



John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

January 28, 2012

RE: LORAIN COUNTY  
CARLISLE TWP.  
CIRCLE K # 5312  
PERMIT NO. 3PR00434  
CEI

Mr. Matt Mc Cure, Dir. of Facilities  
Mac's Convenience Stores  
315 Commons Mall  
Columbus, IN 47201

Dear Mr. Mc Cure:

A compliance evaluation inspection (CEI) was conducted on January 10, 2013, at the wastewater treatment plant (WWTP) serving the Circle K # 5312 convenience store. The inspection was conducted by this writer, and Mr. John Sabo of the Lorain County Health Department. Circle K # 5312 is located at 705 Oberlin Elyria Road, Carlisle Township, Lorain County. The most recent Ohio EPA compliance inspection was on February 17, 2010.

At the time of the January 10<sup>th</sup> WWTP inspection, the following observations were made:

- (1) Contents of the aeration tank were well aerated, and appeared dark greasy brown in color. The return sludge line was returning medium brown sludge from the settling tank to the aeration tank, and foam was present on the surface of the aeration tank contents.
- (2) Settling tank contents were dark brown, and the skimmer was returning clear water from the settling tank to the aeration tank. However, ***the skimmer was adjusted too far below the water surface, and needs to be adjusted to approximately ¼ inch below the surface of the water.***
- (3) Both pumps in the sand filter dosing tank were in the 'AUTO' mode, and were operational when manually tested. The high water level alarm also operated satisfactorily when manually tested.
- (4) When manually operated, the pumps dosed the surface sand filter east cell. Both filter cells (east and west) were ponded with water, with the east cell containing more water than the west cell.

***The filter cells need to have the water drained, and any solids removed off the sand.***

- 5) The tablet chlorination / dechlorination units were not in use, as effluent disinfection is not required from November 1<sup>st</sup> through April 30<sup>th</sup>. Both the chlorination and dechlorination units contain 2 tablet tubes each, and the tubes were lying on the ground alongside the disinfection tank.

A review of the effluent data submitted for the Circle K #5312 WWTP, covering the period since the last CEI (February 1, 2010 through January 1, 2013), was conducted prior to the inspection. The electronic Discharge Monitoring Report (eDMR) data revealed the following numeric effluent violations of the Circle K #5312 NPDES permit to discharge:

**CIRCLE K # 5312**  
**NPDES PERMIT NUMBER 3PR00434**  
**NUMERIC EFFLUENT VIOLATIONS**  
**(FEBRUARY 1, 2010 THROUGH JANUARY 1, 2013)**

| Reporting Period | Parameter                 | Limit Type | Limit | Reported Value | Violation Date |
|------------------|---------------------------|------------|-------|----------------|----------------|
| March 2010       | Total Suspended Solids    | 30D Conc   | 12    | 21.            | 3/1/2010       |
| March 2010       | Nitrogen, Ammonia (NH3-N) | 30D Conc   | 3.0   | 3.6            | 3/1/2010       |
| March 2010       | CBOD 5 day                | 30D Conc   | 10    | 11.            | 3/1/2010       |
| March 2010       | Total Suspended Solids    | 1D Conc    | 18    | 21.            | 3/26/2010      |
| March 2010       | pH                        | 1D Conc    | 6.5   | 6.3            | 3/26/2010      |
| June 2010        | Nitrogen, Ammonia (NH3-N) | 30D Conc   | 1.0   | 7.62           | 6/1/2010       |
| June 2010        | Nitrogen, Ammonia (NH3-N) | 30D Qty    | 0.006 | .01442         | 6/1/2010       |
| June 2010        | Nitrogen, Ammonia (NH3-N) | 1D Conc    | 1.5   | 7.62           | 6/27/2010      |
| June 2010        | Nitrogen, Ammonia (NH3-N) | 1D Qty     | 0.009 | .01442         | 6/27/2010      |
| August 2010      | Nitrogen, Ammonia (NH3-N) | 30D Conc   | 1.0   | 3.13           | 8/1/2010       |
| August 2010      | Nitrogen, Ammonia (NH3-N) | 1D Conc    | 1.5   | 2.99           | 8/12/2010      |
| August 2010      | Nitrogen, Ammonia (NH3-N) | 1D Conc    | 1.5   | 3.27           | 8/26/2010      |
| December 2011    | Total Suspended Solids    | 30D Conc   | 12    | 16.            | 12/1/2011      |
| March 2012       | Dissolved Oxygen          | 1D Conc    | 6.0   | 2.1            | 3/21/2012      |
| June 2012        | Dissolved Oxygen          | 1D Conc    | 6.0   | 5.5            | 6/27/2012      |
| August 2012      | Dissolved Oxygen          | 1D Conc    | 6.0   | 4.3            | 8/1/2012       |

Mac's Convenience Stores (Circle K #5312) should correct the above-outlined maintenance deficient items, and continue the implementation of operation and maintenance practices which will enable the WWTP to consistently meet its NPDES Permit limits. Please be advised that failure to consistently meet the permitted effluent limits can subject the owner to legal enforcement action for violation of those limits.

Please contact Mr. Sabo at the Lorain County Health Department (440-284-3228) to re-inspect the WWTP when the above corrections are made.

If there are questions or comments regarding the contents of this letter, please contact this office.

Respectfully,



Charles E. Allen  
Environmental Engineer  
Division of Surface Water

CEA/cs

cc: John Sabo, Lorain County Health Department

File: SP/Lorain/CarlisleTwp/Circle K 5312