



State of Ohio Environmental Protection Agency

Northeast District Office

2110 East Aurora Rd.  
Twinsburg, Ohio 44087

TELE: (330) 963-1200 FAX: (330) 487-0769  
www.epa.state.oh.us

Ted Strickland, Governor  
Lee Fisher, Lieutenant Governor  
Chris Korleski, Director

October 19, 2007

RE: NORTH CANTON WATER PLANT  
3IN00331\*BD  
STARK COUNTY

Mr. Richard Steinhebel  
WTP Superintendent  
City of North Canton Water Plant  
145 North Main Street  
North Canton, OH 44720

Dear Mr. Steinhebel:

On October 11, 2007, this writer conducted a compliance evaluation inspection of your water treatment plant to determine compliance with the above referenced National Pollutant Discharge Elimination System (NPDES) permit. You accompanied me during the inspection.

The North Canton WTP is a lime soda softening plant. Treatment includes lime soda softening, CO<sub>2</sub> stabilization, rapid gravity filtration, fluoridation, and disinfection with sodium hypochlorite.

#### Wastewater Produced

- The backwash holding tank is periodically cleaned out.
- Lime sludge solids from the water treatment plant.
- Untreated water from the contaminated well field.

#### Treatment provided

- The lime solids are sent to one of five lime sludge lagoons located southeast of the water plant. Supernatant overflows to the washwater lagoon. At the influent to this lagoon (northeast corner) the pH of the water is adjusted down using CO<sub>2</sub>. An overflow weir located at the northwest corner is where the effluent is monitored at station 3IN00331002. This effluent eventually discharges to Zimmer Ditch via a stormsewer.
- When the backwash holding tank is cleaned, the solids are sent directly to the washwater lagoon entering on the west side of the lagoon.
- Groundwater is treated in an air stripper located at the north side of the plant. The air stripper is still off-line, therefore there was no discharge. Treated water would be discharged to Zimmer Ditch via outfall 3IN00331001.

Mr. Richard Steinhebel  
City of North Canton Water Plant  
October 19, 2007  
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An excerpt from a treatment plant drawing by Burgess & Niple, Inc. is attached for illustration purpose. Pictures from the day of my inspection are also attached.

During my inspection we observed the lime sludge lagoons being cleaned out. The settled lime solids are liquefied and pumped to a tanker truck. The sludge is then hauled to a farm field for land application.

Your compliance history for the time period of August 2006 through August 2007 revealed the following violations of your NPDES permit:

### **Numeric Violations**

No Violations

### **Frequency Violations**

| Violation Date | Station | Parameter              | Sample Frequency | Expected | Reported |
|----------------|---------|------------------------|------------------|----------|----------|
| 8/22/2006      | 002     | Total Suspended Solids | 1/Week           | 1        | 0        |
| 8/22/2006      | 002     | Flow Rate              | 1/Week           | 1        | 0        |
| 9/1/2006       | 002     | Total Suspended Solids | 1/Week           | 1        | 0        |
| 10/15/2006     | 002     | Total Suspended Solids | 1/Week           | 1        | 0        |
| 10/15/2006     | 002     | Flow Rate              | 1/Week           | 1        | 0        |
| 10/12/2006     | 002     | pH                     | 1/Day            | 1        | 0        |
| 10/13/2006     | 002     | pH                     | 1/Day            | 1        | 0        |
| 10/14/2006     | 002     | pH                     | 1/Day            | 1        | 0        |
| 10/15/2006     | 002     | pH                     | 1/Day            | 1        | 0        |
| 10/16/2006     | 002     | pH                     | 1/Day            | 1        | 0        |
| 10/17/2006     | 002     | pH                     | 1/Day            | 1        | 0        |
| 12/15/2006     | 002     | Total Suspended Solids | 1/Week           | 1        | 0        |
| 2/22/2007      | 002     | Total Suspended Solids | 1/Week           | 1        | 0        |
| 2/22/2007      | 002     | Flow Rate              | 1/Week           | 1        | 0        |
| 2/14/2007      | 002     | pH                     | 1/Day            | 1        | 0        |
| 2/15/2007      | 002     | pH                     | 1/Day            | 1        | 0        |
| 2/16/2007      | 002     | pH                     | 1/Day            | 1        | 0        |
| 2/17/2007      | 002     | pH                     | 1/Day            | 1        | 0        |
| 2/18/2007      | 002     | pH                     | 1/Day            | 1        | 0        |
| 2/19/2007      | 002     | pH                     | 1/Day            | 1        | 0        |
| 2/20/2007      | 002     | pH                     | 1/Day            | 1        | 0        |
| 3/15/2007      | 002     | Total Suspended Solids | 1/Week           | 1        | 0        |
| 3/15/2007      | 002     | Flow Rate              | 1/Week           | 1        | 0        |
| 4/15/2007      | 002     | Total Suspended Solids | 1/Week           | 1        | 0        |

Mr. Richard Steinhebel  
City of North Canton Water Plant  
October 19, 2007  
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| <u>Violation Date</u> | <u>Station</u> | <u>Parameter</u>       | <u>Sample Frequency</u> | <u>Expected</u> | <u>Reported</u> |
|-----------------------|----------------|------------------------|-------------------------|-----------------|-----------------|
| 4/8/2007              | 002            | Flow Rate              | 1/Week                  | 1               | 0               |
| 4/22/2007             | 002            | Flow Rate              | 1/Week                  | 1               | 0               |
| 6/15/2007             | 002            | Total Suspended Solids | 1/Week                  | 1               | 0               |
| 8/1/2007              | 002            | Total Suspended Solids | 1/Week                  | 1               | 0               |
| 8/1/2007              | 002            | Flow Rate              | 1/Week                  | 1               | 0               |
| 8/3/2007              | 002            | pH                     | 1/Day                   | 1               | 0               |
| 8/4/2007              | 002            | pH                     | 1/Day                   | 1               | 0               |
| 8/5/2007              | 002            | pH                     | 1/Day                   | 1               | 0               |
| 8/6/2007              | 002            | pH                     | 1/Day                   | 1               | 0               |
| 8/7/2007              | 002            | pH                     | 1/Day                   | 1               | 0               |
| 8/8/2007              | 002            | pH                     | 1/Day                   | 1               | 0               |
| 8/9/2007              | 002            | pH                     | 1/Day                   | 1               | 0               |
| 8/10/2007             | 002            | pH                     | 1/Day                   | 1               | 0               |
| 8/11/2007             | 002            | pH                     | 1/Day                   | 1               | 0               |

Please review your records and determine why the above frequency violations have occurred and respond back to this office. If you should have any questions, feel free to contact this writer at (330) 963-1136.

Sincerely,



Philip P. Rhodes, P.E.  
Environmental Engineer  
Division of Surface Water

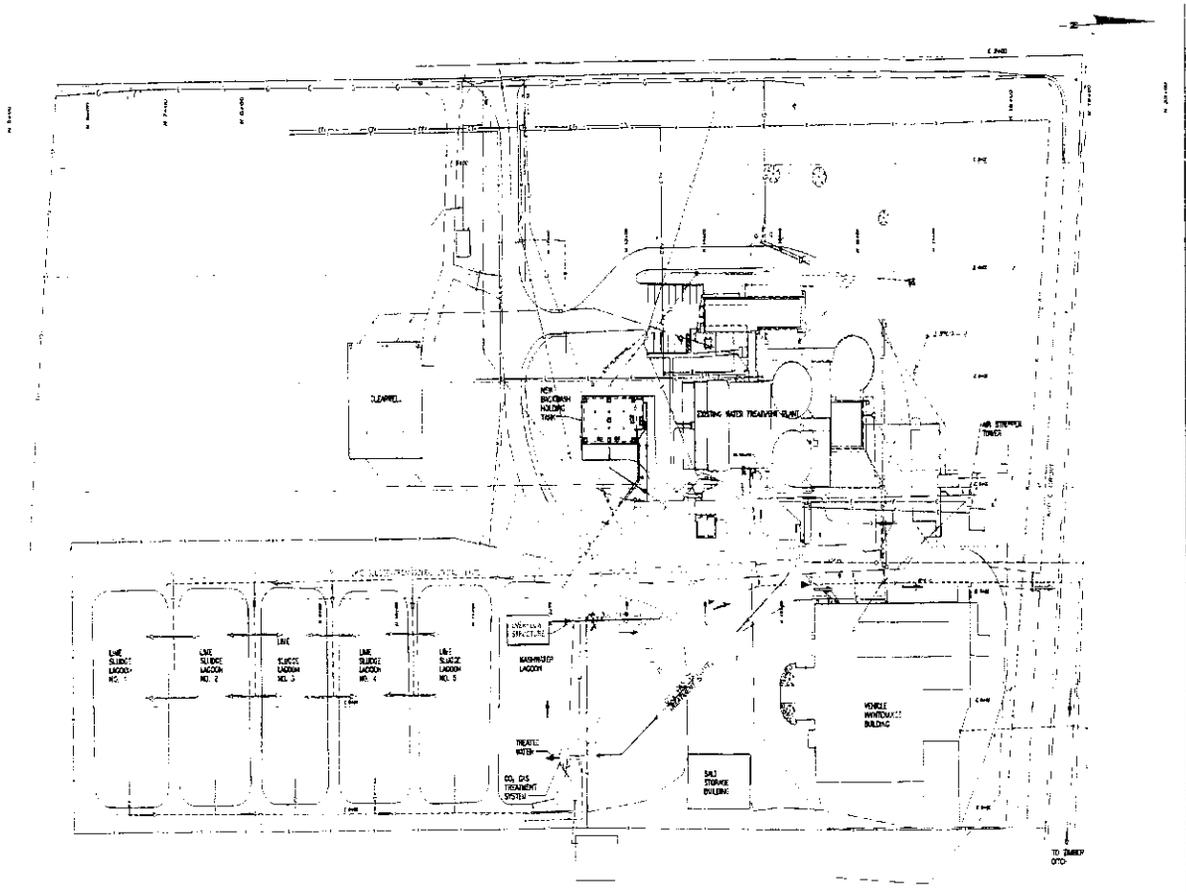
PPR/mt

attachments

File: Industrial Permit/Compliance

North Canton WTP 10/11/2007  
outfall 002





| LEGEND |                                 |
|--------|---------------------------------|
| ---    | LIME SLUDGE                     |
| ---    | SUPERNATANT LIME SLUDGE LAGOON  |
| ---    | TREATED WASTEWATER              |
| ---    | AIR STRIPPER DISCHARGE EXISTING |

CITY OF NORTH CANTON WTP  
LAGOON MODIFICATIONS INFORMATION PACKET  
PLAN AND FLOW PATTERN FOR  
EXISTING AND PROPOSED DISCHARGES  
BURGESS & NIPLE, INC.



## NORTH CANTON DRINKING WATER PLANT

7300 FREEDOM AVENUE  
NORTH CANTON OHIO 44720-2587  
(330)499-6473

RECEIVED  
OCT 25 2007  
OHIO EPA NEDO

October 24, 2007

TO: Philip P. RHODES, P.E. OEPA Division of Surface Water  
RE: NPDES 3IN00331\*BD Outfall 002 Frequency Violations 2006/2007 Response  
FROM: Richard Steinhebel NCDWP Superintendent

8/22/2006 - AH - No outflow during this time period.  
9/1/2006 - 8 days instead of 7 days, will keep in 7 day intervals.  
10/15/2006 to 10/17/2006 - AH - No outflow during this time period.  
12/15/2006 - 9 days instead of 7 days, will keep in 7 day intervals.  
2/22/2007 - 9 days instead of 7 days, will keep in 7 day intervals.  
2/14/2007 to 2/20/2007 - AH - No outflow during this time period.  
3/15/2007 - Will test at 7 day intervals.  
4/15.2007 - AH - No outflow from April 6 to 13, tested April 14 TSS 4 MG/L.  
4/8/2007 - AH - No outflow during this time period.  
4/22/2007 - AH - No outflow from April 6 to 13, started outflow April 14 and showed flow rate for 3 out of 4 weeks.  
6/15/2007 - Tested TSS 1 day to early, will keep in 7 day intervals.  
8/1/2007 to 8/11/2007 - AH - No outflow during this time period.

Sincerely,

Richard Steinhebel

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City of North Canton Water Plant  
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### Frequency Violations

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