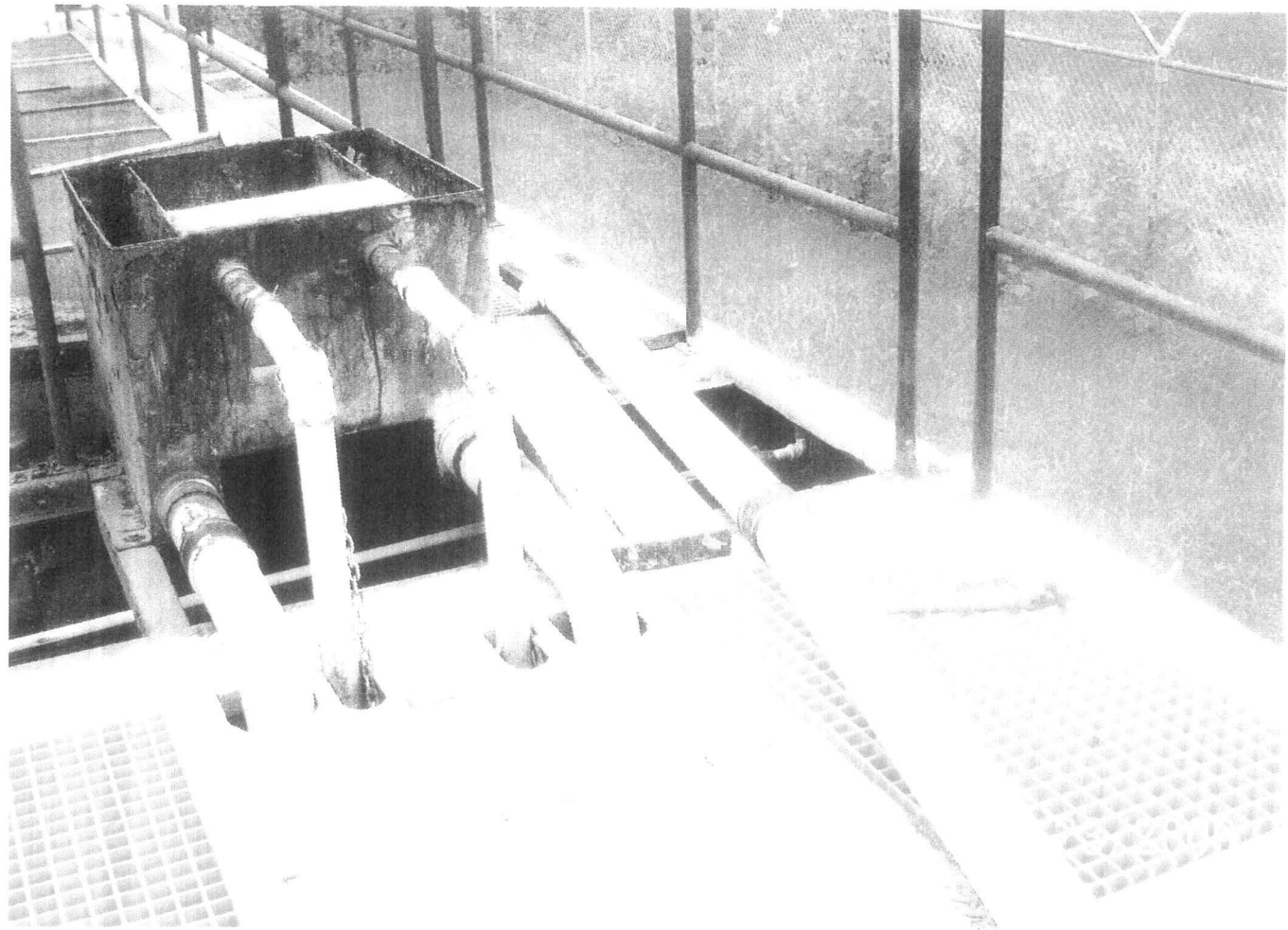
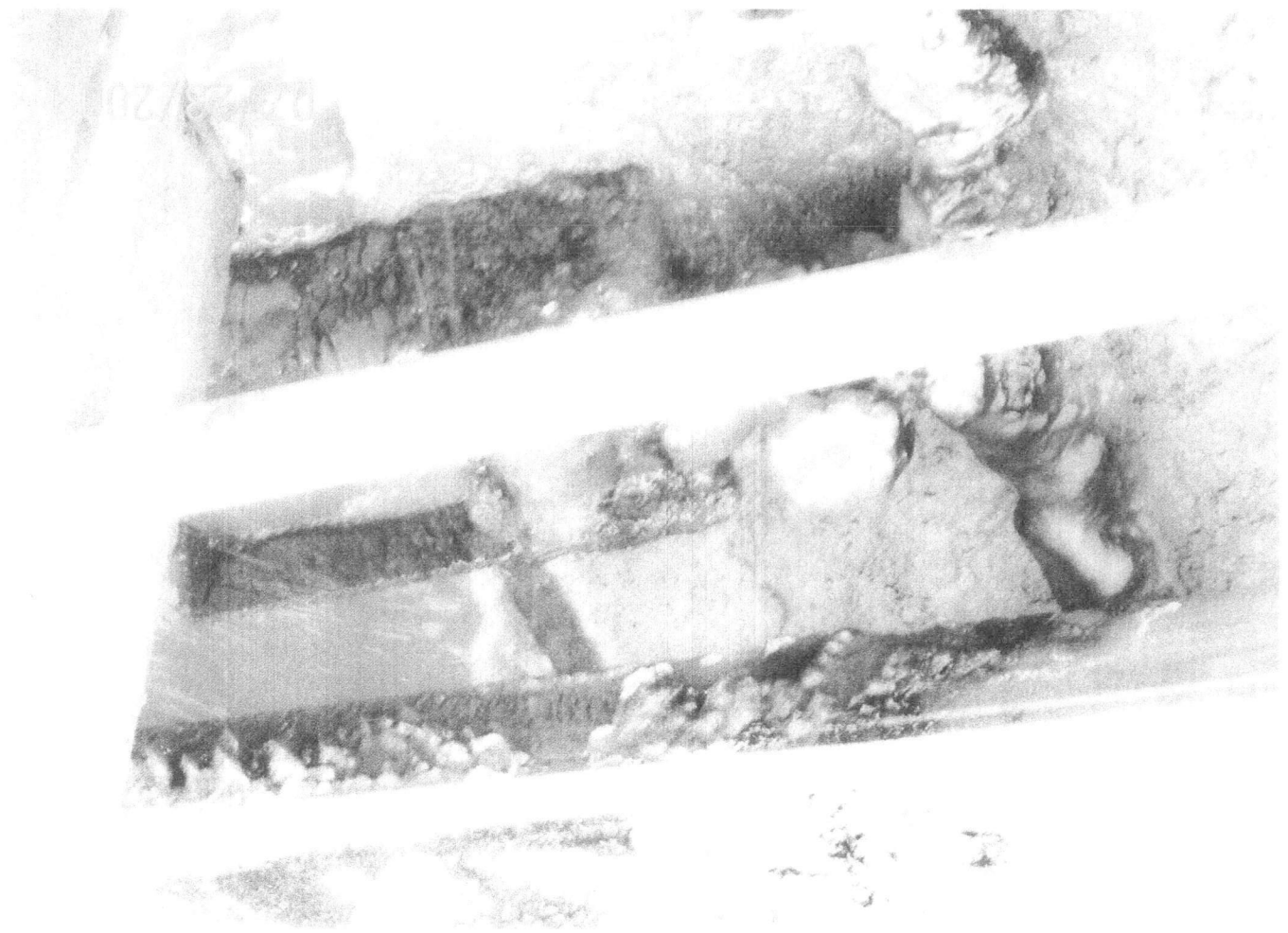
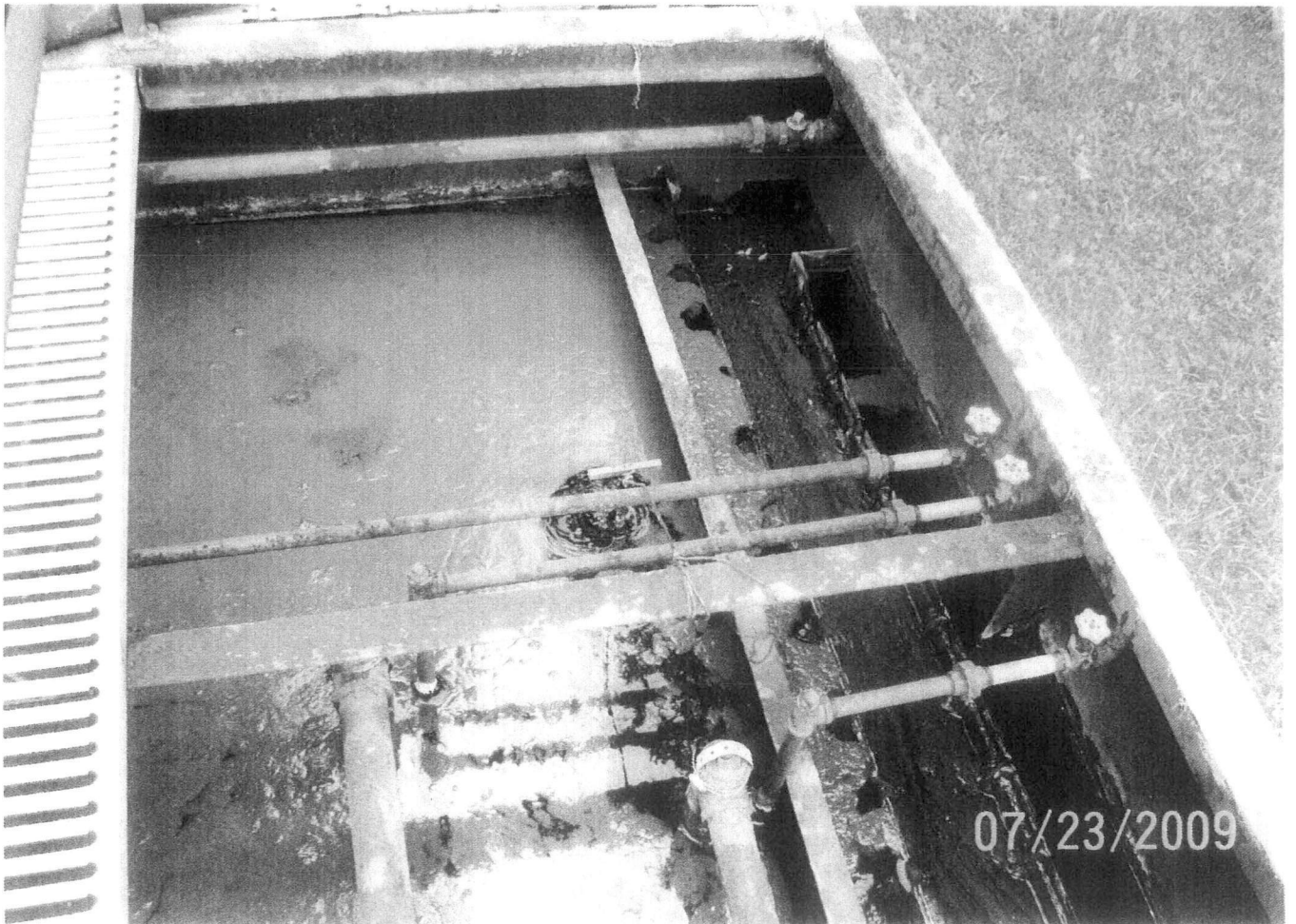
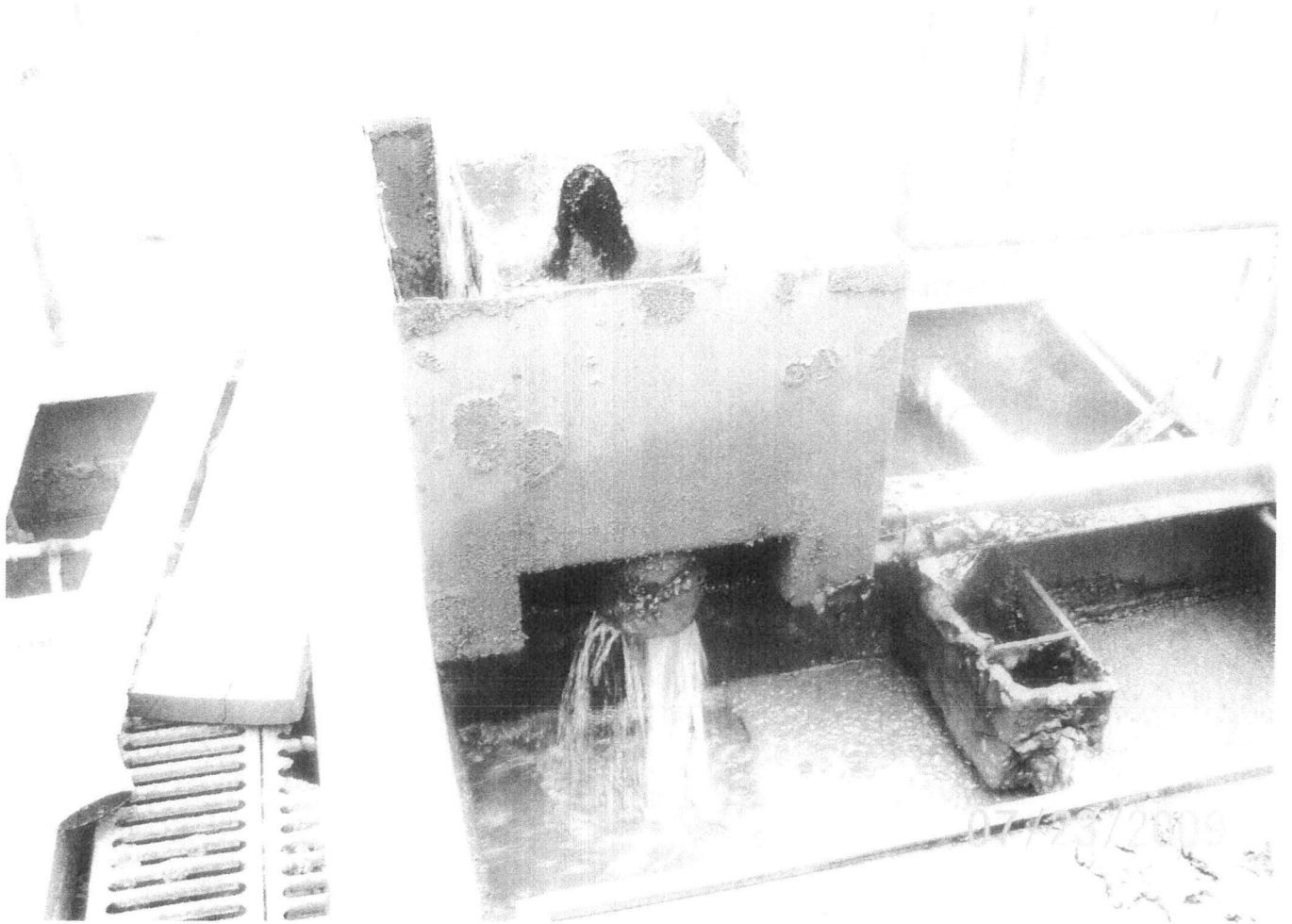


## **APPENDIX F**

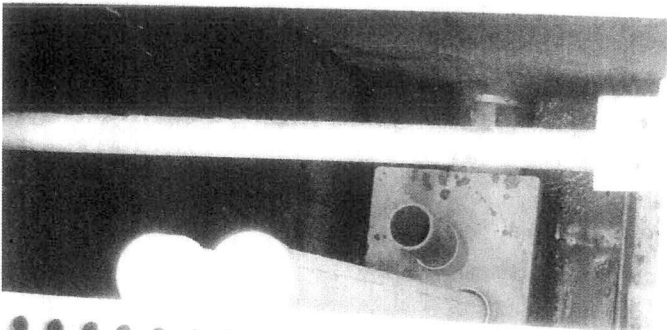
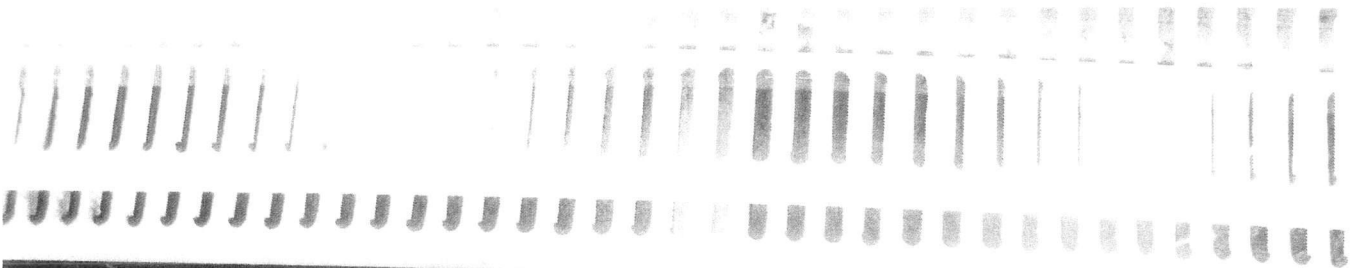
### **HELMSBURG RSD WWTP PHOTOS AND INSPECTION REPORTS**



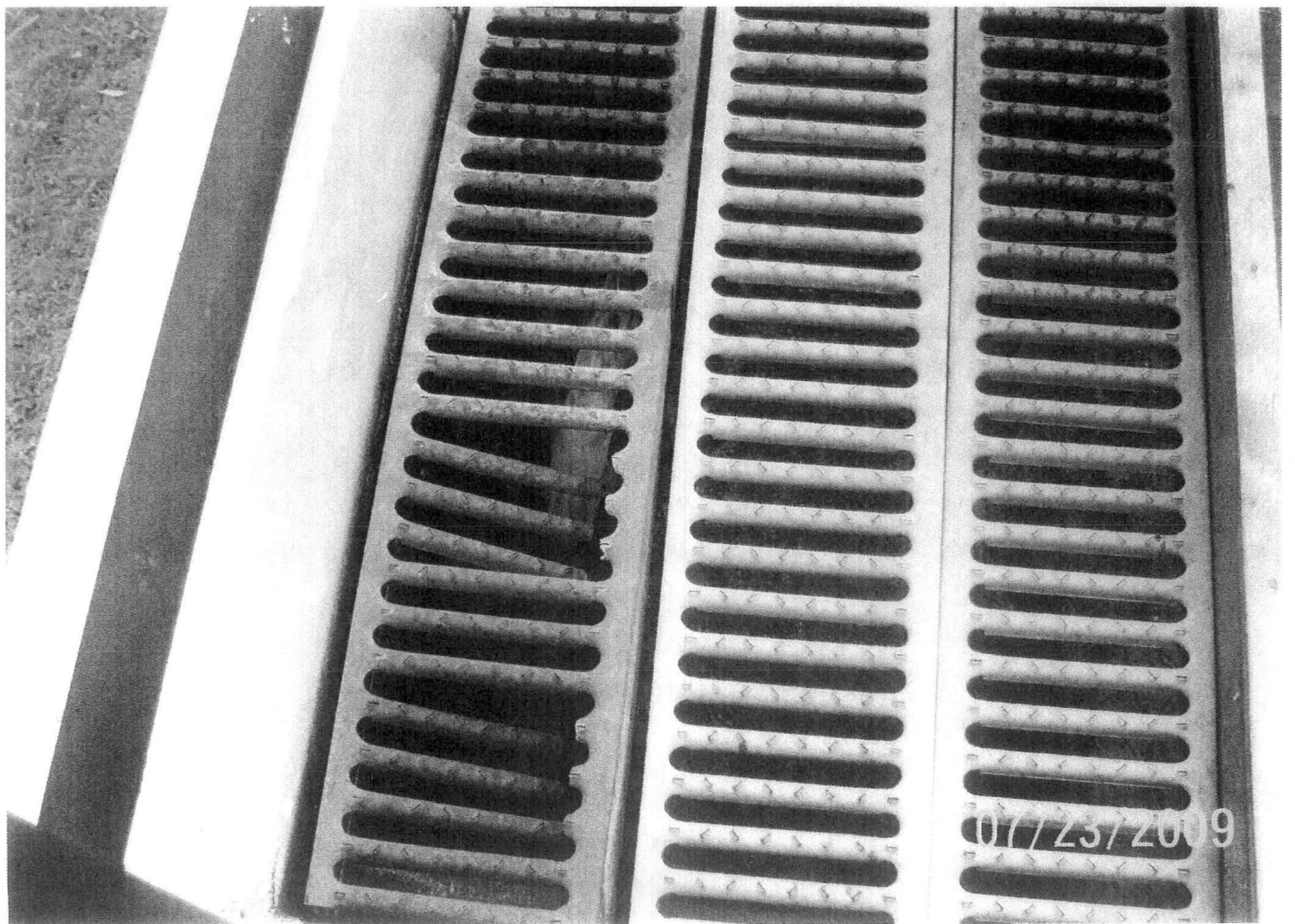
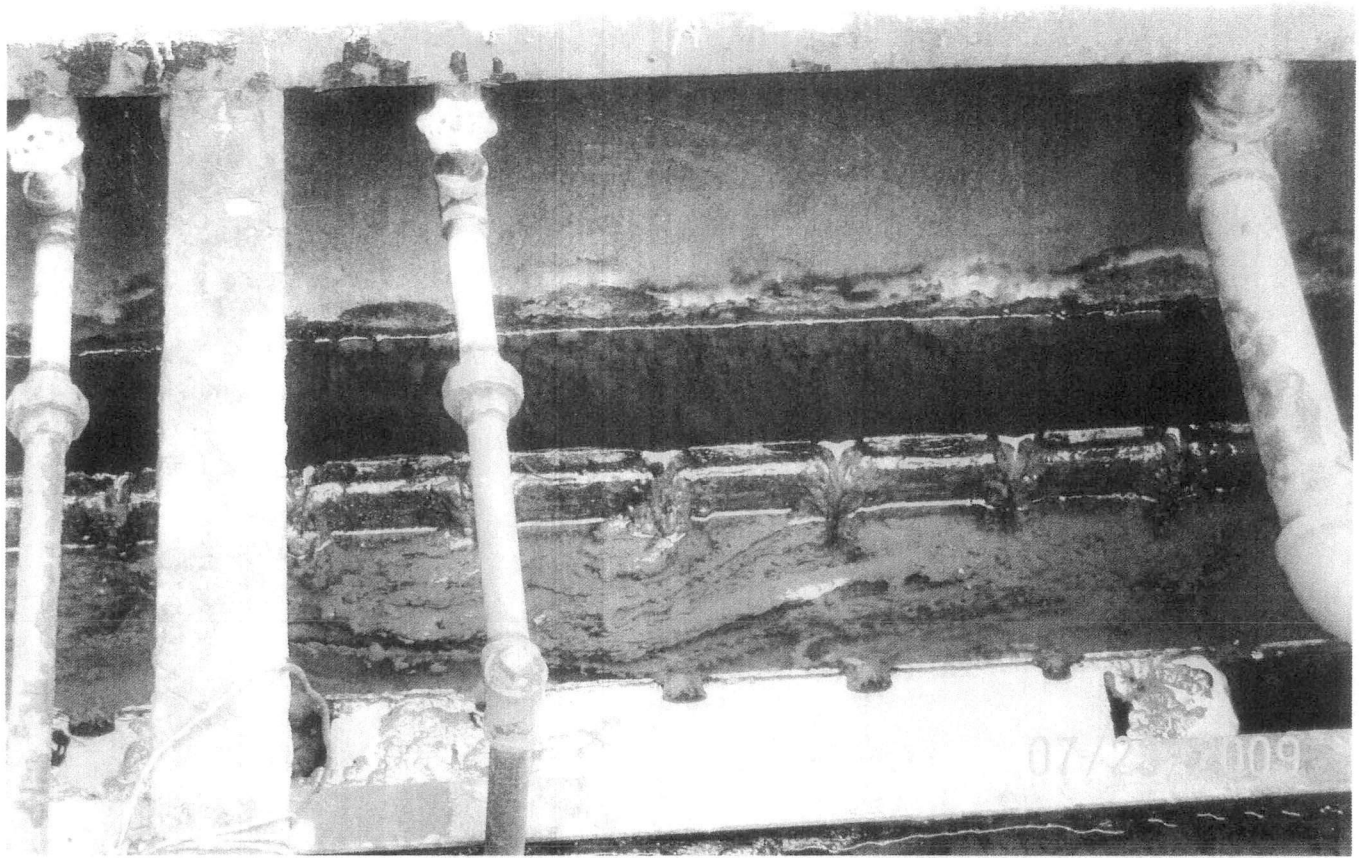








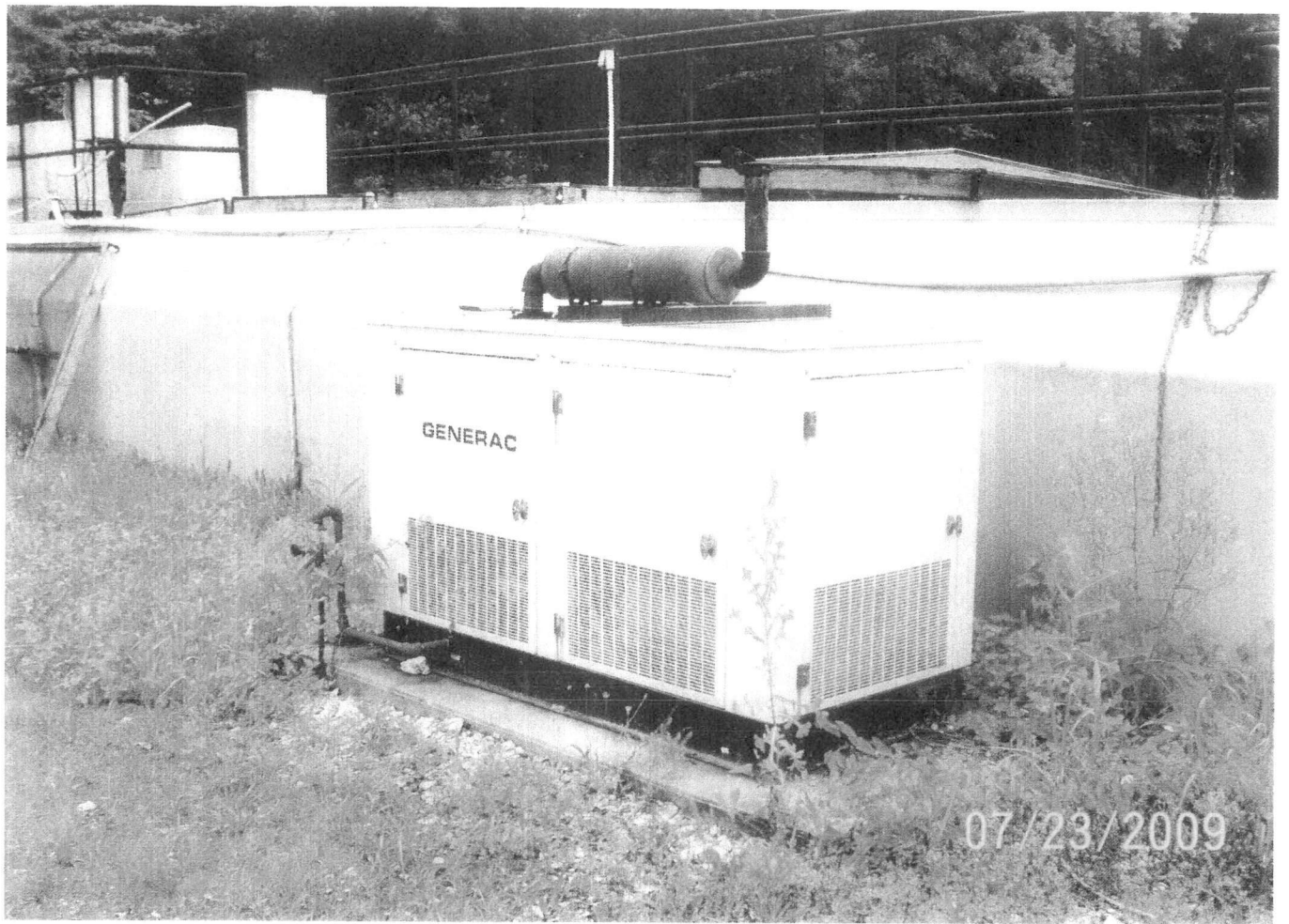


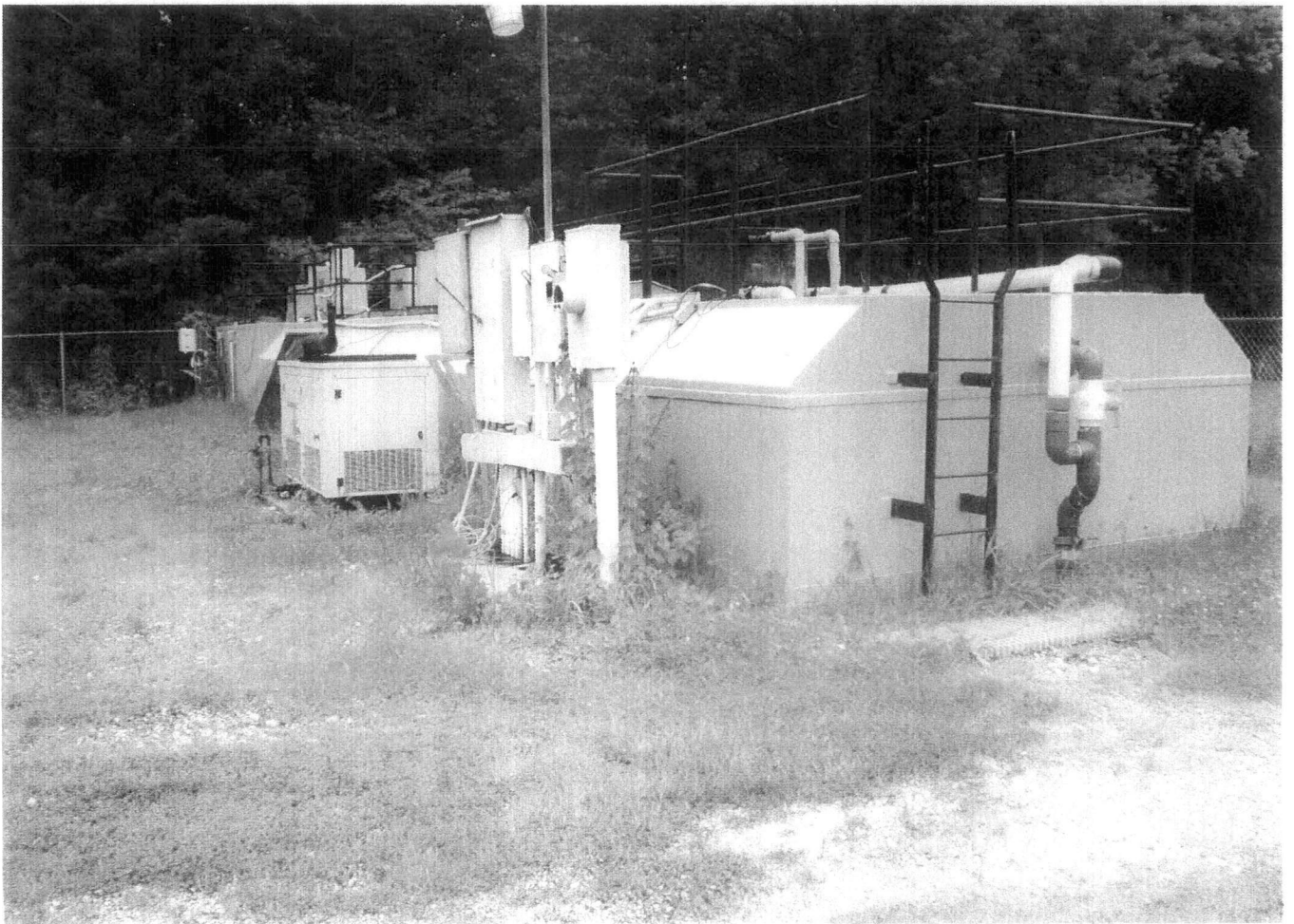






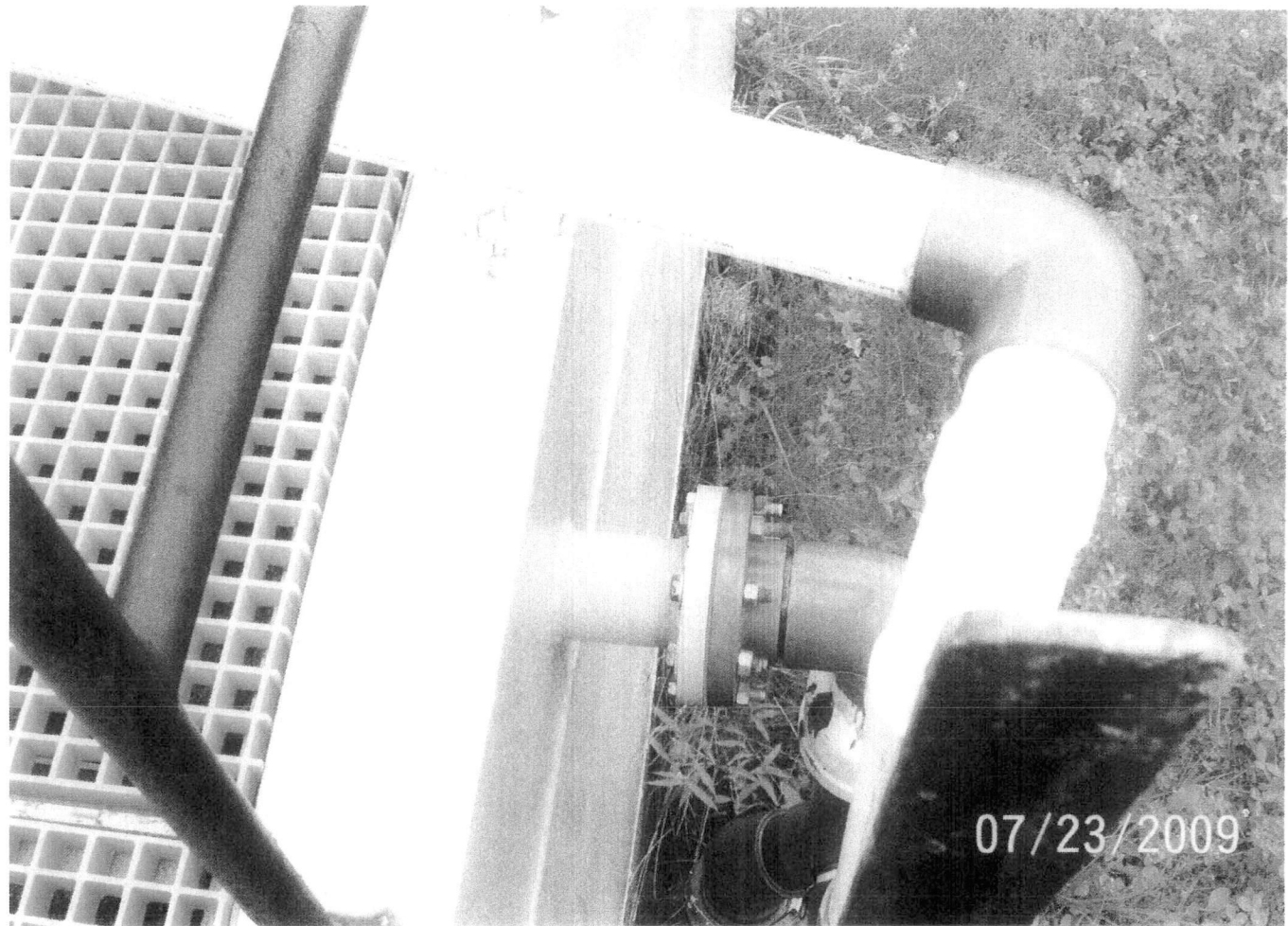
















# NPDES Wastewater Facility Inspection Report

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

NPDES Permit Number: <b>IN0058416</b>	Facility Type: <b>Municipality</b>	Facility Classification: <b>I</b>	TEMPO AI ID <b>1847</b>
Date(s) of Inspection: <b>October 18, 2013</b>			
Type of Inspection: <b>Compliance Evaluation Inspection</b>			
Name and Location of Facility Inspected: <b>Helmsburg Regional Sewer District WWTP</b> <b>4856 HELMSBURG RD</b> <b>Nashville IN 47448</b>		Receiving Waters: <b>Bean Blossom Creek</b>	Permit Expiration Date: <b>10/31/2015</b> Design Flow: <b>.025MGD</b>
County: <b>Brown</b>			
On Site Representative(s): First Name: <b>Robin</b> Last Name: <b>Wiley</b> Title: <b>Operator</b> Email: Phone: <b>812-322-2954</b>			
Certified Operator: <b>Robin Wiley</b>	Number: <b>16158</b>	Class: <b>II</b>	Effective Date: <b>7-1-12</b> Expiration Date: <b>6-30-14</b> Hours/Week: <b>0-5</b>
Responsible Official: <b>Mr. Jeff Keener, President</b> <b>P.O. Box 159</b> <b>Helmsburg, Indiana 47435</b>		Permittee: <b>Helmsburg Regional Sewer District</b> Email: <b>jpskeener@hotmail.com</b> Phone: <b>317-407-6064</b> Contacted?: Fax: <b>No</b>	

## INSPECTION FINDINGS

- ☐ No violations were discovered with respect to the particular items observed during the inspection. (5)
- ☐ Violations were discovered but corrected during the inspection. (4)
- ☒ Potential problems were discovered or observed. (3)
- ☐ Violations were discovered and require a submittal from you and/or a follow-up inspection by IDEM. (2)
- ☐ Violations were discovered and may subject you to an appropriate enforcement response. (1)

## AREAS EVALUATED DURING INSPECTION

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

N	Receiving Waters	M	Facility/Site	S	Self-Monitoring	N	Compliance Schedules
S	Effluent Appearance	S	Operations	S	Flow Measurement	N	Pretreatment
S	Permit	M	Maintenance	S	Laboratory	M	Effluent Limits Compliance
S	CSO/SSO (Sewer Overflow)	S	Sludge	S	Records/Reports	N	Other:

## DETAILED AREA EVALUATIONS

### Receiving Waters:

N 1. The receiving stream is visibly free of excessive deposits of settled solids, floating debris, oil, scum, or billowy foam.

#### Comments:

The receiving stream was not checked due to high weeds and undergrowth on the adjacent property.

### Effluent Appearance:

S 1. Treated effluent is free of excessive solids, floating debris, oil, scum, or billowy foam.

#### Comments:

The effluent was clear and free of color at the time of the inspection.

### Permit:

N 1. A permit renewal application was submitted to IDEM at least 180 days prior to the expiration date.

S 2. The facility description, including the receiving waters, is complete and accurate.

N 3. The permit has been properly transferred.

#### Comments:

The facility has a valid permit and the facility description, including units of treatment and receiving stream, is accurate.

**CSO/SSO:**

- N 1. CSO structures are adequately monitored and maintained.
- S 2. The facility has had no unauthorized sewer overflow events in the past 12 months.
- N 3. SSO and dry weather CSO discharges have been properly reported.
- N 4. Any adverse impacts from SSO and CSO discharges have been properly mitigated.

**Comments:**

The facility has not reported any unauthorized sewer overflow events in the past 12 months.

**Facility/Site:**

- S 1. The facility has standby power or equivalent provision.
- S 2. An adequate alarm or notification system for power or equipment failure is available for the treatment facility.
- M 3. Safe and adequate access is provided for inspection of all treatment units and outfalls.
- 4. List any safety concerns noted during the inspection in the box below:

Grating is very deteriorated in the mid section of the plant.

**Comments:**

Consideration should be made for replacing sections of the steel grating that are rusted and soft.

**Operations:**

- S 1. All facilities and systems necessary for achieving compliance with the terms and conditions of the permit are operated efficiently, including:
  - a. An anticipated bypass report was submitted to IDEM for steps of treatment taken out of service.
- S 2. An adequate, qualified operating staff is provided to carry out the operation of the facility, including:
  - a. Certified Operator's on-site attendance and/or qualified operations personnel attendance is adequate.
  - b. Adequate documentation of operational activities, including system monitoring and cleaning.
  - c. Adequate funding to ensure proper operation.
- S 3. Solids handling procedures include:
  - a. Sufficient solids are wasted from the treatment system, in a timely manner, to maintain process efficiency.
  - b. Wasting of solids is based on appropriate operational targets and valid process control testing.
  - c. Adequate documentation of solids removal, handling, or control is available for review.
- S 4. The facility is operated efficiently during wet weather events.

**Comments:**

All units of treatment appear to be operating efficiently.

**Maintenance:**

- S 1. A maintenance record system has been established and includes maintenance/repair history and preventative maintenance plan.
- M 2. Facility maintenance activities appear adequate.
- S 3. Lift station procedures include:
  - a. Adequate alarm or notification system for equipment failure.
  - b. Adequate inspections, cleaning, and maintenance activities.
  - c. Adequate documentation of all procedures
- N 4. Collection system maintenance activities appear adequate.

**Comments:**

There are sections of the plant that are extremely rusted and scaling. There is no cathodic protection at the plant. It is speculated that the sacrificial anodes have totally deteriorated.

**Sludge:**

- S 1. Sludges, screenings, and slurries are handled and disposed of properly.

**Comments:**

A records review during the inspection showed adequate wasting, handling, and disposal of sludge.

**Self-Monitoring:**

- S 1. Samples are taken at pre-designated locations and are representative.
- S 2. Flow-proportioned samples are obtained where needed.
- S 3. The facility conducts sampling of all waste streams, including type and frequency, as required in the permit.
- S 4. Sample collection procedures, including automatic sampling, include:
  - a. Samples are refrigerated during compositing.
  - b. Proper preservation techniques are used.
  - c. Containers and holding times conform to 40 CFR 136.3.

- S 5. Sample documentation is adequate and includes:
- a. Date, time, and location of sampling.
  - b. Name of individual performing sampling.
  - c. Instantaneous flow for flow-weighted aliquots.
- N 6. NPDES Permit Whole Effluent Toxicity (WET) testing requirements are being met.

Comments:

The Self Monitoring Program was rated as satisfactory. All sampling practices, including raw and intermediate unit process testing, are conducted accurately and at the frequency required by the permit.

**Flow Measurement:**

- S 1. Flow is properly measured as required by the permit.
- S 2. Flow charts and calibration records are available for review.
- S 3. Effluent flow is used in calculating effluent loadings.

Comments:

The facility's flow measurement program, including all documentation, is adequate and representative.

**Laboratory:**

1. The following laboratory records were reviewed:

Contract Lab Reports

Chain-of-Custody

- S 2. The laboratory practices and protocol reviewed were adequate, including:
- a. Written laboratory QA/QC manual.
  - b. Chain-of-Custody procedures followed.
  - c. Samples are properly stored.
  - d. Approved analytical methods are used.
  - e. Calibration and maintenance of instruments is adequate.
  - f. QA/QC procedures are adequate.
  - g. Dates of analyses.
  - h. Name of person performing analyses.

**Contract Lab Information**

Sherry Labs

629 Washington Street, Columbus

Paul Gerth

812-375-0531

**Records/Reports:**

The following records/reports were reviewed:

DMRs for the period of January 2012 to December 2012 were reviewed as part of the inspection.

- S 1. All facility records for the period including the previous three years were available for review.
- S 2. DMRs, MROs/MMRs, and CSODMRs are completed properly and accurately including:
- a. "No Ex" column is accurate.
  - b. Signatory requirements are met.
  - c. Reports are prepared by or under the direction of a certified operator.

Comments:

The requested records were available and appear complete and accurate.

**Compliance Schedules:**

- N 1. The NPDES Permit Schedule of Compliance monitoring and reporting milestones have been met.
- N 2. Agreed Order compliance milestones have been met.

Comments:

**Pretreatment:**

- N 1. The facility operates without significant interference from industrial or other sources of toxic substances.
- N 2. For both Delegated and Non-Delegated pretreatment programs:
- a. Industrial or commercial dischargers are regulated as required.
  - b. The permittee enforces the Sewer Use Ordinance and follows the Enforcement Guide.
  - c. The permittee submitted its annual pretreatment report to IDEM by April 1.
- N 3. Non-Delegated pretreatment programs have:
- a. Developed or reevaluated the Sewer Use Ordinance and submitted it to IDEM.
  - b. Developed or reevaluated the Enforcement Response Guide and submitted it to IDEM.
- N 4. Pretreatment records were adequate and include:
- a. Inventory of Industrial Waste Contributors.
  - b. Monitoring data.
  - c. Inspection Reports.
  - d. Compliance status records.
  - e. Enforcement actions.

Comments:

**Effluent Limits Compliance:**

Yes 1. Were DMRs reviewed as part of the inspection?

DMRs for the period of January 2012 to December 2012 were reviewed as part of the inspection.

Yes 2. Were violations noted during the review of DMRs?

N 3. Bypass and Noncompliance reporting.

The Effluent Limits Violations area was rated marginal due to self-reported violations of the limits detailed in Part I. A. of the NPDES Permit. Review of DMRs revealed two ammonia nitrogen violations.

Comments:

**IDEM REPRESENTATIVE**

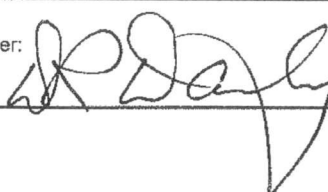
Inspector Name:  
Kevin Hotz

Email:  
khotz@idem.IN.gov

Phone Number:  
812-358-2027 ext. 235

**IDEM MANAGER REVIEW**

IDEM Manager:



Date:

11-21-13





## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204  
(800) 451-6027 • (317) 232-8603 • [www.idem.IN.gov](http://www.idem.IN.gov)

Michael R. Pence  
Governor

Thomas W. Easterly  
Commissioner

December 03, 2013

Mr. Jeff Keener, President  
Helmsburg Regional Sewer District  
P.O. Box 159  
Helmsburg, Indiana 47435

Dear Mr. Keener:

Re: Inspection Summary Letter  
Helmsburg Regional Sewer District WWTP  
NPDES Permit No. IN0058416  
Nashville, Brown County

An inspection of the above-referenced facility or location was conducted by a representative of the Indiana Department of Environmental Management, Southeast Regional Office, pursuant to IC 13-18-3-9. A summary of the inspection is provided below:

Date(s) of Inspection: October 18, 2013  
Type of Inspection: Compliance Evaluation Inspection  
Inspection Results: Potential problems were discovered or observed.

Consideration should be made for replacing sections of the steel grating that are rusted and soft.

There are sections of the plant that are extremely rusted and scaling. There is no cathodic protection at the plant. It is speculated that the sacrificial anodes have totally deteriorated.

The Effluent Limits Compliance area was rated marginal due to self-reported violations of the limits detailed in Part I. A. of the NPDES Permit. Review of DMRs revealed two ammonia nitrogen violations.

A copy of the NPDES Wastewater Facility Inspection Report is enclosed for your records. Please direct any response to this letter and any questions to Kevin Hotz at 812-358-2027 ext. 235 or by email to [khotz@idem.IN.gov](mailto:khotz@idem.IN.gov).

Sincerely,

Mark A. Amick, Deputy Director  
Southeast Regional Office

Enclosure