

**Environmental
Protection Agency**

Ted Strickland, Governor
Lee Fisher, Lt. Governor
Chris Korleski, Director

March 19, 2010

Tom Welbaum, Village Administrator
Village of Ansonia
P.O. Box 607
Ansonia, OH 45303

**RE: Compliance Evaluation Inspection (CEI)
Village of Ansonia Wastewater Treatment System
NPDES Permit # 1PB00005*KD/OH0023884**

Mr. Welbaum,

On March 10, 2010, I met with you and Don Demange, Public Works Director, in order to review compliance of the wastewater treatment facility and collection system. A number of items were identified that require improvement. These items are discussed in detail in the attached inspection report. Overall the facility was rated as "Marginal".

A response to this inspection report is requested. Provide a response to the items listed under the heading "Items Requiring a Response by **April 12, 2010**. Should you have any questions, I can be reached at (937) 285-6109 or joe.miller@epa.state.oh.us.

Sincerely,



Joe Miller
Division of Surface Water

ec: Darke County Health Department
Gretchen Fickle, DEFA

Overview

The Village of Ansonia's collection system was formerly a 100% combined sewer system. Following the completion of sewer separation projects, the system is now approximately 95% separated. The Village obtained American Recovery and Reinvestment Act (ARRA) funding to complete the sewer separation and to address some items missed by previous separation work completed. This work is currently underway. Some additional separation work that includes additional sewer lines and manholes will require the submittal of a Permit to Install (PTI). The combined sewer overflows have not been removed/sealed as part of the past projects. Upon completion of the ongoing ARRA project, combined sewer overflows #10, #11, and #12 are expected to be eliminated.

An unpermitted overflow was recently discovered originating in a sewer in the lumber yard. This combined sewer overflow (#13) will also be eliminated with the completion of the current ARRA project.

The Village operates a facultative two-cell lagoon treatment system that discharges to the Stillwater River at the confluence with the North Fork of the Stillwater River. The average daily design flow (ADDF) for the wastewater facility is 0.35 MGD. The average reported flow over the past two years is 0.16 MGD, however, the flow meter has been out of service the majority of this time so this an estimate only.

The Village intends to submit a PTI for the installation of lagoon transfer structures to help draw from clear zones and allow flexibility in discharge with respect to water column depth. The PTI is expected to include a new flow meter and sanitary sewer line for the High Street area. Currently, the operator has limited ability to change the depth of discharge, which often results in the bright green algal discharge noted in the past.

Effluent Violations

The Ansonia wastewater treatment lagoons have historically had difficulty meeting the water quality standard effluent pH limitation of 9 standard units (pH is required to be between 6.5 and 9.0 S.U.). The final effluent discharge has been in Significant Non-Compliance (SNC) with regards to this limitation. As discussed in previous inspection reports, this issue needs to be addressed. Effluent limitation violations are listed for the period of June 2008 to February 2010.

Two solar bee aerators have been installed, one in each of the treatment lagoons. The dates of installation were September 2007 and April 2009. The solar bees were installed to combat effluent violations. As noted in the attached violations list, exceedance of effluent pH limitations continues to be problematic.

Typically, Don DeMange has provided effluent non-compliance notification as required by the NPDES permit. However, not all of the listed violations were followed by non-compliance notification. Please note the requirements of notification listed in Part III, Item 12 of your NPDES permit.

Total Phosphorus Limitation

A Schedule of Compliance in your NPDES permit requires this facility to meet a total phosphorus limitation of 1.0 mg/l by January 1, 2011. A Permit to Install (PTI) for any improvements necessary to meet this limitation was due by January 1, 2009.

You may want to contact Ohio EPA's compliance assistance unit for technical input regarding phosphorus removal in lagoon treatment systems. Contact information can be obtained at http://www.epa.ohio.gov/dsw/compl_assist/compasst.aspx.

At the time of the inspection, I mentioned the Miami Conservancy District's nutrient trading program. If you would like additional information about this program, you can obtain additional information at http://www.miamiconservancy.org/water/quality_credit.asp.

Laboratory Criteria

I conducted a cursory review of the laboratory procedures during the inspection. For your convenience, I have enclosed a laboratory inspection checklist for your review. Items that I noted during the inspection that require attention include the use of a refrigerator during composite sampling and the need for daily calibration when doing pH testing.

Another item discussed was the incidence of fecal coliform tests not reaching the laboratory within the 6 hour holding time. Make sure that arrangements are made with your contract laboratory to ensure fecal coliform samples are analyzed with the holding time or sampling times are altered to meet sample holding time.

ITEMS REQUIRING A RESPONSE

- 1. Effluent Violations/pH** - Provide a plan for bringing the wastewater discharge into compliance with the effluent limitations. Specifically, a plan to discharge effluent within the permitted range of pH should be provided.
- 2. Flow Metering** – Provide a plan for replacing/repairing the flow meter. Flow metering is an integral part of monitoring and needs to be replaced or repaired as soon as possible. This has been a longstanding issue with the Ansonia WWTF.
- 3. Total Phosphorus** – Provide an update on the plans to meet the total phosphorus effluent limitation of 1.0 mg/l.
- 4. Composite Sampling** – Composite samples are required to be refrigerated during collection. The current practice of composite sampling does not include refrigeration. Provide a plan to provide refrigeration on-site during composite sampling.
- 5. QA/QC Program** – Analytical sampling programs need to include a Quality Assurance/Quality Control Plan to ensure consistency and accuracy. Provide a plan for implementing a QA/QC program. Enclosed is a listing of the recommended elements of a laboratory QA/QC plan. This plan has been requested in past inspections as well.

Village of Ansonia Effluent Limitation Violations (June 2008 to February 2010)

Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
00300	Dissolved Oxygen	1D Conc	5.0	4.9	6/4/2008
00400	pH	1D Conc	9.0	9.1	7/1/2008
00400	pH	1D Conc	9.0	9.1	7/3/2008
00400	pH	1D Conc	9.0	9.1	7/10/2008
00400	pH	1D Conc	9.0	9.1	7/15/2008
00400	pH	1D Conc	9.0	9.1	7/16/2008
00400	pH	1D Conc	9.0	9.1	7/17/2008
00400	pH	1D Conc	9.0	9.1	7/25/2008
00400	pH	1D Conc	9.0	9.1	7/29/2008
00400	pH	1D Conc	9.0	9.1	8/12/2008
00400	pH	1D Conc	9.0	9.4	9/9/2008
00400	pH	1D Conc	9.0	9.1	9/15/2008
00400	pH	1D Conc	9.0	9.1	9/17/2008
00400	pH	1D Conc	9.0	9.2	9/18/2008
00400	pH	1D Conc	9.0	9.1	9/19/2008
00400	pH	1D Conc	9.0	9.2	10/8/2008
00400	pH	1D Conc	9.0	9.2	10/10/2008
00400	pH	1D Conc	9.0	9.2	10/13/2008
00400	pH	1D Conc	9.0	9.1	10/14/2008
00400	pH	1D Conc	9.0	9.1	10/16/2008
00400	pH	1D Conc	9.0	9.1	10/21/2008
00400	pH	1D Conc	9.0	9.2	10/22/2008
00400	pH	1D Conc	9.0	9.1	10/29/2008
00400	pH	1D Conc	9.0	9.2	11/11/2008
00400	pH	1D Conc	9.0	9.1	11/12/2008
00400	pH	1D Conc	9.0	9.1	11/13/2008
00400	pH	1D Conc	9.0	9.2	11/14/2008
00400	pH	1D Conc	9.0	9.1	11/17/2008
00400	pH	1D Conc	9.0	9.1	11/18/2008
00400	pH	1D Conc	9.0	9.1	11/19/2008
00400	pH	1D Conc	9.0	9.2	11/20/2008
00400	pH	1D Conc	9.0	9.1	11/24/2008
00400	pH	1D Conc	9.0	9.2	11/26/2008
00400	pH	1D Conc	9.0	9.3	12/1/2008
00400	pH	1D Conc	9.0	9.1	12/3/2008
00400	pH	1D Conc	9.0	9.1	12/4/2008
00400	pH	1D Conc	9.0	9.1	12/5/2008
00400	pH	1D Conc	9.0	9.1	12/11/2008
00400	pH	1D Conc	9.0	9.2	12/12/2008
00400	pH	1D Conc	9.0	9.3	12/15/2008
00400	pH	1D Conc	9.0	9.4	12/16/2008
00400	pH	1D Conc	9.0	9.3	12/17/2008
00400	pH	1D Conc	9.0	9.1	12/18/2008
00400	pH	1D Conc	9.0	9.2	12/19/2008
00400	pH	1D Conc	9.0	9.2	12/22/2008
00400	pH	1D Conc	9.0	9.2	12/23/2008
00400	pH	1D Conc	9.0	9.2	12/29/2008
00400	pH	1D Conc	9.0	9.6	12/30/2008
00400	pH	1D Conc	9.0	9.4	12/31/2008
00400	pH	1D Conc	9.0	9.3	1/1/2009
00400	pH	1D Conc	9.0	9.2	1/2/2009
00400	pH	1D Conc	9.0	9.1	1/13/2009

00400	pH	1D Conc	9.0	9.1	1/20/2009
00610	Nitrogen, Ammonia (NH3)	30D Conc	3.5	3.9225	2/1/2009
00400	pH	1D Conc	9.0	9.2	3/23/2009
00400	pH	1D Conc	9.0	9.4	3/24/2009
00400	pH	1D Conc	9.0	9.2	3/25/2009
00400	pH	1D Conc	9.0	9.3	3/26/2009
00400	pH	1D Conc	9.0	9.4	3/27/2009
00400	pH	1D Conc	9.0	9.1	3/30/2009
00400	pH	1D Conc	9.0	9.4	3/31/2009
80082	CBOD 5 day	30D Conc	25	29.0625	4/1/2009
00400	pH	1D Conc	9.0	9.2	4/1/2009
00400	pH	1D Conc	9.0	9.3	4/2/2009
00400	pH	1D Conc	9.0	9.3	4/3/2009
00400	pH	1D Conc	9.0	9.2	4/6/2009
00400	pH	1D Conc	9.0	9.1	4/7/2009
00400	pH	1D Conc	9.0	9.3	4/8/2009
00400	pH	1D Conc	9.0	9.3	4/10/2009
00400	pH	1D Conc	9.0	9.2	4/13/2009
00400	pH	1D Conc	9.0	9.3	4/14/2009
00400	pH	1D Conc	9.0	9.2	4/17/2009
00400	pH	1D Conc	9.0	9.1	4/20/2009
00400	pH	1D Conc	9.0	9.3	4/23/2009
00400	pH	1D Conc	9.0	9.2	4/24/2009
00400	pH	1D Conc	9.0	9.1	4/27/2009
00400	pH	1D Conc	9.0	9.1	4/28/2009
00400	pH	1D Conc	9.0	9.1	5/19/2009
00400	pH	1D Conc	9.0	9.1	5/21/2009
00400	pH	1D Conc	9.0	9.2	6/1/2009
00400	pH	1D Conc	9.0	9.2	6/2/2009
00400	pH	1D Conc	9.0	9.3	6/8/2009
00400	pH	1D Conc	9.0	9.2	7/14/2009
00400	pH	1D Conc	9.0	9.4	7/28/2009
00400	pH	1D Conc	9.0	9.4	7/29/2009
00530	Total Suspended Solids	30D Conc	65	87.125	8/1/2009
00530	Total Suspended Solids	30D Qty	86	136.340	8/1/2009
80082	CBOD 5 day	30D Conc	25	34.6625	8/1/2009
80082	CBOD 5 day	30D Qty	33.1	70.7553	8/1/2009
00400	pH	1D Conc	9.0	9.1	8/4/2009
00400	pH	1D Conc	9.0	9.3	8/5/2009
00530	Total Suspended Solids	7D Conc	90	162.5	8/15/2009
00530	Total Suspended Solids	7D Qty	119	453.840	8/15/2009
80082	CBOD 5 day	7D Conc	40	85.55	8/15/2009
80082	CBOD 5 day	7D Qty	53.0	256.893	8/15/2009
00400	pH	1D Conc	9.0	9.1	8/19/2009
00400	pH	1D Conc	9.0	9.3	8/20/2009
00400	pH	1D Conc	9.0	9.2	8/24/2009
00400	pH	1D Conc	9.0	9.3	8/25/2009
00400	pH	1D Conc	9.0	9.2	8/26/2009
00400	pH	1D Conc	9.0	9.1	8/27/2009
00400	pH	1D Conc	9.0	9.1	9/2/2009
00400	pH	1D Conc	9.0	9.2	9/4/2009
00400	pH	1D Conc	9.0	9.3	9/8/2009
00400	pH	1D Conc	9.0	9.1	9/14/2009
00400	pH	1D Conc	9.0	9.2	9/15/2009
00400	pH	1D Conc	9.0	9.1	9/17/2009
00400	pH	1D Conc	9.0	9.1	9/21/2009

00400	pH	1D Conc	9.0	9.3	9/22/2009
00610	Nitrogen, Ammonia (NH3)	30D Conc	3.5	4.51125	1/1/2010
00300	Dissolved Oxygen	1D Conc	5.0	4.2	1/22/2010
00610	Nitrogen, Ammonia (NH3)	30D Conc	3.5	4.80625	2/1/2010
00610	Nitrogen, Ammonia (NH3)	7D Conc	5.3	5.555	2/22/2010



State of Ohio Environmental Protection Agency
Southwest District Office

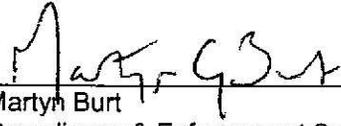
NPDES Compliance Inspection Report

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
1PB00005*KD	OH0023884	3/10/2010	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Village of Ansonia Wastewater Treatment Facility North Main Street Ansonia, OH 45303	9:20 AM	January 1, 2008
	Exit Time	Permit Expiration Date
	12:20 PM	December 31, 2012
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Tom Welbaum, Village Administrator Don DeMange, Public Works Director	937-337-6781 937-337-6781	
Name, Address and Title of Responsible Official	Phone Number	
Mayor and Council Village of Ansonia 202 North Main Street, P.O. Box 607 Ansonia, OH 45303	937-337-6781	

Section C: Areas Evaluated During Inspection					
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)					
S	Permit	U	Flow Measurement	S	Pretreatment
S	Records/Reports	M	Laboratory	M	Compliance Schedule
S	Operations & Maintenance	U	Effluent/Receiving Waters	S	Self-Monitoring Program
S	Facility Site Review	N	Sludge Storage/Disposal	S	Other
M	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)
See attached.

Inspector	Reviewer
 Date: 3/19/10 Joe Miller Division of Surface Water Southwest District Office	 Date: 3/19/2010 Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office

Sections E thru K: Complete on all inspections as appropriate
Y – Yes, N – No, N/A – Not Applicable, N/E – Not Evaluated

Section E: Permit Verification

Inspection observations verify the permit

- (a) Correct name and mailing address of permittee Y
- (b) Correct name and location of receiving waters..... Y
- (c) Product(s) and production rates conform with permit application (Industries)..... N/A
- (d) Flows and loadings conform with NPDES permit..... Y
- (e) Treatment processes are as described in permit application... Y
- (f) New treatment process(es) added since last inspection..... N
- (g) Notification given to State of new, different or increased discharges..... N/A
- (h) All discharges are permitted..... Y
- (i) Number and location of discharge points are as described in permit..... Y

Comments/Status:

Section F: Compliance

- (a) Any significant violations since the last inspection..... Y
- (b) Permittee is taking actions to resolve violations..... Y
- (c) Permittee has a compliance schedule..... Y
- (d) Compliance schedule contained in NPDES Permit
- (e) Permittee is meeting compliance schedule..... Y/N

Comments/Status:

Facility is in Significant Non-Compliance with regards to the effluent limitations for Nitrogen, Ammonia.

Ansonia has compliance schedules for the separation of the combined sewer system and the reduction of effluent total phosphorus. A request to extend the dates for final compliance has been received and is being considered.

Section G: Operation & Maintenance

Treatment Works:

Treatment facility properly operated and maintained
 (portable)

- (a) Standby power available.....generator or dual feed Y
- (b) Adequate alarm system available for power or equipment failures.. Y
- (c) All treatment units in service other than backup units..... Y
- (d) Wastewater Treatment Works classification (OAC 3745-7)..... I
- (e) Operator of Record holds unexpired license of class required by permit..... Y
 Class: I
- (f) Copy of certificate of Operator of Record displayed on-site..... Y
- (g) Minimum operator staffing requirements fulfilled (OAC 3745-7)... Y
- (h) Routine and preventative maintenance scheduled/performed... Y
- (i) Any major equipment breakdown since last inspection..... N
- (j) Operation and maintenance manual provided and maintained..... Y
- (k) Any plant bypasses since last inspection..... Y
- (l) Regulatory agency notified of bypasses..... Y
 On eDMRs and/or Spill Hotline (1-800-282-9378)
- (m) Any hydraulic and/or organic overloads since last inspection..... N

Record Keeping:

- (a) Log book provided..... Y
- (b) Format of log book (i.e. computer log, hard bound book)

Spiral bound notebook
- (c) Log book(s) kept onsite (in an area protected from weather)..... Y
- (d) Log book contains the following:
 - I. Identification of treatment works..... Y
 - II. Date/times of arrival/departure for Operator of Record and any other operator required by OAC 3745-7..... Y
 - III. Daily record of operation and maintenance activities (including preventative maintenance, repairs and request for repairs)..... Y
 - IV. Laboratory results (unless documented on bench sheets)... N
 - V. Identification of person making log entries..... Y
- (d) Has the operator of record submitted written notification to the permittee, Ohio EPA and (if applicable) any local environmental agencies when a collection system overflow, treatment plant bypass or effluent limit violation has occurred..... Y

Section G: Operation & Maintenance (con't)

Collection System:

- (a) Percent combined system: 95 %
- (b) Any collection system overflows since last inspection..... Y
(CSO and/or SSO)
- (c) Regulatory agency notified of overflows (SSOs)..... N/A
- (d) CSO O&M plan provided and implemented..... Y
- (e) CSOs monitored and reported in accordance with permit..... Y
- (f) Portable pumps used to relieve system..... Y
- (g) Lift station alarms provided and maintained..... Y
- (h) Are lift stations equipped with permanent standby power
or equivalent..... N
- (i) Is there an inflow/infiltration problem (~~separate sewer system~~),
or were there any major repairs to collection system since
last inspection..... Y
- (j) Any complaints received since last inspection of basement flooding N
- (k) Are any portions of the sewer system at or near capacity..... Y

Comments/Status:

Combined sewer separation project continues to progress. ARRA funding obtained to address outstanding issues (cross connections, combined sewer overflows, etc.) to finish the separation of the collection system.

Combined sewer overflows #10 and #11 (next to old railroad bed), and #12 (at WTP) to be eliminated with the completion of the current ARRA project.

Four lift stations (daily checks at each)

- 1. Main lift station at Stillwater River
- 2. Water tower
- 3. Church property
- 4. Mobile Home Park

3" portable pumps available for 3 smaller lift stations
portable generator available for main lift station
MHP pumps to be replaced in near future.

Section H: Sludge Management

- (a) Sludge management plan (SMP)
Submitted date: _____ Approval #: _____ Not submitted N/A
- (b) Sludge management plan current..... N/E
- (c) Sludge adequately disposed..... N/E
(Method: _____)
- (d) If sludge is incinerated, where is ash disposed of _____
- (e) Is sludge disposal contracted..... N
(Name: _____)
- (f) Has amount of sludge generated changed significantly since
last inspection..... N/E
- (g) Adequate sludge storage provided at plant..... N/A
- (h) Land application sites monitored and inspected per SMP..... N/A
- (i) Records kept in accordance with State and Federal law..... N/E
- (j) Any complaints received in last year regarding sludge..... N/A
- (k) Is sludge adequately processed (digestion, pathogen control)..... N/A

Comments/Status:

Approximately 12" sludge blanket in lagoon. Using biological additive to reduce sludge accumulation.

Section I: Self-Monitoring Program

Flow Measurement:

- (a) Primary flow measuring device operated and maintained..... N
Type of device: Ultrasonic & Parshall flume Ultrasonic & Weir Weir
Calculated from influent Other (Specify: _____)
- (b) Calibration frequency adequate N
(Date of last calibration: _____)
- (c) Secondary instruments operated and maintained..... N
- (d) Flow measurement equipment adequate to handle full range
of flows..... N/A
- (e) Actual flow discharged is measured..... Y
- (f) Flow measuring equipment inspection frequency
 Daily Weekly monthly other

Comments/Status:

Flow meter inoperable; needs to be replaced.

Section I: Self-Monitoring Program (con't)

Sampling:

- (a) Sampling location(s) are as specified by permit..... Y
- (b) Parameters and sampling frequency agree with permit..... Y
- (c) Permittee uses required sampling method..... Y
- (d) Sample collection procedures are adequate..... N
 - (i) Samples refrigerated during compositing..... N
 - (ii) Proper preservation techniques used..... Y
 - (iii) Containers and sample holding times prior to analysis conform with 40 CFR 136.3..... N
- (e) Monitoring records (i.e., flow, pH, DO) maintained for a minimum of three years including all original strip chart recordings (i.e, continuous monitoring instrumentation, calibration and maintenance records)..... Y
- (f) Adequate records maintained of sampling date, time, location, etc.. Y

Laboratory:

General

- (a) EPA approved analytical testing procedures used (40 CFR 136.3).. Y
 - (b) If alternate analytical procedures are used, proper approval has been obtained..... N/A
 - (c) Analyses being performed more frequently than required by permit. N
 - (d) If (c) is yes, are results in permittee's self-monitoring report..... N/A
 - (e) Commercial laboratory used..... Y
- Parameters analyzed by commercial lab:

Lab name: Belmont Laboratories

Quality Control/Quality Assurance

- (f) Quality assurance manual provided and maintained..... N
- (g) Satisfactory calibration and maintenance of instruments/equipment. N
- (h) Adequate records maintained..... N
- (i) Results of latest USEPA quality assurance performance sampling program: Satisfactory Marginal Unsatisfactory

Date:

Comments/Status:

In-house testing of temperature, pH, and dissolved oxygen.

Composite samples are not being refrigerated as required.

Fecal coliform samples must be delivered to the lab for analysis within six hours of collection.

Permit # : 1PB00005*KD
NPDES #: OH0023884

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Section J: Effluent/Receiving Water Observations

Outfall Number	Outfall sign in place?	Oil sheen	Grease	Turbidity	Foam	Solids	Color	Other
001	no	No	No	No	No	No	clear	

Comments/Status:

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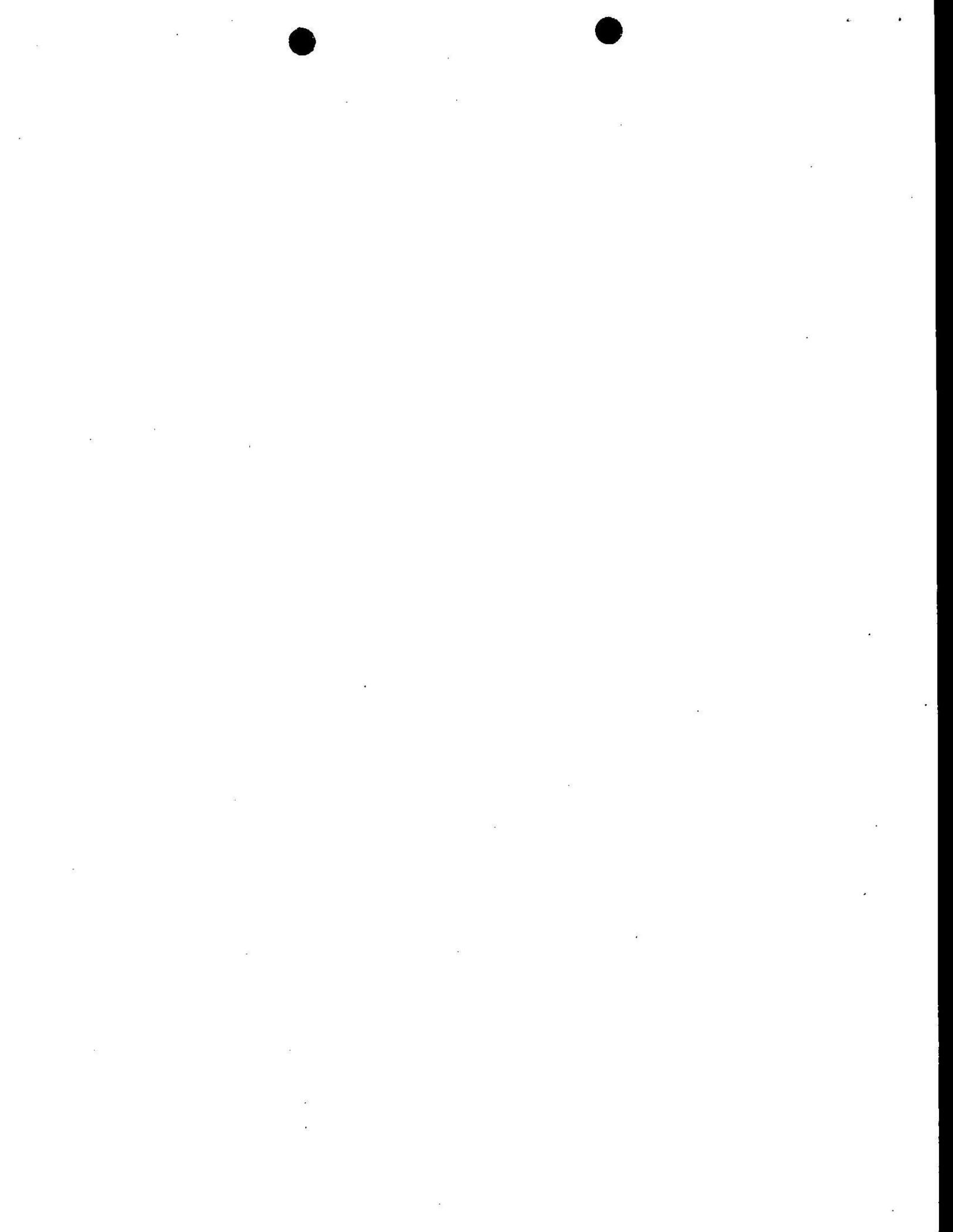




Figure 1. Village of Ansonia Lagoon Overflow Structure, Photo taken by Joe Miller, DSW on 3/10/2010

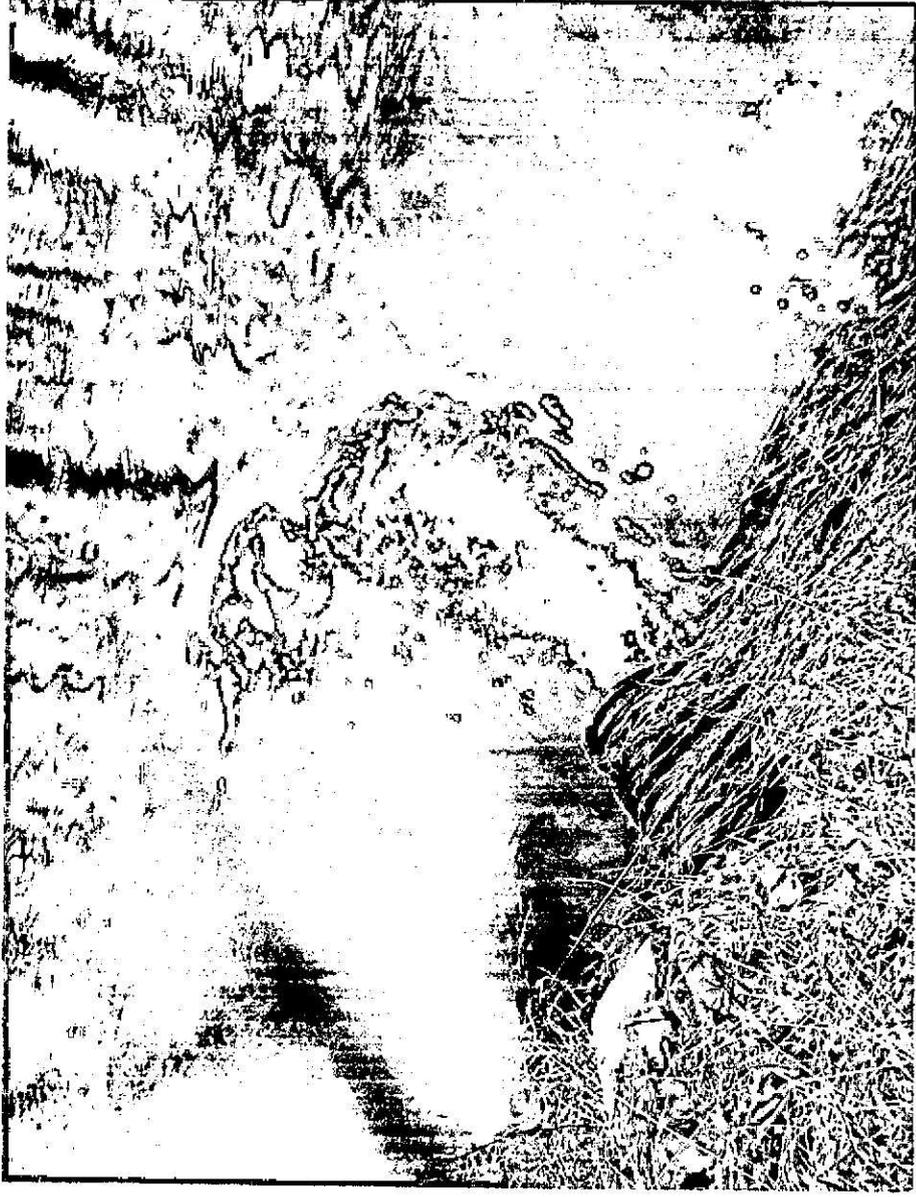


Figure 2. Village of Ansonia Outfall 001, Final Effluent Discharge to Stillwater River, Photo taken by Joe Miller DSW on 3/10/2010



Figure 3. Village of Ansonia Lagoon with Solar Bee and Ice Layer, Photo taken by Joe Miller, DSW on 3/10/2010

