



**Environmental
Protection Agency**

John Kasich, Governor
Mike DeWine, Lt. Governor
Curtis Spivey, Director

April 29, 2010

RE: Summit County
Fishcreek WWTP #25
3PK00012*HD
Compliance Evaluation Inspection/
Pre-Permit Inspection

Mr. David E. Marquard
Summit County, Environmental Services
2525 State Road
Cuyahoga Falls, OH 44223

Dear Mr. Marquard:

On April 21, 2010, a Compliance Evaluation Inspection (CEI)/Pre-Permit Inspection was conducted at the Summit County Fishcreek WWTP #25. Present during the inspection was Mr. Robert Hollis, Deputy Director of Operations, and Mr. Jeffery Muckelroy of Summit County D.O.E.S.

The plant's current NPDES permit is based on an ADDF of 8.0 MGD. According to our files, the wastewater treatment plant consists of bar screens, two aerated grit chambers (42,000 gallons each), and a flow splitter. From the flow splitter, the wastewater can proceed to either of the two 4.0 MGD parallel plants or the 1.4 MG equalization tank. One plant consists of RBC's and the other, which currently is the only plant being utilized, consists of the Orbal oxidation ditch. Prior to the oxidation ditch is ferric chloride addition. Following the oxidation ditch are two final clarifiers and then four traveling bridge tertiary filters (total of 4096 square feet). Following the filters is ultraviolet disinfection, post aeration, and an effluent parshall flume flow meter.

The sludge handling facilities consist of a 100,000 gallon sludge blending tank, six 275,000 gallon digester tanks (total of 2,200,000 gallons), a 100,000 gallon sludge decant tank, a sludge holding tank, and belt filter presses. The sludge cake is hauled to PPG Lime Lakes Reclamation area.

During the inspection, one bar screen was in service, one aerated grit chamber was in service, the oxidation ditch was being utilized, and three of the tertiary filters were being utilized. The ultraviolet unit was being prepared for usage. The effluent appeared clear of visible solids.

It was learned that the Fishcreek WWTP has begun running a three month trial period of Arkea bugs in the plant influent. It's understood that Arkea is supposed to make the carbon and nitrogen cycles more efficient, reduce sludge generation, break down accumulated sludge, and reduce ammonia and nitrate levels. Sludge is claimed to be reduced by 30%. It's understood that the Kent WWTP is also experimenting with Arkea.

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Upon review of the Discharge Monitoring Reports (DMRs) from April 1, 2009 through April 1, 2010, the following numeric effluent violations were noted:

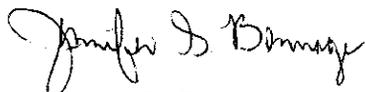
Permit No	Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
3PK00012*HD	September 2009	001	Nitrogen, Ammonia (NH3)	30D Conc	1.0	1.46538	9/1/2009
3PK00012*HD	September 2009	001	Nitrogen, Ammonia (NH3)	7D Conc	1.5	3.1	9/22/2009
3PK00012*HD	October 2009	001	Nitrogen, Ammonia (NH3)	30D Conc	1.0	2.955	10/1/2009
3PK00012*HD	October 2009	001	Nitrogen, Ammonia (NH3)	7D Conc	1.5	5.33333	10/1/2009
3PK00012*HD	October 2009	001	Nitrogen, Ammonia (NH3)	7D Conc	1.5	6.3	10/8/2009
3PK00012*HD	October 2009	001	Nitrogen, Ammonia (NH3)	30D Qty	30.3	41.2109	10/1/2009
3PK00012*HD	October 2009	001	Nitrogen, Ammonia (NH3)	7D Qty	45.4	79.1191	10/1/2009
3PK00012*HD	October 2009	001	Nitrogen, Ammonia (NH3)	7D Qty	45.4	83.2864	10/8/2009

Please be advised such instances of noncompliance are subject to enforcement pursuant to ORC 6111.

The Public Notice of the draft renewal NPDES permit will be published in the local newspaper. Changes in the renewal permit include the following: Please note that the draft permit contains an initial effluent table which lasts until November 1, 2010, an interim effluent table which lasts until May 1, 2011, and a final effluent table which lasts until the permit expiration date. The mercury effluent limit changes from 2.3 ng/l to 1.3 ng/l in the interim table, and an E. coli limit exists in the final table. Also, because there is no longer a photo processing facility on the sewer system, silver monitoring is no longer required. Furthermore, the reporting requirements for sludge being applied at the PPG Lime Lakes Reclamation Area have been reduced to only reporting sludge weight once/year.

In conclusion, the plant appeared to be in good operation and maintenance condition. If you have any questions, please contact this office at (330) 963-1151.

Sincerely,



Jennifer S. Bennage
Environmental Engineer
Division of Surface Water

JSB/mt

cc: Mr. Robert Hollis, Summit County D.O.E.S.
Mr. Jeff Muckelroy, Summit County D.O.E.S.