356	250	.08410
04	95	478	568	2,857	.60280
05	313	832	2580	6,859	.31860
06	35	6	212	35	.01990
07	310	172	2550	1,415	.06650
08	330	45	188	26	.01640
09	40	5	176	24	.01610
10	65	21	316	102	.03870
11	40	4	280	30	.01280
12	20	17	320	268	.10050
13	215	84	210	82	.04660
14	40	1	24	1	.00400
15	15	0	48	1	.00330
16	40	2	96	3	.00640
17	15	19	128	166	.15570
18	60	0	40	0	.00080
19	30	5	524	92	.02100
20	20	4	120	25	.02480
21	35	10	52	15	.03480
22	17	6	124	41	.03950
23	23	66	320	923	.34560
24	263	1,332	1060	5,368	.60680
25	50	2	68	2	.00370
26	117	10	115	10	.01030
27	40	5	92	11	.01390
28	18	2	36	3	.01130
29	23	3	12	1	.01430
30	80	15	820	149	.02180
31	210	72	116	40	.04130
TOT	2869	3,449	11659	18,913	2.86710
AVERAGE DAY THIS MONTH					
	92	111	376	610	.09249

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PLANT- ST. REGIS-FOUNTAIN WACC 06

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	155	4	32	1	.00280
02	215	10	64	3	.00560
03	250	48	256	50	.02320
04	50	7	88	12	.01630
05	65	5	204	16	.00950
06	280	23	52	4	.00970
07	185	66	195	69	.04270
08	123	20	150	25	.01990
09	70	10	124	18	.01710
10	55	8	420	60	.01700
11	60	5	665	52	.00940
12	183	15	104	9	.00990
13	258	16	172	11	.00760
14	45	4	150	12	.00950
15	178	163	695	638	.11000
16	253	1,372	790	4,285	.65000
17	133	447	170	572	.40300
18	95	331	88	307	.41800
19	30	203	60	406	.81100
20	50	25	48	24	.06000
21	30	18	52	31	.07200
22	270	56	211	44	.02500
23	75	58	700	537	.09200
24	233	204	150	131	.10900
25	120	64	336	179	.06400
26	90	42	40	19	.05600
27	65	24	80	29	.04400
28	50	29	76	44	.07000
29	30	25	152	127	.10000
30	130	834	24	154	.76900
31		0		0	.00000
TOT	3826	4,136	6348	7,869	4.04920
AVERAGE DAY THIS MONTH					
	127	138	211	262	.13497

WSM23 CITY OF BATTLE CREEK PAGE 5
FINAL EFFLUENT SHEET DATE 9/11/79
TIME 13.35.17

PLANT- ST. REGIS-FOUNTAIN WACO 06

	---BOD---		-----SS-----		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	95	3	132	4	.00350
02	80	4	276	13	.00560
03	95	4	108	5	.00520
04	110	8	160	12	.00870
05	185	26	270	39	.01710
06	195	9	80	4	.00570
07	70	2	60	1	.00280
08	95	92	108	104	.11590
09	75	28	244	92	.04540
10	55	982	100	1,785	2.13940
11		0		0	2.13940
12		0		0	2.13940
13	115	249	550	1,192	.25970
14	270	27	2400	238	.01190
15	176	29	936	152	.01950
16	85	1	384	3	.00090
17	188	8	160	7	.00540
18	120	2	48	1	.00240
19	140	7	500	26	.00620
20	70	2	60	2	.00310
21	103	2	372	8	.00250
22	155	16	752	77	.01230
23	103	3	156	4	.00340
24	70	5	344	24	.00820
25	100	2	215	4	.00240
26	213	4	96	2	.00210
27	223	4	620	10	.00200
28	210	5	92	2	.00270
29	93	3	76	2	.00340
30	125	17	128	18	.01640
31	103	4	60	3	.00500
TOT	3717	1,548	9487	3,834	6.99760
AVERAGE DAY THIS MONTH					
	119	50	306	124	.22573

WSY2 0

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 6
DATE 8/10/79
TIME 9.45.41

PLANT- ST. REGIS-FOUNTAIN VACO 06

DAY	OD MG/L	OD LBS.	SS MG/L	SS LBS.	FLOW
01	270	281	1290	1,342	.12470
02	440	85	2260	435	.02307
03	263	1,560	3130	13,569	.71 90
04	85	504	4000	23,730	.71 90
05	125	400	540	1,7 9	.33 60
06	140	17	200	24	.0145
07	130	9	40	3	.0080
08	268	45	650	1 9	.02010
09	130	40	260	79	.03650
10	165	71	2165	936	.05130
11	170	43	350	88	.03 20
12	105	22	250	53	.02 2
13	173	1	920	58	.0076
14	173	17	120	12	.01150
15	85	9	90	9	.01 00
16	55	8	84	13	.01830
17	135	30	3 0	71	.0267
18	60	15	84	21	.03 60
19	90	23	620	156	.03 2
20	90	135	4 3	733	.17 90
21	140	25	224	40	.0 4
22	50	18	172	61	.0425
23	70	20	1 0	29	.03420
24	110	9	190	16	.00 90
25	145	10	310	22	.0084
26	115	19	930	153	.01970
27	115	0	550	1	.00030
28	263	246	7 40	6,580	.1120
29	203	145	830	594	.03570
30	215	27	230	29	.0149
31	85	6	140	10	.00820
TOT	4663	3,350	28577	55,705	2.81 47
AVERAGE DAY THIS MONTH	150	124	921	1,797	.09 76

PLANT- ST. REGIS-FOUNTAIN WACC 06

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	170	193	155	176	.13580
02	200	246	700	859	.14710
03	200	229	204	234	.13740
04	233	142	200	122	.07310
05	90	468	188	978	.62350
06	180	1,083	356	2,143	.72120
07	240	662	620	1,710	.33060
08	338	1,918	1160	6,584	.68010
09	125	1,075	180	1,548	1.03050
10	295	1,095	1010	3,748	.44470
11	363	3,059	750	6,321	1.00990
12	285	1,814	1980	12,601	.76260
13	150	229	660	1,006	.18260
14	230	662	640	1,843	.34500
15	310	507	300	491	.19610
16	340	744	1360	2,976	.26220
17	155	13	240	20	.00980
18	188	25	930	126	.01620
19	223	100	240	108	.05390
20	243	196	196	158	.09690
21	145	28	970	185	.02290
22	348	303	650	566	.10440
23	238	727	1000	3,056	.36620
24	238	403	300	508	.20280
25	208	77	280	104	.04450
26	233	113	310	150	.05790
27	298	238	810	647	.09570
28	125	0	300	0	.00010
29	173	127	120	88	.08820
30	373	411	3640	4,016	.13220
31		0		0	.00000
TOT	6937	16,897	20449	53,072	8.37410
AVERAGE DAY THIS MONTH	231	563	681	1,769	.27914

WSM200

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

DATE 5/15/79
TIME 11.33.15

PLANT- ST. REGIS-FOUNTAIN WACO 06

	---BOD---		-----SS------		FLOW
DAY	MG/L	LBS.	MG/L	LBS.	
01	248	736	640	1,900	.35580
02	208	273	390	512	.15740
03	275	505	730	1,340	.22000
04	303	611	880	1,776	.24180
05	190	647	6820	23,226	.40810
06	325	691	870	1,848	.25460
07	328	640	990	1,932	.23380
08	340	606	1110	1,979	.21360
09	30	7	3890	935	.02880
10	190	160	540	454	.10080
11	80	67	180	151	.10080
12		0	490	493	.12060
13		0		0	.00000
14		0		0	.00000
15		0		0	.00000
16	105	1,070	400	4,076	1.22160
17	85	120	160	225	.16870
18	218	2,015	870	8,041	1.10750
19	100	424	320	1,357	.50820
20	178	1,180	670	4,442	.79440
21	60	84	520	728	.16780
22	440	0	188	0	.00000
23	420	0	230	0	.00000
24	440	630	750	1,073	.17150
25	110	0	470	0	.00000
26	100	0	400	0	.00000
27	353	1,102	1100	3,435	.37420
28	320	834	2090	5,449	.31240
29	240	793	1020	3,368	.39570
30	360	570	950	1,504	.18570
31		0		0	.00000
TOT	6046	13,765	27668	70,244	7.84740
AVERAGE DAY THIS MONTH	223	510	1024	2,602	.29064

WS/2[illegible]

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 5
DATE 4/10/79
TIME 14.19.12

PLANT- ST. REGIS-FOUNTAIN WACC 06

DAY	BOD MG/L	BOD LBS.	SS MG/L	SS LBS.	FLOW
01	680	4,226	1735	11,093	.74472
02	430	3,639	1220	10,323	1.[illegible]14[illegible]
03	290	2,4[illegible]7	570	4,888	1.02760
04	270	2,232	360	2,976	.99061
05	343	1,[illegible]64	480	1,679	.40660
06	560	1,668	1580	4,706	.35690
07	155	512	235	774	.39580
08	5[illegible]0	1,445	3[illegible]20	11,32[illegible]	.34621
09	113	4[illegible]3	70	250	.42770
10	3[illegible]0	1,517	2280	8,869	.46610
11	245	1,467	1250	7,432	.71730
12	420	2,[illegible]31	1[illegible]80	11,930	.72200
13	135	74[illegible]	650	3,[illegible]66	.65740
14	125	61[illegible]	320	1,583	.5027[illegible]
15	250	1,[illegible]4	7[illegible]0	4,331	.72[illegible]
16	300	2,133	700	5,616	.85[illegible]
17	600	4,322	3420	27,437	.96[illegible]
18	440	1,[illegible]15	2670	11,[illegible]2	.4938[illegible]
19	80	4[illegible]6	172	8,779	.6116[illegible]
20	2[illegible]5	639	1[illegible]	3,742	.3737
21	223	730	1[illegible]	3,6[illegible]	.3[illegible]2
22	36[illegible]	1,7[illegible]	1[illegible]	7,312	.58[illegible]
23	[illegible]27	1,[illegible]	8[illegible]	[illegible]	.817[illegible]
24	37[illegible]	1,[illegible]52	1150	6,[illegible]68	.63[illegible]
25	4[illegible]	2,[illegible]	17[illegible]	8,114	.56[illegible]
26	[illegible]75	1,[illegible]	[illegible]	2,379	.4831[illegible]
27	[illegible]	[illegible]	17[illegible]	8,[illegible]	[illegible]
28	39[illegible]	1,7[illegible]	[illegible]	19,[illegible]	.54
29	405	[illegible]	159[illegible]	7,[illegible]	.59[illegible]
30	325	1,7[illegible]	141	7,395	.62[illegible]
31	[illegible]	2,[illegible]	160	6,752	.5[illegible]7
T T [illegible]	536	[illegible]	4[illegible]73	2[illegible]5,721	19.2277
AV [illegible] DAY THI [illegible] TH					
	333	1,[illegible]	1442	7,[illegible]1	.62[illegible]

WSM200

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 5
DATE 3/09/79
TIME 12.59.42

PLANT- ST. REGIS-FOUNTAIN WACO 06

	---BOD------		-----SS------		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	310	845	960	2,616	.32660
02	240	687	610	1,747	.34310
03	150	360	500	1,200	.28770
04	130	227	520	908	.20920
05	383	1,035	2570	6,947	.32390
06	258	607	1415	3,331	.28210
07	360	2,363	1220	8,007	.78650
08	440	4,170	1095	10,379	1.13580
09	313	3,011	1090	10,484	1.15260
10	318	2,527	1290	10,253	.95240
11	282	1,393	1070	5,285	.59190
12	197	1,082	1260	6,921	.65820
13	320	1,775	1275	7,072	.66470
14	545	2,651	1560	7,590	.58300
15	200	925	575	2,660	.55440
16	320	3,256	1000	10,174	1.21920
17	313	1,471	1030	4,841	.56320
18	220	1,096	665	3,313	.59700
19	165	881	315	1,683	.64010
20	358	1,424	488	1,941	.47660
21	333	1,528	1192	5,471	.55000
22	350	1,466	1052	4,407	.50200
23	293	1,584	1560	8,432	.64770
24	378	2,038	1580	8,518	.64600
25	335	1,433	1510	6,459	.51260
26	295	2,111	1185	8,482	.85770
27	400	2,091	1200	6,274	.62650
28	430	2,834	1365	8,995	.78970
29		0		0	.00000
30		0		0	.00000
31		0		0	.00000
TOT	8636	46,871	31152	164,390	17.48040
AVERAGE DAY THIS MONTH					
	308	1,674	1112	5,871	.62430

WSM200

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 6
DATE 2/16/79
TIME 16.14.31

PLANT- ST. REGIS-FOUNTAIN WACO 06

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01		0		0	.76940
02	380	2,106	580	3,215	.66420
03	430	1,486	2000	6,913	.41420
04	360	878	1610	3,924	.29210
05	400	1,068	1590	4,247	.32010
06	373	1,026	1460	4,015	.32950
07	200	495	930	2,301	.29650
08	330	1,068	870	2,815	.38770
09	335	1,467	1400	6,131	.52480
10	460	1,688	1820	6,680	.43980
11	470	2,101	1440	6,437	.53570
12	340	1,229	1230	4,444	.43300
13	370	1,828	1030	5,088	.59190
14	297	1,026	1090	3,766	.41400
15	320	1,778	1520	8,444	.66570
16	187	673	1200	4,321	.43150
17	460	2,710	1900	11,192	.70590
18	300	2,357	1490	11,704	.94130
19	530	3,690	1840	12,811	.83430
20	420	4,332	1910	19,701	1.23600
21	450	4,738	1990	20,951	1.26160
22	400	2,654	1640	10,883	.79520
23	155	1,076	1060	7,356	.83160
24	272	728	1030	2,758	.32090
25	380	1,695	1490	6,646	.53450
26	400	1,729	1590	6,872	.51790
27	275	2,447	1320	11,747	1.06640
28	290	1,651	1230	7,004	.68240
29	275	767	770	2,147	.33420
30	120	352	610	1,790	.35170
31	302	991	940	3,085	.39330
TOT	10281	51,834	40580	209,388	18.31730
AVERAGE DAY THIS MONTH					
	331	1,672	1309	6,754	.59088

FINAL EFFLUENT SHEET

DATE 1/10/77
IME 14.38.12

PLANT- ST. REGIS-FOUNTAIN WACO 06

	---BOD------		-----SS------		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	100	634	2160	13,696	.75980
02	260	737	820	2,325	.33980
03	80	127	420	667	.19020
04	183	369	780	1,574	.24180
05	320	595	950	1,766	.22270
06	130	323	1050	2,611	.29800
07	130	203	570	889	.18700
08	358	1,494	950	3,964	.50000
09	208	721	550	1,907	.41550
10	110	154	220	309	.16830
11	155	250	430	694	.19330
12	238	279	780	915	.14050
13	105	88	440	368	.10030
14	95	108	570	650	.13660
15	85	99	600	698	.13940
16	105	140	560	745	.15950
17	290	661	1080	2,461	.27310
18	420	1,326	780	2,462	.37820
19	380	1,242	650	2,125	.39180
20	343	1,326	1430	5,526	.46310
21	293	1,334	990	4,508	.54570
22	95	339	930	3,319	.42760
23	108	195	1300	2,344	.21610
24		0		0	.00000
25	120	1,118	1670	15,560	1.11650
26	190	514	890	2,406	.32400
27	440	1,688	1420	5,446	.45960
28	365	1,476	1070	4,326	.48450
29	408	2,794	980	6,710	.82050
30		0		0	.00000
31		0		0	.00000
TOT	6114	20,334	25040	90,971	10.09340
AVERAGE DAY THIS MONTH					
	218	726	894	3,249	.36048

PLANT- ST. REGIS-FOUNTAIN WACO 06

	---BOD------		-----SS------		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	278	2,797	910	9,156	1.20570
02	288	2,542	1350	11,917	1.05780
03	60	364	440	2,668	.72660
04	270	1,200	2040	9,069	.53270
05	400	1,415	1000	3,537	.42390
06	500	2,640	2320	12,247	.63260
07	530	3,695	2660	18,544	.83540
08	510	3,994	1810	14,176	.93850
09	450	1,789	1590	6,322	.47650
10	460	2,051	1370	6,108	.53430
11	320	847	1030	2,725	.31700
12	480	1,977	2220	9,144	.49360
13	230	2,022	1150	10,108	1.05330
14	125	257	670	1,378	.24650
15	255	609	970	2,317	.28630
16	295	549	1140	2,121	.22300
17	240	378	910	1,431	.18850
18	165	287	540	940	.20860
19	130	174	410	549	.16040
20	170	214	224	282	.15110
21	90	139	460	713	.18570
22	85	75	630	555	.10550
23	85	620	630	4,592	.87340
24	80	0	630	0	.00000
25	205	805	800	3,140	.47030
26	235	580	1180	2,913	.29580
27	345	1,410	1190	4,863	.48970
28	10	38	690	2,654	.46090
29	370	1,725	2000	9,323	.55860
30	450	1,780	3270	12,932	.47390
TOT	8111	36,973	36234	166,424	14.60610
AVERAGE DAY THIS MONTH					
	270	1,232	1207	5,547	.48687

PLANT- ST. REGIS-FOUNTAIN WACO 06

	---BOD------		-----SS------		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	290	2,421	1015	8,473	1.00030
02	313	1,672	336	1,795	.64030
03	255	1,379	610	3,298	.64790
04	245	1,090	270	1,201	.53310
05	160	582	470	1,709	.43580
06	80	278	464	1,612	.41620
07	253	1,227	500	2,425	.58120
08	285	1,611	490	2,770	.67740
09	125	540	1000	4,318	.51740
10	363	1,558	520	2,232	.51430
11	220	883	350	1,405	.48120
12	125	584	264	1,234	.56000
13	110	714	428	2,777	.77740
14	253	1,220	645	3,111	.57790
15	350	1,212	647	2,240	.41490
16	210	484	1230	2,835	.27620
17	248	977	880	3,467	.47210
18	220	832	1440	5,445	.45310
19	170	688	610	2,470	.48520
20	80	542	1520	10,296	.81170
21	278	2,560	1090	10,039	1.10370
22	285	2,633	1050	9,702	1.10720
23	400	3,474	950	8,251	1.04080
24	380	3,241	1200	10,236	1.02220
25	410	3,563	1300	11,298	1.04140
26	320	2,363	2180	16,095	.88470
27	95	690	1030	7,486	.87090
28	248	2,134	780	6,713	1.03130
29	305	2,255	790	5,840	.88590
30	238	2,091	510	4,480	1.05270
31	278	2,547	580	5,314	1.09790
TOT	7592	48,045	25149	160,567	22.41230
AVERAGE DAY THIS MONTH					
	244	1,550	811	5,180	.72298

CITY OF BATTLE CREEK
DEPARTMENT OF PUBLIC WORKS
WASTEWATER TREATMENT PLANT
INDUSTRIAL SEWAGE RECORD

Plant ST. REGIS PAPER CO. Location ANGELL ST.

Month FEBRUARY 19 78

Date	BOD	Mg/L	SS	Mg/L	Flow MGD	Charges	Lbs. BOD	Charges	Lbs. SS	Charges	Remarks	pH
1		203		342	2.5294		4285		7219			7.9
2		100		158	2.6098		2178		3441			7.9
3		195		176	2.7390		4457		4023			7.9
4		155		244	2.8281		3658		5759			7.8
5		223		250	2.7286		5078		5693			8.0
6		215		290	3.1627		5674		7653			7.6
7		185		196	3.1902		4925		5218			7.7
8		150		190	3.0695		3842		4867			8.4
9		200		248	3.1019		5177		6420			8.3
10		145		260	2.9442		2825		6388			7.8
11		145		164	2.9488		3568		4036			8.0
12		140		114	2.6581		3105		2529			7.8
13		220		144	3.0167		5538		3625			7.6
14		125		1920	.6150		642		9854			4.2
15		150		324	2.2087		2765		5972			8.0
16		263		330	2.7096		5947		7462			8.2
17		185		128	2.9427		4543		3143			7.7
18		253		226	2.8769		6074		5426			7.9
19		228		212	2.8086		5344		4969			8.0
20		265		268	2.4660		5453		5515			8.0
21		263		308	2.4847		5453		6386			7.6
22		240		278	2.5055		5018		5813			8.3
23		300		190	2.2333		5591		3541			7.7
24		190		262	1.9733		3129		4314			7.6
25		220		208	2.4075		4420		4179			7.9
26		248		300	2.4402		5050		6109			8.1
27		225		180	2.6850		5041		4033			7.4
28		160		68	2.3398		3124		1328			7.6
29												
30												
31												
Totals					73.2238		121,904		144,915			

Flows 1976

	November				December				
	Gen Foods	Kelloggs	St. Regis	Ind Tot.	Gen Foods	Kelloggs	St. Regis	Ind Tot.	
1	.4170	1.3020	4.4518	x .176E	.4400	1.4680	4.5642	6 4722	1
2	.4820	1.3710	4.6897	6.5427	.3900	1.4740	4.1753	6 0393	2
3	.4630	1.3790	2.6027	4 4447	.4750	1.4100	4.6424	6 5274	3
4	.4500	1.3690	4.0361	5 8551	.3400	1.2370	4.6485	6.2255	4
5	.4206	.9840	4.6753	6 0793	.3560	1.1580	4.6333	6 1473	5
6	.2880	.4530	4.7435	5 4845	.4290	1.3760	4.5074	6 3124	6
7	.2950	.4980	4.5542	5 3472	.4120	1.3930	5.2608	7 0658	7
8	.4070	1.3550	4.7435	6 5055	4260	1.4100	4.8466	6.6826	8
9	.4120	1.3230	4.6171	6 3521	.4300	1.3250	4.8195	6 5745	9
10	.4100	1.3970	4.9356	6.7426	.4030	.9000	4.9844	6 7874	10
11	.4180	1.3220	4.9521	6 6921	.3900	.3630	5.1822	5.9352	11
12	.4770	.9980	4.8904	6 3654	.3300	.5600	4.7232	5 6132	12
13	.3550	.5180	4.8745	5 7475	.4270	1.4380	4.9353	6 8603	13
14	.3550	.6340	5.0061	5 9951	.4250	1.4060	4.5346	6.3656	14
15	.3840	1.3930	5.0348	6.8118	.4200	1.4160	4.7023	6 5383	15
16	.3400	1.4710	4.8874	6 6984	.4600	1.4760	4.6069	6.5429	16
17	.3700	1.5020	5.1424	7 0144	.4700	1.3850	4.7259	6.5809	17
18	.4270	1.4880	5.1095	7 0245	3540	1.2650	4.6177	6.4367	18
19	.4290	1.4140	4.9500	6.7930	.2760	1.2050	4.8416	6 3226	19
20	.2780	1.3610	4.9226	6 5616	.1400	1.3570	4.7025	6 1995	20
21	.4310	1.3290	4.8862	6 6462	.1200	1.3100	4.5346	5 9646	21
22	.2500	1.2080	4.8285	6.2865	.1430	.8190	3.8440	4 8060	22
23	.3730	.7140	5.2946	6 3816	.0720	.3460	.4882	.9062	23
24	.2990	.2210	.7945	1.3145	.0960	.2670	———	.3630	24
25	.2130	.2000	———	.4130	.0880	.2850	.4583	.8313	25
26	.2500	.2130	2.2506	2 7136	.1010	.6830	—	.7840	26
27	.1870	.1970	—	.3840	.1100	1.1290	—	1.2390	27
28	.2700	.5550	—	.8250	.1100	1.2230	—	1.3330	28
29	.4150	1.3570	4.2293	6.0013	.1250	1.1290	.6590	1.9130	29
30	4180	1.4830	4.3237	6.2247	.1300	.7240	—	.8540	30
31					.1100	.4140	———	.5240	31
	10.9830	31.0090	120.4267	162.4187	8.9980	33.3510	104.8387	147.1877	

Feeds 1976

September

	N Foods	Kellogg	St Regis	Total		Con. Foods	Kellogg	St Regis	Total	
1	.3620	1.6020	4.1819	6.1459		- -	1.4070	2.2227	4.0050	1
2	.4680	1.6050	4.6240	6.7620		- -	.6260	2.2197	3 1180	2
3	.3500	1.3320	.7392	2.4212		2730	.5580	2.2504	3.0814	3
4	.1990	.7710	1.4522	2.4222		.3700	1.4390	4.8922	6.7012	4
5	.1360	.2550		.3910		.4300	1.5270	4.8674	6.8244	5
6	.3320	.3200		6520		.3700	1.4570	4 8883	6.7153	6
7	3820	1.1300	3.3854	48974		.3850	1.4560	5.0347	6.8757	7
8	3220	1.3000	4.0315	5.6535		.3960	1.4890	5.0126	6 8976	8
9	.3620	1.3470	4 3127	6 0217		.3640	1.3110	4 9584	6.6334	9
10	.3670	1 3750	4.6572	6.3992		.3410	1.1750	4.9291	6.4451	10
11	3350	1.2600	2.1815	3.7765		,5080	1.4800	5.0323	7.0183	11
12	.2840	1.1800	2.0847	3.5487		.4250	1.5020	4.5675	6.5045	12
13	.4330	1 4040	4.6655	6.5025		.5370	1.5280	4.8660	6.9310	13
14	.4000	1.5080	4.3940	6.3020		.5060	1.4280	4.9372	6.8712	14
15	.3770	1.5690	4.6118	6.5578		.4070	1.2620	2.4598	4.1288	15
16	.3890	1.4270	4.7998	6.6158		.3480	.7410	2.0629	3.1519	16
17	4070	1.5410	5.0120	6.9600		.2770	.5430	2.0036	2.8236	17
18	.2680	.7130	2.4788	3.4598		.5080	1.4150	4.5839	6.5069	18
19	.3420	.5660	2.0654	2.8734		.4820	1.4340	4.8537	6.7697	19
20	.4400	1,4500	4.7525	6.6425		.4535	1.4230	4 6673	6.5438	20
21	.3550	1.6680	4.3053	6.3283		.4455	1.4950	4.6849	6.6254	21
22	.4130	1.4360	4 9887	6.8377		.4015	1.1850	4.9270	6.5135	22
23	.3560	1.4510	5.3442	7.1512		.3560	.6300	4.9330	5 9190	23
24	.3770	1.4190	3.5575	5.3535		.2970	.3290	4.7624	5.3884	24
25	.6870	1.4400	.8851	2.6121		.4390	.3560	5.1437	5.9387	25
26	.2920	1.4590	.6328	2.3738		.4275	1.0250	4 9646	6.4171	26
27	.4520	1.5720	2.0537	4.0777		.4070	1 2540	4.8074	6.4684	27
28	.4790	1.5540	2.0691	4.1021		.4600	1.3010	4 6512	6.4122	28
29	.5230	1.4980	2.1282	4.1492		.3580	1.2830	4.3500	5.9910	29
30	.3090	1.4750	2.1771	3.9611		.3260	1.3350	4 4730	6.1340	30
31						.2870	1.1610	4.5486	5.9966	31

October

1976 - Flow

	July				August			
	ST. REGIS	GEN. FOODS	KELLOGG	INDUSTRY TOTAL	ST. REGIS	GEN. FOODS	KELLOGG	INDUSTRY TOTAL
1	.3337	.3880	1.4690	7.1907	4.5292	.3600	.6320	5.5212
2	5.5422	.3260	1.1870	7.0552	4.5201	.4130	1.4830	6.4161
3	.5667	.1940	.5120	1.2727	4.3653	.4120	1.5920	6.3693
4	2.6571	.1320	.3790	3.1681	4.4629	.3170	1.6440	6.4239
5		.1360	.4080	.5440	4.2459	.3510	1.6610	6.2579
6	4.6909	.1370	1.3040	6.1319	4.2713	.3230	1.6490	6.2433
7	5.0854	.1450	1.5630	6.7934	4.1036	.2610	1.4540	5.8186
8	5.5387	.1350	1.5690	7.2427	4.1225	.2840	1.5050	5.9115
9	5.0777	.1350	1.6600	6.8727	4.1970	.3850	1.5380	6.1200
10	4.1510	.1190	1.5350	5.8050	4.2617	.3760	1.5470	6.1847
11	3.8627	.2310	1.5210	5.6147	4.4187	.3980	1.5170	6.3337
12	4.1167	.3400	1.6320	6.0887	4.3218	.3910	1.3870	6.0998
13	4.5529	.4210	1.6460	6.6199	4.0931	.4000	1.2350	5.7281
14	4.6424	.4350	1.7140	6.7914	4.1071	.3230	.6230	5.0531
15	4.5605	.4190	1.5670	6.5465	4.3813	.2870	.6460	5.3143
16	2.4899	.3900	1.4210	4.3009	2.2891	.3780	1.3630	4.0301
17	4.3104	.4160	.9530	5.6794	4.2219	.4030	1.5100	6.1349
18	.3754	.3140	.8140	5.5034	4.2318	.3890	1.5620	6.1828
19	4.5323	.4270	1.6960	6.6553	4.2654	.3670	1.5720	6.2044
20	4.5696	.3900	1.7270	6.6866	4.4119	.4280	1.5460	6.3859
21	4.7094	.4100	1.7570	6.8764	4.5681	.3410	1.3480	6.2571
22	4.5315	.3680	1.6150	6.5145	4.4180	.3090	1.2540	5.9810
23	4.5904	.4040	1.6820	6.6764	4.4196	.4150	1.5360	6.3706
24	4.4100	.3200	1.5870	6.3170	4.4556	.4250	1.5410	6.4216
25	4.5304	.3240	1.5970	6.4514	4.6178	.4800	1.6030	6.7008
26	3.5030	.3300	1.6670	5.5000	4.3603	.4530	1.4800	6.2933
27	4.4299	.3240	1.7050	6.4589	4.9466	.4710	1.3820	6.7996
28	4.6334	.4310	1.5560	6.6204	4.6630	.3880	.7400	5.7910
29	4.6322	.3980	1.5070	6.5372	4.3248	.2700	.5120	5.1068
30	4.7493	.4230	1.4770	6.6493	3.1023	.3620	1.4310	4.8953
31	4.6868	.3200	.6640	5.6708	4.0393	.3880	1.5680	5.9953
	130.0625	9.6820	43.0910	182.8355	131.7370	11.5480	42.0610	185.3460

MONTH OF FEBRUARY 1978

DATE	FLOW 14.20	SOLIDS 11.64		BOD 5.14	
ANGELL		MCC	CITY	MCC	CITY
1-5	13,434,900	27,490			
6-12	21,075,400	38,354			
13-19	17,178,200	52,477			
20-26	16,510,500	39,075			
27-28	5,024,800	5,686			
TOTAL		163,082	144,915		
AVG.	73,223,800	153,999			121,904
DORR					
1-5	8,117,500	43,969			
6-12	11,850,000	50,492			
13-19	6,563,100	22,318			
20-26	13,267,600	33,599			
27-28	1,759,300	3,226			
TOTAL		153,604	145,685		
AVG.	41,557,500	149,645			119,414
WACO					
1-5	1,981,100	18,019			
6-12	2,149,400	28,650			
13-19	3,308,800	43,197			
20-26	3,129,100	32,785			
27-28	2,133,400	21,760			
TOTAL		144,411	150,282		
AVG.	16,701,800	147,347			55,472

ANGELL					
FOUNTAIN					
TOTAL					

JANUARY 1978

	FLOW	SOLIDS		BOD
ANGEL				
1-8	15,505,300	31,068		
9-15	16,714,000	32,720		
16-22	17,082,600	31,574		
23-29	8,836,400	19,637		
30-31	4,549,400	9,285		
		124,284	125,657 ✓	
	62,687,700	124,971		114,636 ✓
DORR				
1-8	12,607,900	48,951		
9-15	14,716,200	57,653		
16-22	14,655,900	54,531		
23-29	3,416,500	6,532		
30-31	4,249,600	23,765		
		191,432	176,842 ✓	
	49,646,100 ✓	184,137		136,111 ✓
WACO				
1-8	276,600	2,254		
9-15	DOWN	—		
16-22	105,500	3,363		
23-29	3,118,900	27,704		
30-31	121,700	1,033		
		34,354	32,664	
	3,622,700 ✓	33,509		9,913 ✓

TOTAL [illegible]

Rec'd 2/21/78
Finance 2/21/78

DECEMBER 1977

	# 128.94	# 53.65		# 29.00
28				
1-4	8,360,400	12,172		
5-11	17,273,200	23,734		
12-19	18,733,100	36,413		
19-25	11,262,300	20,060		
26-31	48,200	—		
		92,369	91,959 ✓	
	55,677,300 ✓	92,164		125,097 ✓
26				
1-4	8,511,600	33,823		
5-11	15,540,700	77,505		
12-18	15,101,900	65,823		
19-25	8,762,000	51,005		
26-31	4,600	—		
		218,156	228,223 ✓	
	47,920,800 ✓	223,190		169,428 ✓
WACO 26				
1-4	DOWN	—		
5-11	678,700	12,793		
12-18	111,700	3,402		
19-25	989,300	9,933		
26-31	530,100	—		
		25,128	24,711 ✓	
	2,309,800 ✓	24,920		3910 ✓
	105,907,900	340,274 OVER		298,435 OVER

Reid 12/4/78

NOVEMBER 1977

	FLOW	SOLIDS		BOD	
ANGELL					
1-6	15,066,800	23,172			
7-13	12,937,000	32,067			
14-20	15,729,000	14,764			
21-27	5,275,100	22,434			
28-30	7,095,300	15,030			
		107,467	103,496		
	56,103,200	105,482			107,243
DORR					
1-6	12,321,800	38,070			
7-13	15,136,400	63,402			
14-20	13,846,500	52,250			
21-27	10,174,900	63,698			
28-30	6,312,500	24,645			
		242,065	213,282		
	57,792,100	227,674			147,970
WACO					
1-6	447,500	11,032			
7-13	273,400	3,571			
14-20	1,390,100	23,739			
21-27	204,400	3,757			
28-30	DOWN	DOWN			
		42,099	41,283		
	2,315,400	41,691			6917
	[illegible]	374,[illegible]			[illegible]

OCTOBER 1977

	FLOW	SOLIDS		BOD
ANC				
1-2	84,700			
3-9	16,398,300	39,046		
10-16	16,151,700	24,953		
17-23	18,881,900	25,419		
24-31	23,257,100	28,337		
		117,755	111,685	
	74,773,700	114,720		128,669
DORR				
1-2	4,300			
3-9	14,347,400	35,655		
10-16	16,240,500	42,953		
17-23	15,498,200	51,420		
24-31	17,386,100	44,345		
		174,373	162,247	
	63,476,500	168,310		153,715
WACO				
1-2	312,200			
3-9	226,900	4,822		
10-16	263,400	4,244		
17-23	DOWN	—		
24-31	332,500	6,108		
		15,174	14,426	
	1,135,000	14,800		2,168

SEPTEMBER 1977
16-30

DATE	FLOW	SOLIDS		COD	
		ST. R	CITY	ST. R	CITY
16-18	7,412,600	11,046			
19-25	17,894,400	22,816			
26-30	10,854,800	25,997			
TOTAL		59,859	57,006		
AVG.	36,161,800	58,433			58,884

16-18	6,943,200	18,493			
19-25	14,906,100	33,850			
26-30	8,458,700	32,358			
TOTAL		84,701	77,871		
AVG.	30,308,000	81,286			73,550

WACO

16-18	DOWN				
19-25	104,600	1,910			
26-30	116,800	2,002			
TOTAL		3,912	3,757		
AVG.	221,400	3,835			513

TOTAL	36,161,800	58,433			
AVG.	30,308,000	81,286			
TOTAL	66,691,200	143,554			132,947

166,891
310,445

101,149
234,096

SEPTEMBER 1977

DATE	FLOW	SOLIDS		POD	
ANGLE		ST. R	CITY	ST. R	CITY
1-4	3,036,500	14,925			
5-11	250,900	DOWN			
12-15	8,992,600	20,715			
[illegible]		35,640	32,953		
[illegible]	12,280,000	34,296			23,830
[illegible]					
1-4	3,246,000	33,355			
5-11	13,129,700	44,504			
12-15	9,384,800	49,369			
[illegible]		127,228	125,833		
[illegible]	25,760,500	126,531			75,893
WACO					
1-4	DOWN				
5-11	339,600	2,180			
12-15	174,900	4,211			
[illegible]		6,391	5,136		
[illegible]	514,500	6,064			1426
[illegible]					
[illegible]					
[illegible]	38,555,000	166,891			101,149
		OVER			OVER

AUGUST 1977

UNIT	TOT	SPLITS			
CALL		ST. P	CITY	ST. P	CITY
1-7	18,090,600	29,418			
8-14	10,470,100	24,464			
15-21	10,355,000	23,113			
22-28	15,107,100	33,503			
29-31	7,368,300	10,874			
TOTAL		121,372	110,894		
AVG.	61,391,100	116,133			113,501

T. R.					
1-7	13,731,200	38,520			
8-14	14,712,300	39,826			
15-21	15,436,400	26,863			
22-28	16,216,500	38,748			
29-31	6,130,700	21,513			
		164,670	166,682		
	66,227,100	165,676			176,886

WACO

1-7	233,000	2,703			
8-14	752,700	4,416			
15-21	DOWN	DOWN			
22-28	"	"			
29-31	"	"			
		2,119	6,808		
	985,700	6,964			2682

	61,391,100	116,133			

MONTH OF JULY 1977

	FLOW	SOLIDS		BOD	
		ST. R	CITY	ST. P	CITY
1-10	17,163,000	34,365			
11-17	9,420,100	25,719			
18-24	18,925,500	26,422			
25-31	17,519,500	49,847			
		136,353	125,335		
TOTAL					
AVG.	63,028,100	130,844			103,274

1-10	12,322,800	31,812			
11-17	15,723,800	25,249			
18-24	12,188,000	32,149			
25-31	13,720,800	24,039			
		113,249	99,025		
TOTAL					
AVG.	53,955,400	106,137			125,237

WACO

1-10	2,553,300	13,552			
11-17	1,133,500	10,463			
18-24	DOWN	—			
25-31	771,500	5,241			
		29,256	28,072		
TOTAL					
AVG.	4,458,300	28,664			5944

	63,028,100	130,844			
	53,955,400	106,137			
	121,441,800	265,645			234,455

OVER

JUNE 1977

[illegible]	[illegible]	[illegible]		[illegible]	
[illegible]		ST. [illegible]	CITY	ST. [illegible]	CITY
1-5	14,935,600	20,559			
6-12	19,505,600	27,338			
13-19	19,915,600	27,093			
20-26	19,061,400	26,462			
27-30	10,299,100	29,111			
[illegible]		130,563	120,821		
[illegible]	83,717,300	125,692			124,038

[illegible]					
1-5	8,972,800	17,270			
6-12	13,108,000	17,874			
13-19	13,683,400	23,912			
20-26	12,789,700	27,742			
27-30	7,522,400	16,463			
[illegible]		103,261	93,716		
[illegible]	56,076,300	98,489			145,915

WACO

1-5	922,400	1,972			
6-12	1,383,200	12,121			
13-19	1,323,500	7,338			
20-26	1,453,900	7,425			
27-30	773,000	5,702			
[illegible]		34,558	33,635		
[illegible]	5,856,000	34,097			10,074

[illegible]	83,717,300	125,692			
[illegible]	56,076,300	98,489			
[illegible]	145,649,[illegible]	[illegible]			[illegible]

ST. REGIS PAPER CO. - MICH. CARTON DIVISION

	FLOW	B.O.D.	SUSP. SOLIDS
DATE	MGD	LBS./DAY	LBS./DAY
May, 77	5.0000	6,500	10,000
1	4.4706	10904	11278
2	4.7791	8251	5572
3	4.7919	11830	10729
4	4.6448	10858	7702
5	4.8048	9764	2916
6	5.0815	11623	17975
7	4.8605	7675	6031
8	5.0460	7700	7567
9	4.1464	9677	11934
10	4.5820	10692	9466
11	3.9258	9232	36037
12	4.5666	11902	8349
13	4.8997	9619	9007
14	4.8483	8571	11763
15	4.6559	9620	13286
16	4.7645	9961	10724
17	4.7947	12734	9539
18	4.9760	10089	10914
19	5.0781	13515	13990
20	5.0424	11237	12674
21	5.0762	9439	11639
22	5.1611	10604	7898
23	5.0954	12843	11967
24	4.5032	13987	9298
25	4.7846	12358	11000
26	4.1140	8461	7298
27	4.8591	10572	10748
28	5.0237	12186	23752
29	1.0002	3502	23914
30	1.8658		
31	4.2098	6678	12671
TOT. - City	140.4527	306,144	357,640
TOT. - MC			398,295
AVERAGE			377,968

MAY 1977

	[illegible]	SOLIDS			
ANGELL		ST. P	CITY	ST. P	CITY
1-8	21,613,300	23,462			
9-15	17,550,900	62,559			
16-22	20,420,000	40,002			
23-29	15,711,100	52,746			
30-31	2,569,100	2,560			
[illegible]		181,329	148,809		
[illegible]	77,864,400	165,069			129,401
DORR					
1-8	15,683,100	43,312			
9-15	13,151,900	30,742			
16-22	13,476,500	36,263			
23-29	12,163,800	46,400			
30-31	2,221,600	10,588			
		167,305	160,344		
	56,696,900	163,825			160,941
WACO					
1-8	1,182,800	6,507			
9-15	921,900	22,856			
16-22	996,500	6,145			
23-29	1,505,300	12,620			
30-31	1,284,900	1,533			
		49,661	48,487		
	5,891,400	49,074			15,802

77,864,400 165,069
56,696,900 163,825
147,452,700 277968 [illegible]

ST. REGIS PAPER CO. - MICH. CARTON DIVISION

	FLOW	B.O.D.	SUSP. SOLIDS
DATE	MGD	LBS./DAY	LBS./DAY
April 77	5.0000	6,500	10,000
1	4.2686	10218	9279
2	4.2780	9260	10022
3	4.4466	8045	16204
4	4.5282	9603	9021
5	4.6529	7145	5701
6	5.0826	9223	14430
7	1.0191	2742	22988
8	.9650		
9	3.4692	4658	4827
10	3.5675	8392	8073
11	4.2521	10665	6857
12	4.5164	11154	10992
13	4.7293	11930	13067
14	4.7449	10575	8591
15	4.5822	8034	7805
16	4.4355	7140	5696
17	4.5367	7909	8386
18	4.5659	10273	10541
19	4.6803	12171	10325
20	4.6634	10556	12091
21	4.5520	8695	7829
22	4.4999	9204	4798
23	4.3412	6905	4960
24	4.3228	8910	2012
25	4.4835	9144	3903
26	4.6455	12679	7093
27	3.6035	9421	14157
28	4.3941	9021	12249
29	4.6490	10431	5800
30	4.6099	9023	6533
31			
TOT. - City	126.0858	263,126	264,230
TOT. - MC			271,830
AVERAGE			268,030

APRIL, 1977

	103.36	41.82	21.36
ANGELL			
1-3	7,096,100	19,999	
4-10	13,128,500	19,884	
11-17	17,295,800	29,944	
18-24	16,801,000	30,661	
25-30	13,567,400	27,337	
		127,825 125,421	
	67,888,800	126,623	118,645
DORR			
1-3	5,897,100	11,213	
4-10	10,156,000	47,607	
11-17	14,501,300	34,805	
18-24	14,824,500	24,209	
25-30	12,818,100	26,171	
		144,005 138,809	
	58,197,000	141,407	144,481
WACO			

DOWN

TB FINANCE 5/23/77

ST. REGIS PAPER CO. - MICH. CARTON DIVISION

	FLOW	B.O.D.	SUSP. SOLIDS
DATE	MGD	LBS./DAY	LBS./DAY
March 1977	5.0000	6,500	10,000
1	4.1140	10093	11140
2	4.1357	11512	5363
3	4.2235	10438	8246
4	4.1322	10146	6742
5	4.4256	9647	7496
6	4.2375	8516	10502
7	4.1285	9728	4221
8	3.9960	9320	6250
9	4.1321	10199	13894
10	4.2305	10996	9726
11	4.3060	12860	15416
12	4.7224	10965	12602
13	4.4219	12813	13491
14	4.2395	13735	6578
15	4.8160	13683	9001
16	4.3358	12902	8883
17	4.3681	12021	7707
18	3.8406	8965	8540
19	4.0855	7960	6005
20	4.1508	8213	4288
21	4.3323	9653	11936
22	4.4346	11567	7888
23	4.3606	8859	7002
24	4.3865	7334	12584
25	4.9245	9626	20948
26	4.2328	8879	6677
27	4.3297	8828	13359
28	4.4922	11397	12584
29	4.5297	11266	13530
30	2.5322	6214	9046
31	3.8289	10739	8817
TOT. - City	131.4262	319,074	300,462
TOT. - MC			304,290
AVERAGE			302,377

MARCH 1977

1-6	14,001,800	20,825			
7-13	16,366,200	39,972			
14-20	16,288,200	22,467			
21-27	16,861,500	29,246			
28-31	8,157,600	21,163			
		133,673	123,833		
	71,675,300	128,753			128,849

1-6	10,282,400	18,946			
7-13	13,571,200	36,774			
14-20	13,548,100	29,980			
21-27	12,570,700	48,151			
28-31	7,041,200	19,140			
		152,991	160,012		
	57,013,600	156,502			183,955

1-6	984,300	6,339			
7-13	—	—			
14-20	—	—			
21-27	1,568,800	7,257			
28-31	184,200	4,030			
		17,626	16,617		
	2,737,300	17,122			6,270

	71,675,300	128,753			
	57,013,600	156,502			
		302,377			

ST. REGIS PAPER CO. - MICH. CARTON DIVISION

DATE	FLOW MGD	B.O.D. LBS./DAY	SUSP. SOLIDS LBS./DAY
February 1977	5.000	6,500	10,000
1	4.1866	9385	10920
2	4.4855	12713	17338
3	4.2348	11786	12098
4	4.2188	10802	9893
5	4.4938	11776	11894
6	4.4089	10736	10379
7	4.7850	13554	11492
8	5.0010	13963	22336
9	4.5940	10919	20921
10	4.4243	13474	11095
11	4.5737	11892	12968
12	4.5289	12138	13238
13	4.5543	8237	6714
14	4.5166	13683	10436
15	4.4165	11778	9203
16	4.4854	12215	8928
17	4.4746	11589	6743
18	4.5790	13512	11337
19	4.3395	10426	8346
20	4.4422	10578	11257
21	4.4586	10187	11807
22	3.2883	7815	24459
23	4.0346	10102	9862
24	4.0984	11066	8825
25	4.3240	11153	8878
26	4.2134	9223	8416
27	4.2378	10267	10508
28	4.7468	12495	24461
29			
30			
31			
TOT. - City	123.1393	317,458	344,746
TOT. - MC			354,868
AVERAGE			349,808

MONTH OF FEBRUARY 1977

DATE	FLOW	SOLIDS		BOD	
ANGELL - 30		ST. R	CITY	ST. R	CITY
1-6	14,194,400	15,509			
7-13	18,533,900	22,237			
14-20	17,969,100	28,727			
21-28	18,306,700	31,148			
		97,621	91,616		
TOTAL					
AVG.	69,004,100	94,619			121,383

DORR 28					
1-6	11,346,400	50,987			
7-13	12,901,200	66,142			
14-20	13,284,700	39,657			
21-28	14,896,700	70,225			
		227,011	223,148		
TOTAL					
AVG.	52,429,000	225,080			190,901

28					
1-6	481,600	7,904			
7-13	1,026,100	13,088			
14-20	DOWN	—			
21-28	198,500	9,244			
		30,236	29,982		
TOTAL					
AVG.	1,706,200	30,109			5,174

ANGELL	[illegible]	94 [illegible]			
FOUNTAIN	[illegible]	[illegible]			
TOTAL	123,[illegible]	349,[illegible]8			

ST. REGIS PAPER CO. - MICH. CARTON DIVISION

	FLOW	B.O.D.	SUSP. SOLIDS
DATE	MGD	LBS./DAY	LBS./DAY
JANUARY 1977	5.0000	6,500	10,000
1	.2636		
2			
3	4.0007	5309	9743
4	4.1369	10765	6253
5	4.2871	9203	7688
6	4.3809	9544	6407
7	4.5532	10894	7931
8	4.9109	12923	17408
9	5.1408	9235	11070
10	4.6219	11178	9593
11	4.6693	14739	9002
12	4.5464	14734	11636
13	4.5780	9986	7027
14	5.0020	16782	11433
15	4.8238	6410	8769
16	4.6632	9025	6428
17	4.3458	10612	11789
18	4.8453	12771	14388
19	4.6027	15639	12345
20	4.6142	14411	29659
21	4.6776	15861	17342
22	4.4311	12620	14588
23	4.5272	13284	14570
24	4.4837	11770	10184
25	4.4418	12929	10546
26	4.4674	11789	10813
27	4.9869	9937	19849
28	4.6650	10712	9389
29	4.5168	12315	10386
30	4.4932	15031	11931
31	2.9900	9270	15421
TOT. - City	131.6674	339,678	343,588
TOT. - MC			351,671
AVERAGE			347,630

1977

1-2	170,300	DOWN			
3-9	18,847,000	17,968			
10-16	19,189,100	26,873			
17-23	18,227,300	34,456			
24-31	18,878,200	28,724			
		108,021	103,933		
	75,261,900	105,977			135,397

1-2	39,200	DOWN			
3-9	12,410,700	47,499			
10-16	13,715,500	38,979			
17-23	12,963,100	68,136			
24-31	15,455,500	62,838			
		217,452	214,848		
	54,584,100	[illegible]			197,402
		216,150			

1-2	104,000	DOWN			
3-9	152,800	2,358			
10-16	DOWN	DOWN			
17-23	372,500	18,308			
24-31	711,100	5,532			
		26,198	24,807		
	1,821,100	25,503			6,879

[illegible] 34762

WSM200

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 16
DATE 2/20/86
TIME 9.51.42

PLANT- FOUNTAIN ~~DEER~~ WACO H3

DAY	---COD--- MG/L	LBS.	---SS--- MG/L	LBS.	FLOW
01	50	238	160	761	.56980
02	510	0	488	0	.00001
03	620	108	552	96	.02080
04	570	0	832	0	.00001
05	661	19	656	19	.00340
06	0	0	0	0	.00001
07	0	0	0	0	.00001
08	0	0	0	0	.00001
09	0	0	0	0	.00001
10	0	0	0	0	.00001
11	0	0	0	0	.00001
12	0	0	0	0	.00001
13	0	0	0	0	.00000
14	0	0	0	0	.00000
15	0	0	0	0	.00000
16	0	0	0	0	.00000
17	0	0	0	0	.00000
18	0	0	0	0	.00000
19	0	0	0	0	.00000
20	0	0	0	0	.00000
21	0	0	0	0	.00000
22	0	0	0	0	.00000
23	0	0	0	0	.00000
24	0	0	0	0	.00000
25	0	0	0	0	.00000
26	0	0	0	0	.00000
27	0	0	0	0	.00000
28	0	0	0	0	.00000
29	0	0	0	0	.00000
30	0	0	0	0	.00000
31	0	0	0	0	.00000
	2,411	365	2688	876	.59409
AVERAGE DAY THIS MONTH					
	482	73	537	175	1 .04951

PLANT- FOUNTAIN WACO A3

DAY	BOD MG/L	BOD LBS.	SS MG/L	SS LBS.	FLOW
01	1	0	1	0	.00001
02	410	0	1360	0	.00001
03	590	0	1208	0	.00001
04	1140	1,118	1856	1,820	.11750
05	1050	251	3176	758	.02860
06	870	256	1216	357	.03520
07	1050	84	1724	138	.00960
08	870	1,125	3640	4,705	.15490
09	930	1	4360	4	.00010
10	1320	444	3650	1,228	.04030
11	1050	156	2500	371	.01780
12	1380	911	7860	5,188	.07910
13	1020	73	3440	247	.00860
14	1020	39	3320	127	.00460
15	1440	0	3030	0	.00001
16	1050	0	1720	0	.00001
17	840	1	1810	2	.00010
18	900	2	4284	11	.00030
19	1110	49	4140	183	.00530
20	1110	289	4040	1,052	.03120
21	930	2,046	3540	7,787	.26360
22	200	318	3540	5,634	.19070
23	40	78	188	369	.23510
24	1	3	1	3	.34750
25	1	3	1	3	.34750
26	680	1,414	1716	3,569	.24920
27	660	0	360	0	.00001
28	870	0	864	0	.00001
29	750	11	864	13	.00180
30	625	33	556	29	.00630
31	290	887	728	2,228	.36670
	24,198	9,592	70693	35,826	2.54167
AVERAGE DAY THIS MONTH	780	309	2280	1,156	.08199

PLANT- FOUNTAIN WACC A3

DAY	---BOD--- MG/L	LBS.		---SS--- MG/L	LBS.		FLOW
01	200		C	3768		C	.00001
02	720		C	2688		C	.00001
03	600		C	1304		C	.00001
04	680		C	1216		C	.00001
05	685		C	1472		C	.00001
06	1230		C	4752		C	.00001
07	635		C	2596		C	.00001
08	715		C	1032		C	.00001
09	720		C	992		C	.00001
10	600		C	1872		C	.00001
11	960		C	7464		1	.00001
12	1620		C	2820		C	.00001
13	695		C	1388		C	.00001
14	540		C	3108		C	.00001
15	730		C	2136		C	.00001
16	840		C	2320		C	.00001
17	1020		C	2288		C	.00001
18	900		C	2808		C	.00001
19	831		27	2569		114	.00530
20	1170		C	2368		C	.00001
21	960		C	852		C	.00001
22	990		C	1056		C	.00001
23	990		C	2264		C	.00001
24	1320		C	5836		C	.00001
25	780		C	2100		C	.00001
26	750		C	2072		C	.00001
27	80		C	220		C	.00001
28	1		C	1		C	.00001
29	1		C	1		C	.00001
30	1		C	1		C	.00001
31	C		C	C		C	.00000
	21,964		27	65364		115	.00559
AVERAGE DAY THIS MONTH							
	732		1	2178		4	.00019

PLANT- FOUNTAIN WWCC A3

DAY	---CCC--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	700	0	5520	0	.00001
02	680	0	3556	0	.00001
03	750	0	3982	0	.00001
04	710	0	3912	0	.00001
05	680	0	3520	0	.00001
06	660	0	2028	0	.00001
07	480	0	1228	0	.00001
08	660	0	2708	0	.00001
09	600	0	1984	0	.00001
10	570	0	3320	0	.00001
11	680	40	4200	249	.00710
12	810	0	1892	0	.00001
13	640	0	2948	0	.00001
14	610	91	1060	157	.01780
15	690	1	2532	2	.00010
16	710	196	1368	378	.03310
17	710	395	2404	1,336	.06660
18	470	0	740	0	.00001
19	550	0	720	0	.00001
20	660	0	956	0	.00001
21	760	45	1600	95	.00710
22	810	47	1388	80	.00690
23	675	339	1817	911	.06010
24	790	0	5716	0	.00001
25	673	21	1937	60	.00370
26	218	0	1000	0	.00001
27	105	74	540	379	.08400
28	370	69	672	125	.02230
29	605	0	1544	0	.00001
30	615	0	3792	0	.00001
31	760	0	3340	0	.00001
	19,401	1,318	74424	3,772	.30500
AVERAGE DAY THIS MONTH	625	43	2400	122	.00597

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 3
DATE 11/05/85
TIME 8.30.28

PLANT- FOUNTAIN WACO A3

DAY	MG/L	LBS.	MG/L	LBS.	FLOW
01	600	0	640	0	.00001
02	720	0	1176	0	.00001
03	540	0	408	0	.00001
04	530	4	816	5	.00080
05	490	0	756	0	.00001
06	560	0	1504	0	.00001
07	460	0	648	0	.00001
08	380	0	316	0	.00001
09	590	0	1220	0	.00001
10	510	0	440	0	.00001
11	300	77	1276	326	.03060
12	580	121	2088	434	.02490
13	770	0	2580	0	.00001
14	580	2	2648	9	.00040
15	440	0	936	0	.00001
16	500	18	648	24	.00440
17	640	12	1840	35	.00230
18	730	0	4456	0	.00001
19	680	0	1712	0	.00001
20	750	1,466	1536	3,003	.23430
21	120	149	1916	2,382	.14900
22	95	179	2304	4,345	.22600
23	338	0	654	0	.00001
24	370	115	1212	245	.02420
25	500	31	1608	101	.00750
26	220	0	2404	0	.00001
27	500	0	1040	0	.00001
28	550	0	1892	0	.00001
29	560	0	2056	0	.00001
30	670	0	3692	0	.00001
31	0	0	0	0	.00000
	10,473	2,174	46422	10,909	.70459
AVERAGE DAY THIS MONTH					
	315	72	1547	364	.02349

PLANT- FOUNTAIN WACO

A3

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	470	264	1612	700	.05200
02	620	61	740	72	.01170
03	680	443	752	489	.07800
04	560	79	1008	142	.01690
05	550	0	828	0	.00001
06	600	0	1396	0	.00001
07	550	0	328	0	.00001
08	700	19	1232	34	.00330
09	620	0	512	0	.00001
10	500	0	804	0	.00001
11	640	0	596	0	.00001
12	710	0	536	0	.00001
13	680	0	660	0	.00001
14	270	0	908	0	.00001
15	520	0	820	0	.00001
16	590	0	1740	0	.00001
17	125	0	1160	0	.00001
18	55	0	312	0	.00001
19	335	0	232	0	.00001
20	490	0	836	0	.00001
21	550	0	780	0	.00001
22	620	2	1780	6	.00040
23	580	0	1840	0	.00001
24	328	19	288	17	.00690
25	521	16	946	17	.00220
26	650	0	780	0	.00001
27	600	0	1120	0	.00001
28	500	773	2052	3,233	.18520
29	620	2	648	2	.00040
30	690	104	776	117	.01810
31	620	24	1048	41	.00470
	16,544	1,740	29510	4,870	.37999
AVERAGE DAY THIS MONTH	533	56	951	157	.01226

PLANT- FCLNTAIN WACO A3

DAY	---BCD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	680	2	664	2	.00030
02	600	152	1140	288	.03C30
03	175	373	1316	2,805	.25540
04	66	88	1318	1,748	.15890
05	12C	156	1436	1,865	.15560
06	85	48	384	215	.06710
07	5C	7	1376	183	.01590
08	20	61	390	1,188	.36490
09	47C	704	122C	1,826	.17940
10	69C	104	972	147	.01810
11	780	851	1268	1,384	.13C80
12	55C	449	468	382	.09780
13	56C	27	1384	66	.00570
14	45C	48	1C56	112	.01270
15	56C	C	16C	0	.00C01
16	55C	9	492	8	.00190
17	61C	C	844	0	.00C01
18	65C	85	1212	159	.01570
19	560	C	884	1	.CCC10
20	59C	C	612	0	.00C01
21	283	0	916	0	.0CC01
22	569	4	803	5	.CCC80
23	54C	C	456	0	.CCC01
24	54C	C	304	0	.CCC01
25	62C	0	122C	0	.00C01
26	570	18	644	2C	.CC370
27	5CC	0	4CC	0	.CCC01
28	8CC	0	5CC	0	.00C01
29	80C	C	1340	0	.00C01
3C	460	18	452	18	.C0470
31	600	2C8	976	339	.04160
	15,098	3,412	26607	12,761	1.56150
AVERAGE DAY THIS MONTH					
	487	11C	858	412	.05C37

PLANT- FOUNTAIN WACO (; A3

DAY	BOD MG/L	BOD LBS.	SS MG/L	SS LBS.	FLOW *
01	610	0	784	0	.00001
02	223	0	1112	0	.00001
03	510	0	842	0	.00001
04	580	0	1144	0	.00001
05	490	0	680	0	.00001
06	330	0	472	0	.00001
07	760	0	2060	0	.00001
08	295	0	1912	0	.00001
09	420	0	1020	0	.00001
10	470	0	832	0	.00001
11	520	0	1164	0	.00001
12	460	0	708	0	.00001
13	420	39	1196	110	.01100
14	600	18	2236	67	.00360
15	760	0	2510	0	.00001
16	730	0	784	0	.00001
17	740	155	4644	973	.02510
18	600	321	964	516	.06410
19	580	133	390	89	.02740
20	750	424	1324	748	.06770
21	580	0	716	0	.00001
22	430	0	340	0	.00001
23	570	1	392	1	.00020
24	600	0	464	0	.00001
25	760	0	320	0	.00001
26	670	1	592	0	.00010
27	600	3	1516	9	.00068
28	690	0	1432	0	.00001
29	640	156	1816	444	.02930
30	670	0	1212	0	.00001
31	0	0	0	0	.00000
	17,058	1,251	35578	2,957	.22938
AVERAGE DAY THIS MONTH					
	568	42	1185	99	.00765

PLANT- FOUNTAIN WACO A3

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	490	31	1088	68	.00750
02	520	0	1424	0	.00001
03	700	0	2628	0	.00001
04	105	0	644	0	.00001
05	150	0	1032	0	.00001
06	350	783	720	1,610	.26800
07	520	114	740	162	.02620
08	190	155	1708	1,391	.09760
09	630	0	1360	0	.00001
10	530	146	2112	583	.03310
11	141	69	1676	824	.05890
12	620	0	932	0	.00001
13	400	819	1036	2,122	.24550
14	135	238	688	1,214	.21140
15	730	55	780	59	.00900
16	610	195	632	203	.03840
17	560	71	1096	138	.01510
18	570	69	768	93	.01450
19	560	128	780	178	.02740
20	560	135	1348	324	.02880
21	730	123	1340	226	.02020
22	620	377	844	513	.07280
23	733	478	920	600	.07810
24	590	0	1916	0	.00001
25	155	0	596	0	.00001
26	70	0	104	0	.00010
27	35	0	236	0	.00001
28	580	0	1896	0	.00001
29	690	0	1030	0	.00001
30	550	0	1620	0	.00001
31	580	0	492	0	.00001
	14,404	3,986	34186	10,308	1.25273
AVERAGE DAY THIS MONTH					
	464	129	1102	333	.04041

PLANT- FOUNTAIN WACO A3

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	610	854	1272	1,781	.16780
02	760	552	1496	1,086	.08700
03	650	1,222	1660	3,121	.22530
04	105	282	464	1,248	.32240
05	80	135	178	300	.20200
06	55	71	122	157	.15460
07	36	46	252	325	.15460
08	450	147	380	124	.03920
09	530	600	1500	1,699	.13570
10	470	463	444	437	.11795
11	590	581	572	563	.11795
12	660	281	700	298	.05100
13	660	414	788	494	.07510
14	480	207	328	142	.05170
15	560	42	1320	99	.00900
16	580	0	1068	0	.00001
17	510	0	680	0	.00001
18	650	219	1052	354	.04030
19	730	76	796	82	.01240
20	258	75	984	287	.03490
21	60	5	872	71	.00980
22	390	32	652	53	.00980
23	660	5	2000	15	.00090
24	690	99	3816	548	.01720
25	570	0	1944	0	.00001
26	420	0	1868	0	.00001
27	490	0	840	0	.00001
28	670	0	1196	0	.00001
29	540	0	1056	0	.00001
30	550	6	1128	12	.00130
31	0	0	0	0	.00000
	14,464	6,414	31428	13,296	2.03797
AVERAGE DAY THIS MONTH					
	482	214	1047	443	.06793

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PLANT- FOUNTAIN WACO

A3

	---BOD---		-----SS-----		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	630	214	2048	696	.04070
02	520	378	1400	1,019	.08720
03	470	765	1436	2,337	.19500
04	550	1	500	1	.00020
05	480	107	720	160	.02670
06	370	0	420	0	.00001
07	400	0	532	0	.00001
08	530	0	848	0	.00001
09	145	127	816	717	.10530
10	35	5	204	31	.01800
11	470	20	928	39	.00510
12	630	4	568	4	.00080
13	720	0	884	0	.00001
14	660	0	904	0	.00001
15	470	0	532	0	.00001
16	560	0	728	0	.00001
17	540	0	1164	1	.00010
18	500	23	1576	71	.00540
19	530	70	788	105	.01590
20	490	832	1144	1,943	.20350
21	590	1,208	972	1,991	.24540
22	690	1,107	1452	2,329	.19220
23	210	237	1752	1,975	.13510
24	87	3	464	18	.00460
25	420	250	764	454	.07120
26	600	45	888	66	.00890
27	610	1,641	1240	3,336	.32240
28	630	322	1276	653	.06130
29	800	1,086	1532	2,084	.16300
30	740	1,624	1504	3,301	.26300
31	670	2,058	1632	5,013	.36810
	15,747	12,129	31616	28,344	2.53917
AVERAGE DAY THIS MONTH					
	507	391	1019	914	.08191

PLANT- FOUNTAIN WACC

A3

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	580	454	600	469	.09370
02	470	591	704	886	.15080
03	215	340	472	746	.18930
04	248	38	532	83	.01860
05	300	77	3352	856	.03060
06	670	298	2664	1,185	.05330
07	450	54	2400	288	.01440
08	313	52	560	93	.02000
09	330	0	364	0	.00010
10	410	117	616	175	.03410
11	430	318	576	426	.08870
12	650	720	416	461	.13270
13	620	631	1884	1,917	.12190
14	110	226	292	599	.24600
15	40	201	216	1,087	.60300
16	370	621	620	1,041	.20120
17	540	166	928	285	.03680
18	490	526	340	365	.12660
19	430	1,123	448	1,170	.31300
20	480	532	1132	1,254	.13270
21	660	950	720	1,036	.17240
22	610	1,036	872	1,482	.20360
23	460	1,305	620	1,764	.34100
24	620	439	1720	1,219	.08490
25	670	320	1016	485	.05720
26	580	458	852	673	.09470
27	660	486	960	707	.08820
28	680	706	1264	1,423	.13490
29	0	0	0	0	.00000
30	0	0	0	0	.00000
31	0	0	0	0	.00000
	13,086	12,849	27140	22,175	3.78640
AVERAGE DAY THIS MONTH	467	459	969	792	.13523

UNIT- FOUNTAIN WAGO A3

	-----	------	------	------	
	MG/L	LBS.	MG/L	LBS.	FLOW
DAY					
01	1	1	1	1	.12465
02	460	12	324	87	.03200
03	380	1	2448	564	.02760
04	636	913	920	1,123	.09550
05	760	124	1140	186	.01950
06	420	23	716	25	.00420
07	520	102	1164	483	.03140
08	420	10	200	49	.02850
09	500	0	42	0	.00001
10	556	114	544	93	.02100
11	630	244	992	380	.04520
12	650	1	72	137	.02130
13	600	115	840	161	.02290
14	600	43	484	282	.06990
15	530	138	1428	2,522	.21160
16	580	902	424	504	.16240
17	440	1	424	13	.0050
18	370		728	0	.00001
19	720	263	2544	928	.04371
20	752	1013	2356	2,645	.14470
21	630	213	980	320	.03910
22	240	41	836	148	.02120
23	616	1	464	0	.00001
24	576	264	760	166	.02940
25	570	533	1252	1,216	.11640
26	812	567	1304	2,491	.21570
27	70	18	404	1,084	.32160
28	365	714	400	937	.28070
29	536	727	916	1,057	.13830
30	630	91	872	126	.01730
31	500	162	440	143	.03990
	16,769	6,176	23627	18,860	2.31385
AVERAGE DAY THIS MONTH					
	540	274	955	606	.07464

PLANT- FOUNTAIN WACC A3

DAY	---BOD--- MG/L	LBS.	---SS--- MG/L	LBS.	FLOW
01	52C	2C	36C	14	.CC46C
02	4?C	76E	214E	3,834	.2139C
03	5?C	15S	1C1E	29E	.C251C
04	44C	9?	42C	89	.C253C
05	51C	53S	78C	824	.1266C
06	53C	853	1672	3,C12	.1528C
07	54C	369	1912	1,3C5	.CE18C
08	56C	113	17CC	343	.C2419
09	6EC	255	162C	6C8	.C45C1
10	63C	332	1184	625	.C6324
11	74C	391	1912	1,CC9	.C6324
12	53C	28C	1124	593	.C6324
13	71C	375	2896	1,528	.C6324
14	63C	332	2628	1,387	.C6324
15	58C	3C6	636	336	.C6324
16	59C	81	976	134	.C164C
17	66C	69	16C8	169	.C126C
18	71C	18C	1432	363	.C3C4C
19	65C	4C8	1304	818	.C752C
20	56C	184	984	324	.C394C
21	71C	348	2C68	1,C13	.C587C
22	7CC	1,988	2492	7,C77	.34C3C
23	85	25	222C	647	.C349C
24	1	C	1	C	.C349C
25	1	C	1	C	.C349C
26	1	C	1	C	.C449C
27	1	1	1	1	.1338C
28	1	1	1	1	.1C75C
29	1	C	1	C	.C485C
30	1	C	1	C	.C3C6C
31	1	1	1	1	.12465
	13,233	8,467	353C2	26,353	2.29639
AVERAGE DAY THIS MONTH					
	426	273	1138	85C	.C74C8

PLANT- MOUNTAIN WACO A3

DAY	--- CO ----- MG/L	LBS	-----SS------ MG/L	LBS	FLOW
01	530	0	956	0	.00001
02	600	0	1692	0	.00001
03	550	0	1688	1	.00010
04	600	39	1696	152	.01780
05	620	292	964	464	.05650
06	660	16	1014	25	.00290
07	730	1	852	1	.0002
08	800	710	1606	1,451	.10760
09	500	0	364	1	.00010
10	550		384	0	.00001
11	530	0	570	0	.0000
12	580	0	576	0	.00180
13	580	0	502	0	.0000
14	710	7	740	7	.00120
15	500	3	408	2	.00060
16	500	0	404	0	.00001
17	55	0	692	0	.00001
18	700	0	702	0	.00001
19	580	11	1448	523	.04330
20	530	42	956	73	.00940
21	460	333	714	1,232	.08665
22	1	1	1	1	.08665
23	1		1	0	.10430
24	1	0	1	0	.04990
25	1	1	1	1	.16190
26	338	60	460	108	.02820
27	620	30	700	34	.00580
28	630	7	648	11	.00130
29	490	0	614	0	.00001
30	510	35	388	96	.00830
31	0		0	0	.00000
	14,952	,875	15548	4,293	.77459
AVERAGE DAY THIS MONTH	498	60	844	143	.02530

PLANT- FOUNTAIN WACC A3

DAY	---BOD--- MG/L	LBS.	---SS--- MG/L	LBS.	FLOW
01	780	866	2608	2,897	.13310
02	770	48	2464	127	.00740
03	620	83	780	105	.01610
04	630	124	1292	253	.02356
05	610	0	424	0	.00001
06	215	0	1148	0	.00001
07	80	122	592	903	.18281
08	420	0	584	0	.00001
09	500	0	572	0	.00001
10	530	0	660	0	.00001
11	590	0	2288	0	.00001
12	500	66	248	33	.01590
13	470	144	620	190	.03671
14	450	0	888	1	.00019
15	470	0	568	0	.00001
16	570	5	1816	17	.00110
17	540	2	900	4	.00050
18	700	359	1360	698	.06150
19	770	529	3532	2,426	.08230
20	343	82	1736	413	.02850
21	45	42	492	456	.11110
22	500	464	1368	1,268	.11110
23	680	0	1116	0	.00001
24	600	0	1252	0	.00001
25	590	0	776	0	.00001
26	470	0	704	0	.00001
27	570	0	960	0	.00001
28	560	2	1108	5	.00050
29	530	2	940	3	.00043
30	580	2	752	3	.00043
31	530	6	460	5	.00141
	16,173	2,948	35608	9,807	.81452
AVERAGE DAY THIS MONTH					
	521	95	1148	316	.02627

PLANT- FOUNTAIN WACO A3

DAY	---BOD--- MG/L	LBS.	-----SS---- MG/L	LBS.	FLOW
01	610	192	1052	331	.03770
02	145	202	712	991	.16680
03	55	78	816	1,161	.17050
04	520	578	1804	2,007	.13330
05	470	550	1536	1,797	.14020
06	600	590	1408	1,385	.11790
07	560	0	572	0	.00001
08	670	0	400	0	.00001
09	690	0	1700	0	.00001
10	470	0	608	0	.00001
11	520	0	584	0	.00001
12	590	11	440	7	.00200
13	335	4	780	10	.00160
14	680	6	1184	10	.00100
15	670	0	1520	0	.00001
16	530	0	1196	0	.00001
17	490	0	728	0	.00001
18	650	0	1560	0	.00001
19	590	0	1232	0	.00001
20	610	3	1248	6	.00060
21	600	27	976	43	.00530
22	780	0	1852	0	.00001
23	660	0	472	0	.00001
24	600	0	672	0	.00001
25	520	0	876	0	.00001
26	510	113	812	180	.02660
27	580	257	648	287	.05200
28	630	96	1396	213	.01828
29	490	41	812	67	.00991
30	730	145	2184	435	.02388
31	0	0	0	0	.00000
	16,555	2,892	31780	8,930	.90871
AVERAGE DAY THIS MONTH	551	96	1059	298	.03029

- EFFLUENT SHEET

DATE 9/13/84
TIME 14.19.15

PLANT- FOUNTAIN WACO

A3

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	520	206	728	289	.04750
02	530	317	1172	701	.07170
03	690	284	1308	538	.04930
04	85	188	440	974	.26530
05	70	98	384	539	.16830
06	400	207	568	294	.06200
07	500	13	672	17	.00310
08	375	20	268	15	.00650
09	300	0	396	0	.00001
10	275	0	832	0	.00001
11	560	28	784	39	.00590
12	580	98	1772	299	.02020
13	500	0	640	0	.00001
14	460	428	700	652	.11160
15	400	1	856	1	.00021
16	410	702	1864	3,192	.20520
17	660	94	716	102	.01700
18	145	190	720	945	.15730
19	315	339	222	239	.12900
20	440	45	814	83	.01220
21	430	22	508	25	.00600
22	550	33	660	39	.00710
23	660	6	796	7	.00100
24	580	9	936	15	.00190
25	700	0	852	0	.00001
26	730	4	856	5	.00070
27	670	0	428	0	.00001
28	700	0	1660	0	.00001
29	555	0	952	0	.00001
30	520	0	768	1	.00011
31	470	71	1108	168	.01820
	14,780	3,403	25380	9,179	1.36738
AVERAGE DAY THIS MONTH					
	476	110	818	296	.04411

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WASTEWATER TREATMENT PLANT

WSM200 CITY OF BATTLE CREEK PAGE 3
FINAL EFFLUENT SHEET DATE 7/12/84
TIME 9.54.47

PLANT- FOUNTAIN WACO 93

DAY	BOD MG/L	BOD LBS.	SS MG/L	SS LBS.	FLOW
01	560	227	676	74	.04850
02	520	14	688	19	.00330
03	440	37	1100	92	.01000
04	360	16	564	18	.00390
05	540	0	1312	0	.00002
06	400	0	704	0	.00001
07	490	0	660	68	.01240
08	520	144	1004	385	.04590
09	60	140	604	1,201	.21850
10	25	45	192	340	.21750
11	180	390	308	667	.25960
12	610	82	924	123	.01600
13	375	5	356	48	.01610
14	560	47	480	40	.01610
15	750	289	812	313	.04620
16	105	311	572	1,696	.35530
17	50	397	138	1,096	.95200
18	410	1,578	1412	16,981	.46120
19	480	604	904	1,138	.15080
20	490	617	1000	1,256	.15080
21	590	712	726	901	.15080
22	630	793	892	1,123	.15080
23	670	843	3820	4,807	.15080
24	600	755	848	1,067	.15080
25	830	1,044	1332	1,676	.15080
26	850	1,070	1172	1,475	.15080
27	590	742	384	483	.15080
28	670	43	412	518	.15080
29	630	793	344	433	.15080
30	460	579	1128	1,420	.15080
31	0	0	0	0	.00000
	14,665	15,303	28,158	30,568	4.40612
AVERAGE DAY THIS MONTH					
	488	443	938	1,319	.14954

PLANT- FOUNTAIN WACO

A3

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	300	6	600	1	.00010
02	550	8	580	9	.00180
03	540	4	500	4	.00090
04	700	424	1056	640	.07260
05	455	216	808	1,125	.16680
06	45	76	424	718	.20280
07	460	415	396	358	.10820
08	520	294	516	292	.06770
09	460	254	1408	777	.06610
10	650	496	1500	1,144	.09140
11	430	389	820	742	.10840
12	340	226	704	469	.07980
13	360	175	572	279	.05840
14	410	132	520	168	.03870
15	560	938	1152	1,929	.20070
16	470	27	2032	115	.00680
17	460	52	1036	117	.01350
18	480	113	776	183	.02820
19	580	90	576	89	.01860
20	580	49	616	52	.01010
21	730	201	884	243	.03300
22	650	263	514	204	.04850
23	580	405	492	344	.08370
24	640	79	1100	123	.01470
25	790	32	2548	104	.00490
26	530	1	2800	2	.00010
27	260	1,172	1388	6,256	.54010
28	35	40	334	386	.13860
29	315	316	568	573	.12080
30	580	56	628	58	.01100
31	840	19	452	10	.00270
	14,998	6,458	28193	17,514	2.33970
AVERAGE DAY THIS MONTH					
	483	224	909	565	.07547

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PLANT- ST. REGIS-FOUNTAIN WWCC A3

	---BOD---		-----SS-----		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	25	63	306	774	.30130
02	35	35	42	43	.12130
03	60	98	328	535	.19560
04	440	92	536	112	.02510
05	530	159	1160	348	.03590
06	670	88	1360	179	.01580
07	770	52	616	42	.00810
08	750	222	68[illegible]	20[illegible]	.03540
09	353	536	944	1,433	.18190
10	630	3,374	2096	11,224	.64170
11	500	479	784	752	.11490
12	480	568	700	828	.14170
13	570	518	1020	926	.10880
14	580	480	1068	884	.09920
15	640	326	1148	584	.06100
16	650	1,733	1064	2,836	.31940
17	700	360	1056	544	.06170
18	580	294	1172	595	.06080
19	720	384	2152	1,148	.06390
20	600	1,364	1276	2,901	.27240
21	138	315	596	1,361	.27360
22	90	209	412	958	.27850
23	255	115	704	318	.05420
24	600	81	612	83	.01620
25	650	36	776	43	.00660
26	570	6	628	6	.00120
27	470	[illegible]	528	[illegible]	.00001
28	510	60	136	28	.01400
29	690	577	616	515	.10028
30	450	700	788	1,225	.18630
31	0	[illegible]	0	[illegible]	.00000
	14,706	13,324	25406	31,426	3.79679
AVERAGE DAY THIS MONTH					
	490	444	846	1,048	.12656

PLANT- ST. [illegible]-FOUNTAIN WAGE . A3

DAY	TI MG/L	TI LBS.	SS MG/L	SS LBS.	FLOW
01	[illegible]	[illegible]	844	,359	.15863
02	7[illegible]	[illegible]	5[illegible]	[illegible]	.1261
03	7	[illegible]	[illegible]	[illegible]	.[illegible]
04	[illegible]	[illegible]	[illegible]	[illegible]	.0[illegible]
05	[illegible]		[illegible]	4[illegible]	.11[illegible]
06	[illegible]	[illegible]	[illegible]	[illegible]	.12[illegible]
07	53[illegible]	[illegible]7	[illegible]	[illegible]4	.1382
08	67		[illegible]44	,546	.1489[illegible]
09	[illegible]	[illegible]	[illegible]4	[illegible]	.[illegible]
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16	65	.	15[illegible]	7[illegible]	.[illegible]57[illegible]
17	[illegible]		[illegible]	[illegible]	.[illegible]
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19	43[illegible]	[illegible]	[illegible]	[illegible]84	.1586[illegible]
20	57	77[illegible]	[illegible]	[illegible]	.1[illegible]
21	[illegible]6[illegible]	[illegible]	6[illegible]	4[illegible]8	.[illegible]736[illegible]
22	6[illegible]	[illegible]	10[illegible]6	2,47[illegible]	.[illegible]32
23	[illegible]	[illegible]	[illegible]	3,46[illegible]	.2130[illegible]
24	[illegible]		[illegible]	[illegible]	.[illegible]
25	7[illegible]	[illegible]	4[illegible]6	[illegible]	.[illegible]44[illegible]
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31	[illegible]79	,[illegible]77	[illegible]	[illegible]	.3[illegible]63
	[illegible],3[illegible]	2[illegible]	[illegible]4934	4[illegible]	5.[illegible]254[illegible]
AV [illegible] DAY THIS MONTH					
	[illegible]	[illegible]	[illegible]	[illegible],[illegible]4	.16836

PLANT- ST. REGIS-FOUTMAIN WACO A3

DAY	---BOD--- MG/L	LBS.	---SS--- MG/L	LBS.	FLOW
01	1	1	1	1	.10260
02	1	0	1	0	.05880
03	560	463	1304	1,077	.09900
04	720	209	804	233	.03480
05	620	147	1196	283	.02840
06	640	110	908	144	.01900
07	740	879	1408	1,672	.14230
08	630	174	672	182	.03250
09	660	200	820	249	.03640
10	690	829	2312	2,778	.14400
11	540	1,041	1940	3,740	.23100
12	520	452	408	354	.10410
13	590	641	632	685	.12990
14	520	442	1016	864	.10190
15	500	0	648	0	.06001
16	530	364	552	380	.08240
17	470	329	844	590	.08380
18	400	146	360	131	.04360
19	500	333	730	486	.07970
20	500	454	1308	1,189	.10890
21	400	905	880	1,996	.27120
22	440	1,061	684	1,649	.28890
23	620	1,303	1140	2,395	.25180
24	650	511	1320	1,016	.09220
25	450	44	544	54	.01180
26	280	976	816	2,844	.41770
27	580	548	1508	1,426	.11030
28	123	266	728	1,575	.25930
29	65	122	280	525	.22450
30	368	566	480	739	.18440
31	630	39	664	41	.00740
	14,938	13,531	26910	29,298	3.78562
AVERAGE DAY THIS MONTH					
	481	436	868	945	.12212

PLANT- ST. REGIS-FOUTNAIN WACO A3

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	275	78	256	72	.03380
02	400	447	1240	1,385	.13380
03	311	227	120	88	.08750
04	420	695	282	467	.19840
05	273	153	756	438	.06940
06	358	0	704	0	.00001
07	313	130	800	331	.04960
08	305	648	996	2,114	.25440
09	451	381	1564	1,325	.10150
10	155	730	1128	5,310	.56410
11	40	112	236	662	.33620
12	400	824	1104	2,275	.24690
13	275	357	848	1,100	.15540
14	540	152	508	143	.03380
15	730	225	284	88	.03700
16	720	424	1016	598	.07050
17	600	214	784	275	.04210
18	600	893	1068	1,589	.17830
19	830	913	860	946	.13180
20	560	572	1728	1,766	.12250
21	308	376	1572	1,919	.14630
22	450	770	1832	3,157	.20650
23	320	233	1512	1,102	.08730
24	1	1	1	1	.08730
25	1	1	1	1	.08730
26	1	1	1	1	.08740
27	1	1	1	1	.06990
28	1	1	1	1	.12150
29	1	2	1	2	.28900
30	1	1	1	1	.10250
31	1	1	1	1	.10260
	9,641	9,571	21206	27,159	4.23461
AVERAGE DAY THIS MONTH					
	311	309	684	876	.13660

PLANT- ST. REGIS-FOUNTAIN WWCC A3

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	420	0	644	0	.00001
02	440	0	2420	0	.00001
03	390	0	700	0	.00001
04	620	582	1876	1,760	.11240
05	120	124	408	423	.12420
06	120	172	226	323	.17140
07	253	27	772	82	.01270
08	430	43	1756	177	.01210
09	640	74	1448	161	.01333
10	700	207	1680	498	.03550
11	540	1,444	1804	4,823	.32041
12	60	33	308	170	.00620
13	45	66	280	411	.17590
14	400	594	1080	1,603	.17790
15	540	296	900	493	.06560
16	550	555	804	811	.12090
17	560	92	1552	255	.01970
18	670	0	812	0	.00001
19	650	279	704	302	.05140
20	540	6	700	8	.00140
21	308	3	468	5	.00130
22	320	0	508	0	.00001
23	225	192	912	779	.10230
24	40	13	54	17	.03800
25	1	1	1	1	.13600
26	1	1	1	1	.14250
27	1	2	1	2	.23970
28	265	533	1232	2,476	.24080
29	370	242	1220	799	.07850
30	325	263	316	256	.09700
31	0	0	0	0	.00001
	10,544	5,841	25587	16,636	2.55718
AVERAGE DAY THIS MONTH					
	351	195	852	555	.08524

CITY CF BATTLE CREEK
FINAL EFFLLENT SHEET

PLANT- ST. RECIS-FCLTNAIN WACC A3

DAY	---BCD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLCW
01	165	483	884	2,586	.35060
02	5C	54	214	402	.22520
03	45C	66	1352	197	.C1750
04	68C	41	724	44	.CC730
05	47C	C	568	C	.CCCC1
06	52C	C	148	0	.CCCC1
07	52C	C	66C	0	.CCCC1
08	66C	C	3C96	C	.CCCC1
09	77C	C	2668	0	.CCCC1
1C	4CC	C	932	C	.CCCC1
11	62C	C	2144	0	.CCCC1
12	63C	C	864	C	.CCCC1
13	5CC	C	1112	0	.CCCC1
14	52C	C	1304	C	.CCCC1
15	6C	C	158	0	.CCCC1
16	4C	C	146	0	.CCCC1
17	315	C	48C	C	.CCCC1
18	41C	19	492	23	.CC56C
19	43C	4	1168	10	.CC1CC
2C	62C	34[illegible]	1568	1,C79	.C657C
21	43C	24	432	25	.CC68C
22	45C	22C	2C4C	999	.C5870
23	56C	146	1C96	285	.C312C
24	44C	28	464	29	.CC75C
25	52C	5[illegible]	1136	1C9	.C115C
26	55C	1	732	2	.CCC3C
27	41C	1C5	416	1C7	.C3C7C
28	32[illegible]	9	384	11	.CC34C
29	47C	43	6C4	55	.C11CC
3C	41C	57	1436	2C1	.C168C
31	46C	C	76C	C	.CCCC1
	13,855	1,7	30,584	6,164	.85C94
AVERAGE DAY THIS MONTH					
	446	56	986	199	.C2745

PLANT- ST. REGIS-FOUNTAIN WWCC A3

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	303	2,122	640	4,481	.83910
02	530	2,909	1108	6,081	.65770
03	150	1,213	1228	9,930	.96900
04	160	1,117	164	1,138	.83140
05	50	343	156	1,070	.82210
06	215	895	264	1,099	.49890
07	298	1,137	264	1,007	.45710
08	270	1,107	512	2,100	.49140
09	243	958	316	1,246	.47240
10	363	2,023	560	3,121	.66780
11	383	2,111	584	3,244	.66570
12	295	1,166	712	2,815	.47370
13	245	660	440	1,185	.32270
14	280	48	536	92	.02060
15	480	24	1271	64	.00600
16	343	5	496	7	.00170
17	293	0	272	0	.00020
18	338	1	390	1	.00040
19	510	0	508	0	.00001
20	250	285	508	578	.13640
21	480	349	1356	987	.08720
22	338	3	264	3	.00120
23	353	149	572	242	.05060
24	135	9	728	47	.00770
25	40	18	130	59	.05470
26	305	84	584	161	.03310
27	390	4	464	4	.00110
28	410	6	460	7	.00170
29	340	0	200	0	.00001
30	650	0	1160	0	.00001
31		0		0	.00000
TO	9437	18,739	16847	40,769	8.57163
AVERAGE DAY THIS MONTH					
	314	625	561	1,359	.28572

PLANT- ST. REGIS-FOUNTAIN WACO A3

DAY	---30D--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	283	518	820	1,501	.21940
02	240	180	424	319	.09010
03	325	405	968	1,208	.14950
04	343	153	648	290	.05360
05	370	716	830	1,702	.23180
06	205	227	1052	1,163	.13250
07	250	305	620	756	.14615
08	203	248	404	493	.14615
09	150	183	232	283	.14615
10	110	134	372	454	.14615
11	233	284	1048	1,278	.14615
12	258	315	508	620	.14615
13	248	302	716	873	.14615
14	195	238	868	1,059	.14615
15	238	290	496	605	.14615
16	165	201	660	805	.14615
17	330	402	700	854	.14615
18	320	390	356	434	.14615
19	308	376	1144	1,395	.14615
20	70	85	82	100	.14615
21	55	67	154	188	.14615
22	225	274	832	1,015	.14615
23	460	561	1204	1,468	.14615
24	408	1,239	1288	3,910	.36380
25	375	1,809	580	2,798	.57810
26	355	945	476	1,267	.31900
27	380	637	652	1,093	.20080
28	295	1,242	1152	4,850	.50450
29	273	1,492	352	1,924	.65510
30	305	1,930	716	4,530	.75810
31	443	3,214	1580	11,462	.86930
TO	8418	19,362	21984	50,697	7.61015
AVERAGE DAY THIS MONTH					
	271	625	709	1,635	.24549

PLANT- ST. REGIS-FOUNTAIN WWTC A3

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	1	0	1	0	.01600
02	1	0	1	0	.01910
03	1	0	1	0	.01100
04	1	0	1	0	.01590
05	1	0	1	0	.01100
06	45	22	86	42	.05850
07	40	15	67	25	.04450
08	1	1	1	1	.09500
09	1	0	1	0	.01800
10	1	2	1	2	.29100
11	328	1,885	1432	8,230	.68870
12	385	790	2560	5,251	.24580
13	243	274	436	492	.13510
14	320	1,484	1276	5,919	.55590
15	298	1,106	1208	4,482	.44460
16	105	581	836	4,630	.66360
17	220	213	312	303	.11620
18	265	417	604	951	.18860
19	328	751	514	1,177	.27430
20	283	478	698	1,179	.20240
21	233	631	506	1,371	.32470
22	165	688	486	2,008	.49510
23	195	333	446	761	.20460
24	295	1,008	374	1,278	.40950
25	163	78	540	259	.05740
26	239	83	364	127	.04180
27	213	53	724	179	.02960
28	238	52	652	143	.02620
29	180	1,139	708	4,482	.75860
30	233	157	551	371	.08070
31	233	157	551	371	.08070
TO	5255	12,392	15939	44,034	6.60410
AVERAGE DAY THIS MONTH	169	400	514	1,420	.21304

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PLANT- ST. REGIS-FOUTNAIN WACO A3

	---BOD------		-----SS------		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	177	222	383	481	.15060
02	177	206	383	445	.13920
03	177	226	383	488	.15280
04	177	218	383	472	.14753
05	177	218	383	472	.14753
06	177	218	383	472	.14753
07	177	218	383	472	.14753
08	177	218	383	472	.14753
09	177	218	383	472	.14753
10	177	218	383	472	.14753
11	177	218	383	472	.14753
12	177	218	383	472	.14753
13	177	218	383	472	.14753
14	177	218	383	472	.14753
15	177	164	383	355	.11110
16	338	331	428	420	.11750
17	298	327	592	649	.13140
18	270	421	656	1,023	.18690
19	308	468	624	948	.18210
20	340	1,422	1744	7,294	.50120
21	333	989	1232	3,659	.35590
22	555	1,931	1216	4,232	.41700
23	363	935	912	2,350	.30880
24	520	3,078	2232	13,211	.70930
25	180	513	908	2,587	.34140
26	100	59	732	434	.07110
27	75	49	516	336	.07795
28	50	33	134	87	.07795
29	130	31	544	131	.02680
30	45	5	84	10	.01430
31		0		0	.00000
TO	6560	13,808	18299	44,332	5.69813
AVERAGE DAY THIS MONTH					
	218	460	609	1,478	.18994

PLANT- ST. REGIS-FOUNTAIN WACO A3

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	.77	219	383	475	.14853
02	.77	219	383	475	.14853
03	.77	219	383	475	.14853
04	.77	219	383	475	.14853
05	.77	219	383	475	.14853
06	.77	219	383	475	.14853
07	.77	219	383	475	.14853
08	.77	219	383	475	.14853
09	.77	219	383	475	.14853
10	.77	219	383	475	.14853
11	.77	219	383	475	.14853
12	.77	219	383	475	.14853
13	.77	219	383	475	.14853
14	.77	219	383	475	.14853
15	.77	219	383	475	.14853
16	.77	219	383	475	.14853
17	.77	219	383	475	.14853
18	.77	219	383	475	.14853
19	.77	219	383	475	.14853
20	.77	219	383	475	.14853
21	.77	219	383	475	.14853
22	.77	219	383	475	.14853
23	.77	219	383	475	.14853
24	.77	219	383	475	.14853
25	.77	219	383	475	.14853
26	.77	219	383	475	.14853
27	.77	219	383	475	.14853
28	.77	219	383	475	.14853
29	.77	219	383	475	.14853
30	.77	219	383	475	.14853
31	.77	219	383	475	.14853
TO	5487	6,789	11873	14,725	4.60443
AVERAGE DAY THIS MONTH					
	.77	219	383	475	.14853

PL IT- ST. GIS-FOUNTAIN WACO

	---BOD---		---SS---		FLOW
D	/L	LBS.	MG/L	LBS.	
	.77	[illegible]	383	475	.14853
	.77	9	383	475	.14853
	.77	9	383	47	.14853
	.77	[illegible]	383	475	.14853
	77	9	383	475	.14853
	77	[illegible]	383	475	.14853
	77	9	383	475	.14853
	77	[illegible]	383	475	.14853
	77	[illegible]	383	475	.14853
	.77	[illegible]	383	475	.14853
	.77	9	383	475	.14853
	77	9	383	475	.14853
	.77	[illegible]	383	475	.14853
	77	9	383	475	.14853
	.77	[illegible]	383	475	.14853
	.77	[illegible]	383	475	.14853
	.77	9	383	475	.14853
	77	[illegible]	383	475	.14853
	.77	[illegible]	383	475	.14853
	77	[illegible]	[illegible]	475	.1485
	.77	9	383	475	.14853
	77	[illegible]	383	475	.14853
2	77	2 9	383	475	.14853
24	.77	9	383	475	.14853
2	77	9	38	475	.14853
	77	9	383	475	.14853
7	77	9	383	475	.14853
	.77	[illegible]	383	475	.14853
	77	[illegible]	383	475	.14853
3	.77	9	383	475	.14853
				7	.04033
T		7	1 4	14,25	4.4559
DAY THIS MONTH					
	.77	2	383	47	.14853

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 2
DATE 4/15/83
TIME 12.30.[illegible]

[illegible]

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	[illegible]				
	[illegible]7			[illegible]	.[illegible]

PLANT- ST. REGIS-FOUTNAIN WACO A3

	---BOD------		-----SS------		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	177	39	383	83	.02610
02	177	9	383	19	.00600
03	177	55	383	118	.03700
04	177	643	383	1,391	.43520
05	177	732	383	1,585	.49580
06	177	767	383	1,659	.51920
07	177	359	383	776	.24280
08	177	116	383	250	.07820
09	177	181	383	392	.12270
10	177	192	383	415	.12990
11	177	920	383	1,991	.62300
12	177	1,201	383	2,600	.81340
13	177	1,065	383	2,304	.72080
14	177	615	383	1,332	.41660
15	177	353	383	764	.23900
16	177	596	383	1,291	.40380
17	177	1,331	383	2,879	.90090
18	177	1,562	383	3,380	1.05760
19	177	835	383	1,808	.56560
20	177	1,057	383	2,288	.71580
21	177	461	383	998	.31220
22	177	651	383	1,409	.44100
23	177	328	383	709	.22180
24	177	415	383	897	.28080
25	177	950	383	2,055	.64300
26	177	1,019	383	2,205	.68990
27	177	1,139	383	2,464	.77100
28	177	1,137	383	2,461	.76990
29		0		0	.00000
30		0		0	.00000
31		0		0	.00000
TO	4956	18,728	10724	40,523	12.67900
AVERAGE DAY THIS MONTH					
	177	669	383	1,447	.45282

PLANT- ST. LOUIS-FOUNTAIN WACO A3

DAY	---BOD--- MG/L	LBS.	------SS------ MG/L	LBS.	FLOW
1	177	[illegible]	383	412	.12890
[illegible]	.77	[illegible]	383	3,1[illegible]	.97591
[illegible]	77	[illegible]	383	767	.24000
04	77	[illegible]	383	4[illegible]	.12500
05	.77	[illegible]	383	1,200	.37560
[illegible]	.77	[illegible]	333	352	.11000
	.77		383	0	.00010
08	77		383	5	.00150
09	.77	[illegible]	333	8	.00250
	77	[illegible]	383	541	.16901
11	77	7	383	.64	.02130
12	.77	[illegible]	383	789	.24700
13	.77	360	383	779	.24360
14	.77	9[illegible]	383	1,981	.61930
15	77	741	383	1,60[illegible]	.50090
16	77	[illegible]04	383	[illegible],740	.54430
17	.77	[illegible]9	383	106	.03320
18	.77	271	383	585	.18300
19	.77	43	383	936	.29290
20	77	[illegible]	383	630	.19700
21	.77	[illegible]	383	627	.19620
22	.77	[illegible]41	383	303	.09480
23	.77	6[illegible]4	383	1,32[illegible]	.41560
24	.77	[illegible]2	383	69	.02170
25	77	[illegible]	383	125	.03900
26	.77	[illegible]	383	229	.07171
27	.77	.36	383	[illegible]	.16000
28	77	6[illegible]	383	1,406	.43980
29	.77	[illegible]	383	2,8[illegible]	.88080
30	.77	[illegible]	383	2,963	.92720
31	77	57	383	[illegible]3	.03640
TOT	[illegible]7	[illegible]	873	[illegible]6,3[illegible]2	8.23741
AV	DAY THIS MONTH				
	.77	39	383	849	.26556

PLANT- ST. REGIS-FOUNTAIN WACO A3

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	.77	44	383	95	.02960
02	.77	27	383	59	.01850
03	177	85	383	185	.05780
04	177	20	383	44	.01380
05	.77	397	383	858	.26860
06	.77	3	383	64	.02000
07	.77	22	383	48	.01510
08	177	374	383	810	.25350
09	.77	760	383	1,688	.52820
10	.77	533	383	1,153	.36090
11	177	164	383	356	.11130
12	.77	4	383	10	.00300
13	.77	36	383	78	.02450
14	177	133	383	287	.08980
15	177	97	383	210	.06580
16	177	635	383	1,375	.43010
17	.77	594	383	1,285	.40220
18	177	414	383	896	.28020
19	177	365	383	796	.24910
20	177	563	383	1,218	.38100
21	177	314	383	679	.21260
22	177	336	383	726	.22730
23	177	274	383	592	.18530
24	.77	221	383	477	.14930
25	177	221	383	477	.14930
26	.77	194	383	420	.13130
27	177	164	383	354	.11070
28	177	137	383	296	.09250
29	177	133	383	288	.09020
30	177	161	383	363	.11360
31	177	196	383	424	.13280
TO	5487	7,678	11873	16,611	5.19790
AVERAGE DAY THIS MONTH	.77	248	383	536	.16767

CITY OF TULLY, NEW YORK

FINAL ASSESSMENT ROLL

STATE OF NEW YORK : COUNTY OF ONONDAGA : SS:

I, [illegible], Assessor of the City of Tully, do hereby certify that I have completed the assessment roll of said City for the year 1982, and that the same contains the assessment of all real property liable to taxation in said City, so far as I have been able to ascertain the same, and that the valuation of each parcel contained in such roll is the amount at which I believe such parcel would be assessed if it were the only parcel assessed at its full value.

Dated: [illegible]

[illegible]
Assessor

STATE OF NEW YORK : COUNTY OF ONONDAGA : SS:

I, [illegible], Assessor of the City of Tully, do hereby certify that I have completed the assessment roll of said City for the year 1982, and that the same contains the assessment of all real property liable to taxation in said City, so far as I have been able to ascertain the same, and that the valuation of each parcel contained in such roll is the amount at which I believe such parcel would be assessed if it were the only parcel assessed at its full value.

Dated: [illegible]

[illegible]
Assessor

PLANT- ST. REGIS-FOUTNAIN WACO A3

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
[illegible]	177	760	383	1,645	.51470
[illegible]	177	607	383	1,508	.47190
[illegible]	77	[illegible]	383	2,189	.68490
[illegible]	177	460	383	995	.31120
[illegible]	77	356	383	771	.24130
[illegible]	77	192	383	415	.13000
[illegible]	77	739	383	1,598	.50000
[illegible]	177	148	383	320	.10000
[illegible]	177	74	383	160	.05000
[illegible]	177	74	383	160	.05000
[illegible]	77	7	383	16	.00500
[illegible]	177	7	383	16	.00500
[illegible]	177	15	383	32	.01000
[illegible]	177	15	383	32	.01000
[illegible]	77	739	383	1,598	.50000
[illegible]	177	591	383	1,278	.40000
[illegible]	177	591	383	1,278	.40000
[illegible]	177	74	383	160	.05000
[illegible]	177	89	383	192	.06000
[illegible]	177	6	383	18	.00570
[illegible]	177	61	383	131	.04100
[illegible]	177	525	383	1,136	.35540
[illegible]	177	603	383	1,305	.40840
[illegible]	177	619	383	1,340	.41930
[illegible]	177	5	383	10	.00310
[illegible]	177	96	383	207	.06480
[illegible]	77	[illegible]	383	44	.01380
[illegible]	177	89	383	192	.06020
[illegible]	177	125	383	270	.08460
[illegible]	77	139	383	301	.09420
[illegible]	177	37	383	80	.02500
TO	5487	8,966	1873	19,397	6.06940
AV	[illegible] DAY THIS MONTH				
	177	[illegible]	383	626	.19579

PLANT- ST. REGIS-FOUTNAIN WACC A3

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	177	2	383	5	.00150
02	177	9	383	19	.00610
03	177	446	383	966	.30210
04	177	720	383	1,557	.48720
05	177	903	383	1,954	.61140
06	177	908	383	1,964	.61440
07	177	123	383	267	.08360
08	177	99	383	214	.06700
09	177	112	383	242	.07570
10	177	181	383	392	.12280
11	177	174	383	376	.11750
12	177	313	383	678	.21200
13	177	329	383	712	.22270
14	177	165	383	358	.11190
15	177	256	383	554	.17340
16	177	531	383	1,148	.35930
17	177	754	383	1,632	.51070
18	177	641	383	1,387	.43390
19	177	795	383	1,720	.53810
20	177	1,030	383	2,228	.69700
21	177	791	383	1,712	.53550
22	177	476	383	1,031	.32250
23	177	471	383	1,019	.31870
24	177	49	383	106	.03320
25	177	45	383	98	.03070
26	177	69	383	148	.04640
27	177	165	383	358	.11200
28	177	98	383	211	.06610
29	177	471	383	1,019	.31870
30	177	98	383	212	.06640
31		0		0	.00000
TC	5310	11,224	11490	24,287	7.59650
AVERAGE DAY THIS MONTH					
	177	374	383	810	.25328

PLANT- ST. REGIS-FOUTNAIN WACO A3

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	177	578	383	1,251	.39150
02	177	474	383	1,026	.32100
03	177	46	383	99	.03090
04	177	22	383	47	.01460
05	177	174	383	376	.11750
06	177	14	383	30	.00950
07	177	92	383	198	.06210
08	177	287	383	621	.19440
09	177	351	383	759	.23750
10	177	232	383	501	.15680
11	177	180	383	389	.12160
12	177	207	383	447	.14000
13	177	384	383	831	.26000
14	177	1,087	383	2,353	.73610
15	177	1,217	383	2,634	.82400
16	177	73	383	159	.04960
17	177	571	383	1,237	.38690
18	177	0	383	1	.00020
19	177	1	383	3	.00090
20	177	7	383	15	.00480
21	177	1	383	3	.00100
22	177	0	383	0	.00010
23	177	55	383	119	.03720
24	177	269	383	583	.18230
25	177	265	383	574	.17950
26	177	253	383	548	.17160
27	177	284	383	616	.19260
28	177	326	383	704	.22040
29	177	468	383	1,013	.31690
30	177	94	383	203	.06350
31	177	58	383	125	.03920
TO	5487	8,070	11873	17,465	5.46420
AVERAGE DAY THIS MONTH	177	260	383	563	.17626

PLANT- ST. REGIS-FOUNTAIN WACC A3

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	177	150	383	325	.10180
02	177	600	383	1,298	.40600
03	177	601	383	1,301	.40690
04	177	541	383	1,170	.36620
05	177	524	383	1,134	.35490
06	177	455	383	985	.30810
07	177	289	383	625	.19570
08	177	235	383	508	.15880
09	177	473	383	1,023	.32000
10	177	524	383	1,135	.35500
11	177	623	383	1,347	.42150
12	177	276	383	596	.18660
13	177	8	383	16	.00510
14	177	184	383	398	.12440
15	177	31	383	66	.02070
16	177	821	383	1,776	.55570
17	177	611	383	1,322	.41350
18	177	412	383	891	.27870
19	177	178	383	384	.12020
20	177	95	383	206	.06460
21	177	133	383	288	.09000
22	177	42	383	91	.02840
23	177	12	383	27	.00840
24	177	486	383	1,052	.32920
25	177	212	383	459	.14370
26	177	135	383	292	.09140
27	177	166	383	360	.11260
28	177	83	383	180	.05630
29	177	8	383	18	.00570
30	177	322	383	697	.21820
31	177	620	383	1,341	.41960
TO	5487	9,850	11873	21,311	6.66790
AVERAGE DAY THIS MONTH					
	177	318	383	687	.21509

WSM200

CITY OF WATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 3
DATE 7/16/82
TIME 18.20.25

PLANT- ST. REGIS-FOUNTAIN WACO A3

	---BOD---		-----SS-----		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	177	297	383	643	.20130
02	177	297	383	643	.20130
03	177	297	383	643	.20130
04	177	297	383	643	.20130
05	177	297	383	643	.20130
06	177	297	383	643	.20130
07	177	297	383	643	.20130
08	177	297	383	643	.20130
09	177	297	383	643	.20130
10	177	297	383	643	.20130
11	177	371	383	803	.25114
12	177	283	383	612	.19155
13	177	1,907	383	3,911	1.22452
14	177	236	383	511	.15984
15	177	201	383	434	.13565
16	177	236	383	510	.15955
17	177	340	383	735	.22992
18	177	177	383	384	.12000
19	177	161	383	345	.10830
20	177	396	383	857	.26803
21	177	122	383	265	.08289
22	177	56	383	121	.03800
23	177	69	383	149	.04670
24	177	14	383	30	.00930
25	177	36	383	78	.02430
26	177	79	383	168	.05250
27	177	29	383	64	.01990
28	177	6	383	13	.00420
29	177	0	383	0	.0000
30	177	0	383	0	.0000
31		0		0	.0000
TO	5310	7,586	11490	16,420	5.13615
AVERAGE DAY THIS MONTH					
	177	253	383	547	.17127

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JUL 21 1982
WATER
TREATMENT PLANT

PLANT- ST. REGIS-FOUTNAIN WACO A3

	---BOD------		-----SS------		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	177	[illegible]	383	1,782	.55760
02	177	743	383	1,603	.50320
03	177	[illegible]	383	637	.19981
04	177	[illegible]	383	566	.17710
05	177	[illegible]	383	[illegible]	.1[illegible]
06	177	[illegible]	383	[illegible]	.20[illegible]
07	177	83[illegible]	383	[illegible]	.56240
08	177	939	383	2,[illegible]	.63560
09	177	[illegible]	383	[illegible]	.62370
10	177	779	383	[illegible]	.52130
11	177	864	383	[illegible]	.58470
12	177	[illegible]	383	[illegible]	.59830
13	177	93[illegible]	383	2,0[illegible]7	.63120
14	177	[illegible]	383	2,162	.67[illegible]
15	177	[illegible]	383	2,086	.65281
16	177	[illegible]	383	2,1[illegible]7	.67500
17	177	[illegible]	383	795	.24870
18	177	348	383	752	.23540
19	177	[illegible]	383	1[illegible]7	.06150
20	177	297	383	643	.20130
21	177	297	383	643	.20130
22	177	[illegible]	383	1,924	.60184
23	177	[illegible]	383	1,924	.60184
24	177	297	383	643	.20130
25	177	297	383	643	.20130
26	177	297	383	643	.20130
27	177	297	383	643	.20130
28	177	[illegible]	383	643	.20130
29	177	[illegible]	383	1,924	.60184
30	177	[illegible]	383	1,924	.60184
31	177	[illegible]	383	1,924	.60184
TOTAL	5487	19,142	11873	41,420	12.96000
AVERAGE DAY THIS MONTH					
	177	[illegible]	383	[illegible]	.41[illegible]

WSM260

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 3
DATE 5/20/82
TIME 6.53.30

PLANT- ST. REGIS-FOUNTAIN WACO A3

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	177	277	383	599	.18740
02	177	285	383	617	.19300
03	177	293	383	633	.19810
04	177	261	383	564	.17640
05	177	287	383	621	.19430
06	177	255	383	552	.17260
07	177	288	383	624	.19520
08	177	983	383	2,126	.66530
09	177	755	383	1,634	.51120
10	177	719	383	1,556	.48680
11	177	881	383	1,907	.59670
12	177	294	383	636	.19900
13	177	288	383	623	.19500
14	177	275	383	594	.18600
15	177	300	383	649	.20300
16	177	681	383	1,476	.46180
17	177	1,018	383	2,203	.68920
18	177	1,027	383	2,223	.69550
19	177	284	383	614	.19200
20	177	295	383	638	.19970
21	177	271	383	589	.18440
22	177	365	383	790	.24710
23	177	825	383	1,786	.55880
24	177	829	383	1,793	.56100
25	177	82	383	1,774	.55520
26	177	275	383	595	.18610
27	177	266	383	575	.17990
28	177	320	383	692	.21660
29	177	60	383	563	.17630
30	177	753	383	1,629	.50980
31				0	.00000
TC	5310	14,732	11490	31,875	9.97340
AVERAGE DAY THIS MONTH					
	177	491	383	1,063	.33245

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PLANT- ST. REGIS-FOUNTAIN WACO A3

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	177	0	383	0	.00010
02	177	0	383	1	.00020
03	177	9	383	20	.00620
04	177	13	383	29	.00910
05	177	506	383	1,096	.34290
06	177	316	383	683	.21380
07	177	439	383	948	.29650
08	177	18	383	39	.01230
09	177	26	383	57	.01770
10	177	2	383	4	.00130
11	177	0	383	0	.00001
12	177	6	383	12	.00390
13	177	1	383	3	.00080
14	177	10	383	21	.00650
15	177	0	383	0	.00001
16	177	2	383	4	.00130
17	177	1	383	3	.00100
18	177	0	383	0	.00001
19	177	265	383	574	.17950
20	177	313	383	677	.21190
21	177	366	383	791	.24760
22	177	58	383	125	.03900
23	177	0	383	0	.00001
24	177	0	383	0	.00001
25	177	129	383	279	.08730
26	177	279	383	603	.18830
27	177	284	383	615	.19240
28	177	295	383	639	.19980
29	177	300	383	649	.20310
30	177	281	383	608	.19010
31	177	297	383	642	.20100
TO	5487	4,215	11873	9,122	2.85415
AVERAGE DAY THIS MONTH					
	177	136	383	294	.09207

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PLANT- ST. REGIS-FOUTNAIN WACO A3

	---BOD------		-----SS------		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	177	340	383	736	.23020
02	177	171	383	369	.11560
03	177	1	383	2	.00070
04	177	0	383	1	.00030
05	177	169	383	366	.11460
06	177	702	383	1,519	.47540
07	177	453	383	980	.30670
08	177	317	383	686	.21450
09	177	284	383	614	.19200
10	177	273	383	591	.18500
11	177	254	383	549	.17190
12	177	265	383	574	.17960
13	177	278	383	601	.18810
14	177	38	383	82	.02564
15	177	2	383	4	.00140
16	177	48	383	103	.03220
17	177	25	383	55	.01720
18	177	57	383	122	.03830
19	177	548	383	1,186	.37100
20	177	820	383	1,774	.55490
21	177	517	383	1,118	.34990
22	177	244	383	527	.16490
23	177	17	383	38	.01180
24	177	14	383	30	.00950
25	177	17	383	38	.01180
26	177	1	383	3	.00080
27	177	2	383	5	.00150
28	177	4	383	9	.00270
29		0		0	.00000
30		0		0	.00000
31		0		0	.00000
TO	4956	5,861	10724	12,682	3.96814
AVERAGE DAY		THIS MONTH			
	177	209	383	453	.14172

[illegible]

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 3
DATE 2/17/82
TIME 16.59.12

PLANT- ST. [illegible] GIS-FOUTNAIN WACO A3

	---BOD------		-----SS------		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	[illegible]	44	16	46	.34790
02	35	[illegible]	73	102	.15640
03	65	[illegible]	112	346	.37050
04	[illegible]	70	38	43	.33730
05	[illegible]		156	[illegible]	.00630
06	44		70	[illegible]	.00001
07	[illegible]	[illegible]	1024	244	.02860
08	[illegible]	377	408	592	.17380
09	[illegible]	[illegible]	126	[illegible]	.32260
10	[illegible]	[illegible]	40	[illegible]	.40190
11	[illegible]	[illegible]	400	[illegible]	.17310
12	[illegible]	[illegible]	1024	[illegible]	.02270
13	[illegible]	[illegible]	344	483	.16830
14	[illegible]	[illegible]	132	[illegible]	.00510
15	[illegible]	[illegible]	[illegible]	[illegible]	.16600
16	[illegible]	[illegible]	164	536	.39180
17	13	[illegible]	64	[illegible]	.59750
18	[illegible]	7	[illegible]	741	.13060
19	[illegible]	[illegible]	383	[illegible]	.01400
20	[illegible]	[illegible]	383	[illegible]	.06040
21	177	[illegible]	383	[illegible]	.00170
22	[illegible]	[illegible]	383	604	.19910
23	[illegible]	[illegible]	383	1,493	.46700
24	[illegible]	[illegible]	383	1,693	.52970
25	[illegible]	[illegible]	383	333	.11990
26	177	[illegible]	333	[illegible]	.16960
27	177		[illegible]	[illegible]	.00050
28	[illegible]	[illegible]	333	[illegible]	.09610
29	177	[illegible]	383	864	.27030
30	177	[illegible]	383	[illegible]	.49560
31	[illegible]	[illegible]	383	2,023	.63300
TO	[illegible]	7,16	[illegible]	15,[illegible]	[illegible]
AVG A DAY THIS MONTH					
	[illegible]	[illegible]	[illegible]	487	[illegible]

PLANT- ST. REGIS-FOUNTAIN WACO 06

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	380	2,602	2140	14,651	.82040
02		0		0	.00000
03		0		0	.00000
04	350	0	1710	0	.00000
05	253	2,132	2200	18,541	1.00990
06	370	2,521	1000	6,813	.81640
07	355	2,718	1400	10,718	.91740
08	218	1,291	1800	10,662	.70980
09	450	4,276	2400	22,804	1.13860
10	403	2,717	980	6,608	.80800
11	305	2,425	500	3,975	.95260
12	355	2,329	520	3,411	.78600
13	490	3,101	520	3,291	.75830
14	305	1,623	330	1,756	.63750
15	440	2,750	2150	13,438	.74900
16	400	2,229	1700	9,474	.66780
17	355	1,904	420	2,253	.64280
18	300	1,513	2400	12,107	.60450
19	330	1,873	1200	6,810	.68000
20	303	2,341	290	2,241	.92600
21	45	366	730	5,941	.97520
22	260	2,182	340	2,854	1.00580
23	225	1,395	640	3,969	.74310
24	145	1,110	690	5,284	.91760
25	235	1,574	1180	7,903	.80260
26	230	686	1090	3,251	.35740
27	250	1,316	410	2,158	.63070
28	235	1,950	600	4,978	.99420
29	220	1,726	730	5,726	.94000
30	400	3,192	585	4,668	.95620
TOT	8607	55,842	30655	196,285	21.94780
AVERAGE DAY THIS MONTH	307	1,994	1094	7,010	.78385

PLANT- ST. REGIS-FOUNTAIN WACC 06

DAY	---BOD--- MG/L	LBS.	---SS--- MG/L	LBS.	FLOW
01	395	405	7700	7,891	.12280
02	258	473	4100	7,520	.21980
03		0		0	.00000
04		0		0	.00000
05	218	193	376	333	.10610
06	110	170	520	802	.18480
07	218	242	500	556	.13320
08		0		0	.00000
09	275	135	2050	1,009	.05900
10	280	259	1480	1,367	.11070
11		0		0	.00000
12		0		0	.00000
13		0		0	.00000
14	245	211	1140	981	.10310
15	375	324	3260	2,816	.10350
16	333	468	2270	3,192	.16850
17	140	374	550	1,469	.32010
18		0		0	.00000
19		0		0	.00000
20		0		0	.00000
21		0		0	.00000
22	308	502	2170	3,535	.19520
23	380	1,140	2490	7,472	.35960
24	270	2,070	1660	12,724	.91850
25	500	2,878	2100	12,088	.68980
26	363	1,500	1800	7,440	.49530
27	335	1,208	1220	4,398	.43200
28	190	603	820	2,600	.38000
29	400	1,526	2600	9,922	.45730
30	312	2,340	1630	12,226	.89880
31	335	2,605	1860	14,465	.93190
TOT	6240	19,626	42296	114,806	7.39000
AVERAGE DAY THIS MONTH	297	935	2014	5,467	.35190

PLANT- ST. REGIS-FOUNTAIN WACO 06

	---BOD------		-----SS------		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01		0		0	.00000
02		0		0	.00000
03		0		0	.00000
04		0		0	.07940
05	273	506	830	1,537	.22190
06	293	396	620	839	.16210
07	300	427	800	1,140	.17070
08	165	209	815	1,030	.15150
09	178	163	184	168	.10970
10	145	122	500	419	.10050
11	220	186	420	355	.10120
12	263	231	3255	2,855	.10510
13	255	1,069	500	2,096	.50230
14	250	402	2655	4,269	.19270
15	243	376	640	989	.18520
16	340	1,195	1115	3,918	.42110
17	375	1,307	1145	3,991	.41770
18	430	2,525	1350	7,927	.70360
19	165	794	850	4,088	.57630
20	323	1,624	1340	6,738	.60260
21	263	1,051	1095	4,374	.47870
22	165	399	753	1,821	.28980
23	170	1,436	378	3,193	1.01220
24	175	333	630	1,200	.22820
25	288	868	1100	3,317	.36130
26	65	180	370	1,025	.33200
27	278	746	470	1,261	.32150
28	95	116	960	1,176	.14680
29	60	164	435	1,188	.32730
30	208	527	870	2,203	.30340
31		0		0	.00000
TOT	5985	17,352	24080	63,117	8.60480
AVERAGE DAY THIS MONTH					
	221	643	891	2,338	.31870

#SM4_J

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

DATE 7/11/78
TIME 12.04.10

PLANT- ST. REGIS-FOUNTAIN WACO 06

	---BOD---		-----SS-----		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	360	379	845	889	.12610
02	340	457	865	1,162	.16100
03	490	1,637	2245	7,499	.40030
04	350	1,192	1415	4,818	.40800
05	343	1,113	1060	3,440	.38890
06	275	537	1135	2,215	.23390
07	338	305	1325	1,196	.10820
08	315	380	1365	1,645	.14440
09	540	587	1115	1,211	.13020
10	345	752	1020	2,222	.26110
11	360	576	1480	2,366	.19160
12	218	373	2790	4,773	.20500
13	250	424	7855	13,313	.20310
14	300	483	1770	2,852	.19310
15	355	422	1305	1,551	.14240
16	350	577	1685	2,776	.19740
17	460	978	1720	3,659	.25490
18	313	408	1585	2,066	.15620
19	440	849	1365	2,634	.23120
20	390	712	1395	2,546	.21870
21	333	578	1165	2,021	.20790
22	378	457	1310	1,584	.14490
23		0	855	900	.12610
24		0		0	.00000
25		0		0	.00000
26		0		0	.00000
27		0		0	.00000
28		0		0	.00000
29		0		0	.00000
30		0		0	.00000
31		0		0	.00000
TOT	7843	14,176	38670	69,338	4.83460
AVERAGE DAY THIS MONTH					
	341	616	1681	3,015	.21020

WSM201

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 6
DATE 6/13/78
TIME 14.41.46

PLANT- ST. REGIS-FOUNTAIN WACO 06

DAY	BOD MG/L	BOD LBS.	SS MG/L	SS LBS.	FLOW
01	393	3,630	705	6,512	1.10690
02	370	3,615	800	7,817	1.17090
03	410	2,754	1050	7,066	.80640
04	410	3,250	1105	8,760	.95000
05	510	1,099	1510	3,254	.25820
06	460	519	1545	1,744	.13530
07	710	728	1320	1,353	.12280
08	243	231	840	798	.11390
09	420	553	1535	2,023	.15790
10	430	921	1520	3,255	.25660
11	450	973	1095	2,369	.25920
12	500	1,530	970	2,968	.36670
13	390	1,293	805	2,739	.40770
14	480	1,389	1345	3,892	.34680
15	430	404	1200	1,127	.11250
16	360	3,501	1290	12,545	1.16530
17	405	3,959	1455	14,224	1.17150
18	235	212	905	818	.10830
19	480	569	1125	1,333	.14260
20	430	506	1140	1,341	.14100
21	480	642	307	411	.16030
22	298	361	835	1,010	.15040
23	323	409	1220	1,545	.15180
24	313	407	1260	1,640	.15600
25	408	690	1185	2,004	.20270
26	260	394	1040	1,578	.18180
27	338	463	1120	1,536	.16430
28		0		0	.00000
29		0		0	.05420
30	333	282	1225	1,038	.10150
31	480	488	1145	1,165	.12190
TOT	11729	35,777	32567	97,865	10.74480
AVERAGE DAY THIS MONTH	390	1,193	1085	3,262	.35816

PLANT- ST. REGIS-FOUNTAIN WACO 06

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW	
01	255	1,369	1225	6,574	.64310	
02	238	1,140	345	1,661	.57710	
03	218	978	462	2,073	.53780	
04	323	1,626	935	4,708	.60340	
05	370	2,352	1255	7,979	.76190	
06	348	1,571	1160	5,235	.54080	
07		0		0	.00000	* down
08	323	953	1175	3,466	.35350	
09	360	2,109	845	4,951	.70210	
10	460	3,530	1245	9,555	.91970	
11	370	2,004	855	4,630	.64890	
12	308	943	835	2,557	.36690	
13	338	1,945	1105	6,359	.68960	
14	400	2,436	1825	11,115	.72980	
15	328	1,166	825	2,933	.42600	
16	350	1,557	850	3,781	.53300	
17	210	817	744	2,893	.46600	
18	265	1,013	1125	4,303	.45830	
19	308	1,419	1315	6,060	.55220	
20	360	3,577	1095	10,879	1.19050	
21	365	4,238	980	11,380	1.39150	
22	450	4,482	1525	15,190	1.19360	
23	380	3,618	715	6,807	1.14090	
24	395	4,152	725	7,620	1.25950	
25	395	4,237	1860	19,953	1.28550	
26	470	2,440	2130	11,056	.62200	
27	450	4,540	1305	13,167	1.20910	
28	340	2,472	1210	8,796	.87110	
29		0		0	.00000	* composite 4/29 + 4/30
30	*360	*5,913	*1820	*29,893	*1.96820	
TOT	9737	68,603	31491	225,574	22.64200	
AVERAGE DAY THIS MONTH						
	347	2,450	1124	8,056	.80864	

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	170	3,550	84	1,754	2.50210
02	210	4,265	88	1,787	2.43390
03	180	3,543	96	1,890	2.35860
04	190	3,725	102	2,000	2.34950
05	240	4,840	288	5,808	2.41650
06	213	4,449	122	2,548	2.50290
07	230	5,023	110	2,402	2.61690
08	255	5,547	164	3,567	2.60060
09	210	4,656	102	2,262	2.65710
10	248	5,684	274	6,279	2.74630
11	215	4,709	374	8,192	2.62480
12	215	4,910	206	4,705	2.73680
13	238	5,164	270	5,858	2.59990
14	265	5,641	114	2,427	2.55080
15	253	5,320	286	6,013	2.51960
16	198	4,046	268	5,477	2.44880
17	170	3,455	78	1,585	2.43530
18	160	3,533	244	5,388	2.64620
19	175	3,997	388	8,862	2.73690
20	230	5,207	208	4,709	2.71290
21	190	4,409	204	4,734	2.78080
22	250	6,025	306	7,374	2.88790
23	275	6,114	342	7,603	2.66410
24	258	5,677	380	8,362	2.63690
25	270	6,167	204	4,660	2.73720
26	225	5,806	192	4,954	3.09220
27	188	1,036	550	3,031	.66030
28	155	2,327	122	1,832	1.79930
29		0		0	.00000
30	*280	*12,286	*134	*5,880	*5.25820
TOT	6356	141,111	6300	131,943	75.71930
AVERAGE DAY	THIS MONTH				
	219	4,866	217	4,550	2.61101

* composite of 4/29 + 4/30

PLANT- ST. REGIS-ANGELL A2

DAY	---BOD--- MG/L	LBS.	---SS--- MG/L	LBS.	FLOW
01	100	310	505	1,563	.371CC
02	70	0	300	1	.CCC40
03	85	29	720	248	.0412C
04	257	146	327	186	.0681C
05	257	308	327	392	.1437C
06	257	304	327	387	.1419C
07	257	193	327	246	.0902C
08	257	0	327	0	.CCC1C
09	257	235	327	300	.1098C
10	257	3,003	327	3,821	1.4004C
11	257	3,261	327	4,149	1.5205C
12	257	2,309	327	2,938	1.0767C
13	257	1,956	327	2,489	.9122C
14	257	1,818	327	2,313	.8476C
15	257	1,860	327	2,367	.8675C
16	257	2,307	327	2,936	1.0759C
17	257	2,545	327	3,239	1.1868C
18	257	1,920	327	2,443	.8952C
19	257	2,051	327	2,610	.9565C
20	420	4,033	476	4,571	1.1508C
21	420	3,459	476	3,920	.9869C
22	420	3,987	476	4,518	1.1375C
23	540	5,374	1690	16,818	1.1925C
24	35	8	165	36	.0261C
25	35	8	165	36	.0261C
26	35	317	165	1,493	1.0840C
27	45	364	146	1,181	.9695C
28	35	21	240	146	.0731C
29	25	14	108	62	.0686C
30	35	0	165	0	.CCCC1
31	35	0	165	0	.CCCC1
	6,447	42,140	11154	65,409	18.4203Z
AVERAGE DAY THIS MONTH					
	207	1,359	361	2,110	.5942C

PLANT- ST. REGIS-ANGELL A2

DAY	BOD MG/L	BOD LBS.	SS MG/L	SS LBS.	FLOW
01	215	[illegible],764	[illegible]	5,25[illegible]	.98340
02	260	[illegible]	700	7,595	1.30020
03	300	[illegible],687	406	4,185	1.07340
04	383	[illegible]	172	[illegible],055	1.15300
05	313	[illegible],40[illegible]	[illegible]	1,[illegible]2	.9917
06	295	[illegible]	[illegible]32	[illegible],[illegible]67	.96900
07	550	[illegible],707	[illegible]	30,743	1.25650
08	303	[illegible],347	916	[illegible],[illegible]9	1.32380
09	295	[illegible],65[illegible]	3[illegible]3	2,9[illegible]4	1.07730
10	295	4,[illegible]	3[illegible]3	4,[illegible]54	1.62865
11	[illegible]	4,[illegible]	3[illegible]3	4,[illegible]4	1.62865
12	295	[illegible],48[illegible]	[illegible]	[illegible],694	1.4[illegible]430
13	295	3,54[illegible]	[illegible]3	[illegible],764	1.441[illegible]
14	530	4,9[illegible]	[illegible]056	9,880	1.12120
15	540	4,806	384	12,316	1.06640
16	62[illegible]	7,543	[illegible]344	16,350	1.45780
17	323	4,692	550	8,426	1.74090
18	500	4,63[illegible]	[illegible]067	9,884	1.11000
19	530	5,16[illegible]	[illegible]992	19,40[illegible]	1.16710
20	580	4,[illegible]09	2896	21,514	.89020
21	550	5,519	[illegible]690	26,994	1.20250
22	[illegible]95	[illegible]67[illegible]	2[illegible]5	489	.27270
23	2[illegible]8	[illegible],[illegible]84	[illegible]8	[illegible],759	1.14790
24	365	[illegible],896	244	[illegible],936	.95[illegible]80
25	29[illegible]	[illegible],7[illegible]	[illegible]	[illegible],[illegible]33	1.10490
26	[illegible]50	[illegible],[illegible]70	304	[illegible],566	1.01150
27	[illegible]38	[illegible],[illegible]67	424	[illegible],995	.84640
28	330	[illegible],96[illegible]	440	3,946	1.07470
29	44[illegible]	4,[illegible]	[illegible]04	[illegible],[illegible]47	1.1476
30	3[illegible]	3,[illegible]57	776	9,5[illegible]2	[illegible].46740
31	0	0	0	0	.00000
	[illegible],[illegible]19	[illegible]8,[illegible]08	24[illegible]37	241,046	35,0110[illegible]
AVERAGE DAY THIS MONTH					
	370	5,6[illegible]	8[illegible]	8,355	[illegible].6713

WSM200

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

St. Regis Angell

PLANT-~~FOUNTAIN DEPT~~

PAGE 1
DATE 11/19/84
TIME 15.03.12

DAY	BOD MG/L	BOD LBS.	SS MG/L	SS LBS.	FLOW
01	323	3,439	1890	20,120	1.27570
02	258	2,813	920	10,032	1.30670
03	263	3,241	496	6,113	1.47680
04	260	3,150	472	5,719	1.45200
05	295	2,997	404	4,105	1.21760
06	275	2,610	344	3,264	1.13710
07	365	3,638	272	2,711	1.19450
08	235	2,420	232	2,389	1.23420
09	280	2,703	188	1,815	1.15700
10	340	3,536	352	3,661	1.24640
11	353	3,179	140	1,261	1.07910
12	420	3,502	188	1,568	.99930
13	310	2,676	280	2,419	1.03510
14	300	2,377	296	2,345	.94940
15	283	2,945	400	4,163	1.24710
16	308	2,836	630	5,801	1.10350
17	265	2,458	140	1,298	1.11140
18	293	2,500	356	3,038	1.02260
19	313	2,566	444	3,640	.98240
20	328	2,832	352	3,039	1.03460
21	373	2,868	128	984	.92130
22	450	3,837	168	1,433	1.02190
23	293	2,705	468	4,321	1.10640
24	410	3,967	688	6,657	1.1595
25	390	4,214	1012	10,936	1.29490
26	243	2,541	332	3,472	1.25310
27	268	3,056	320	3,649	1.36630
28	240	2,187	140	1,276	1.09200
29	193	1,938	240	2,410	1.20320
30	225	2,194	216	2,106	1.16840
31	273	2,992	288	3,156	1.31330
	9,425	90,919	12796	128,901	36.16280
AVERAGE DAY THIS MONTH					
	304	2,933	412	4,158	1.16654

WSM2JJ

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

DATE 10/18/84
TIME 11.27.03

PLANT- ST. REGIS-ANGELL A2

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	208	788	848	3,214	.4542J
02	95	6	176	11	.00730
03	60	152	320	809	.30310
04	215	2,478	940	10,835	1.38120
05	180	2,385	828	10,970	1.58760
06	258	3,806	1288	19,002	1.76790
07	313	3,939	496	6,242	1.50800
08	255	2,995	412	4,839	1.40750
09	338	3,993	500	5,907	1.41580
10	263	3,148	220	2,634	1.43450
11	338	4,076	584	7,043	1.44510
12	275	3,611	372	4,885	1.57370
13	640	8,636	692	9,338	1.61700
14	395	4,941	760	9,506	1.45890
15	330	3,877	268	3,148	1.40770
16	293	3,607	208	2,561	1.47540
17	253	2,862	396	4,479	1.35550
18	313	3,897	552	6,873	1.49200
19	280	3,694	484	6,386	1.58110
20	360	4,073	1452	16,427	1.35570
21	313	3,465	464	5,137	1.32660
22	313	3,396	400	4,340	1.30030
23	300	3,119	264	2,657	1.20600
24	288	3,096	296	3,182	1.28810
25	240	2,762	600	6,905	1.37910
26	185	2,267	328	4,019	1.46840
27	333	4,028	496	6,000	1.44960
28	300	3,671	652	7,979	1.46650
29	355	4,636	870	11,361	1.56480
30	410	4,518	1960	21,600	1.32060
31	0	0	0	0	.00000
	8,699	101,822	18126	208,289	39.83920
AVERAGE DAY THIS MONTH	289	3,394	604	6,943	1.32797

DATE 9/13/84
TIME 14.19.15

PLANT- ST. REGIS-ANGELL A2

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	323	3,590	864	9,602	1.33180
02	340	2,901	416	3,550	1.02250
03	320	2,716	676	5,729	1.01550
04	588	4,781	1064	8,770	.98770
05	520	3,861	1845	13,700	.88580
06	490	3,568	800	5,825	.87260
07	385	2,367	956	5,877	.73670
08	363	2,446	1084	7,303	.80730
09	440	3,293	1432	10,717	.89680
10	540	4,567	1352	11,435	1.01350
11	580	5,802	2950	29,509	1.19870
12	510	4,964	850	8,274	1.16640
13	398	3,630	1172	10,690	1.09300
14	343	3,420	944	9,414	1.19500
15	320	2,937	624	5,727	1.09980
16	370	3,405	840	7,730	1.10280
17	315	3,177	852	8,594	1.20870
18	290	2,857	1344	13,242	1.18070
19	405	3,624	992	8,878	1.07240
20	320	2,615	412	3,367	.97940
21	260	4,059	1040	16,235	1.87060
22	233	2,56_	1032	11,344	1.31720
23	220	2,189	504	5,014	1.19220
24	330	3,052	1028	9,506	1.10810
25	360	3,498	1468	14,264	1.16440
26	335	3,191	900	8,572	1.14140
27	315	3,116	740	7,319	1.18520
28	308	3,215	592	6,180	1.25090
29	485	5,344	780	8,595	1.32040
30	203	2,140	1044	11,008	1.26355
31	530	5,588	1360	14,340	1.26355
	11,731	108,470	31957	300,310	34.94860
AVERAGE DAY THIS MONTH	378	3,499	1030	9,687	1.12737

RECEIVED
SEP 17 1984
WASTEWATER TREATMENT PLANT

WSM200

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 2
DATE 7/12/84
TIME 9:04:47

PLANT- ST. REGIS-ANGELL 42

DAY	--- 100 --- MG/L	LBS.	--- SS --- MG/L	LBS.	FLOW
01	410	4,147	214	1,9[illegible]	1.12790
02	380	3,864	192	1,952	1.21160
03	303	3,080	353	4,521	1.53460
04	285	3,09[illegible]	312	3,383	1.29550
05	355	5,[illegible]21	1040	16,175	1.86370
06	155	1,739	864	9,694	1.34450
07	215	3,[illegible]9	704	9,092	1.42610
08	283	3,[illegible]94	852	9,615	1.5[illegible]230
09	263	2,477	1[illegible]8	1,206	1.12[illegible]
10	398	3,67[illegible]	320	2,955	1.1664
11	313	3,365	624	[illegible],709	1.28840
12	480	6,678	1288	2[illegible],093	2.16640
13	425	5,2[illegible]3	1028	12,719	1.48260
14	590	8,46[illegible]	952	13,658	1.71920
15	340	4,615	504	6,896	1.41500
16	155	1,646	302	4,163	1.2726
17	210	3,874	609	11,235	2.21[illegible]
18	205	[illegible],318	540	6,106	1.35500
19	355	[illegible],745	[illegible]	9,063	1.93970
20	540	5,221	324	3,133	1.1[illegible]670
21	[illegible]	[illegible],346	868	8,924	1.23200
22	6[illegible]0	5,890	1320	12,342	1.12040
23	350	3,726	260	2,768	1.27580
24	330	3,509	288	3,062	1.27420
25	263	3,557	240	3,016	1.56600
26	400	3,652	460	4,200	1.09400
27	630	6,198	1070	10,527	1.17890
28	490	4,757	1128	10,950	1.16330
29	410	4,36[illegible]	896	8,875	1.18690
30	540	5,97[illegible]	2105	23,275	1.32500
31	0	0	0	0	.00000
	11,263	129,299	20665	247,227	41.76670
AVERAGE DAY THIS MONTH					
	375	4,310	688	8,241	1.39222

PLANT- ST. REGIS-ANGELL A2

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	400	5,602	332	4,650	1.67840
02	450	7,295	544	8,819	1.94270
03	365	4,492	672	8,271	1.47490
04	520	5,732	2420	26,675	1.32090
05	310	2,944	120	1,140	1.13810
06	358	2,801	124	970	.93750
07	450	3,689	120	984	.98230
08	420	3,400	396	3,206	.97010
09	413	3,730	820	7,407	1.08240
10	480	3,883	632	5,112	.96930
11	480	5,122	748	7,981	1.27860
12	270	2,218	184	1,512	.98440
13	238	2,118	347	3,088	1.06630
14	400	3,329	276	2,280	.99000
15	322	3,194	456	4,523	1.18850
16	377	3,707	289	2,842	1.17840
17	288	2,882	204	2,041	1.19920
18	345	3,610	324	3,391	1.25400
19	290	2,440	204	1,717	1.00840
20	270	4,546	204	3,435	2.01750
21	335	5,592	1236	20,633	2.00040
22	260	3,516	592	8,005	1.62030
23	370	4,394	600	7,125	1.42310
24	303	3,269	520	5,610	1.29270
25	388	4,126	320	3,403	1.27440
26	355	3,663	612	6,315	1.23660
27	233	2,624	372	4,189	1.34930
28	440	4,120	884	8,277	1.12200
29	325	3,821	568	6,678	1.40890
30	370	3,677	344	3,418	1.19080
31	408	4,623	216	2,448	1.35790
	11,236	120,159	15680	176,145	39.93830
AVERAGE DAY THIS MONTH					
	362	3,876	505	5,682	1.28833

PLANT- ST. REGIS-ANGELL A2

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	460	4,560	680	6,740	1.18780
02	400	3,965	1830	18,139	1.18780
03	410	4,064	1364	13,520	1.18780
04	550	5,452	727	7,206	1.18780
05	394	3,905	727	7,206	1.18780
06	394	3,905	727	7,206	1.18780
07	450	4,460	712	7,057	1.18780
08	348	3,449	879	8,713	1.18780
09	402	3,985	879	8,713	1.18780
10	368	3,648	36	357	1.18780
11	550	5,452	244	2,419	1.18780
12	510	5,055	956	9,476	1.18780
13	520	5,154	288	2,855	1.18780
14	490	4,857	528	5,234	1.18780
15	560	5,551	804	7,969	1.18780
16	500	4,956	188	1,863	1.18780
17	540	5,353	1090	10,804	1.18780
18	630	6,246	540	5,353	1.18780
19	590	5,848	356	3,529	1.18780
20	640	6,344	680	6,740	1.18780
21	70	694	168	1,665	1.18780
22	55	545	176	1,745	1.18780
23	255	2,528	304	3,013	1.18780
24	285	2,825	472	4,679	1.18780
25	398	3,945	296	2,934	1.18780
26	303	3,003	155	1,536	1.18780
27	410	4,076	164	1,630	1.19130
28	345	2,854	200	1,654	.99120
29	450	4,012	184	1,641	1.06850
30	490	5,365	228	2,496	1.31210
31	0	0	0	0	.00000
	12,767	126,055	16782	166,075	35.44590
AVERAGE DAY		THIS MONTH			
	425	4,202	559	5,536	1.18153

PLANT- ST. LOUIS-ANGELL AC

	---BOD---		---SS---		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	361	3,7	4 4	4,976	1.2320
02	4 3	4,0	3 4	4,036	1.2593
03	513	5,6	3 3	1 ,977	1.3289
04	471	5,6	1 35	3,168	1.4416
05	4	2,36	M	1,559	1.6663
06	201	3, 0	316	3,962	1.3024
07	661	7,244	1 2	11,283	1.3152
08	601	5,446	394	3,486	1.3877
09	495	5,41	314	4,6	1.3561
10	49	5,3	5	6,712	1.3164
11	3	4,64	2	5, 7	1.1835
12	2	4,4	635	6,203	1.1856
13	378	3,91	1 8	1,32	1.2401
14	378	4,03	1 79	1 ,459	1.2678
15	541	6,357	732	8,485	1.2838
16	3 5	3,31	2 3	3,1 3	1.2975
17	4	4,727	913	1,56	1.3985
18	41	4,7	5	6,75	1.4124
19	321	3,76	272	3,276	1.4434
20	631	4,79	463	5, 3	1.7243
21	405	4,3 7	773	8,769	1.3542
22	437	4,93	514	6,633	1.3542
23	398	4,4	37	4,345	1.3282
24	378	4,344	4	5, 72	1.3454
25	373	3,75	73	7,733	1.1914
26	343	4, 3	7	7,544	1.2556
27	353	3,41	735	7, 97	1.1571
28	481	4,837	1 3	1, 45	1.1576
29	2	2,6	1	,4	1.2599
30	421	4,77	69	7, 6	1.3615
31	251	2,75	332	1 ,264	1.3197
	13,12	144,27	1,14	12 ,338	41.041
AV	4	'Y THIS MONTH			
	42	4,6	659	7,430	1.3239

PLANT- ST. REGIS-ANGELL A2

DAY	BOD MG/L	BOD LBS.	SS MG/L	SS LBS.	FLOW
01	1	0	1	0	.05500
02	1	0	1	0	.05500
03	153	1,200	263	2,080	.95850
04	590	4,719	424	3,391	.95850
05	550	4,399	216	1,728	.95850
06	570	4,559	556	4,447	.95850
07	500	3,999	680	5,439	.95850
08	395	3,159	232	1,856	.95850
09	450	3,599	1050	8,399	.95850
10	458	3,663	488	3,903	.95850
11	440	3,519	445	3,559	.95850
12	500	3,999	644	5,151	.95850
13	333	2,664	180	1,440	.95850
14	390	3,119	232	1,856	.95850
15	470	3,759	655	5,239	.95850
16	540	4,319	1135	9,079	.95850
17	353	3,079	184	1,605	1.04510
18	500	4,509	612	5,519	1.08070
19	373	3,473	1088	10,129	1.11560
20	430	4,305	404	4,045	1.15980
21	378	3,477	376	3,459	1.10240
22	470	3,978	250	2,063	.98870
23	730	6,649	2095	19,082	1.09150
24	730	6,649	2095	19,082	1.09150
25	480	4,189	955	8,334	1.04580
26	520	4,538	712	6,214	1.04580
27	500	4,364	156	1,361	1.04580
28	500	4,364	687	5,996	1.04580
29	500	4,364	687	5,996	1.04580
30	500	4,364	687	5,996	1.04580
31	500	4,364	687	5,996	1.04580
	13,802	117,242	18874	162,444	29.56490
AVERAGE DAY THIS MONTH					
	445	3,782	608	5,240	.95371

PLANT- ST. REGIS-ANGELL A2

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	370	2,912	184	1,448	.94310
02	550	4,184	644	4,900	.91170
03	790	6,121	2640	20,456	.92850
04	50	398	60	478	.95400
05	440	3,903	116	1,029	1.06300
06	288	2,627	276	2,517	1.09300
07	387	2,771	373	2,671	.85810
08	420	3,049	44	319	.86980
09	460	3,339	128	929	.86980
10	300	2,770	72	525	.87340
11	480	3,507	108	789	.87550
12	95	884	315	2,933	1.11570
13	368	3,366	864	7,902	1.09600
14	490	3,493	576	4,106	.85420
15	368	3,044	140	1,158	.99120
16	520	3,664	1136	8,004	.84430
17	390	3,429	220	1,934	1.05370
18	300	2,377	412	3,265	.94955
19	340	2,694	310	2,456	.94955
20	388	3,075	275	2,179	.94955
21	363	2,876	204	1,616	.94955
22	295	3,131	448	4,603	1.23120
23	570	5,961	1796	18,782	1.25320
24	1	2	1	2	.27260
25	1	2	1	2	.27260
26	1	2	1	2	.18900
27	1	2	1	2	.19150
28	1	2	1	2	.22080
29	1	2	1	2	.24640
30	1	2	1	2	.20210
31	1	2	1	2	.20220
	9,110	73,491	11349	95,015	24.27480
AVERAGE DAY THIS MONTH	293	2,371	366	3,065	.78316

PLANT- ST. REGIS-ANGELL A2

DAY	---BOD--- MG/L	LBS.	---SS--- MG/L	LBS.	FLOW
01	348	3,896	905	10,131	1.34140
02	258	2,289	560	4,969	1.06230
03	295	3,082	1180	12,327	1.25180
04	530	4,096	228	1,762	.92610
05	400	3,267	990	8,085	.97860
06	322	2,440	648	4,910	.90800
07	260	2,374	972	8,863	1.09270
08	358	3,243	692	6,269	1.08560
09	590	5,237	1084	9,622	1.06370
10	505	4,863	860	8,281	1.15390
11	430	4,153	928	8,955	1.15640
12	355	3,812	1270	13,637	1.28670
13	200	1,695	308	2,610	1.01530
14	410	3,445	580	4,873	1.00690
15	380	3,021	780	6,201	.95270
16	440	4,004	455	4,141	1.09050
17	500	4,066	740	6,017	.97440
18	620	4,887	596	4,698	.94460
19	550	4,244	855	6,597	.92460
20	530	4,262	712	5,726	.96270
21	433	3,878	468	4,191	1.07310
22	480	3,582	232	1,731	.89420
23	960	4,563	2052	16,722	.97650
24	40	2	38	2	.00520
25	1	0	1	0	.00080
26	1	0	1	0	.00190
27	1	1	1	1	.12440
28	283	2,528	708	6,325	1.07050
29	500	4,197	1350	11,331	1.00580
30	393	3,057	310	2,411	.93210
31	0	0	0	0	.00000
	10,973	94,176	20504	181,388	27.26540
AVERAGE DAY THIS MONTH					
	365	3,139	683	6,046	.90885

PLANT- ST. REGIS-ANCELL A2

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	395	5,915	3592	53,788	1.79440
02	40	15	96	36	.04550
03	270	3,604	625	8,342	1.55950
04	368	4,871	420	5,559	1.58600
05	445	6,246	785	11,018	1.68200
06	375	5,608	964	14,467	1.79840
07	335	4,187	316	3,949	1.49760
08	408	4,923	1368	16,165	1.32840
09	243	2,797	128	1,473	1.37910
10	285	3,429	1004	12,078	1.44160
11	316	4,776	836	12,635	1.81110
12	316	4,539	836	12,009	1.72130
13	346	3,568	836	9,440	1.35310
14	265	3,221	676	8,218	1.45670
15	473	804	1072	3,155	.35270
16	45	28	152	94	.07380
17	305	2,967	996	9,689	1.16570
18	295	3,026	460	4,719	1.22930
19	284	2,894	723	7,361	1.22010
20	343	3,329	416	4,038	1.16320
21	288	2,931	152	1,336	1.05520
22	303	2,742	530	4,797	1.08450
23	325	3,340	192	1,973	1.23140
24	283	3,001	956	10,137	1.27060
25	368	3,742	400	4,067	1.21840
26	428	4,437	948	9,829	1.24240
27	275	2,532	484	4,457	1.10340
28	270	2,521	540	5,042	1.11880
29	313	3,348	780	8,343	1.28180
30	317	3,148	571	5,670	1.19000
31	373	3,805	1460	14,892	1.22230
	9,465	105,524	23,314	267,776	38.71620
AVERAGE DAY THIS MONTH	305	3,404	752	8,638	1.24891

PLANT- ST. REGIS-ANCELL A2

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	288	4,551	288	4,551	1.89340
02	230	3,[illegible]0	2070	29,852	1.[illegible]9[illegible]0
03	20	7[illegible]	44	157	.42630
04	70	27	244	93	.04550
05	110	136	168	208	.14860
06	233	3,100	864	11,494	1.59420
07	260	4,646	970	17,334	2.14140
08	205	3,228	1084	17,068	1.88680
09	225	3,317	60	885	1.76680
10	250	3,571	140	2,000	1.71190
11	400	4,9[illegible]0	620	7,610	1.47080
12	283	3,627	1640	21,019	1.53580
13	215	2,994	360	5,013	1.66660
14	265	3,473	168	2,202	1.57050
15	40[illegible]	5,339	316	4,165	1.57960
16	278	4,326	568	8,840	1.86490
17	293	4,267	780	11,360	1.74530
18	253	3,460	200	2,735	1.63880
19	230	3,887	292[illegible]	4,935	2.02530
20	345	4,977	620	8,944	1.72860
21	270	3,771	260	3,246	1.49610
22	560	6,860	836	10,241	1.46600
23	275	3,557	852	11,023	1.55000
24	345	2,852	2168	17,920	.99050
25	65	434	298	1,991	.80070
26	218	2,517	512	5,910	1.38030
27	275	3,382	388	4,772	1.47370
28	300	4,419	648	9,544	1.76500
29	255	3,440	248	3,345	1.61650
30	375	4,055	484	5,234	1.29580
31		0		0	.00000
TO	8096	104,702	18780	233,488	43.61850
AVERAGE DAY THIS MONTH					
	269	3,490	626	7,783	1.45395

PLANT- ST. REGIS-ANGELL A2

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	340	4,250	772	9,650	1.49790
02	313	4,009	812	10,401	1.53490
03	590	8,158	1176	16,261	1.65700
04	288	3,832	385	5,122	1.59430
05	288	3,482	385	4,654	1.44870
06	248	3,069	100	1,237	1.48280
07	410	5,139	435	5,452	1.50200
08	233	2,439	284	3,562	1.51130
09	293	4,532	545	8,429	1.85340
10	210	3,356	476	7,606	1.91490
11	240	3,054	544	6,923	1.52500
12	328	3,835	264	3,089	1.40220
13	253	3,166	128	1,602	1.49540
14	210	2,768	180	2,373	1.57950
15	348	4,619	1472	19,537	1.59050
16	240	3,224	348	4,674	1.60960
17	265	3,274	644	7,956	1.48040
18	263	2,945	404	4,523	1.34170
19	380	4,507	904	10,722	1.42130
20	325	3,974	112	1,369	1.46510
21	280	3,12_	502	5,596	1.33570
22	253	3,510	705	9,223	1.56770
23	290	4,267	435	6,400	1.76310
24	310	4,899	305	4,820	1.89390
25	315	4,125	692	9,061	1.56910
26	305	4,324	424	6,012	1.69900
27	250	3,607	175	2,525	1.72900
28	220	2,862	248	3,226	1.55880
29	263	3,135	436	5,196	1.42820
30	218	2,635	400	4,836	1.44870
31	268	3,502	312	4,077	1.56580
TO	9037	117,922	5004	196,134	48.47090
AVERAGE DAY THIS MONTH					
	291	3,804	484	6,327	1.56358

PLANT- ST. REGIS-ANGELL A2

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	225	1,690	1780	13,370	.90010
02	279	2,096	984	7,391	.90010
03	279	106	936	355	.04550
04	279	346	276	342	.14860
05	23_	2,258	360	3,489	1.16140
06	274	3,468	460	5,822	1.51670
07	274	2,999	460	5,035	1.31160
08	274	3,550	460	5,960	1.55270
09	274	3,384	460	5,681	1.48000
10	245	3,102	180	2,279	1.51700
11	250	3,171	530	6,723	1.52010
12	210	2,915	200	2,777	1.66360
13	295	4,523	1460	22,384	1.83720
14	223	2,942	424	5,594	1.58100
15	265	3,436	416	5,393	1.55360
16	208	2,434	116	1,357	1.40220
17	300	3,418	180	2,051	1.36520
18	213	2,612	212	2,600	1.46970
19	305	3,624	236	2,804	1.42390
20	275	3,319	280	3,379	1.44630
21	323	4,082	388	4,903	1.51440
22	305	3,579	340	3,990	1.40630
23	248	2,856	184	2,119	1.38010
24	350	3,949	888	10,020	1.35220
25	273	3,678	595	8,016	1.61450
26	274	4,743	530	9,174	2.07420
27	288	3,386	315	3,704	1.40900
28	335	6,636	468	9,271	2.37380
29	460	3,471	1612	12,165	.90430
30	265	3,547	116	1,553	1.60390
31	293	3,589	485	5,940	1.46770
TO	8594	98,909	16331	175,641	42.89690
AVERAGE DAY THIS MONTH	277	3,191	526	5,666	1.38377

PLANT- ST. REGIS-ANGELL A2

	---BOD---		-----SS-----		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	230	2,402	780	8,145	1.25130
02	203	2,586	1320	16,815	1.52650
03	198	2,354	148	1,760	1.42490
04	385	4,650	2344	28,308	1.44720
05	228	3,345	120	1,761	1.75830
06	260	3,334	1240	15,900	1.53660
07	265	3,631	500	6,851	1.64190
08	258	4,375	788	13,361	2.03190
09	180	2,622	376	5,476	1.74530
10	283	4,484	1116	17,681	1.89850
11	305	488	75	120	.19180
12	15	24	68	107	.18860
13	280	2,770	212	2,097	1.18530
14	228	2,839	220	2,740	1.49220
15	185	2,526	412	5,626	1.63640
16	388	5,443	668	9,372	1.68120
17	255	3,388	116	1,541	1.59230
18	225	3,247	64	924	1.72940
19	213	2,803	116	1,526	1.57680
20	185	2,402	160	2,078	1.55610
21	238	2,795	164	1,926	1.40720
22	395	4,951	280	3,510	1.50200
23	298	3,669	108	1,330	1.47520
24	210	3,246	392	6,060	1.85240
25	290	4,586	544	8,602	1.89480
26	275	4,335	776	12,232	1.88890
27	288	4,275	1395	20,705	1.77860
28	325	4,046	1070	13,320	1.49170
29	400	4,688	705	8,262	1.40440
30	223	2,765	164	2,033	1.48570
31		0		0	.00000
TO	7711	99,069	16441	220,169	45.27340
AVERAGE DAY THIS MONTH					
	257	3,302	548	7,339	1.50911

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PLANT- ST. REGIS-ANGELL A2

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	30	57	100	192	.22960
02	243	3,114	392	5,023	1.53540
03	328	3,681	140	1,571	1.34490
04	323	3,658	372	4,213	1.35700
05	288	3,134	265	2,883	1.30390
06	323	3,503	212	2,299	1.29970
07	265	3,127	252	2,974	1.41400
08	255	2,883	252	3,062	1.45600
09	200	2,133	124	1,322	1.27800
10	370	4,283	248	2,803	1.35460
11	375	3,836	256	2,619	1.22590
12	303	3,478	540	6,198	1.37550
13	165	2,261	132	1,009	.91600
14	312	3,510	430	4,837	1.34800
15	258	2,799	276	2,994	1.30000
16	270	3,159	720	8,424	1.40200
17	240	3,444	276	3,960	1.71940
18	268	3,006	292	3,275	1.34400
19	275	3,067	286	3,190	1.33650
20	272	3,210	152	1,738	1.37010
21	302	3,639	273	3,289	1.44390
22	260	3,305	144	1,830	1.52310
23	165	2,363	116	1,661	1.71600
24	185	2,606	124	1,747	1.68830
25	262	3,534	243	3,278	1.61630
26	293	4,140	404	5,709	1.69330
27	540	7,214	2476	33,078	1.60090
28	25	29	260	299	.13760
29	20	6	31	9	.03620
30	200	1,335	53	354	.80000
31	285	2,120	284	3,255	1.37330
TC	7700	89,434	10125	119,095	39.53940
AVERAGE DAY THIS MONTH	248	2,885	326	3,842	1.27546

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 2
DATE 5/19/83
TIME 11.27.17

PLANT- ST. REGIS-ANGELL AZ

	--- CD ---		------SS------		FLOW
	/L	LBS.	MG/L	LBS.	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.21[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	.198[illegible]
	251	[illegible]	632	[illegible]	.1982[illegible]
[illegible]	3[illegible]	[illegible]	650	8,255	1.57720
[illegible]	235	[illegible]	[illegible]	13,999	1.15850
[illegible]		[illegible]	[illegible]	2,39[illegible]	1.46230
[illegible]	[illegible]	[illegible]	319	[illegible]	1.40530
	[illegible]	[illegible]	[illegible]	1,77[illegible]	1.36350
	[illegible]	[illegible]	[illegible]	1,980	1.56090
[illegible]	[illegible]	[illegible]	[illegible]	4,[illegible]	1.5244[illegible]
[illegible]	390	[illegible]	[illegible]	[illegible],436	1.65510
[illegible]	[illegible]	[illegible]	[illegible]	1,16[illegible]	1.78800
[illegible]	[illegible]	[illegible]	[illegible]	4,37[illegible]	1.39350
[illegible]	313	[illegible]	[illegible]	6,3[illegible]	1.37370
[illegible]	3[illegible]	[illegible]	[illegible]	3,744	1.3[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	1,1[illegible]	1.3704[illegible]
17	240	2,834	216	2,55[illegible]	1.41480
[illegible]	[illegible]	[illegible]	[illegible]	2,4[illegible]	1.3118
19	[illegible]	[illegible]	[illegible]	[illegible]	1.3[illegible]39[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.55370
[illegible]	[illegible]	[illegible]	[illegible]	3,591	1.53670
[illegible]	[illegible]	[illegible]	[illegible]	3,23[illegible]	1.5613
23	[illegible]	[illegible]	[illegible]	[illegible],570	1.74980
24	[illegible]	[illegible]	[illegible]	[illegible],404	1.71050
2[illegible]	34[illegible]	[illegible]	[illegible]	9,93[illegible]	1.75010
[illegible]	[illegible]	[illegible]	364	3,83[illegible]	[illegible].2639
27	[illegible]	[illegible]	[illegible]	[illegible],566	1.39750
[illegible]	[illegible]	[illegible]	[illegible]	1,677	1.43560
[illegible]	[illegible]	7,8[illegible]	2348	31,789	1.62240
[illegible]	[illegible]	[illegible]	[illegible]	11[illegible]	.1[illegible]
3[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.0[illegible]
T[illegible]	[illegible]	[illegible],424	[illegible]874	198,[illegible]49	39.37560
[illegible]	DAY THIS MONTH				
	[illegible]	[illegible]	562	6,61[illegible]	1.31252

CITY OF BATTLE CREEK

FINAL EFFLUENT SHEET

PAGE 4

DATE 4/15/93

TIME 12.39.09

FL [illegible] . S[illegible] , LL

					FLOW
	/L	L .	S/L	L S.	
		,		, 39	1. (739
		,		,75	.4463
		,		,98	.3347
	7	,		,3?	1.4393
	3	,		3,071	1.73 41
		,		,31	.3387
		,	3?	, 79	[illegible]
		,		,	[illegible]
		,	5	,749	1. [illegible]
	3	,		,81	1. 961
		,	941	,691	[illegible]
					[illegible]
					.
					. (3)
					[illegible]
					.3 9
				1	. 7911
					.3234
					[illegible]
					. 74
		,		,79	1. 71
		,78		,	[illegible]
	43	,		,7	1,4344
		,		,	1.474
		, 7		,	1,41921
		, 4		,3 4	[illegible]
		,		, 7	[illegible]
		,		,	[illegible]
		,7		, 47	1.7 7
		,		3,	1. [illegible]
		,		,	1. 44
		,		7,74	3 4
DAY [illegible]					
		,		,766	1. 9

PLANT- ST. REGIS-ANGELL A2

	---BOD---		-----SS-----		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	288	3,258	348	3,937	1.35580
02	323	4,445	1552	21,357	1.64900
03	245	2,821	640	7,368	1.37960
04	440	5,163	1520	17,834	1.40600
05	55	202	112	412	.44040
06	140	501	152	544	.42900
07	190	2,077	208	2,274	1.31020
08	265	2,727	315	3,241	1.23300
09	263	3,322	270	3,411	1.51380
10	268	3,235	172	2,076	1.44630
11	135	2,148	1564	24,888	1.90690
12	45	18	68	27	.04700
13	150	59	164	64	.04680
14	145	1,941	556	7,443	1.60420
15	175	2,975	560	9,521	2.03730
16	310	5,147	616	10,227	1.98950
17	238	3,926	88	1,452	1.97660
18	800	12,170	2292	34,866	1.82290
19	160	338	88	186	.25320
20	80	178	78	174	.26680
21	255	2,848	1276	14,252	1.33840
22	580	6,647	1620	18,567	1.37340
23	260	2,762	340	3,612	1.27320
24	300	3,413	1010	11,489	1.36310
25	540	9,990	2140	39,588	2.21680
26	65	52	198	157	.09510
27	35	47	88	118	.16030
28	300	3,349	240	2,679	1.33760
29		0		0	.00000
30		0		0	.00000
31		0		0	.00000
TO	7050	85,759	18275	241,764	33.27220
AVERAGE DAY THIS MONTH					
	251	3,063	652	8,634	1.18829

PLANT- ST. REGIS-ANGELL A2

DAY	---BOD--- MG/L	LBS.	---SS--- MG/L	LBS.	FLOW
01	1	5	1	3	.3771J
02	1	5	1	3	.3722J
03	2.8	9,64	780	9,273	1.4093J
04	230	2,950	894	11,465	1.5368J
05	381	4,463	1008	12,853	1.40910
06	380	4,514	1090	12,947	1.4234J
07	233	2,853	270	3,306	1.4675J
08	98	1,687	184	2,202	1.4344J
09	245	3,243	299	3,686	1.54980
10	341	4,266	612	7,498	1.4682J
11	305	2,902	580	5,519	1.1403J
12	313	4,647	976	12,948	1.5775J
13	491	5,854	1200	15,078	1.5[illegible]570
14	531	8,173	1640	25,294	1.8480J
15	55	163	56	172	.3681J
16	99	422	160	647	.4844J
17	463	6,476	336	4,546	1.6213J
18	435	5,528	1296	16,468	1.5277J
19	305	4,675	1916	24,356	1.5358J
20	1[illegible]0	3,[illegible]95	[illegible]	16,247	1.5958J
21	285	3,750	580	7,632	1.57680
22	335	4,345	438	6,330	1.5544J
23	330	4,330	540	7,086	1.5725J
24	248	3,624	436	6,148	1.7711J
25	440	5,954	760	9,640	1.5[illegible]990
26	[illegible]	[illegible]	260	3,441	1.5855J
27	208	4,073	204	2,788	1.6378J
28	5 8	3,605	2492	29,270	1.4027J
29	40	42	42	644	.3638J
30	40	11	80	247	.3319J
31	360	4,534	576	4,742	1.5110J
TOT	2,61	1[illegible],398	20922	261,374	40.4748J
AVG	4,2 DAY THIS MONTH				
	268	3,303	674	8,431	1.30564

PLANT- ST. REGIS-ANGELL A2

	---BOD------		-----SS------		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	370	4,931	325	4,332	1.59710
02	305	3,879	148	1,882	1.52360
03	430	6,959	2000	28,400	1.70160
04	70	13	199	34	.02140
05	15	59	256	1,015	.47500
06	223	2,922	496	6,498	1.57000
07	270	4,264	380	6,002	1.89260
08	338	5,645	950	15,878	2.00290
09	230	3,551	540	8,338	1.85020
10	305	5,645	50	925	2.21790
11	300	3,951	420	5,530	1.57790
12	275	3,793	420	4,724	1.34780
13	235	1,494	520	3,306	.76180
14	400	4,361	2130	23,223	1.30650
15	303	3,476	110	1,262	1.37460
16	220	2,610	276	3,275	1.42180
17	240	3,585	816	12,190	1.79020
18	268	3,935	700	10,278	1.75940
19	200	2,388	280	3,343	1.43090
20	263	3,487	740	9,811	1.58880
21	210	2,797	300	3,996	1.59610
22	260	4,396	800	13,495	2.02140
23	700	7,361	3732	39,244	1.26010
24	1	4	1	4	.47190
25	1	4	1	4	.47180
26	1	3	1	3	.38840
27	1	3	1	3	.38290
28	1	3	1	3	.37810
29	1	3	1	3	.37110
30	1	3	1	3	.36750
31	1	3	1	3	.36880
TO	6498	84,819	16585	207,007	37.29010
AVERAGE DAY THIS MONTH					
	209	2,736	535	6,678	1.20291

...T- ST, ...IS-ANCELL

		MG/L	LBS.	FLOW
		14	,139	1.00
			,1	1.16
			,63	1.
			,69	2.39
		14	,283	1.
			,49	1.49
		74	,9	1.41
			,5	1.4
			,7	1.4
			,646	1.4
			,1	2.03
			,77	1.05
			,2	1.015
			,065	1.02
	7		,551	.055
		45	,637	1.9549
	,166		,4	.041
		254	,23	.61
			,6	.11
			,551	.571
			,14	.17
		49	,490	.17
		8	,208	.176
			1	.176
			1	.1
				.063
				.077
				.4
			,8	.111
			,231	.414
				.000
		47		1.
DAY TOT				
			,05	1.2645

PLANT- ST. REGIS-ANGELL A2

DAY	---BOD--- MG/L	BOD LBS.	-----SS----- MG/L	SS LBS.	FLOW
1	1	0	1	0	.00001
2	1	0	1	0	.00001
3	1	1	1	1	.17110
4	293	3,718	332	4,089	1.47600
5	343	5,818	752	9,149	1.45790
6	690	8,333	816	10,303	1.51300
7	287	3,333	368	4,512	1.46910
8	305	4,376	404	4,960	1.47700
9	302	4,254	301	4,226	1.68800
10	361	4,396	690	8,426	1.46340
11	293	3,55	721	8,722	1.45170
12	490	6,961	1440	20,454	1.70210
13	626	8,766	752	25,176	1.72200
14	398	1,63	896	10,431	1.3950
15	290	3,522	2636	32,011	1.45520
16	178	354	3344	6,642	.23800
17	40	9	45	104	.27650
18	515	4,306	556	6,962	1.52400
19	365	4,333	456	5,420	1.42420
20	445	5,490	324	3,997	1.47830
21	383	4,543	631	8, 34	1.54710
22	430	6,268	1880	27,493	1.75240
23	35	134	300	1,152	.46010
24	1	3	1	3	.35740
25	1	1	1	1	.07600
26	1	1	1	1	.16650
27	1	1	1	1	.11820
28	1	1	1	0	.03800
29	1	1	1	0	.00620
30	1	0	1	0	.03930
31	1	1	1	1	.15920
TOT	6[illegible]	[illegible],926	46.2	201,991	28.10292
AVG	1 DAY THIS MONTH				
	220	2,742	699	6,516	.90655

PLANT- ST. REGIS-ANGELL A2

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	1	1	1	1	.12150
02	1	1	1	1	.06490
03	1	1	1	1	.09670
04	1	0	1	0	.00980
05	1	0	1	0	.05590
06	1	1	1	1	.10580
07	430	5,254	920	11,241	1.46420
08	500	5,843	2170	25,359	1.40040
09	340	4,089	664	7,986	1.44130
10	660	8,415	3700	47,176	1.52790
11	290	3,698	520	6,631	1.52820
12	320	4,034	1110	13,993	1.51060
13	385	4,626	1056	12,689	1.43590
14	340	4,782	1096	15,415	1.68540
15	398	5,115	804	10,333	1.54010
16	290	3,635	360	4,513	1.50220
17	370	5,163	1848	25,788	1.67220
18	550	893	232	377	.19460
19	1	2	81	130	.19300
20	280	3,339	500	5,963	1.42920
21	394	4,668	666	7,891	1.41580
22	394	4,992	666	8,439	1.51840
23	394	5,079	666	8,586	1.54480
24	385	5,110	1096	14,548	1.59060
25	18	11	90	57	.07630
26	1	1	1	1	.08700
27	1	1	1	1	.13910
28	1	1	1	1	.09630
29	1	0	1	0	.00001
30	1	0	1	0	.00001
31		0		0	.00000
TO	6750	78,755	18256	227,122	25.45612
AVERAGE DAY THIS MONTH					
	225	2,625	608	7,571	.84854

PLANT- ST. REGIS-ANGELL A2

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	25	39	564	875	.18590
02	1	2	112	253	.27120
03	1	2	1	2	.28610
04	1	3	1	3	.32160
05	1	3	1	3	.35260
06	45	116	16	41	.30950
07	280	676	280	676	.28910
08	150	377	584	1,466	.30080
09	400	4,955	990	12,263	1.48430
10	312	4,104	260	3,420	1.57640
11	263	3,762	530	7,582	1.71420
12	207	2,921	240	3,387	1.69110
13	225	3,036	580	7,825	1.61680
14	380	5,274	304	4,219	1.66320
15	440	5,850	464	6,169	1.59320
16	66	806	716	8,746	1.46380
17	231	3,080	410	5,467	1.59800
18	231	3,068	410	5,445	1.59150
19	245	3,187	532	6,921	1.55890
20	350	5,455	1776	27,682	1.86780
21	26	48	58	107	.22130
22	90	169	108	202	.22450
23	193	2,606	410	5,537	1.61820
24	270	3,733	548	7,576	1.65660
25	235	3,368	796	11,407	1.71720
26	175	2,556	232	3,388	1.74590
27	320	5,214	2232	36,371	1.95270
28	60	229	226	861	.45660
29	1	3	1	3	.38780
30	1	4	1	4	.45950
31	1	2	1	2	.19300
TO	5226	64,648	13384	167,903	32.37330
AVERAGE DAY THIS MONTH	168	2,085	431	5,416	1.04430

PLANT- ST. REGIS-ANGELL A2

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	253	4,086	212	3,424	1.93540
02	330	4,940	1556	23,295	1.79400
03	95	215	360	816	.27150
04	1	1	1	1	.17050
05	1	1	1	1	.14750
06	215	2,902	276	3,725	1.61720
07	220	3,201	316	4,597	1.74330
08	250	3,173	248	3,148	1.52110
09	280	3,807	148	2,013	1.62950
10	258	3,288	192	2,447	1.52730
11	225	3,016	580	7,775	1.60630
12	570	6,979	680	8,326	1.46720
13	305	4,086	456	6,109	1.60550
14	610	7,864	452	5,827	1.54480
15	298	3,947	264	3,497	1.58720
16	172	2,438	2172	30,791	1.69880
17	40	98	276	676	.29330
18	210	443	1	2	.25300
19	285	3,950	688	9,535	1.66070
20	228	4,122	168	3,037	2.16660
21	210	3,012	264	3,786	1.71860
22	291	4,555	337	5,275	1.87580
23	260	3,880	396	5,910	1.78830
24	232	3,354	148	2,140	1.73250
25	258	4,153	416	6,696	1.92870
26	270	4,139	456	6,990	1.83700
27	210	3,261	208	3,230	1.86100
28	268	3,977	376	5,580	1.77830
29	353	4,966	652	9,173	1.68590
30	590	9,810	2380	39,571	1.99240
31	25	65	51	133	.31290
TO	7813	107,729	14731	207,526	44.75210
AVERAGE DAY THIS MONTH	252	3,475	475	6,694	1.44362

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CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 2
DATE 7/16/82
TIME 10.20.25

PLANT- ST. LOUIS-ANGELL

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	90	1,891	336	7,058	2.51730
02	298	5,281	340	6,026	2.12370
03	258	4,244	568	9,366	1.97590
04	218	3,131	92	1,321	1.72100
05	250	3,730	280	4,177	1.78780
06	265	3,992	244	3,676	1.80520
07	235	3,977	484	6,525	1.61540
08	295	4,136	436	6,108	1.67870
09	220	3,779	20	344	2.05840
10	320	4,677	408	5,963	1.75130
11	265	4,394	1420	23,546	1.98700
12	60	110	224	492	.26320
13	45	122	48	130	.32530
14	198	3,000	328	4,969	1.81550
15	302	4,756	332	5,228	1.88710
16	220	3,081	288	4,034	1.67840
17	175	3,044	148	2,574	2.08440
18	236	3,960	1992	33,423	2.01060
19	35	297	104	364	.41910
20	51	140	40	109	.32790
21	35	93	5	13	.31840
22	30	80	60	160	.32030
23	52	138	64	173	.32450
24	52	133	52	136	.31250
25	65	169	8	21	.31150
26	1	3	1	3	.32770
27	46	120	94	245	.31240
28	130	2,452	144	2,716	2.26030
29	46	3,667	276	4,339	1.88370
30	290	4,861	808	13,543	2.00850
31				0	.00000
TO	5081	73,665	9644	146,782	40.21300
AVERAGE DAY THIS MONTH	169	2,456	321	4,893	1.340+3

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JUL - 1982
WASTEWATER
TREATMENT PLANT

PLANT- ST. REGIS-ANGELL A2

DAY	---BOD--- MG/L	LBS.	---SS--- MG/L	LBS.	FLOW
01	95	246	120	3,1	.31000
02	65	169	184	474	.30900
03	300	4,213	284	3,988	1.68290
04	353	5,523	216	3,380	1.87500
05	283	4,706	248	4,124	1.99281
06	293	4,776	349	5,910	2.03500
07	343	6,145	1392	24,940	2.14700
08	63	285	74	334	.54120
09	25	116	1	3	.55610
10	25	111	4	18	.53030
11	55	24	64	282	.52830
12	50	221	12	53	.52610
13	53	226	60	255	.51020
14	40	176	12	53	.52750
15	110	46	14	59	.50180
16	51	215	84	355	.50610
17	195	3,161	252	4,084	1.94220
18	320	5,962	100	1,863	2.23260
19	248	4,958	472	7,533	1.91240
20	260	4,690	260	4,690	2.16140
21	255	4,469	1238	21,570	2.09990
22	30	211	23	197	.84160
23	57	464	123	818	.76590
24	20	298	340	5,033	1.77370
25	20	297	363	5,472	1.78200
26	253	3,982	238	4,419	1.83870
27	308	5,197	152	2,565	2.02210
28	259	3,243	1320	16,682	1.51447
29	350	1,031	214	636	.35590
30	1	2	1	2	.29680
31	1	3	1	3	.40423
0	4777	84,782	8329	121,107	37.32110
AVERAGE DAY THIS MONTH					
	154	2,090	268	3,907	1.19423

WSM-00 CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 2
DATE 5/20/82
TIME 6.53.30

PLANT- ST. REGIS-ANGELL A2

DAY	---BOD--- MG/L	LBS.	---SS--- MG/L	LBS.	FLOW
01	3[illegible]	[illegible]	116	1,592	1.64490
02	[illegible]	[illegible]	[illegible]	3,881	1.66100
03	[illegible]75	3,[illegible]	15[illegible]	2,029	1.59970
04	290	[illegible]	203	2,250	1.29600
05	235	3,0[illegible]	456	5,919	1.55540
06	[illegible]80	3,[illegible]	505	6,349	1.50660
07	305	3,7[illegible]	236	2,901	1.47300
08	490	5,316	1988	21,567	1.30000
09	120	12[illegible]	129	164	.15360
10	7[illegible]	[illegible]0	96	123	.15360
11	85	09	104	133	.15360
12	210	2,979	380	5,391	1.69590
13	30[illegible]	[illegible],79[illegible]	424	5,334	1.50740
14	370	5,1[illegible]3	400	5,517	1.65270
15	280	3,976	339	4,814	1.70160
16	[illegible]75	3,[illegible]3	436	6,359	1.53620
17	45	1[illegible]6	82	248	.36270
18	60	49	122	302	.29690
19	[illegible]85	[illegible],3[illegible]9	292	3,644	1.49540
20	2[illegible]5	2,[illegible]57	408	3,904	1.14650
21	275	3,391	364	4,735	1.47760
22	[illegible]5	3,354	308	4,051	1.57610
23	2[illegible]8	5,7[illegible]4	1020	13,188	1.54940
24	65	[illegible]51	240	928	.46340
25	25	93	64	237	.44350
26	265	3,728	704	9,905	1.68600
27	325	5,765	612	10,928	2.13980
28	330	5,454	460	7,603	1.98050
29	333	4,969	136	2,029	1.76800
30	340	5,0[illegible]8	600	8,856	1.76870
31		0		0	.00000
TO 7207	5[illegible],316		1740	144,881	38.76970
AVERAGE DAY THIS MONTH					
240	3,04[illegible]		391	4,829	1.29232

PLANT- ST. REGIS-ANGELL A2

	---BOD---		-----SS------		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	170	2,120	456	5,638	1.49470
02	305	3,802	264	3,291	1.49390
03	375	4,822	446	5,735	1.54090
04	240	2,937	340	4,160	1.46630
05	410	4,528	2776	30,660	1.32350
06	220	344	980	1,531	.18720
07	60	79	268	352	.15720
08	240	2,933	280	3,422	1.46460
09	420	4,896	404	4,710	1.39700
10	360	4,250	348	4,108	1.41470
11	240	2,870	280	3,348	1.43300
12	220	3,108	480	6,780	1.69270
13	232	2,813	276	3,346	1.45280
14	288	3,498	360	4,373	1.45550
15	297	3,630	355	4,339	1.46480
16	285	3,298	390	4,513	1.39670
17	292	3,530	363	4,388	1.44850
18	270	3,376	304	3,801	1.49830
19	318	4,397	1736	24,006	1.65710
20	185	64	208	72	.04140
21	135	54	336	134	.04770
22	153	1,953	244	3,114	1.52540
23	315	4,088	328	4,257	1.55530
24	305	3,944	452	5,844	1.54940
25	198	2,762	152	2,120	1.67160
26	155	2,489	216	3,469	1.92430
27	192	2,661	248	3,438	1.66100
28	170	2,103	196	2,425	1.48250
29	328	4,005	468	5,714	1.46310
30	470	6,497	1040	14,376	1.65650
31	270	2,453	456	4,143	1.98680
TO	8118	94,304	15450	171,657	41.10040
AVERAGE DAY THIS MONTH					
	261	3,042	498	5,537	1.32582

PLANT- ST. REGIS-ANGELL A2

	---BOD------		-----SS------		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	220	3,214	184	2,688	1.75090
02	292	4,271	228	3,335	1.75270
03	110	1,527	204	2,832	1.66330
04	210	3,183	492	7,458	1.81640
05	365	5,676	1456	22,641	1.86340
06	95	875	294	2,707	1.10330
07	75	152	240	485	.24210
08	315	4,025	176	2,249	1.53130
09	240	3,228	92	1,237	1.61170
10	255	3,608	544	7,696	1.69530
11	185	2,590	136	1,904	1.67770
12	252	3,358	476	6,342	1.59670
13	225	3,164	364	5,119	1.68510
14	325	4,589	336	4,744	1.69200
15	238	3,666	528	8,133	1.84590
16	308	4,273	496	6,880	1.66230
17	390	5,487	904	12,719	1.68600
18	333	4,238	732	9,317	1.52520
19	420	5,936	1436	20,296	1.69370
20	170	51	444	133	.03600
21	150	128	200	171	.10220
22	298	3,646	264	3,230	1.46610
23	268	3,219	1380	16,577	1.43950
24	285	3,776	760	10,068	1.58750
25	175	2,227	324	4,123	1.52490
26	240	3,131	36	470	1.56340
27	280	3,454	725	8,944	1.47830
28	243	3,267	448	6,023	1.61100
29		0		0	.00000
30		0		0	.00000
31		0		0	.00000
TO	6962	89,959	13899	178,521	40.90390
AVERAGE DAY THIS MONTH					
	248	3,213	496	6,376	1.46085

PLANT- ST. GIS-MODELL

A2

	---BOD--- MG/L	LBS.	---SS--- MG/L	LBS.	FLOW
	30	7	30	19	.07500
	9	1	8	2	.01610
	7	3	32	17	.06261
	183	,44	254	6,716	1.53590
	6	3, 1	256	6, 07	1.87600
	13	, 13	344	2,711	.94700
	40	2, 3	240	2,834	1.41480
	3	3, 27	1184	13,433	1.45661
	3	1	212	361	.32100
	60	3	228	1,517	.32700
	1	,	455	5,249	1.32720
	203	, 10	51	2,13	1.65900
	340	, 1	342	7,997	1.61770
	3	,,1	264	3, 04	1.70500
	3	,,11	203	2,072	1.63271
	1	,7	183	401	.33000
	1	5,	73	2,311	.32700
	-	,4	7	2,334	1.75740
	-	3, 32	227	2,132	1.32140
	3	3, 3	293	3,403	1.39330
2	262	,	232	7,533	1.71030
2	13	,267	663	23,433	1.77780
	133	10	14	29	.36600
	1	1	113	71	.36001
	213	2,21	320	4,427	1.65390
2	32	1, 33	303	4,178	1.66333
27	235	2,243	403	5,671	1.66650
2	2 3	3,16	163	2,353	1.76193
3	203	,2 3	1312	18,693	1.71064
3	3	3	97	203	.30000
3	3	3	144	301	.36033
T	1126	, 71	1.77	68,113	35.05133
	DAY THIS MON				
		, 73	181	, 13	1.13131

FINAL EFFLUENT SHEET

DATE 1/18/82
TIME 13.49.32

PLANT- ST. IS-ANGELL A2

DAY	BOD MG/L	BOD LBS.	SS MG/L	SS LBS.	FLOW
01	228	3,44	100	2,415	1.80900
02	225	3,[illegible]	270	3,[illegible]	1.69300
03	220	3,43[illegible]	232	3,618	1.86900
04		3,617	1[illegible]	2,187	1.[illegible]000
05	2[illegible]	3,7[illegible]	13[illegible]	1,[illegible]1	1.71000
06	[illegible]	3,41[illegible]	104	1,544	1.77900
07	[illegible]5	4,[illegible]	130	2,[illegible]77	1.7[illegible]220
08	245	3,45[illegible]	244	3,443	1.69080
09	[illegible]0	3,[illegible]	308	4,481	1.74350
10	19[illegible]	[illegible],7[illegible]	[illegible]5	3,[illegible]	1.7[illegible]700
11	36[illegible]	[illegible]	1580	[illegible],9[illegible]0	1.[illegible]
12	[illegible]	[illegible]	30	104	.1[illegible]650
13	90	[illegible]	1[illegible]0	152	.[illegible]
14	1[illegible]0	2,667	200	2,[illegible]7	1.6[illegible]200
15	2[illegible]	3,22[illegible]	210	3,007	1.71[illegible]0
16	[illegible]	3,016	[illegible]	3,332	1.72110
17	[illegible]	3,023	84	1,282	1.82950
18	14[illegible]	2,19[illegible]	[illegible]	4,082	1.[illegible]150
19	[illegible]6[illegible]	[illegible],[illegible]	[illegible]44	[illegible],057	1.7[illegible]200
20	215	[illegible],[illegible]	[illegible]09	2,788	1.60650
21	105	2,[illegible]	232	3,251	1.67930
22	268	4,1[illegible]	476	7,[illegible]75	1.[illegible]671
23	363	1,[illegible]	2080	6,759	.38940
24		0		0	.00000
25	1	3	1	3	.3[illegible]690
26	5[illegible]	[illegible]6	100	174	.2[illegible]980
27	1	1	1	1	.14440
28	[illegible]	0	44	0	.00020
29	[illegible]	[illegible]	2	7	.01710
30	5	1	24	1	.00[illegible]
31	[illegible]5	[illegible]	236	140	.07090
TO	[illegible]	66,767	8[illegible]39	8[illegible],369	36.36100
AVE AG DAY THIS MONTH					
	17[illegible]	2,[illegible]	277	2,346	1.[illegible]1[illegible]03

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JAN 2 1982

WASTEWATER
TREATMENT PLANT

PLANT- ST. [illegible]IS-ANGELL A2

	---FLOW------		-----SS------		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	50	717	148	2,122	1.71780
02	180	2,580	520	7,454	1.71780
03	292	4,186	240	3,440	1.71780
04	185	2,65[illegible]	224	3,211	1.71780
05	370	5,304	175	2,509	1.71780
06	350	5,049	1220	17,601	1.72830
07	10	7	4	3	.07960
08	30	36	188	228	.14520
09	185	2,493	180	2,426	1.61500
10	195	[illegible],892	560	8,304	1.77700
11	340	4,795	180	2,[illegible]39	1.69000
12	265	4,012	270	4,087	1.81400
13	343	4,39[illegible]	1130	14,469	1.53440
14	40	34	372	315	.10160
15	40	37	224	318	.17000
16	393	5,903	280	4,206	1.80000
17	245	3,74[illegible]	284	4,337	1.83000
18	318	4,51[illegible]	308	4,369	1.70000
19	262	3,878	152	2,250	1.77380
20	170	2,537	510	7,610	1.78820
21	380	[illegible],337	1110	15,590	1.68300
22	243	3,964	75	4,486	1.95500
23	200	3,12[illegible]	124	1,935	1.87000
24	352	[illegible],816	760	12,558	1.98000
25	500	1,325	6630	17,699	.31750
26	120	109	4	4	.10840
27	1	1	44	37	.09980
28	140	120	148	126	.10230
29	65	71	244	265	.13000
30	203	3,441	885	15,000	2.03100
31		0		0	.00000
TO	6467	8[illegible],08[illegible]	17443	159,498	38.41760
AVE A E DAY THIS MONTH					
	215	2,760	581	5,317	1.28045

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CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 2
DATE 11/18/81
TIME 12.16.17

PLANT- ST. REGIS-ANGELL A2

DAY	BOD MG/L	BOD LBS.	SS MG/L	SS LBS.	FLOW
01	70	11	24	4	.01880
02	45	9	3	6	.02340
03	130	0	[illegible]	0	.00000
04	35	94	100	111	.13280
05	[illegible]	[illegible]	284	4,056	1.71160
06	72	3,846	[illegible]	4,072	1.69440
07	118	3,093	18	2,667	1.70000
08	235	4,050	308	5,308	2.06500
09	[illegible]	3,572	276	4,381	1.90230
10	770	328	11980	5,099	.05100
11	240	611	604	1,489	.29540
12	310	4,[illegible]3	324	4,801	1.77560
13	292	4,611	440	6,948	1.89220
14	218	2,474	410	4,653	1.36000
15	320	4,[illegible]	360	4,865	1.61950
16	290	4,441	356	5,451	1.83500
17	292	4,164	60	856	1.70900
18	360	4,858	372	5,020	1.61700
19	340	4,791	580	8,173	1.68850
20	380	5,329	356	4,992	1.68050
21	253	3,[illegible]37	108	1,606	1.78200
22	342	4,692	460	6,311	1.64400
23	255	3,111	655	7,991	1.46200
24	30	12	140	61	.04940
25	80	124	360	558	.18560
26	170	2,334	180	2,471	1.64500
27	350	5,017	392	5,619	1.71780
28	220	3,154	108	1,548	1.71780
29	230	3,297	235	3,369	1.71780
30	570	2,042	750	2,686	.42910
31	40	56	116	163	.16870
TO	7887	86,332	20914	105,335	37.29120
AVERAGE DAY THIS MONTH					
	254	2,785	674	3,398	1.24304

CITY OF LATTLE CRL K
FINAL EFFLUENT SHEET

PAGE
DATE 10/ 9/81
TIME 10.26.51

[illegible] - [illegible] IS-ANGELL

DAY	[illegible]	LBS.	[illegible]	LBS.	FLOW
01	[illegible]	[illegible]		[illegible]	1.68110
02	[illegible]	[illegible]	[illegible]	4,843	1.59600
03	[illegible]	[illegible]		5,030	1.62040
04	[illegible]	[illegible]	[illegible]	[illegible]	1.66650
05	[illegible]	[illegible]			.06800
06		[illegible]		[illegible]	.0[illegible]50
07	[illegible]	[illegible]	[illegible]	183	.10980
08	[illegible]	3,066	[illegible]	4,108	1.83680
09	[illegible]13	5,075	[illegible]	7,069	1.94300
10		[illegible]	[illegible]	3,979	1.89190
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12		[illegible]	[illegible]	[illegible]	.02640
13		[illegible]	[illegible]	74	.11740
14	[illegible]	[illegible]	[illegible]	4,740	1.71100
15	[illegible]	[illegible]	[illegible]	[illegible],184	2.08000
16	[illegible]	4,1[illegible]6	[illegible]	[illegible]	2.51540
17	[illegible]68	3,597	[illegible]	[illegible]	2.56570
18	[illegible]	[illegible]	[illegible]	12,579	2.14110
19	[illegible]	[illegible]		[illegible]	.07100
20	[illegible]	[illegible]	[illegible]	166	.11580
21	[illegible]	[illegible]	[illegible]	[illegible]	1.69600
22		[illegible]	[illegible]	[illegible],740	1.83700
23	[illegible]	4,774	[illegible]	[illegible],969	1.74400
24	[illegible]	[illegible]	[illegible]	3,063	1.83500
25	[illegible]	[illegible]	[illegible]	[illegible]	1.65880
26	[illegible]45	[illegible]	[illegible]	[illegible]	.03050
27	[illegible]70	[illegible]	[illegible]	[illegible]	.00220
28	[illegible]60	[illegible]	[illegible]	21	.02980
29	[illegible]	[illegible]	[illegible]	9	.0[illegible]770
30	[illegible]	[illegible]	[illegible]	0	.02100
31		[illegible]		[illegible]	.00000
TO	[illegible]	[illegible]	[illegible]	[illegible]	34.49010
AVE [illegible] Y THIS MONTH					
	[illegible]76	[illegible]	[illegible]	3,740	1.14967

WSM2CC

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 2
DATE 9/23/81
TIME 15.50.05

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	190	256	56	75	.16130
02	35	36	44	46	.12470
03	50	38	248	190	.09190
04	1	0	1	0	.00020
05	1	0	1	0	.04420
06	1	0	1	0	.01280
07	1	0	1	0	.00000
08	1	0	1	0	.00720
09	1	0	1	0	.04760
10	318	5,839	236	4,333	2.20030
11	510	7,662	248	3,726	1.80020
12	550	7,349	216	2,886	1.60120
13	370	5,017	424	5,749	1.62470
14	125	1,830	60	879	1.75470
15	95	361	52	197	.45500
16	1	2	1	2	.21220
17	210	2,718	176	2,278	1.55070
18	500	7,016	128	1,796	1.68150
19	400	5,887	276	4,062	1.76350
20	350	4,785	148	2,024	1.63840
21	370	5,368	640	9,286	1.73870
22	1	1	1	1	.16230
23	1	2	1	2	.26010
24	200	3,207	216	3,464	1.92150
25	230	3,409	268	3,972	1.77600
26	283	4,166	444	6,536	1.76400
27	290	4,824	664	11,045	1.99230
28	295	1,048	1950	6,926	.42560
29	45	6	4	1	.01540
30	740	813	524	576	.13170
31	290	4,003	472	6,514	1.65390
TO	6455	75,643	7503	76,566	28.61480
AVERAGE DAY THIS MONTH	208	2,440	242	2,470	.95383

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE
DATE [illegible]
TIME [illegible]

PLANT- ST. [illegible] GIS-ANGELL 02

DAY	[illegible]	LBS.	[illegible]	LBS.	FLOW
01	[illegible]	4,[illegible]	[illegible]	4,714	1.88300
02	[illegible]	4,[illegible]	[illegible]	5,253	1.89600
03	[illegible]	1,[illegible]	1004	7,071	.84060
04	1	[illegible]	1	0	.00270
05	1	[illegible]	1	1	.07200
06	[illegible]	[illegible]	36	3	.00930
07	1	0	20	2	.01100
08	[illegible]	[illegible]	[illegible]	33	.24920
09	[illegible]	[illegible]	1	1	.09000
10	[illegible]	[illegible]	24	6	.02970
11	[illegible]	4	[illegible]	1	.00620
12	1	[illegible]	1	1	.15110
13	[illegible]	3,3[illegible]	[illegible]	6,577	1.80770
14	[illegible]	[illegible],966	[illegible]	3,454	1.61700
15	430	[illegible],048	300	4,220	1.63550
16	[illegible]	[illegible]	[illegible]	4,194	1.67520
17	[illegible]	6,13[illegible]	1100	15,345	1.67170
18	[illegible]	2	[illegible]	2	.20860
19	1	2	1	2	.29840
20	[illegible]	[illegible],400	[illegible]	4,408	1.86010
21	[illegible]	3,530	116	1,692	1.74800
22	[illegible]	[illegible],454	76	1,103	1.73900
23	[illegible]	[illegible]	104	1,546	1.78150
24	335	4,960	328	4,862	1.77620
25	[illegible]	[illegible]	24	24	.11780
26	[illegible]	[illegible]	48	87	.21810
27	[illegible]	[illegible],373	436	6,118	1.68140
28	[illegible]	4,[illegible]	[illegible]	3,7[illegible]	1.70400
29	[illegible]	6,[illegible]	324	4,802	1.77600
30	330	5,947	[illegible]	2,817	1.87530
31	418	5,846	328	11,579	1.67580
TOT	67[illegible]	[illegible]	7158	93,672	32.15810
AVERAGE BY THIS MONTH					
	[illegible]	[illegible]	[illegible]	3,022	1.03736

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	550	8,532	192	2,979	1.85900
02	330	4,661	212	2,995	1.69270
03	316	4,289	168	2,280	1.62640
04	430	6,339	464	6,840	1.76660
05	303	3,695	468	5,707	1.46140
06	275	4,021	260	3,802	1.75210
07	460	7,185	280	4,374	1.87180
08	318	5,517	304	5,274	2.07900
09	330	5,474	192	3,185	1.98760
10	720	10,977	240	3,659	1.82700
11	560	8,443	356	5,367	1.80660
12	390	6,643	236	4,020	2.04120
13	350	5,128	264	3,868	1.75570
14	460	6,821	268	3,974	1.77700
15	338	5,283	280	4,376	1.87290
16	280	3,853	80	1,101	1.64900
17	320	5,010	84	1,315	1.87610
18	303	4,986	432	7,109	1.97190
19	280	4,797	720	12,336	2.05310
20	390	6,059	664	10,316	1.86180
21	410	6,742	512	8,419	1.97040
22	470	7,315	416	6,475	1.86510
23	165	2,082	828	10,446	1.51180
24	320	4,985	200	3,116	1.86670
25	460	6,839	164	2,438	1.78150
26	310	4,516	124	1,806	1.74550
27	460	6,910	360	5,408	1.80000
28	347	5,678	356	5,825	1.96070
29	292	4,815	264	4,353	1.97600
30	302	4,781	168	2,660	1.89700
31		0		0	.00000
TO	11239	172,376	9556	145,823	54.96360
AVERAGE DAY THIS MONTH	374	5,746	318	4,861	370,514

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	400	6,516	100	1,629	1.95220
02	520	868	3360	5,611	.20010
03	1	0	1	0	.03660
04	293	3,513	88	1,055	1.43680
05	460	6,393	216	3,002	1.66550
06	330	4,778	264	3,823	1.73510
07	420	5,845	204	2,839	1.66780
08	460	7,481	436	7,091	1.94880
09	100	334	228	761	.40010
10	230	361	648	1,017	.18810
11	470	6,434	460	6,297	1.64030
12	500	7,699	332	5,112	1.84510
13	490	7,936	440	7,127	1.94090
14	470	6,881	168	2,460	1.75440
15	258	4,232	196	3,215	1.96580
16	380	5,136	136	1,838	1.61970
17	420	6,222	92	1,363	1.77530
18	303	4,515	224	3,338	1.78570
19	400	6,675	164	2,737	1.99980
20	460	7,703	212	3,550	2.00660
21	520	8,079	628	9,757	1.86170
22	240	3,364	196	2,747	1.67950
23	1	5	1	5	.61000
24	1	1	1	1	.09020
25	1	2	1	2	.19480
26	318	5,457	72	1,235	2.05620
27	440	7,225	408	6,700	1.96780
28	480	6,258	348	4,537	1.56220
29	490	7,452	228	3,467	1.82240
30	440	6,497	228	3,367	1.76940
31	500	7,214	128	1,847	1.72890
TO	10796	151,076	10208	97,530	44.90780
AVERAGE DAY THIS MONTH	348	4,873	329	3,146	2

PLANT- ST. REGIS-ANCELL 02

	---BOD---		-----SS-----		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	660	11,338	895	14,923	1.99800
02	430	6,669	488	6,019	1.85150
03	430	7,335	112	1,910	2.04400
04	460	7,790	300	5,081	2.02940
05	490	7,924	128	2,070	1.93780
06	350	5,605	112	1,794	1.91910
07	370	5,921	484	7,745	1.91760
08	275	3,50	128	1,629	1.52540
09	570	7,102	308	4,951	1.92620
10	480	6,913	220	3,169	1.72590
11	440	6,339	172	2,478	1.72640
12	470	7,040	288	4,314	1.79490
13	345	5,013	364	5,289	1.74110
14	345	5,132	432	6,488	1.79580
15	410	7,147	375	6,539	2.09960
16	417	4,056	276	2,685	1.16560
17	1	2	1	2	.22830
18	1	2	1	2	.22180
19	1	3	1	3	.34490
20	400	5,704	180	2,567	1.70830
21	440	6,347	164	2,366	1.72860
22	440	6,365	240	3,471	1.74800
23	323	4,940	196	2,937	1.79530
24	500	7,733	450	6,960	1.85330
25	410	940	1260	2,889	.27430
26	1	1	1	1	.15930
27	375	5,752	408	6,258	1.83800
28	510	7,870	336	5,152	1.83740
29	500	8,169	368	5,466	1.77580
30	380	5,573	204	2,992	1.75740
31		0		0	.00000
TOT	11294	166,353	8797	118,259	46.53560
AVERAGE DAY THIS MONTH					
	376	5,545	293	3,942	1.55085

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PLANT- ST. REGIS-ANGELL 02

	---BOD---		-----SS-----		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	1	1	1	1	.12930
02	308	4,914	324	5,170	1.91200
03	510	8,120	332	5,286	1.90800
04	420	6,767	300	4,834	1.93070
05	690	11,350	244	4,014	1.97120
06	440	7,459	336	5,695	2.03120
07	1	1	795	1,185	.17860
08	1	1	1	1	.15530
09	372	5,684	208	3,178	1.83100
10	348	5,410	164	2,550	1.86300
11	368	6,135	284	4,773	2.01400
12	350	5,237	329	4,908	1.79320
13	540	8,916	468	7,727	1.97850
14	1	2	1520	2,878	.22690
15	1	2	132	248	.22500
16	325	4,810	188	2,782	1.77340
17	540	7,602	200	2,816	1.68700
18	430	6,746	100	1,569	1.88000
19	385	5,960	188	2,911	1.85520
20	400	5,973	316	4,719	1.78940
21	390	6,621	320	5,433	2.03440
22	300	5,289	172	3,032	2.11260
23	630	9,905	700	11,005	1.88400
24	323	4,894	368	5,576	1.81560
25	330	4,871	624	9,210	1.76870
26	210	3,116	96	1,424	1.77790
27	180	2,815	140	2,190	1.87430
28	368	6,077	129	2,114	1.97890
29	208	2,635	140	1,774	1.51810
30	260	3,302	396	5,121	1.54960
31	470	7,010	276	4,117	1.78730
TOT	10100	157,734	9789	118,241	49.23430
AVERAGE DAY THIS MONTH					
	325	5,088	315	3,814	1.58820

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PLANT- ST. REGIS-ANGELL 02

	---BOD------		-----SS------		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	490	8,154	244	4,060	1.99400
02	210	3,661	88	1,534	2.08900
03	270	4,459	100	1,651	1.97900
04	250	4,254	216	3,675	2.03900
05	430	7,696	348	6,229	2.14480
06	328	6,073	316	5,850	2.21860
07	361	1,081	1720	5,149	.35870
08	1	1	1	1	.06190
09	245	4,341	268	4,748	2.12300
10	260	4,211	132	2,138	1.94100
11	350	5,537	104	1,645	1.89560
12	420	6,254	244	3,633	1.78430
13	340	4,820	344	4,876	1.69870
14	310	1,909	2680	16,507	.73810
15	1	2	118	206	.20930
16	288	4,658	272	4,400	1.93830
17	330	5,708	176	3,044	2.07270
18	400	6,636	240	3,982	1.98800
19	670	10,163	256	3,883	1.81770
20	570	9,726	524	8,941	2.04470
21	387	993	680	1,744	.30740
22	1	1	1	1	.14620
23	430	6,699	296	4,612	1.86700
24	550	8,385	164	2,500	1.82700
25	464	6,989	488	7,351	1.80500
26	464	6,783	388	5,672	1.75170
27	500	8,189	452	7,402	1.96250
28	473	602	980	1,247	.15250
29		0		0	.00000
30		0		0	.00000
31		0		0	.00000
TOT	9793	137,985	11840	116,681	42.95570
AVERAGE DAY THIS MONTH					
	349	4,928	422	4,167	1.53413

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD------ MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	1	1	1	1	.10120
02	90	1,098	220	2,685	1.46250
03	428	7,655	25	447	2.14340
04	345	6,576	364	6,938	2.28420
05	342	6,270	184	3,373	2.19700
06	352	6,821	256	4,961	2.32200
07	358	6,446	212	3,817	2.15770
08	320	5,538	244	4,222	2.07370
09	330	5,735	252	4,380	2.08260
10	240	3,978	390	6,464	1.98600
11	290	5,068	236	4,124	2.09400
12	345	5,813	288	4,852	2.01900
13	322	5,581	200	3,467	2.07700
14	430	7,553	144	2,530	2.10500
15	298	5,089	168	2,869	2.04650
16	325	5,788	116	2,066	2.13400
17	370	7,211	252	4,911	2.33550
18	310	5,650	190	3,463	2.18400
19	338	5,870	292	5,071	2.08100
20	440	7,311	288	4,785	1.99100
21	388	6,793	224	3,922	2.09800
22	262	3,728	608	8,652	1.70520
23	412	6,829	1060	17,569	1.98620
24	155	2,359	116	1,765	1.82370
25	300	4,516	152	2,282	1.80390
26	420	7,101	172	2,908	2.02600
27	420	6,968	172	2,853	1.98800
28	480	8,011	188	3,138	2.00000
29	312	4,973	189	2,997	1.91000
30	410	6,514	68	1,080	1.90390
31	315	5,187	260	4,281	1.97310
TOT	10148	174,032	7530	126,879	61.09530
AVERAG DAY THIS MONTH	327	5,614	242	4,093	1.97082

PLANT- ST. REGIS-ANGELL 02

	---BOD---		-----SS-----		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	510	8,099	620	9,846	1.90300
02	368	6,544	465	8,269	2.13100
03	352	3,883	1120	12,356	1.32200
04	272	4,208	116	1,795	1.85390
05	420	6,423	132	2,019	1.83250
06	275	3,958	136	1,957	1.72460
07	370	5,561	140	2,104	1.80100
08	430	6,782	136	2,145	1.89000
09	530	8,570	84	1,358	1.93760
10	362	6,013	232	3,853	1.99040
11	428	7,304	276	4,710	2.04510
12	352	6,083	320	5,530	2.07080
13	490	7,860	305	4,892	1.92210
14	335	5,384	175	2,813	1.92600
15	325	5,248	368	5,942	1.93500
16	355	6,192	220	3,837	2.09000
17	365	6,724	220	4,053	2.20740
18	352	5,984	216	3,672	2.03710
19	382	6,523	280	4,781	2.04630
20	368	6,462	92	1,615	2.10420
21	352	5,890	240	4,016	2.00500
22	355	5,978	336	5,658	2.01800
23	670	11,495	1210	20,760	2.05600
24		0		0	.00000
25	1	4	180	691	.46020
26	1	4	460	1,827	.47600
27	1	2	202	350	.20790
28	1	0	230	0	.00010
29	1	1	1	1	.11350
30	1	0	1	0	.00000
31	1	1	1	1	.07120
TOT	9025	147,180	8514	120,851	46.17790
AVERAGE DAY THIS MONTH					
	300	4,906	283	4,028	1.59234

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	275	6,818	168	4,165	2.97090
02	225	5,524	136	3,339	2.94200
03	328	6,939	232	4,908	2.53500
04	370	9,016	80	1,949	2.92000
05	378	9,108	148	3,566	2.88730
06	335	7,199	416	8,940	2.57520
07	322	2,339	1430	10,388	.87050
08	145	3,388	248	5,795	2.80000
09	220	5,397	280	6,856	2.93400
10	265	7,165	376	10,166	3.24000
11	358	7,412	256	5,300	2.48100
12	320	7,346	308	7,071	2.75100
13	352	7,456	116	2,457	2.53820
14	410	8,243	204	4,102	2.40930
15	420	8,735	100	2,080	2.49210
16	350	7,262	192	3,984	2.48640
17	438	8,802	220	4,421	2.40800
18	265	5,389	252	5,125	2.43700
19	322	6,352	216	4,261	2.36390
20	300	6,053	300	6,053	2.41780
21	160	2,912	136	2,475	2.18110
22	330	6,128	204	3,788	2.22520
23	328	5,108	96	1,495	1.86600
24	430	8,623	208	4,171	2.40300
25	315	5,339	172	2,915	2.03100
26	560	9,599	340	5,828	2.05400
27		0	312	242	.09300
28		0	435	683	.18810
29	345	5,899	236	4,035	2.04890
30	355	6,393	495	8,914	2.15800
31		0		0	.00000
TOT	9221	185,934	8312	139,472	68.70790
AVERAGE DAY THIS MONTH					
	329	6,641	277	4,649	2.29026

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	---SS--- MG/L	LBS.	FLOW
01	360	6,447	390	6,984	2.14600
02	250	4,500	292	5,256	2.15690
03	400	7,122	204	3,632	2.13370
04	380	6,821	104	1,867	2.15090
05	287	5,407	112	2,110	2.25750
06	355	6,541	332	6,117	2.20800
07	345	3,936	1025	11,695	1.36730
08	290	5,994	208	4,299	2.47670
09	250	4,881	355	6,931	2.33960
10	265	5,169	248	4,837	2.33730
11	230	4,178	136	2,471	2.17700
12	235	4,550	96	1,859	2.32010
13	220	4,122	300	5,620	2.24500
14	288	6,270	284	6,183	2.60900
15	380	7,680	232	4,689	2.42200
16	442	9,949	312	7,023	2.69720
17	360	7,468	152	3,153	2.48570
18	210	4,769	292	6,631	2.72110
19	280	7,802	392	10,923	3.33900
20	220	4,440	324	6,539	2.41860
21	340	7,072	380	7,904	2.49240
22	250	4,903	732	14,357	2.35030
23	185	4,931	188	5,011	3.19390
24	220	3,514	476	7,602	1.91390
25	240	5,101	265	5,632	2.54700
26	255	5,439	32	683	2.55590
27	190	4,162	92	2,015	2.62500
28	390	8,387	176	3,785	2.57700
29	272	5,502	515	10,418	2.42400
30	300	6,385	84	1,788	2.55040
31	120	2,755	64	1,469	2.75070
TOT	8809	176,197	8794	169,483	74.98910
AVERAGE DAY THIS MONTH	284	5,684	283	5,467	2.41900

DATA DOCUMENTATION 1

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	320	5,335	264	4,402	1.99800
02	243	4,601	400	7,574	2.26900
03	240	4,288	252	4,502	2.14100
04	240	4,207	172	3,015	2.10060
05	320	5,820	100	1,819	2.17940
06	140	2,403	216	3,708	2.05700
07	80	1,335	200	3,336	1.99900
08	370	6,169	208	3,469	1.99800
09	410	8,232	336	6,746	2.40600
10	400	6,598	244	4,025	1.97670
11	355	6,646	264	4,942	2.24330
12	280	5,320	204	3,876	2.27700
13	390	7,513	192	3,699	2.30850
14	520	10,130	56	1,091	2.33450
15	390	7,480	200	3,836	2.29820
16	340	6,169	224	4,064	2.17400
17	325	6,091	236	4,423	2.24600
18	298	5,309	360	6,414	2.13500
19	330	6,103	228	4,216	2.21600
20	340	6,693	260	5,118	2.35880
21	250	4,569	216	3,948	2.19000
22	370	6,963	336	6,323	2.25500
23	295	6,098	172	3,555	2.47700
24	310	6,511	236	4,957	2.51700
25	200	3,570	352	6,283	2.13080
26	225	4,581	260	5,294	2.43980
27	267	4,825	156	2,819	2.16570
28	320	5,474	128	2,189	2.04970
29	350	7,176	172	3,527	2.45700
30	410	7,732	192	3,621	2.26000
31		0		0	.00000
TOT	9328	173,940	6836	126,790	66.66600
AVERAGE DAY THIS MONTH					
	310	5,798	227	4,226	2.22220

PLANT- ST. REGIS-ANCELL 02

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	333	6,542	292	5,736	2.35410
02	245	4,857	240	4,757	2.37540
03	238	4,526	72	1,369	2.27880
04	258	4,827	264	4,940	2.24220
05	323	6,339	276	5,416	2.35160
06	360	7,269	348	7,026	2.41550
07	315	6,370	152	3,074	2.42320
08	205	3,824	536	9,999	2.23550
09	275	5,310	262	5,059	2.31400
10	245	5,034	256	5,260	2.46600
11	265	5,520	372	7,748	2.49600
12	320	5,611	352	6,172	2.10100
13	335	6,114	88	1,606	2.18700
14	303	5,854	308	5,950	2.31510
15	340	6,573	535	10,342	2.31050
16	330	6,891	1210	25,268	2.50240
17	295	6,573	630	14,037	2.67000
18	225	1,013	1090	4,909	.53970
19	100	91	412	376	.10930
20		0		0	.12150
21		0		0	.16320
22	120	3,359	236	6,605	3.35390
23	155	3,454	180	4,011	2.67040
24	232	5,012	240	5,185	2.58900
25	210	3,896	156	2,894	2.22300
26	200	3,502	212	3,712	2.09800
27	272	4,835	328	5,830	2.13000
28	450	8,182	336	6,109	2.17890
29	75	1,065	224	3,182	1.70240
30	230	4,153	140	2,528	2.16370
31	288	5,184	140	2,520	2.15700
TOT	7542	141,780	9887	171.620	64.20430
AVERAGE DAY THIS MONTH					
	260	4,889	340	5,918	2.07111

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

DATE 8/18/80
TIME 10.51.22

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW,
01	363	5,58)	208	3,197	1.8420)
02	363	7,034	528	10,231	2.3220)
03	383	2,710	431	3,043	.84890
04	70	27)	168	649	.4627(
05	45	1)2	142	255	.27230
06	180	759	40)	169	.50500
07	180	2,825	120	1,984	1.8810)
08	200	3,236	76	1,230	1.9390(
09	263	5,144	212	4,147	2.3440(
10	372	7,574	400	8,144	2.4397)
11	333	7,748	488	11,355	2.7883)
12	420	9,495	585	13,225	2.7090)
13	330	7,284	556	12,272	2.6450)
14	225	4,367	468	9,068	2.3220)
15	325	6,458	272	5,404	2.3810(
16	120	2,264	412	7,774	2.2610)
17	340	7,443	228	4,994	2.6250)
18	330	6,130	292	5,424	2.2260)
19	333	6,369	212	4,055	2.2920(
20	343	5,013	168	2,749	1.9610)
21	365	6,882	116	2,187	2.2590)
22	363	6,810	212	3,977	2.2480)
23	308	6,061	80	1,574	2.3580(
24	270	2,814	198	1,959	1.2488(
25	188	2,765	38	337	1.4432
26	243	3,985	712	11,677	1.9653(
27	333	6,810	406	8,053	2.3770)
28	328	6,484	160	3,163	2.3690)
29	310	6,439	244	5,068	2.4890(
30	235	4,761	324	6,564	2.4278(
31	348	6,964	208	4,162	2.3979(
TOT	8779	157,877	8653	157,990	62.64970
AVERAGE DAY THIS MONTH	283	5,093	279	5,096	2.02096

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	290	5,147	44	781	2.12680
02	230	3,927	232	3,961	2.04600
03	330	5,909	380	6,804	2.14560
04	270	5,023	564	10,493	2.22940
05	318	5,433	96	1,640	2.04720
06	380	6,561	84	1,450	2.06880
07	390	6,571	72	1,213	2.01900
08	480	7,851	172	2,813	1.96000
09	328	5,789	260	4,589	2.11500
10	410	7,288	160	2,844	2.13000
11	450	8,416	128	2,394	2.24100
12	390	7,114	120	2,189	2.18600
13	320	6,251	116	2,266	2.34100
14	273	4,315	108	1,707	1.89400
15	300	5,678	156	2,953	2.26800
16	298	4,867	280	4,573	1.95700
17	480	8,420	316	5,543	2.10200
18	320	5,619	252	4,425	2.10400
19	243	4,624	292	5,557	2.28040
20	335	5,731	172	2,943	2.05010
21	338	5,978	168	2,971	2.11950
22	330	5,965	100	1,808	2.16600
23	390	7,635	376	7,361	2.34600
24	320	6,131	452	8,660	2.29630
25	293	5,291	232	4,190	2.16400
26	345	6,617	84	1,611	2.29850
27	390	6,480	160	2,659	1.99120
28	370	6,179	200	3,340	2.00130
29	295	5,276	176	3,147	2.14300
30	333	4,871	424	6,203	1.75300
31		0		0	.00000
TOT	10239	180,956	6376	113,988	63.58960
AVERAGE PER DAY THIS MONTH	341	6,032	212	3,770	2.11986

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	8	67	555	4,662	1.00650
02	130	1,989	500	7,650	1.83350
03	218	3,890	355	6,189	2.08900
04	295	5,015	455	7,734	2.03700
05	350	6,385	400	7,297	2.18600
06	330	6,020	395	7,206	2.18600
07	330	5,863	256	4,548	2.12900
08	320	5,545	424	7,347	2.07630
09	345	1,470	285	1,215	.51070
10	155	2,471	310	4,941	1.91000
11	150	2,356	645	10,130	1.88200
12	195	2,968	515	7,839	1.82400
13	240	3,984	450	7,469	1.98900
14	273	4,777	260	4,550	2.09700
15	220	3,888	128	2,262	2.11790
16	278	4,824	236	4,087	2.07520
17	340	6,574	85	1,643	2.31690
18	310	5,143	132	2,190	1.98800
19	300	5,698	160	3,039	2.27600
20	273	5,053	184	3,406	2.21820
21	338	6,112	180	3,255	2.16680
22	169	1,554	500	4,855	1.16350
23	208	3,954	450	8,555	2.27810
24	35	138	1150	4,524	.4714
25	153	391	92	235	.30600
26	80	206	104	267	.30800
27	210	3,571	96	1,632	2.03720
28	323	6,107	152	2,874	2.26580
29	305	5,651	136	2,520	2.2202
30	228	4,195	232	4,269	2.20490
31	283	5,368	112	2,125	2.27310
TOT	7383	121,126	9934	140,515	56.44320
AVERAGE DAY THIS MONTH	238	3,907	320	4,533	1.82075

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	180	3,890	405	8,753	2.59000
02	275	6,490	585	13,806	2.82800
03	168	3,321	325	6,424	2.36880
04	293	5,940	350	7,095	2.42930
05	250	4,379	410	7,181	2.09890
06	45	124	60	165	.32900
07	55	1,169	380	8,080	2.54800
08	280	7,260	500	12,964	3.10700
09	330	6,651	745	15,014	2.41500
10	313	5,880	475	8,924	2.25130
11	253	4,211	415	6,907	1.99450
12	430	7,795	510	9,245	2.17220
13	310	5,200	280	4,697	2.01000
14	330	6,042	390	7,140	2.19400
15	430	8,146	595	11,271	2.27000
16	340	5,589	600	9,864	1.97000
17	275	5,117	145	2,698	2.22990
18	375	6,360	165	2,798	2.03230
19	338	6,416	435	8,258	2.27480
20	225	3,795	490	8,264	2.02100
21	265	4,425	555	9,268	2.00100
22	280	4,865	880	15,289	2.08200
23	400	7,106	700	12,435	2.12880
24	490	8,503	470	8,156	2.07950
25	560	9,699	420	7,274	2.07550
26	320	5,958	455	8,472	2.23120
27	370	6,215	220	3,696	2.01300
28	430	7,378	410	7,035	2.05600
29	330	6,807	385	7,941	2.47180
30	370	8,198	585	12,961	2.65500
31		0		0	.00000
TOT	9310	172,929	13340	252,075	65.92780
AVERAGE DAY THIS MONTH	310	5,764	444	8,403	2.19759

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	315	5,740	655	11,936	2.18370
02	205	4,149	490	9,916	2.42500
03	235	4,093	712	12,400	2.08700
04	450	8,513	570	10,783	2.26700
05	420	7,823	675	12,573	2.23200
06	378	7,189	520	9,889	2.27890
07	268	4,759	440	7,813	2.12790
08	328	6,367	580	11,260	2.32630
09	235	4,359	410	7,606	2.22300
10	238	4,413	295	5,470	2.22200
11	220	3,883	325	5,736	2.11500
12	238	1,083	810	3,687	.54550
13	290	5,623	250	4,847	2.32350
14	388	7,591	315	6,163	2.34440
15	288	5,981	330	6,853	2.48860
16	310	6,240	690	13,888	2.41200
17	228	5,175	860	19,521	2.72000
18	240	3,597	820	12,290	1.79600
19	200	4,072	370	7,534	2.44000
20	288	5,617	310	6,046	2.33700
21	360	7,054	870	17,047	2.34800
22	300	6,141	560	11,463	2.45300
23	380	7,563	780	15,524	2.38500
24	315	5,707	670	12,138	2.17100
25	390	7,821	580	11,631	2.40300
26	295	6,647	116	2,614	2.70000
27	213	4,137	304	5,905	2.32750
28	310	6,595	240	5,106	2.54940
29	252	6,412	460	11,705	3.04910
30	298	6,655	215	4,801	2.67600
31	270	5,982	136	3,013	2.65500
TOT	9145	176,981	15358	287,158	71.61180
AVERAGE DAY THIS MONTH	295	5,709	495	9,263	2.31006

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	---SS--- MG/L	LBS.	FLOW
01	373	5,807	240	3,736	1.86550
02	300	5,578	495	9,204	2.22810
03	210	2,716	460	5,950	1.55000
04	215	3,570	320	5,314	1.99000
05	385	6,538	440	7,472	2.03500
06	265	4,653	530	9,305	2.10390
07	213	3,129	465	6,831	1.76030
08	345	6,182	555	9,945	2.14730
09	260	5,098	530	10,391	2.34950
10	213	3,572	270	4,528	2.00950
11	290	5,749	200	3,965	2.37550
12	273	5,115	770	14,426	2.24500
13	240	2,337	630	6,135	1.16700
14	318	5,729	920	16,576	2.15900
15	348	4,059	780	9,097	1.39760
16	323	5,920	824	15,103	2.19640
17	325	6,235	950	18,226	2.29900
18	310	6,842	590	13,023	2.64500
19	400	9,009	830	18,694	2.69900
20	193	4,998	480	12,429	3.10300
21	200	4,694	612	14,363	2.81240
22	165	2,085	788	9,958	1.51430
23	185	3,658	310	6,129	2.36530
24	208	3,584	400	6,893	2.06500
25	263	4,943	325	6,108	2.25200
26	275	4,711	536	9,183	2.05300
27	253	4,324	272	4,649	2.04800
28	315	5,366	316	5,383	2.04140
29	243	4,487	240	4,432	2.21290
30		0		0	.00000
31		0		0	.00000
TOT	7906	140,688	15078	267,448	61.69390
AVERAGE DAY THIS MONTH	272	4,851	519	9,222	2.12738

PLANT- ST. REGIS-ANCELL 02

	---BOD---		-----SS-----		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	10	10	132	129	.11720
02	218	4,400	240	4,844	2.41850
03	233	4,878	510	10,677	2.50880
04	150	2,106	950	13,340	1.68270
05	308	5,456	890	15,765	2.12260
06	303	5,929	1185	23,186	2.34470
07	263	5,434	340	7,025	2.47610
08	310	5,482	320	5,659	2.11910
09	310	6,088	500	9,820	2.35350
10	273	5,052	690	12,768	2.21740
11	368	6,787	480	8,853	2.21010
12	295	6,898	290	6,781	2.80210
13	220	3,831	490	8,532	2.08650
14	228	4,006	180	3,163	2.10570
15	305	5,964	630	12,319	2.34320
16	510	9,013	340	6,009	2.11770
17	357	6,255	550	9,636	2.09950
18	400	6,259	340	5,320	1.87510
19	263	3,875	405	5,967	1.76560
20	275	4,270	380	5,900	1.86050
21	330	5,741	320	5,567	2.08480
22	110	1,201	325	3,549	1.30850
23	360	6,041	252	4,228	2.01070
24	254	3,946	360	5,593	1.86180
25	285	4,815	400	6,758	2.02470
26	360	5,589	225	3,493	1.86040
27	335	5,262	530	8,325	1.88220
28	328	2,080	730	4,629	.75580
29	300	5,003	470	7,838	1.99840
30	358	5,438	256	3,889	1.82030
31	310	4,676	150	2,263	1.80770
TOT	8929	151,785	13860	231,825	61.04590
AVERAGE DAY THIS MONTH					
	288	4,896	447	7,478	1.96922

PLANT- ST. REGIS-ANCELL 02

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	268	4,985	650	12,042	2.22010
02	143	2,214	855	13,237	1.85520
03	170	3,161	1420	26,408	2.22850
04	215	4,327	576	11,591	2.41150
05	283	5,263	484	9,000	2.22840
06	140	2,864	340	6,954	2.45100
07	135	3,246	330	7,934	2.88110
08	195	3,410	220	4,073	2.21860
09	288	4,928	250	4,277	2.05030
10	343	5,885	365	6,263	2.05610
11	120	2,241	452	8,440	2.23750
12	218	2,650	570	6,929	1.45680
13	80	1,182	530	7,834	1.77120
14	223	4,180	430	8,061	2.24630
15	243	3,519	500	7,241	1.73530
16	205	3,621	560	9,89	2.11690
17	215	3,749	530	9,24	2.08550
18	255	4,178	930	15,238	1.96350
19	248	4,006	420	6,785	1.93590
20	245	4,233	880	15,206	2.07060
21	380	6,932	420	7,662	2.18600
22	280	4,942	480	8,473	2.11520
23	115	411	1050	3,753	.42830
24	15	44	52	152	.35000
25	15	44	52	152	.35000
26	130	2,581	350	6,948	2.37880
27	610	10,621	570	9,924	2.08640
28	233	4,488	450	8,667	2.30800
29	280	4,869	785	13,652	2.08400
30	38	116	2540	7,728	.36460
31	24	36	1336	1,993	.17880
TOT	6352	109,106	19377	265,752	57.05440
AVERAGE DAY THIS MONTH					
	204	3,520	625	8,573	1.84046

WSM2

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 2
DATE 12/20/79
TIME 10.31.20

PLANT- ST. REGIS-ANGELL

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	183	2,796	800	11,591	1.73620
02	235	3,359	910	13,008	1.71290
03	285	4,414	900	13,940	1.85610
04	120	1,617	600	8,085	1.61470
05	150	2,071	435	6,007	1.63480
06	110	1,573	810	11,576	1.71550
07	210	3,665	540	6,300	1.99120
08	225	3,259	272	3,940	1.73590
09		0	260	3,750	1.72820
10	220	3,160	430	6,176	1.72120
11	240	3,353	260	3,633	1.67430
12	300	4,613	620	9,534	1.84270
13	55	771	430	6,025	1.67910
14	430	6,902	485	7,785	1.92350
15	319	4,737	500	7,448	1.78510
16	263	3,780	610	8,767	1.72230
17	307	4,532	620	9,366	1.81020
18	263	3,909	470	6,985	1.79090
19	188	3,093	595	16,372	1.97170
20	70	1,253	510	9,127	2.14460
21	128	1,005	1290	10,132	.94120
22	50	115	68	156	.27530
23	20	57	228	654	.34350
24	175	2,433	240	3,337	1.66610
25	239	3,964	332	5,530	1.99550
26	288	3,652	480	6,087	1.51970
27	165	4,213	285	7,278	3.06000
28	160	3,255	424	8,626	2.43800
29	193	3,566	565	10,439	2.21400
30	206	4,168	380	7,725	2.43620
31		0		0	.00000
TOT	5755	88,280	15749	229,999	52.23090
AVERAGE DAY THIS MONTH					
	193	2,948	524	7,667	1.74103

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PLANT- ST. REGIS-ANGELL 02

	---BOD------		-----SS------		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	240	3,430	490	7,002	1.71240
02	193	2,671	360	4,982	1.65840
03	230	3,090	720	9,673	1.60990
04	188	3,055	664	10,790	1.94720
05	310	4,461	620	8,923	1.72460
06	290	4,433	600	9,172	1.83180
07	220	3,090	740	10,394	1.68310
08	235	3,456	264	3,883	1.76240
09	180	2,386	740	9,808	1.58820
10	232	3,387	604	8,819	1.74940
11	370	5,207	1148	16,157	1.68650
12	250	3,630	640	9,294	1.74010
13	390	5,639	600	8,675	1.73250
14	185	2,450	676	8,953	1.58700
15	220	3,321	156	2,355	1.80870
16	238	3,721	610	9,536	1.87340
17	135	1,788	550	7,286	1.58740
18	233	3,749	320	5,149	1.92800
19	255	3,846	1340	20,211	1.80740
20	370	5,301	570	8,167	1.71690
21	318	4,539	840	11,991	1.71060
22	205	3,075	1060	15,898	1.79730
23	220	3,706	1700	28,637	2.01860
24	218	3,614	505	8,372	1.98670
25	210	3,114	280	4,151	1.77670
26	45	663	380	5,602	1.76660
27	245	3,721	405	6,152	1.82020
28	220	3,440	340	5,317	1.87390
29	208	2,691	1280	16,560	1.55030
30	338	4,969	610	8,968	1.76170
31	270	3,927	500	7,272	1.74280
TOT	7461	109,570	20312	298,148	54.54070
AVERAGE DAY THIS MONTH					
	240	3,535	655	9,618	1.75938

PLANT- ST. REGIS-ANCELL 02

DAY	---PCC--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	310	5,527	480	8,558	2.13640
02	202	3,668	360	6,536	2.17570
03	270	4,716	385	6,725	2.09310
04	255	4,322	624	10,575	2.03090
05	168	1,371	1000	8,161	.97800
06	243	3,549	200	2,921	1.74990
07	200	2,637	360	4,746	1.57980
08	165	2,607	200	3,159	1.89300
09	270	4,079	448	6,768	1.81040
10	240	3,720	820	12,711	1.85750
11	313	4,819	1740	26,791	1.84510
12	283	4,157	328	4,818	1.76020
13	288	4,508	564	8,827	1.87550
14	325	4,678	210	3,023	1.72480
15	235	3,291	580	8,122	1.67800
16	275	3,722	680	9,204	1.62200
17	350	4,765	1280	17,428	1.63160
18	355	5,510	1010	15,675	1.85980
19	220	3,163	440	6,326	1.72280
20	390	6,049	890	13,805	1.85870
21	360	5,146	360	5,146	1.71280
22	40	628	1420	22,305	1.88230
23	300	4,533	1430	21,608	1.81070
24	258	2,456	1260	11,993	1.14060
25	110	1,664	4920	74,417	1.81250
26	150	1,565	1950	20,351	1.25060
27	210	2,102	880	8,807	1.19930
28	213	3,460	320	5,199	1.94680
29	248	3,869	370	5,772	1.86540
30	150	2,042	380	5,173	1.63140
31		0		0	.00000
TOT	7396	108,323	25889	365,650	52.13960
AVERAGE DAY THIS MONTH					
	246	3,611	862	12,188	1.73799

WSM200 CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 2
DATE 9/11/79
TIME 13.35.17

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	340	897	236	623	.31630
02	365	5,225	650	9,304	1.71530
03	330	5,248	990	15,744	1.90570
04	120	2,075	670	11,585	2.07200
05	210	1,961	520	4,856	1.11910
06	200	748	1130	4,224	.44790
07	353	4,935	2670	37,325	1.67520
08	580	8,719	2010	30,216	1.80140
09	188	389	685	1,417	.24790
10	35	227	288	1,865	.77590
11	70	453	56	363	.77590
12	235	1,522	8	52	.77590
13	338	4,962	5210	74,938	1.72360
14	250	4,187	400	6,699	2.00700
15	258	3,934	600	9,149	1.82730
16	50	354	216	1,529	.84850
17	270	3,780	588	8,232	1.67760
18	343	4,644	1040	14,082	1.62260
19	268	4,751	800	14,183	2.12450
20	228	3,196	396	5,551	1.67970
21	233	3,680	740	11,686	1.89240
22	140	493	1150	4,050	.42200
23	188	2,512	760	10,155	1.60120
24	243	3,716	516	7,892	1.83270
25	233	4,144	470	8,358	2.13110
26	263	4,389	456	7,610	1.99980
27	278	4,729	510	8,675	2.03840
28	260	4,445	450	7,694	2.04890
29	303	5,337	400	7,045	2.11060
30	218	4,046	470	8,724	2.22420
31	261	4,647	180	3,205	2.13350
TOT	7651	104,245	25265	337,031	47.57410
AVERAGE DAY THIS MONTH	246	3,363	815	10,872	1.53465

WS4200 CITY OF BATTLE CREEK PAGE 2
FINAL EFFLUENT SHEET DATE 8/10/79
TIME 9.45.41

PLANT- ST. REGIS-ANGELL 02

	---BOD---		-----SS-----		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	300	6,461	780	16,799	2.[illegible]
02	170	495	1590	4,633	.3492[illegible]
03	15	13	4	3	.1043[illegible]
04	80	70	72	63	.1043[illegible]
05	145	2,043	200	2,818	1.6883[illegible]
06	213	5,457	380	9,736	3.07 [illegible]
07	275	5,131	570	10,733	2.2575[illegible]
08	215	4,303	530	10,608	2.3984[illegible]
09	293	5,589	455	8,679	2.2857[illegible]
10	248	4,716	535	8,664	1.9477[illegible]
11	320	6,366	1570	31,234	2.3142[illegible]
12	300	6,769	890	20,081	2.7037[illegible]
13	278	5,490	650	12,835	2.3663
14	293	5,530	630	11,891	2.2618[illegible]
15	90	1,705	430	8,145	2.2699[illegible]
16	196	4,111	570	11,957	2.5137[illegible]
17	290	7,108	920	22,550	2.9377[illegible]
18	420	8,235	1630	31,960	2.3456[illegible]
19	218	1,710	1340	6,207	.5551[illegible]
20	248	5,499	500	11,088	2.6573[illegible]
21	228	2,266	910	9,044	1.1906[illegible]
22	130	2,789	450	9,654	2.57 [illegible]
23	140	2,684	470	9,009	2.2978[illegible]
24	218	4,250	300	5,849	2.3364[illegible]
25	253	5,404	520	11,118	2.5597[illegible]
26	259	4,333	550	10,306	2.2455
27	300	5,158	700	11,989	2.0524[illegible]
28	195	3,214	390	6,423	1.9752
29	258	4,108	268	4,267	1.9[illegible]
30	258	3,905	300	4,541	1.8133[illegible]
31	100	1,461	980	14,316	1.7 [illegible]
TOT	6945	125,[illegible]5	20084	337,200	62.4783[illegible]
AVERAGE DAY THIS MONTH					
	224	4,049	647	10,877	2.0163

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	110	2,710	1310	32,271	2.95200
02	400	10,322	1200	30,965	3.09220
03	105	2,376	1590	35,984	2.71200
04	115	2,722	1540	36,455	2.83670
05	170	4,423	1800	46,837	3.11810
06	320	8,185	1350	34,532	3.06520
07	340	9,885	1040	30,235	3.48380
08	680	19,781	1020	29,671	3.48580
09	283	8,281	1100	32,186	3.50630
10	360	9,741	970	26,246	3.24240
11	420	9,607	1470	33,624	2.74100
12	190	3,837	920	18,579	2.41590
13	328	7,494	1030	23,531	2.73770
14	290	8,169	1290	36,337	3.37550
15	303	4,421	1430	20,867	1.74860
16	335	6,530	1400	27,291	2.33600
17	325	6,169	2250	42,707	2.27450
18	365	8,796	750	18,074	2.88780
19	248	6,172	600	14,932	2.98230
20	285	4,854	1290	21,969	2.04080
21	293	5,108	1610	28,067	2.08960
22	223	2,747	5220	64,300	1.47610
23	123	2,460	4200	83,995	2.39650
24	120	2,867	3020	72,153	2.86300
25	100	1,820	770	14,012	2.18060
26	255	5,285	1650	34,200	2.48380
27	290	5,161	610	10,857	2.13280
28	315	5,807	1230	22,676	2.20920
29	205	4,353	640	13,591	2.54470
30	363	8,202	700	15,816	2.70750
31		0		0	.00000
TOT	8259	188,285	45000	952,960	80.12180
AVERAGE DAY THIS MONTH	275	6,276	1500	31,765	2.67073

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
1		0		0	.00000
2		0		0	.00000
3		0		0	.00000
4		0		0	.00000
5		0		0	.00000
6		0		0	.00000
7		0		0	.00000
8		0		0	.00000
9		0		0	.00000
0		0		0	.00000
1		0		0	.00000
2		0		0	.00000
3		0		0	.00000
4		0		0	.00000
5		0		0	.00000
6		0		0	.00000
7		0		0	.00000
8		0		0	.00000
9		0		0	.00000
0		0		0	.00000
1		0		0	.00000
2		0		0	.00000
3		0		0	.00000
4		0		0	.00000
5	120	6,269	280	14,629	6.26067
6	30	628	68	1,423	2.50800
7	293	3,159	740	7,978	1.29200
8	198	3,635	860	15,789	2.22000
9	358	8,409	2170	50,972	2.81480
0	303	6,307	2260	47,044	2.49446
1		0		0	.00000
TOT	1302	28,407	6378	137,835	17.56960
AVERAGE DAY THIS MONTH	217	4,735	1063	22,973	2.92826

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CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 2
DATE 4/10/79
TIME 14.19.12

PLANT- ST. REGIS-ANGELL 02

DAY	BOD MG/L	BOD LBS.	SS MG/L	SS LBS.	FLOW
01	270	6,113	285	6,459	2.71530
02	240	5,967	360	8,950	2.97930
03	248	6,[illegible]33	445	10,826	2.91530
04	135	3,400	235	5,919	3.01820
05	200	5,041	320	8,065	3.02020
06	180	4,355	710	19,149	3.23200
07	188	4,645	320	7,907	2.96100
08	145	3,445	2[illegible]5	4,927	2.88030
09	200	4,733	330	7,818	2.83880
10	188	4,557	460	11,3[illegible]4	2.96830
11	185	336	1350	2,450	.21750
12		0		0	.00000
13		0		0	.00000
14		0		0	.0000
15		0		0	.00000
16		0		0	.00000
17		0		0	.00000
18		0		0	.0000
19		0		0	.00000
20		0		0	.00000
21		0		0	.00000
2[illegible]				0	.00
23		0		0	.00000
24		0		0	.000
25				0	.00000
26				0	.
27					.0[illegible]
28				0	.
29				0	.0[illegible]
3[illegible]				0	.0[illegible]
31				0	.0[illegible]
TOT	2179	43,[illegible]7	[illegible]	[illegible]3,[illegible]4	[illegible]9.7[illegible]
AVERAGE DAY THIS MONTH					
	[illegible]	4,[illegible]	456	8,[illegible]33	[illegible].7[illegible]

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CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 2
DATE 3/09/79
TIME 12.59.42

PLANT- ST. REGIS-ANGELL 02

	---BOD------		-----SS------		FLOW
DAY	MG/L	LBS.	MG/L	LBS.	
01	140	3,820	635	17,326	3.26960
02	203	6,254	548	16,884	3.69200
03	110	3,271	250	7,435	3.56380
04	275	7,520	235	6,426	3.27700
05	145	4,088	215	6,062	3.37870
06	195	5,461	485	13,583	3.35600
07	100	2,874	152	4,369	3.44420
08	173	5,438	200	6,287	3.76700
09	115	3,801	216	7,139	3.96050
10	135	4,131	156	4,773	3.66670
11	145	3,910	175	4,719	3.23160
12	125	3,372	208	5,611	3.23250
13	130	3,685	215	6,095	3.39700
14	140	3,730	270	7,194	3.19280
15	150	4,193	155	4,333	3.34960
16	168	4,938	180	5,291	3.52250
17	220	6,291	295	8,436	3.42660
18	160	4,202	155	4,070	3.14680
19	90	2,431	316	8,537	3.23730
20	160	3,633	208	4,723	2.72090
21	80	874	380	4,153	1.30950
22	175	4,094	432	10,107	2.80370
23	195	4,695	315	7,585	2.88540
24	165	3,881	285	6,703	2.81840
25	140	303	272	590	.25975
26	135	3,102	325	7,469	2.75380
27	270	6,101	455	10,281	2.70780
28	235	5,164	440	9,668	2.63300
29		0		0	.00000
30		0		0	.00000
31		0		0	.00000
TOT	4474	115,257	8173	205,849	86.00445
AVERAGE DAY THIS MONTH					
	159	4,116	291	7,352	3.07159

WSM200

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE 2
DATE 2/16/79
TIME 16.14.31

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	80	199	480	1,194	.29820
02	40	843	100	2,108	2.52590
03	225	5,040	332	7,436	2.68410
04	140	3,389	456	11,040	2.90120
05	130	3,353	265	6,835	3.09060
06	135	3,329	260	6,412	2.95520
07	170	4,067	252	6,029	2.86700
08	130	3,335	296	7,593	3.07400
09	125	2,975	248	5,902	2.85200
10	170	4,161	244	5,972	2.93310
11	197	4,984	208	5,262	3.03140
12	155	4,039	268	6,984	3.12270
13	205	5,334	670	17,432	3.11780
14	270	6,212	620	14,265	2.75710
15	90	2,421	96	2,583	3.22400
16	272	4,806	1520	26,855	2.11720
17	135	3,559	308	8,119	3.15890
18	150	4,164	292	8,106	3.32660
19	165	4,740	225	6,463	3.44220
20	160	4,428	212	5,867	3.31650
21	175	4,423	180	4,550	3.02900
22	140	3,796	248	6,724	3.24890
23	155	4,308	188	5,225	3.33050
24	190	5,330	144	4,039	3.36150
25	180	5,306	260	7,664	3.53240
26	135	3,719	128	3,526	3.30100
27	150	4,375	160	4,667	3.49520
28	245	5,852	168	4,013	2.86220
29	145	3,671	208	5,266	3.03410
30	100	1,636	540	8,836	1.96070
31	150	4,070	380	10,311	3.25170
TOT	4909	121,864	9956	227,278	91.20290
AVERAGE DAY THIS MONTH	158	3,931	321	7,332	2.94203

PLANT- ST. REGIS-ANGELL 02

	---BOD---		-----SS-----		FLOW
	MG/L	LBS.	MG/L	LBS.	
DAY					
01	105	1,975	216	4,062	2.25360
02	200	3,739	252	4,711	2.24020
03	165	2,953	204	3,651	2.14490
04	150	2,924	212	4,133	2.33630
05	233	4,662	264	5,283	2.39780
06	90	1,732	204	3,925	2.30560
07	210	4,409	336	7,055	2.51600
08	100	2,038	116	2,364	2.44230
09	188	3,742	116	2,309	2.38530
10	135	2,680	100	1,985	2.37910
11	155	3,229	108	2,250	2.49650
12	175	3,853	152	3,347	2.63850
13	130	2,968	108	2,466	2.73570
14	188	3,895	292	6,049	2.48250
15	183	3,671	132	2,648	2.40360
16	95	2,116	750	16,708	2.66960
17	193	4,396	272	6,195	2.72940
18	130	2,906	320	7,153	2.67850
19	150	3,056	136	2,771	2.44150
20	195	4,247	212	4,618	2.61010
21	180	3,652	140	2,841	2.43140
22	173	3,947	400	9,125	2.73380
23	144	300	480	1,000	.24960
24		0		0	.00000
25	115	239	560	1,165	.24940
26	110	2,284	88	1,827	2.48840
27	115	2,675	92	2,140	2.78710
28	85	1,954	80	1,839	2.75410
29	228	5,614	310	7,633	2.95060
30		0		0	.00000
31		0		0	.00000
TOT	4320	85,856	6652	121,253	65.93140
AVERAGE DAY THIS MONTH					
	154	3,066	237	4,330	2.35469

FINAL EFFLUENT SHEET

TIME 13.2

PLANT- ST. REGIS-ANGELL 02

D.	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	195	4,519	172	4,004	2.78950
02	180	4,244	144	3,395	2.82530
03	170	3,841	152	3,435	2.70770
04	149	3,197	128	2,822	2.64200
05	240	5,148	356	7,636	2.57040
06	180	4,082	260	5,867	2.70410
07	145	3,114	100	2,299	2.75500
08	188	4,416	172	4,040	2.81470
09	264	2,070	1032	8,121	.94300
10	169	3,422	176	3,651	2.48560
11	230	4,558	168	3,330	2.37500
12	178	3,494	200	4,038	2.41950
13	191	4,174	240	5,190	2.59160
14	148	3,120	380	8,011	2.52620
15	241	5,128	312	6,584	2.52880
16	258	5,611	396	8,613	2.60630
17	300	6,144	376	7,951	2.53390
18	240	5,144	390	8,684	2.66830
19	218	4,738	324	7,042	2.60460
20	229	5,690	340	8,598	3.03020
21	241	6,614	372	9,820	3.16320
22	154	481	276	835	.36270
23	154	540	276	938	.40710
24	14	0	276	0	.00000
	12	0	276	0	.00000
26	14	138	276	521	.22630
27	10	1,223	180	3,145	2.09370
28	1	18	176	3,179	2.16470
29	180	3,403	216	4,084	2.26570
30	154	3,020	408	7,950	2.33490
TOT	5241	101,811	8550	143,783	64.14000
AVERAGE	DAY THIS MONTH				
	174	3,394	285	4,793	2.13800

WSM200

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

PAGE
DATE 11/
TIME 9.

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	160	3,425	252	5,394	2.56490
02	130	2,923	272	6,116	2.69450
03	145	3,144	292	6,331	2.59820
04	178	3,996	232	5,209	2.69030
05	210	4,748	204	4,612	2.70920
06	5	118	208	4,909	2.82820
07	195	4,492	196	4,515	2.76040
08	155	3,508	368	8,328	2.71180
09	75	1,885	176	4,422	3.01110
10	205	5,776	248	6,987	3.37620
11	105	1,927	392	7,195	2.19950
12	175	3,423	336	6,572	2.34380
13	65	1,317	380	7,697	2.42710
14	215	4,429	436	8,982	2.46870
15	180	3,849	304	6,501	2.56260
16	170	4,088	264	6,348	2.88160
17	185	4,616	196	4,890	2.98980
18	145	3,775	220	5,728	3.12910
19	150	4,014	276	7,386	3.20700
20	60	1,616	340	9,160	3.22840
	195	5,122	148	3,888	3.14780
	135	3,548	240	6,307	3.14900
23	85	2,143	148	3,732	3.02180
24	80	2,010	128	3,217	3.01150
25	145	3,585	96	2,374	2.96300
26	130	3,201	104	2,561	2.95100
27	65	1,735	188	5,017	3.19780
28	130	2,148	244	4,032	1.98040
29	148	3,246	148	3,246	2.62820
30	175	4,270	144	3,513	2.92380
31	208	4,733	164	3,731	2.72650
TOT	4404	102,810	7344	168,900	87.07420
AVERAGE DAY THIS MONTH	142	3,316	236	5,448	2.80885

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	300	7,706	280	7,192	3.07790
02	290	707	912	2,225	.29230
03	290	731	1545	3,894	.30200
04	280	0	2810	0	.00000
05	210	4,226	144	2,898	2.41160
06	250	5,558	184	4,091	2.66400
07	185	4,231	384	8,782	2.74060
08	145	3,868	120	3,201	3.19640
09	250	7,319	176	5,153	3.50830
10	285	8,119	208	5,925	3.41370
11	205	5,714	84	2,341	3.33990
12	175	4,379	96	2,402	2.99880
13	188	4,492	104	2,485	2.86350
14	115	2,440	94	1,994	2.54260
15	145	3,359	208	4,819	2.77620
16	323	6,341	160	3,141	2.35260
17	253	5,146	148	3,010	2.43750
18	175	3,534	140	2,827	2.42000
19	265	5,370	304	6,160	2.42830
20	185	4,275	324	7,487	2.76910
21	80	1,593	196	3,904	2.38670
22	180	3,677	120	2,451	2.44770
23	213	4,439	144	3,001	2.49760
24	190	4,083	196	4,212	2.57540
25	125	2,558	80	1,637	2.45220
26	165	3,308	72	1,444	2.40260
27	150	3,034	76	1,537	2.42350
28	55	1,201	268	5,854	2.61740
29	45	855	365	6,936	2.27730
30	160	3,391	184	3,900	2.54000
TOT	5877	115,654	10126	114,903	73.15570
AVERAGE DAY THIS MONTH	195	3,855	337	3,830	2.43852

RECEIVED
OCT 12 1978
PUBLIC WORKS DEPT.
CITY OF BATTLE CREEK
MICHIGAN

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	235	5,014	430	9,175	2.55690
02	280	5,740	116	2,378	2.45650
03	180	3,774	108	2,265	2.51270
04	200	4,050	182	3,686	2.42670
05	180	4,013	160	3,567	2.67170
06	120	2,491	272	5,647	2.48780
07	245	4,157	484	8,211	2.03300
08	295	6,609	268	6,004	2.68480
09	235	5,540	370	8,722	2.82490
10	213	5,533	260	6,754	3.11280
11	220	5,733	216	5,629	3.12260
12	333	8,029	200	4,822	2.88930
13	325	7,314	264	5,941	2.69690
14	303	7,042	244	5,671	2.78500
15	255	6,054	320	7,597	2.84460
16	180	4,109	175	3,995	2.73540
17	160	3,976	220	5,467	2.97800
18	365	1,342	270	993	.44060
19		0		0	.00000
20	570	0	320	0	.00000
21	150	2,810	128	2,398	2.24520
22	110	2,323	106	2,238	2.53040
23	100	2,316	80	1,853	2.77580
24	160	3,853	115	2,770	2.88600
25	253	6,155	160	3,893	2.91530
26	260	6,237	120	2,879	2.87450
27	298	7,212	240	5,647	2.81960
28	265	6,472	280	6,838	2.92640
29	200	4,586	160	3,668	2.74750
30	205	4,461	164	3,568	2.60740
31	223	4,945	222	4,923	2.65740
TOT	7118	141,690	6654	137,199	76.24590
AVERAGE DAY THIS MONTH	237	4,723	221	4,573	2.54153

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PUBLIC WORKS DEPT.
CITY OF BATTLE CREEK
MICHIGAN

PLANT- ST. REGIS-ANGELL

02

DAY	---BOD--- MG/L	LBS.	-----SS------ MG/L	LBS.	FLOW
01	225	5,464	305	7,406	2.90980
02	190	4,891	372	9,576	3.08480
03		0		0	.37130
04	405	1,155	3375	9,627	.34180
05	198	4,035	160	3,261	2.44220
06	188	4,262	176	3,990	2.71640
07	195	4,789	262	6,434	2.94270
08	198	4,862	196	4,813	2.94240
09	200	4,855	160	3,884	2.90880
10	130	3,390	156	4,068	3.12520
11	115	1,637	398	5,664	1.70540
12	185	4,361	150	3,536	2.82460
13	218	5,333	192	4,697	2.93140
14	230	5,924	220	5,667	3.08660
15	185	4,661	208	5,240	3.01900
16	200	4,777	152	3,631	2.86220
17	215	5,090	324	7,670	2.83690
18	145	3,549	420	10,278	2.93260
19	145	2,892	480	9,575	2.39040
20	130	3,112	154	3,687	2.86860
21	145	3,732	240	6,177	3.08430
22	200	5,185	332	8,608	3.10680
23	198	4,929	283	7,045	2.98320
24	130	3,221	226	5,599	2.96870
25	230	5,773	260	6,526	3.00760
26	168	4,318	316	8,123	3.08030
27	200	5,128	280	7,179	3.07230
28	125	3,281	192	5,039	3.14510
29	135	3,105	225	5,174	2.75570
30	300	6,665	320	7,110	2.66240
31	220	4,982	320	7,247	2.71390
TOT	5748	129,358	10854	186,531	83.82340
AVERAGE DAY THIS MONTH	185	4,173	350	6,017	2.70398

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	-----SS----- MG/L	LBS.	FLOW
01	233	4,021	410	7,076	2.06800
02	320	7,913	244	6,034	2.96340
03	195	4,782	140	3,433	2.93880
04	205	4,992	456	11,104	2.91800
05	243	6,146	498	12,595	3.03070
06	145	3,764	320	8,308	3.11100
07	213	5,799	244	6,643	3.26260
08	225	6,232	372	10,304	3.31920
09	238	6,823	102	2,924	3.43560
10	170	4,660	188	5,154	3.28490
11	173	4,396	280	7,115	3.04510
12	150	3,842	283	7,248	3.06920
13	235	6,114	328	8,534	3.11780
14	198	5,247	252	6,679	3.17580
15	185	4,912	200	5,310	3.18170
16	275	7,089	228	5,877	3.08890
17	183	5,053	266	7,344	3.30860
18	163	4,520	166	4,603	3.32300
19	125	3,504	264	7,401	3.35950
20	145	3,849	234	6,211	3.18080
21	188	4,954	234	6,167	3.15790
22	205	5,524	242	6,521	3.22880
23	193	5,295	254	6,968	3.28750
24	145	4,340	210	6,286	3.58680
25	253	7,693	826	25,117	3.64390
26	220	6,551	410	12,209	3.56840
27	203	5,803	526	15,036	3.42550
28	255	6,571	292	7,524	3.08780
29	215	5,358	360	8,972	2.98640
30	213	5,469	246	6,316	3.07660
31		0		0	.00000
TOT	6109	161,216	9075	241,013	95.23220
AVERAGE DAY THIS MONTH	203	5,374	302	8,034	3.17441

WSM200

CITY OF BATTLE CREEK
FINAL EFFLUENT SHEET

DATE 6/13/78
TIME 14.41.46

PLANT- ST. REGIS-ANGELL 02

DAY	---BOD--- MG/L	LBS.	---SS--- MG/L	LBS.	FLOW
01	230	5,273	106	2,430	2.74720
02	198	4,526	140	3,200	2.73900
03	215	5,452	304	7,710	3.03900
04	370	5,727	1605	24,843	1.85480
05	225	5,243	124	2,890	2.79250
06	195	4,333	132	2,933	2.66250
07	255	5,740	202	4,547	2.69740
08	238	5,446	378	8,649	2.74180
09	198	4,528	110	2,516	2.74040
10	190	4,545	160	3,827	2.86660
11	238	3,254	322	4,403	1.63850
12	185	4,409	220	5,243	2.85580
13	165	4,079	290	7,169	2.96220
14	230	5,311	260	6,004	2.76720
15	228	5,461	284	6,802	2.87020
16	240	6,043	242	6,093	3.01710
17	248	5,886	330	7,833	2.84430
18	238	5,598	180	4,234	2.81880
19	275	6,807	164	4,059	2.96610
20	283	6,746	140	3,337	2.85640
21	203	4,596	198	4,483	2.71330
22	163	3,751	236	5,431	2.75770
23	198	4,812	304	7,388	2.91210
24	208	5,205	180	4,504	2.99840
25	220	5,666	308	7,932	3.08610
26	198	4,908	184	4,803	3.12810
27	213	5,617	276	7,279	3.16030
28				0	.28790
29	330	665	4210	8,477	.24130
30	110	2,133	338	6,554	2.32370
31	208	4,626	288	6,405	2.66500
TOT	6685	146,386	12215	181,978	80.75170
AVERAGE DAY THIS MONTH	215	4,722	394	5,870	2.60489