Environmental Protection Agency
John R. Kasich, **Governor**
Mary Taylor, **Lt. Governor**
Scott J. Nally, **Director**

April 19, 2012

RE: GEAUGA COUNTY
NPDES PERMIT COMPLIANCE
INSPECTIONS

Geauga County Board of Commissioners
470 Center Street, Building #3
Chardon, OH 44024

CERTIFIED MAIL

Dear Commissioners:

On March 30, 2012, inspections were conducted at four wastewater treatment plants (WWTP) operated and maintained by Geauga County. Mr. Jim Reider of Geauga County Water Resources was interviewed and the facilities were inspected in his presence. The intent of the inspections was to gather information for the renewal of the National Pollutant Discharge Elimination System (NPDES) permits for Newbury Center, Surrey Downs and Russell Park. The operations, maintenance and construction progress were inspected at Infirmary.

Discharge monitoring reports from January 1, 2009 through April 1, 2012 were reviewed for compliance with the current NPDES permits at each facility. A violation summary for each treatment system has been attached to this letter. The following is a summary of the inspections conducted at each facility:

INFIRMARY CREEK NPDES #3PG00103
The current WWTP has an average design flow of 80,000 gpd. According to discharge monitoring report data, the flow to the wastewater plant over the past three years averaged 100,000 gpd. PTI No. 748233 was issued August 30, 2010 for an upgraded wastewater treatment system. The upgraded WWTP will have a capacity of 149,000 gpd. WWTP upgrades are under construction with an estimated completion date in June 2012. At the time of the inspection, all WWTP units except UV disinfection were operational. The WWTP service area includes the County Jail and Geauga Hospital. It is understood the hospital accounts for nearly 65% of the capacity of the WWTP.

The aeration tank contained a mixed liquor that was a dark gray color. The surface sand filters were covered with solids and some flooding was occurring. The surface sand filters are plugged due to the heavy solids passing through the plant during heavy rain events. The sludge holding tank at the existing plant has been converted into a makeshift clarifier to assist in the settling of solids. It is understood solids are removed directly from the aeration tank. Any solids and sand removed from the surface sand filters is hauled to McFarland Creek WWTP for disposal. The flow meter is located at the head works of the plant. All effluent samples are currently collected in a series of three grab samples. The upgraded WWTP will include composite samplers.

Northeast District Office
2110 East Aurora Road
Twinsburg, OH 44087-1924

330 | 963 1200
330 | 487 0769 (fax)
www.epa.ohio.gov

The final effluent was clear and free of solids. Although the existing WWTP is not satisfactory, this office takes into consideration the upgrades that are under construction when reviewing the condition of the WWTP.

NEWBURY CENTER NPDES #3PT00026

The WWTP has an average design flow of 30,000 gpd. According to discharge monitoring report data, the flow to the wastewater plant over the past three years averaged 6,500 gpd. A review of the discharge monitoring data revealed code AD was often reported for flow. Reporting code "AD" represents "automatic analyzer out of service". Our records indicate code "AD" was reported for most of March 2012, all of February 2012, all but one day in January 2012, most of December 2011, September 2011, August 2011 and July 2011. The inaccurate reporting of flow at this facility appears to be an ongoing issue. The accurate reporting of flow is required to comply with the requirements in the NPDES permit. This may indicate that a different or updated flow monitoring device is needed at the facility. It is recommended the County evaluate the condition of the flow monitoring device at this facility. Replacing the flow monitoring device would not require the submittal of a permit-to-install (PTI).

At the time of the inspection, all processes except UV disinfection were in operation. The plant was producing a final effluent that appeared satisfactory. It is understood the facility had solids hauled into the system March 9th because the plant did not have enough solids circulating in the system. There may have been too many solids added to the system and the facility appeared to be taking a while to rebalance.

All the process unit tanks are covered with solid grates. The flow equalization tank was provided with adequate air circulation. The grates for the flow equalization tank contained rust and a strong sulfur odor was noted when the grates were lifted for the inspection. The aeration tanks contained a mixed liquor that appeared dark brown. The sludge return line was in operation. There was adequate air circulation within the aeration tanks with good rollover visually noted. The clarifier contained solids on the surface of the tanks and the influent baffle/scum box. The effluent from the clarifier appeared to be clear. The rapid sand filters were in operation and appeared to be in good operating condition. The sludge digester was over half full and it was not aerated at the time of the inspection because the operator was decanting. It is understood this tank is pumped out approximately three times a year. All solids are removed from the system are hauled to McFarland Creek WWTP for further processing. The final outfall appeared clear of solids and no odors were noted.

SURREY DOWNS NPDES # 3PG00006

The WWTP has an average daily design flow of 10,000 gpd. According to discharge monitoring report data, the flow reported over the past three years averaged 3700 gpd.

At the time of the inspection, all process units except UV disinfection were in operation. The plant was producing a final effluent that appeared satisfactory. The blowers were in operation and appeared to be supplying a satisfactory amount of air to the treatment units. The flow equalization tank was in operation and appeared to be in satisfactory condition. The aeration tanks contained a mixed liquor that was a chocolate brown color. The sludge return lines were in operation. The clarifier contained solids on the surface of the tank, influent baffle and effluent weir. The skimmer was visible and had some solids accumulation. It appears the clarifier needs to be scraped down to promote the settling of solids within the clarifier and promote the effective balance of solids within the treatment system.

The surface sand filters appeared to have been raked recently and were in good condition. The raked solids were being stored in piles on the filter beds. The solids and sand must be removed from the filter bed and disposed of offsite. The raked solids must not be stored on the filter bed because this reduces the effective surface area of the filter bed. The UV unit was not in service and it was not known if the bulbs were removed from the modules. The bulbs should be removed after each disinfection season so the units can be effectively cleaned and maintained prior to the start of the next disinfection season. The effluent in the disinfection tank appeared to contain small amounts of pin floc algae. The final effluent was clear and appeared to be in satisfactory condition.

RUSSELL PARK NPDES #3PG00001

The inspection of this WWTP was a follow up inspection to evaluate the condition of the rapid sand filters. According to our records, the rapid sand filters have been out of service since the previous inspection by this office on June 16, 2011. It is understood the rapid sand filters remain out of service due to a mechanical part that has been ordered and is delayed/backordered. The filters were rehabilitated recently but the pumps are currently not in working order. It is understood the control panel to the filters was previously located in a flood zone. The control panel was recently installed out of the flood zone. The WWTP is currently bypassing the rapid sand filters until the filter pumps can be placed back online. It was estimated this work would be completed within 30 days from the time of the inspection. This office must be notified when the rapid sand filters are placed online.

The NPDES permit for this facility has been drafted and will be public noticed once the above noted maintenance has been completed on the system. The inspection of the remainder of the WWTP revealed all other treatment processes except UV disinfection were online. The aeration tank was in satisfactory condition with adequate air circulation within the tanks. The sludge return lines were in operation. There was some foam noticed in the aeration tanks. The system was wasting sludge at the time of the inspection. The clarifier contained solids on the surface of the tank and in the baffles. The effluent weir contained some solids and the effluent from the clarifier appeared clear. The sludge digester was online and aerated during the inspection. The tank contained some foam and was about half full. The final outfall was inspected and was in satisfactory condition.

SUMMARY

The renewal NPDES permits for Newbury (NPDES 3PT00026), Surrey Downs (NPDES 3PG00006) will be public noticed in the near future. These permits will be public noticed for 30 days. Once the permits are public noticed, you will have 30 days to make any comments. The NPDES permit for Russell Park (NPDES 3PG00001) will be public noticed once the maintenance work has been completed on the system.

For the wastewater plants that are outdated and reaching the end of their life, a plan is recommended for replacement or repair of these systems. Please prepare a schedule, which outlines the County's plans for the treatment systems in the next 5-10 years. This schedule will be a useful tool for this office during subsequent inspections and meetings.

If you have any questions or comments regarding this letter, please contact this office at (330) 963-1299.

Respectfully,

Laura A. Weber, P.E.
Environmental Engineer
Division of Surface Water

LAW/cs

cc: Doug Bowen, Jerry Morgan, Jim Reider, Geauga Department of Water Resources
Geauga County Health Department

File: Public/Geauga County

INFIRMARY WWTP VIOLATION SUMMARY

INFIRMARY WWTP DISCHARGE VIOLATIONS

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
December 2011	001	00400	pH	1D Conc	6.5	6.34	12/30/2011
February 2012	001	00610	Nitrogen, Ammonia (NH3	30D Qty	1.2	1.46754	2/1/2012
December 2011	001	00530	Total Suspended Solids	7D Conc	18	27.	12/15/2011
January 2012	001	00530	Total Suspended Solids	7D Qty	5.5	6.40422	1/22/2012
March 2012	001	00530	Total Suspended Solids	7D Conc	18	36.5	3/15/2012
December 2011	001	00610	Nitrogen, Ammonia (NH3	30D Qty	1.2	1.5679	12/1/2011
January 2012	001	00610	Nitrogen, Ammonia (NH3	30D Qty	1.2	1.72371	1/1/2012
January 2012	001	00530	Total Suspended Solids	7D Qty	5.5	8.4784	1/15/2012
February 2012	001	00610	Nitrogen, Ammonia (NH3	7D Qty	1.8	1.82134	2/15/2012
March 2012	001	00530	Total Suspended Solids	7D Qty	5.5	22.1460	3/15/2012
December 2011	001	00530	Total Suspended Solids	7D Qty	5.5	13.8985	12/15/2011
March 2012	001	00610	Nitrogen, Ammonia (NH3	7D Qty	1.8	3.1906	3/15/2012
January 2012	001	00530	Total Suspended Solids	30D Qty	3.6	5.1476	1/1/2012
July 2011	001	00400	pH	1D Conc	6.5	6.44	7/19/2011
December 2011	001	00530	Total Suspended Solids	30D Qty	3.6	5.51285	12/1/2011
December 2011	001	00400	pH	1D Conc	6.5	5.89	12/29/2011
January 2012	001	00610	Nitrogen, Ammonia (NH3	7D Qty	1.8	2.00454	1/15/2012
March 2012	001	00530	Total Suspended Solids	30D Conc	12	17.2	3/1/2012
March 2012	001	00610	Nitrogen, Ammonia (NH3	30D Qty	1.2	1.75561	3/1/2012
March 2012	001	00530	Total Suspended Solids	30D Qty	3.6	10.5253	3/1/2012

INFIRMARY CREEK FREQUENCY VIOLATIONS

Reporting Period	Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
December 2011	001	00010	Water Temperature	1/Day	1	0	12/7/2011
December 2011	001	00083	Color, Severity	1/Day	1	0	12/7/2011
December 2011	001	01330	Odor, Severity	1/Day	1	0	12/7/2011
January 2012	001	00010	Water Temperature	1/Day	1	0	1/10/2012
February 2012	001	00010	Water Temperature	1/Day	1	0	2/7/2012
February 2012	001	00010	Water Temperature	1/Day	1	0	2/9/2012
December 2011	001	00010	Water Temperature	1/Day	1	0	12/2/2011
February 2012	001	00010	Water Temperature	1/Day	1	0	2/13/2012
February 2012	001	00010	Water Temperature	1/Day	1	0	2/29/2012
December 2011	001	00010	Water Temperature	1/Day	1	0	12/16/2011
December 2011	001	00010	Water Temperature	1/Day	1	0	12/21/2011
January 2012	001	00010	Water Temperature	1/Day	1	0	1/30/2012
February 2012	001	01350	Turbidity, Severity	1/Day	1	0	2/13/2012
December 2011	001	01350	Turbidity, Severity	1/Day	1	0	12/7/2011
January 2012	001	00010	Water Temperature	1/Day	1	0	1/6/2012
January 2012	001	00010	Water Temperature	1/Day	1	0	1/23/2012
January 2012	001	00010	Water Temperature	1/Day	1	0	1/27/2012
February 2012	001	01330	Odor, Severity	1/Day	1	0	2/13/2012
February 2012	001	00083	Color, Severity	1/Day	1	0	2/13/2012
January 2012	001	00010	Water Temperature	1/Day	1	0	1/25/2012
February 2012	001	00010	Water Temperature	1/Day	1	0	2/3/2012

NEWBURY VIOLATION SUMMARY

NEWBURY DISCHARGE VIOLATIONS

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
January 2010	001	80082	CBOD 5 day	30D Conc	10	12.05	1/1/2010
January 2010	001	80082	CBOD 5 day	7D Conc	15	21.2	1/8/2010
January 2010	001	80082	CBOD 5 day	7D Conc	15	17.1	1/15/2010
January 2010	001	00300	Dissolved Oxygen	1D Conc	6.0	5.8	1/19/2010
June 2010	001	00300	Dissolved Oxygen	1D Conc	6.0	5.6	6/21/2010
February 2011	001	00300	Dissolved Oxygen	1D Conc	6.0	5.2	2/22/2011
August 2011	001	00300	Dissolved Oxygen	1D Conc	6.0	4.1	8/1/2011
August 2011	001	00300	Dissolved Oxygen	1D Conc	6.0	4.6	8/8/2011
August 2009	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	1.89	8/1/2009
January 2010	001	00610	Nitrogen, Ammonia (NH3	30D Conc	4.0	8.07933	1/1/2010
January 2010	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.68	.77146	1/15/2010
January 2010	001	00610	Nitrogen, Ammonia (NH3	7D Conc	6.0	23.7	1/15/2010
July 2010	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	2.26	7/1/2010
February 2011	001	00610	Nitrogen, Ammonia (NH3	30D Conc	4.0	5.256	2/1/2011
February 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	6.0	10.4	2/15/2011
July 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	1.94	7/1/2011
August 2011	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.1	2.821	8/1/2011

August 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	5.49	8/22/2011
September 2011	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.1	2.655	9/1/2011
September 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	4.12	9/22/2011
January 2009	001	00530	Total Suspended Solids	7D Conc	18	32.	1/22/2009
October 2009	001	00530	Total Suspended Solids	30D Conc	12	14.25	10/1/2009
January 2010	001	00530	Total Suspended Solids	30D Conc	12	14.	1/1/2010
January 2010	001	00530	Total Suspended Solids	7D Conc	18	20.	1/15/2010
January 2010	001	00530	Total Suspended Solids	7D Conc	18	22.	1/22/2010
April 2010	001	00530	Total Suspended Solids	7D Conc	18	22.5	4/22/2010
May 2010	001	00530	Total Suspended Solids	7D Conc	18	24.	5/1/2010
May 2010	001	00530	Total Suspended Solids	30D Conc	12	18.4	5/1/2010
May 2010	001	00530	Total Suspended Solids	7D Conc	18	30.5	5/8/2010
February 2011	001	00530	Total Suspended Solids	30D Conc	12	16.2	2/1/2011
February 2011	001	00530	Total Suspended Solids	7D Qty	2.05	3.45419	2/15/2011
February 2011	001	00530	Total Suspended Solids	7D Conc	18	54.	2/15/2011
May 2011	001	00530	Total Suspended Solids	7D Conc	18	19.5	5/8/2011
December 2011	001	00530	Total Suspended Solids	30D Conc	12	16.	12/1/2011
December 2011	001	00530	Total Suspended Solids	7D Conc	18	40.	12/22/2011
January 2012	001	00530	Total Suspended Solids	7D Conc	18	22.	1/1/2012
January 2012	001	00530	Total Suspended Solids	30D Conc	12	18.75	1/1/2012
January 2012	001	00530	Total Suspended Solids	7D Conc	18	20.	1/8/2012
January 2012	001	00530	Total Suspended Solids	7D Conc	18	19.	1/22/2012
February 2012	001	00530	Total Suspended Solids	30D Conc	12	18.6666	2/1/2012
February 2012	001	00530	Total Suspended Solids	7D Conc	18	22.	2/15/2012

NEWBURY FREQUENCY VIOLATIONS

Reporting Period	Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
June 2010	001	50050	Flow Rate	1/Day	1	0	6/29/2010
December 2011	001	00010	Water Temperature	1/Day	1	0	12/15/2011
June 2010	001	50050	Flow Rate	1/Day	1	0	6/18/2010
June 2010	001	50050	Flow Rate	1/Day	1	0	6/20/2010
August 2011	001	80082	CBOD 5 day	1/Week	1	0	8/1/2011
August 2011	001	00530	Total Suspended Solids	1/Week	1	0	8/1/2011
June 2010	001	50050	Flow Rate	1/Day	1	0	6/7/2010
June 2010	001	50050	Flow Rate	1/Day	1	0	6/30/2010
August 2011	001	80082	CBOD 5 day	1/Week	1	0	8/15/2011
June 2010	001	50050	Flow Rate	1/Day	1	0	6/9/2010
June 2010	001	50050	Flow Rate	1/Day	1	0	6/16/2010
June 2010	001	50050	Flow Rate	1/Day	1	0	6/19/2010
June 2010	001	50050	Flow Rate	1/Day	1	0	6/21/2010
August 2011	001	00530	Total Suspended Solids	1/Week	1	0	8/15/2011
June 2010	001	50050	Flow Rate	1/Day	1	0	6/10/2010
June 2010	001	50050	Flow Rate	1/Day	1	0	6/12/2010
June 2010	001	50050	Flow Rate	1/Day	1	0	6/17/2010
June 2010	001	50050	Flow Rate	1/Day	1	0	6/26/2010
June 2010	001	50050	Flow Rate	1/Day	1	0	6/8/2010

June	2010	001	50050	Flow Rate	1/Day	1	0	6/15/2010
June	2010	001	50050	Flow Rate	1/Day	1	0	6/24/2010
June	2010	001	50050	Flow Rate	1/Day	1	0	6/28/2010
June	2010	001	50050	Flow Rate	1/Day	1	0	6/13/2010
June	2010	001	50050	Flow Rate	1/Day	1	0	6/25/2010
June	2010	001	50050	Flow Rate	1/Day	1	0	6/27/2010
June	2010	001	50050	Flow Rate	1/Day	1	0	6/11/2010
June	2010	001	50050	Flow Rate	1/Day	1	0	6/14/2010
June	2010	001	50050	Flow Rate	1/Day	1	0	6/22/2010
June	2010	001	50050	Flow Rate	1/Day	1	0	6/23/2010

SURREY DOWNS VIOLATION SUMMARY

SURREY DOWNS DISCHARGE VIOLATIONS

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
February 2010	001	00400	pH	1D Conc	9.0	9.61	2/23/2010
February 2010	001	00400	pH	1D Conc	9.0	9.7	2/24/2010
February 2010	001	00400	pH	1D Conc	9.0	9.82	2/25/2010
February 2010	001	00400	pH	1D Conc	9.0	10.21	2/26/2010
July 2009	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.5	2.391	7/1/2009
July 2009	001	00610	Nitrogen, Ammonia (NH3	7D Conc	2.25	9.38	7/8/2009
December 2010	001	00400	pH	1D Conc	6.5	6.08	12/29/2010
May 2011	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.5	7.73	5/1/2011
May 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	2.25	7.87	5/15/2011
May 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	2.25	7.59	5/22/2011
May 2011	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.06	.28997	5/1/2011
May 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.09	.26258	5/15/2011
May 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.09	.31736	5/22/2011
June 2011	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.5	1.895	6/1/2011
June 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	2.25	3.54	6/1/2011
June 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.09	.09848	6/1/2011
March 2011	001	00530	Total Suspended Solids	30D Conc	12	21.25	3/1/2011
March 2011	001	00530	Total Suspended Solids	7D Conc	18	34.	3/22/2011
March 2011	001	00530	Total Suspended Solids	30D Qty	0.45	.60671	3/1/2011
March 2011	001	00530	Total Suspended Solids	7D Qty	0.68	1.06285	3/22/2011
April 2011	001	00530	Total Suspended Solids	30D Conc	12	16.	4/1/2011
April 2011	001	00530	Total Suspended Solids	7D Conc	18	19.	4/15/2011

SURREY DOWNS FREQUENCY VIOLATIONS

Reporting Period	Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
May 2009	001	00083	Color, Severity	1/Day	1	0	5/14/2009
March 2010	001	00083	Color, Severity	1/Day	1	0	3/26/2010
March 2010	001	01330	Odor, Severity	1/Day	1	0	3/26/2010
November 2010	001	00083	Color, Severity	1/Day	1	0	11/24/2010
November 2010	001	00083	Color, Severity	1/Day	1	0	11/29/2010
November 2010	001	00083	Color, Severity	1/Day	1	0	11/30/2010
November 2010	001	01330	Odor, Severity	1/Day	1	0	11/24/2010
November 2010	001	01330	Odor, Severity	1/Day	1	0	11/30/2010
November 2010	001	01350	Turbidity, Severity	1/Day	1	0	11/29/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/1/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/2/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/4/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/5/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/7/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/8/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/13/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/15/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/17/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/18/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/19/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/21/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/26/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/29/2010
May 2009	001	01350	Turbidity, Severity	1/Day	1	0	5/14/2009
November 2010	001	00056	Flow Rate	1/Day	1	0	11/16/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/27/2010
November 2010	001	01330	Odor, Severity	1/Day	1	0	11/29/2010
May 2009	001	01330	Odor, Severity	1/Day	1	0	5/14/2009
November 2010	001	00056	Flow Rate	1/Day	1	0	11/3/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/9/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/11/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/14/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/20/2010
March 2010	001	01350	Turbidity, Severity	1/Day	1	0	3/26/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/6/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/12/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/23/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/24/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/28/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/30/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/10/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/22/2010
November 2010	001	01350	Turbidity, Severity	1/Day	1	0	11/24/2010
November 2010	001	00056	Flow Rate	1/Day	1	0	11/25/2010
November 2010	001	01350	Turbidity, Severity	1/Day	1	0	11/30/2010

RUSSELL PARK VIOLATION SUMMARY

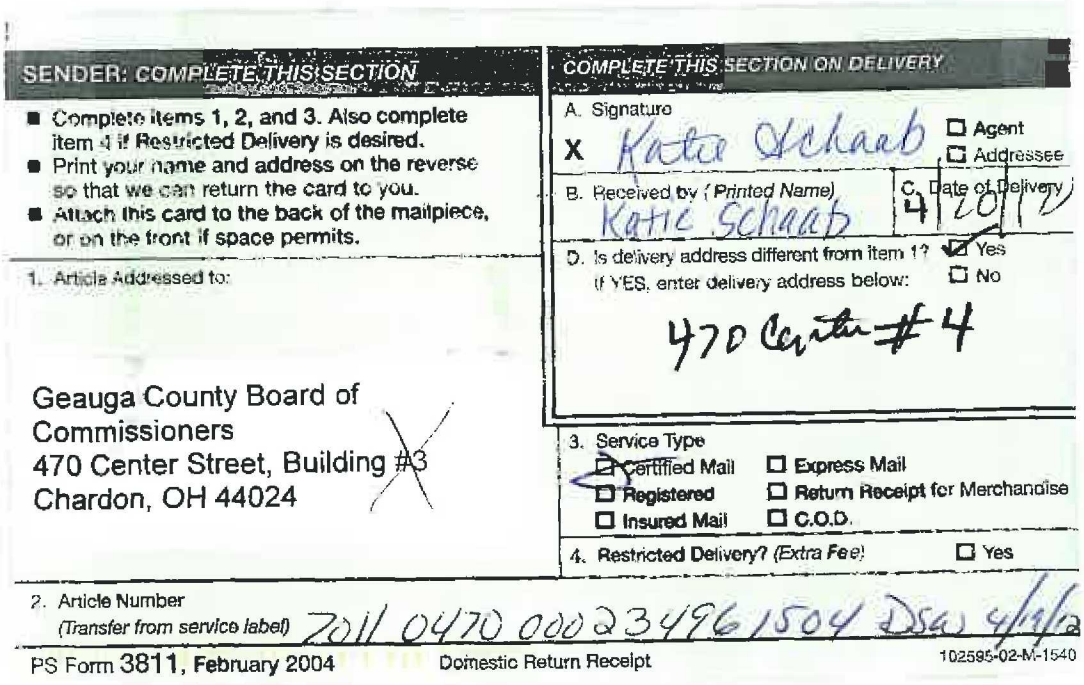
RUSSELL PARK DISCHARGE VIOLATIONS

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
February 2010	001	00400	pH	1D Conc	9.0	9.5	2/24/2010
February 2010	001	00400	pH	1D Conc	9.0	9.57	2/25/2010
February 2010	001	00400	pH	1D Conc	9.0	10.34	2/26/2010
February 2009	001	00530	Total Suspended Solids	7D Qty	5.46	6.8887	2/8/2009
May 2010	001	00530	Total Suspended Solids	7D Conc	18	18.5	5/15/2010
May 2010	001	00530	Total Suspended Solids	7D Qty	5.46	6.51815	5/15/2010
October 2010	001	00530	Total Suspended Solids	7D Conc	18	25.	10/8/2010
October 2011	001	00530	Total Suspended Solids	7D Conc	18	23.	10/22/2011
October 2011	001	00530	Total Suspended Solids	30D Qty	3.64	3.84253	10/1/2011
October 2011	001	00530	Total Suspended Solids	7D Qty	5.46	8.02155	10/22/2011
January 2012	001	00530	Total Suspended Solids	30D Conc	12	14.75	1/1/2012
January 2012	001	00530	Total Suspended Solids	7D Conc	18	26.	1/22/2012
January 2012	001	00530	Total Suspended Solids	30D Qty	3.64	4.98551	1/1/2012
January 2012	001	00530	Total Suspended Solids	7D Qty	5.46	5.62754	1/15/2012
January 2012	001	00530	Total Suspended Solids	7D Qty	5.46	8.71913	1/22/2012
April 2011	001	00530	Total Suspended Solids	7D Qty	5.46	5.4769	4/1/2011

RUSSELL PARK FREQUENCY VIOLATIONS

Reporting Period	Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
November 2010	001	00010	Water Temperature	1/Day	1	0	11/16/2010
November 2010	001	00010	Water Temperature	1/Day	1	0	11/19/2010
November 2010	001	00010	Water Temperature	1/Day	1	0	11/29/2010
November 2010	001	00010	Water Temperature	1/Day	1	0	11/30/2010
November 2010	001	00083	Color, Severity	1/Day	1	0	11/19/2010
November 2010	001	00083	Color, Severity	1/Day	1	0	11/22/2010
November 2010	001	00083	Color, Severity	1/Day	1	0	11/24/2010
November 2010	001	01330	Odor, Severity	1/Day	1	0	11/22/2010
November 2010	001	01330	Odor, Severity	1/Day	1	0	11/24/2010
November 2010	001	01330	Odor, Severity	1/Day	1	0	11/30/2010
November 2010	001	01350	Turbidity, Severity	1/Day	1	0	11/19/2010
November 2010	001	01350	Turbidity, Severity	1/Day	1	0	11/22/2010
November 2010	001	01350	Turbidity, Severity	1/Day	1	0	11/29/2010
November 2010	001	01350	Turbidity, Severity	1/Day	1	0	11/30/2010
November 2010	001	50050	Flow Rate	1/Day	1	0	11/16/2010
November 2010	001	50050	Flow Rate	1/Day	1	0	11/18/2010
November 2010	001	50050	Flow Rate	1/Day	1	0	11/19/2010
November 2010	001	50050	Flow Rate	1/Day	1	0	11/21/2010
November 2010	001	50050	Flow Rate	1/Day	1	0	11/25/2010
November 2010	001	50050	Flow Rate	1/Day	1	0	11/26/2010
November 2010	001	50050	Flow Rate	1/Day	1	0	11/28/2010
December 2011	001	01330	Odor, Severity	1/Day	1	0	12/30/2011

December 2011	001	01350	Turbidity, Severity	1/Day	1	0	12/30/2011
November 2010	001	50050	Flow Rate	1/Day	1	0	11/17/2010
November 2010	001	01330	Odor, Severity	1/Day	1	0	11/18/2010
November 2010	001	01350	Turbidity, Severity	1/Day	1	0	11/18/2010
December 2011	001	00010	Water Temperature	1/Day	1	0	12/16/2011
November 2010	001	00010	Water Temperature	1/Day	1	0	11/22/2010
November 2010	001	50050	Flow Rate	1/Day	1	0	11/23/2010
November 2010	001	01350	Turbidity, Severity	1/Day	1	0	11/24/2010
November 2010	001	01330	Odor, Severity	1/Day	1	0	11/29/2010
December 2011	001	50050	Flow Rate	1/Day	1	0	12/30/2011
November 2010	001	00010	Water Temperature	1/Day	1	0	11/18/2010
November 2010	001	00010	Water Temperature	1/Day	1	0	11/24/2010
November 2010	001	00083	Color, Severity	1/Day	1	0	11/18/2010
November 2010	001	01330	Odor, Severity	1/Day	1	0	11/19/2010
November 2010	001	50050	Flow Rate	1/Day	1	0	11/22/2010
November 2010	001	50050	Flow Rate	1/Day	1	0	11/30/2010
December 2011	001	00083	Color, Severity	1/Day	1	0	12/30/2011
November 2010	001	50050	Flow Rate	1/Day	1	0	11/15/2010
November 2010	001	50050	Flow Rate	1/Day	1	0	11/20/2010
November 2010	001	50050	Flow Rate	1/Day	1	0	11/24/2010
November 2010	001	50050	Flow Rate	1/Day	1	0	11/27/2010
November 2010	001	00083	Color, Severity	1/Day	1	0	11/29/2010
November 2010	001	50050	Flow Rate	1/Day	1	0	11/29/2010
November 2010	001	00083	Color, Severity	1/Day	1	0	11/30/2010
December 2011	001	00010	Water Temperature	1/Day	1	0	12/30/2011



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Geauga County Board of Commissioners
470 Center Street, Building #3
Chardon, OH 44024

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Katie Schaab ☐ Agent ☐ Addressee

B. Received by (Printed Name) Katie Schaab C. Date of Delivery 4/20/12

D. Is delivery address different from item 1? ☑ Yes
If YES, enter delivery address below: ☐ No

470 Center St #4

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7011 0470 0002 3496 1504 DSA 4/4/12

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540