

**Environmental  
Protection Agency**

Ohio  
Governor  
Lt. Governor  
Director

✓x

September 14, 2011

RE: TRUMBULL COUNTY  
MESOPOTAMIA  
SHIVELY LAND COMPANY  
4300 KINSMAN RD.  
NPDES PERMIT NO. 3IN00300

Mr. Edmund Collens  
Shively Land Company  
4300 Kinsman Road  
Mesopotamia, Ohio 44439

Dear Mr. Collens:

On August 17, 2011, a Compliance Evaluation Inspection (CEI) was conducted by this writer on the Wastewater Treatment Plant (WWTP) serving the Shively Land Company building, located at 4300 Kinsman Road, Mesopotamia.

The purpose of the August 17<sup>th</sup> inspection was to evaluate the WWTP's operation and maintenance condition, and compliance with its National Pollutant Discharge Elimination System (NPDES) Permit to discharge. The last CEI conducted on the sewage system was on October 14, 2009.

At the time of the August 17<sup>th</sup> inspection, the following observations were made:

- 1) Trash trap contents were typical.
- 2) Contents of the extended aeration tank were medium brown in color, and they were being well aerated. The return sludge line was returning a medium brown liquid to the aeration tank.
- 3) Settling tank contents were slightly turbid, and the effluent trough contained some mossy growth in the V-notch weirs. The skimmer was adjusted at a proper level, and was operating satisfactorily.
- 4) Both pumps in the sand filter dosing station were in the 'AUTO' mode. When tested in the 'HAND' mode, both pumps were operational. The high water level alarm was operational when manually tested as well.
- 5) The surface sand filters were being utilized, and the sand in both filter cells was raked level. There was a slight vegetative growth in the filter sand which should be removed.
- 6) Effluent disinfection is accomplished by tablet chlorination/dechlorination units, which were in use at the time of the inspection. Both of the units contained (2) two tubes each, and all tubes contained tablets.

- 7) Effluent from the WWTP was clear and visually free of solids. Treated effluent discharges to a 20,000 ft<sup>2</sup> pond onsite. Any overflow from the pond discharges to an unnamed tributary of Swine Creek.

A computer search of operating data for the wastewater treatment plant (submittal as required by NPDES Permit to be reported to the Ohio EPA) has been conducted. The electronic Discharge Monitoring Report (eDMR) data search covered the period November 1, 2009 through August 1, 2011. During this period, Shively Land Company data indicated the following NPDES Permit effluent limit violations:

**SHIVELY LAND COMPANY  
 NPDES PERMIT NO. (3IN00300)  
 NUMERICAL EFFLUENTY VIOLATIONS  
 (NOV. 1, 2009 – AUG. 1, 2011)**

Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
March 2010	602	Total Suspended Solids	30D Conc	12	548	3/1/2010
March 2010	602	CBOD 5 day	30D Conc	10	80.6	3/1/2010
March 2010	602	Total Suspended Solids	1D Conc	18	548	3/18/2010
March 2010	602	CBOD 5 day	1D Conc	15	80.6	3/18/2010
March 2011	602	Total Suspended Solids	30D Conc	12	16	3/1/2011
June 2011	602	Total Suspended Solids	30D Conc	12	14	6/1/2011
June 2011	602	Nitrogen, Ammonia (NH3-N)	30D Conc	1.0	19	6/1/2011
June 2011	602	Nitrogen, Ammonia (NH3-N)	7D Conc	1.5	19	6/15/2011

A review of the eDMRs for the same period also found the following effluent monitoring reporting code violations:

**SHIVELY LAND COMPANY  
 NPDES PERMIT NO. (3IN00300)  
 REPORTING CODE VIOLATIONS  
 (NOV. 1, 2009 – AUG. 1, 2011)**

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
November 2010	602	00056	Flow Rate			AB	11/2/2010
November 2010	602	00056	Flow Rate			AB	11/3/2010
November 2010	602	00056	Flow Rate			AB	11/4/2010
November 2010	602	00056	Flow Rate			AB	11/5/2010
November 2010	602	00056	Flow Rate			AB	11/6/2010
May 2011	602	00010	Water Temperature			AB	5/2/2011
May 2011	602	00083	Color, Severity			AB	5/2/2011

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Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
May 2011	602	01330	Odor, Severity			AB	5/2/2011
May 2011	602	01350	Turbidity, Severity			AB	5/2/2011
May 2011	602	00056	Flow Rate			AB	5/2/2011
May 2011	602	00010	Water Temperature			AB	5/3/2011
May 2011	602	00083	Color, Severity			AB	5/3/2011
May 2011	602	01330	Odor, Severity			AB	5/3/2011
May 2011	602	01350	Turbidity, Severity			AB	5/3/2011
May 2011	602	00056	Flow Rate			AB	5/3/2011
May 2011	602	00010	Water Temperature			AB	5/3/2011
May 2011	602	00083	Color, Severity			AB	5/4/2011
May 2011	602	01330	Odor, Severity			AB	5/4/2011
May 2011	602	01350	Turbidity, Severity			AB	5/4/2011
May 2011	602	00056	Flow Rate			AB	5/4/2011
May 2011	602	00010	Water Temperature			AB	5/4/2011
May 2011	602	00083	Color, Severity			AB	5/4/2011
May 2011	602	01330	Odor, Severity			AB	5/4/2011
May 2011	602	01350	Turbidity, Severity			AB	5/4/2011
May 2011	602	00056	Flow Rate			AB	5/4/2011
May 2011	602	00010	Water Temperature			AB	5/5/2011
May 2011	602	00083	Color, Severity			AB	5/5/2011
May 2011	602	01330	Odor, Severity			AB	5/5/2011
May 2011	602	01350	Turbidity, Severity			AB	5/5/2011
May 2011	602	00056	Flow Rate			AB	5/5/2011
May 2011	602	00010	Water Temperature			AB	5/5/2011
May 2011	602	00083	Color, Severity			AB	5/6/2011
May 2011	602	01330	Odor, Severity			AB	5/6/2011
May 2011	602	01350	Turbidity, Severity			AB	5/6/2011
May 2011	602	00056	Flow Rate			AB	5/6/2011
May 2011	602	00010	Water Temperature			AB	5/6/2011
May 2011	602	00083	Color, Severity			AB	5/6/2011
May 2011	602	01330	Odor, Severity			AB	5/6/2011
May 2011	602	01350	Turbidity, Severity			AB	5/6/2011
May 2011	602	00056	Flow Rate			AB	5/6/2011
May 2011	602	00010	Water Temperature			AB	5/6/2011
May 2011	602	00083	Color, Severity			AB	5/9/2011
May 2011	602	01330	Odor, Severity			AB	5/9/2011
May 2011	602	01350	Turbidity, Severity			AB	5/9/2011
May 2011	602	00056	Flow Rate			AB	5/9/2011
May 2011	602	00010	Water Temperature			AB	5/9/2011
May 2011	602	00083	Color, Severity			AB	5/10/2011
May 2011	602	01330	Odor, Severity			AB	5/10/2011
May 2011	602	01350	Turbidity, Severity			AB	5/10/2011
May 2011	602	00056	Flow Rate			AB	5/10/2011
May 2011	602	00010	Water Temperature			AB	5/10/2011
May 2011	602	00083	Color, Severity			AB	5/11/2011
May 2011	602	01330	Odor, Severity			AB	5/11/2011
May 2011	602	01350	Turbidity, Severity			AB	5/11/2011
May 2011	602	00056	Flow Rate			AB	5/11/2011
May 2011	602	00010	Water Temperature			AB	5/11/2011
May 2011	602	00083	Color, Severity			AB	5/12/2011
May 2011	602	01330	Odor, Severity			AB	5/12/2011
May 2011	602	01350	Turbidity, Severity			AB	5/12/2011
May 2011	602	00056	Flow Rate			AB	5/12/2011
May 2011	602	00010	Water Temperature			AB	5/12/2011
May 2011	602	00083	Color, Severity			AB	5/12/2011
May 2011	602	01330	Odor, Severity			AB	5/12/2011
May 2011	602	01350	Turbidity, Severity			AB	5/12/2011
May 2011	602	00056	Flow Rate			AB	5/12/2011
May 2011	602	00010	Water Temperature			AB	5/13/2011

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Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
May 2011	602	00083	Color, Severity			AB	5/13/2011
May 2011	602	01330	Odor, Severity			AB	5/13/2011
May 2011	602	01350	Turbidity, Severity			AB	5/13/2011
May 2011	602	00056	Flow Rate			AB	5/13/2011
May 2011	602	00010	Water Temperature			AB	5/16/2011
May 2011	602	00083	Color, Severity			AB	5/16/2011
May 2011	602	01330	Odor, Severity			AB	5/16/2011
May 2011	602	01350	Turbidity, Severity			AB	5/16/2011
May 2011	602	00056	Flow Rate			AB	5/16/2011
May 2011	602	00010	Water Temperature			AB	5/16/2011
May 2011	602	00083	Color, Severity			AB	5/17/2011
May 2011	602	01330	Odor, Severity			AB	5/17/2011
May 2011	602	01350	Turbidity, Severity			AB	5/17/2011
May 2011	602	00056	Flow Rate			AB	5/17/2011
May 2011	602	00010	Water Temperature			AB	5/17/2011
May 2011	602	00083	Color, Severity			AB	5/18/2011
May 2011	602	01330	Odor, Severity			AB	5/18/2011
May 2011	602	01350	Turbidity, Severity			AB	5/18/2011
May 2011	602	00056	Flow Rate			AB	5/18/2011
May 2011	602	00010	Water Temperature			AB	5/18/2011
May 2011	602	00083	Color, Severity			AB	5/19/2011
May 2011	602	01330	Odor, Severity			AB	5/19/2011
May 2011	602	01350	Turbidity, Severity			AB	5/19/2011
May 2011	602	00056	Flow Rate			AB	5/19/2011
May 2011	602	00010	Water Temperature			AB	5/19/2011
May 2011	602	00083	Color, Severity			AB	5/20/2011
May 2011	602	01330	Odor, Severity			AB	5/20/2011
May 2011	602	01350	Turbidity, Severity			AB	5/20/2011
May 2011	602	00056	Flow Rate			AB	5/20/2011
May 2011	602	00010	Water Temperature			AB	5/20/2011
May 2011	602	00083	Color, Severity			AB	5/23/2011
May 2011	602	01330	Odor, Severity			AB	5/23/2011
May 2011	602	01350	Turbidity, Severity			AB	5/23/2011
May 2011	602	00056	Flow Rate			AB	5/23/2011
May 2011	602	00010	Water Temperature			AB	5/23/2011
May 2011	602	00083	Color, Severity			AB	5/24/2011
May 2011	602	01330	Odor, Severity			AB	5/24/2011
May 2011	602	01350	Turbidity, Severity			AB	5/24/2011
May 2011	602	00056	Flow Rate			AB	5/24/2011
May 2011	602	00010	Water Temperature			AB	5/24/2011
May 2011	602	00083	Color, Severity			AB	5/25/2011
May 2011	602	01330	Odor, Severity			AB	5/25/2011
May 2011	602	01350	Turbidity, Severity			AB	5/25/2011
May 2011	602	00056	Flow Rate			AB	5/25/2011

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Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
May 2011	602	00010	Water Temperature			AB	5/26/2011
May 2011	602	00083	Color, Severity			AB	5/26/2011
May 2011	602	01330	Odor, Severity			AB	5/26/2011
May 2011	602	01350	Turbidity, Severity			AB	5/26/2011
May 2011	602	00056	Flow Rate			AB	5/26/2011
May 2011	602	00010	Water Temperature			AB	5/27/2011
May 2011	602	00083	Color, Severity			AB	5/27/2011
May 2011	602	01330	Odor, Severity			AB	5/27/2011
May 2011	602	01350	Turbidity, Severity			AB	5/27/2011
May 2011	602	00056	Flow Rate			AB	5/27/2011
May 2011	602	00010	Water Temperature			AB	5/30/2011
May 2011	602	00083	Color, Severity			AB	5/30/2011
May 2011	602	01330	Odor, Severity			AB	5/30/2011
May 2011	602	01350	Turbidity, Severity			AB	5/30/2011
May 2011	602	00056	Flow Rate			AB	5/30/2011
May 2011	602	00010	Water Temperature			AB	5/31/2011
May 2011	602	00083	Color, Severity			AB	5/31/2011
May 2011	602	01330	Odor, Severity			AB	5/31/2011
May 2011	602	01350	Turbidity, Severity			AB	5/31/2011
May 2011	602	00056	Flow Rate			AB	5/31/2011

Please note that the use of code **AB** is not appropriate in the above instances of reporting. The proper use of the code **AB** is defined below:

***AB - Analytical Data Lost:*** Use this code when the analytical data for a sample has been lost. This applies only to recorded data (e.g. paper records, data disks, etc.). This code is not to be used when a sample is lost. In such a case, the sample would be considered not to have been taken. The circumstances causing the use of this code should be explained in a Specific Comment on the first date of occurrence for each parameter.

Please review the monthly records for November 2010 and May 2011, to determine the actual cause of violation, and choose the correct **A** code for the missing data. The correct information will have to be resubmitted in a corrected eDMR for those months. Also, please inform this office as to what the correct **A** code should have been.

Shively Land Company should continue the implementation of operation and maintenance practices which will enable the WWTP to consistently meet its NPDES Permit limits.

MR. EDMUND COLLENS  
SHIVELY LAND COMPANY  
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If there are questions or comments regarding the contents of this letter, please contact this office.

Respectfully,

A handwritten signature in cursive script that reads "Charles E. Allen".

Charles E. Allen  
Environmental Engineer  
Division of Surface Water

CEA/cs

- Pc: Trumbull County Health Department