2012 Pretreatment Annual Report

City of York Wastewater Treatment Plant
York, Pennsylvania

NPDES PA0026263

The City of York
Pennsylvania

101 South George Street ❖ PO Box 509 ❖ York PA 17405
www.yorkcity.org
Honorable C. Kim Bracey, Mayor

Veronica Chavez
Pretreatment Permit & Compliance Manager
Department of Public Works – MIPP

March 28, 2013

Certified Mail No. 7010 1870 0000 6639 8053
Liz Ottinger (3WP41)
Pretreatment Coordinator
EPA Region 3
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

RE: 2012 Pretreatment Program Annual Report

Dear Ms. Ottinger:

The City of York Wastewater Treatment Plant 2012 Pretreatment Program Annual Report is enclosed. This report is also submitted as part of the City of York's annual Pennsylvania Chapter 94 Municipal Wasteload Management report. The entire seventh section of the Chapter 94 report, which is dedicated to the pretreatment program, Appendix J containing the wastewater treatment plant's priority pollutant and local limits analytical results, and Appendix K containing correspondence regarding plant performance, are submitted as the City of York's annual pretreatment program report to EPA.

The Monitoring Data Submission Survey is enclosed. The monitoring data summary tables for influent, effluent, and sludge monitoring data will be emailed as allowed by the 2012 pretreatment annual report guidance. A paper copy of the spreadsheet tables is included in the annual report.

Please note that the next cycle of local limit evaluations will begin in 2013. The City of York wastewater treatment plant's NPDES discharge permit expired January 13, 2013. The new permit has not been issued as of late-March 2013. The local limits sampling plan is required to be submitted to EPA within three months of permit issuance, which would have occurred mid-April 2013: because the NPDES renewal has not yet been issued, the sampling plan cannot be submitted under the original timeframe.

Should you have any questions, or require further information, please do not hesitate to contact me at 717-812-1444 (office), 717-324-6590 (cellular) or vwhaley@yorkcity.org.

Sincerely,

Veronica Whaley Chavez
Pretreatment Permit & Compliance Manager

Enclosures
C: file

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7. *Municipal Industrial Pretreatment Program §94.12 (a)(8)*

7.1. Purpose of the Municipal Industrial Pretreatment Program

Wastewater treatment plants are designed to treat domestic sewage; however, they also receive higher strength wastewater from industrial (non-domestic) facilities and processes. Recognizing that industrial wastewater often has different types and greater concentrations of pollutants compared to household wastewater, the United States Environmental Protection Agency (USEPA) established the National Pretreatment Program. The program's authority comes from Section 307 of the Federal Water Pollution Control Act, which is referred to as the Clean Water Act.

The National Pretreatment Program requires wastewater treatment plants to enforce all federal pretreatment standards and requirements in addition to any local sewer use regulations. The goals of the pretreatment program are to:

- prevent the introduction of industrial pollutants into wastewater treatment plants that interfere with, or are incompatible with, wastewater treatment plant processes and operations,
- prevent industrial facility pollutants from passing through wastewater treatment plants into receiving waters (i.e., streams or lakes),
- prevent the contamination of, and improve the quality of, municipal and industrial wastewater and sludges so they can be properly disposed of or used for beneficial purposes, and
- protect treatment plants, sanitary sewer systems, their workers and the safety of the public and the environment from the threats posed by industrial wastewater. [3, 4]

The City of York Municipal Industrial Pretreatment Program (MIPP) is responsible for monitoring the industrial and commercial wastewater dischargers in the City of York Wastewater Treatment Plant service area. This is accomplished through inspections and sampling of industrial wastewater. Inspections are performed to ensure industries conduct their manufacturing processes and operate their wastewater treatment systems in compliance with pretreatment regulations, and to prevent the discharge of unwanted substances to the sanitary sewer system and wastewater treatment plant. The results of wastewater sample tests allow the City of York to evaluate an industrial user's (IU) compliance with both federal and local wastewater regulations. To meet federal and local wastewater limits, some industrial facilities may be required to treat their wastewater before releasing it into the sewer; hence, the term "pretreatment." Wastewater test results are also used to recoup costs incurred by the City of York wastewater treatment plant to process the higher strength industrial waste - costs that would otherwise be borne by ratepayers.

7.2. Reporting Requirements

This section documents the activities of the City of York Municipal Industrial Pretreatment Program (MIPP) for reporting year 2012. It fulfills the Pennsylvania Department of Environmental Protection's (PADEP) annual Chapter 94 reporting requirements, the annual reporting requirements of the City of York Wastewater Treatment Plant's National Pollution Discharge Elimination System (NPDES) permit, and the United States Environmental Protection Agency's (USEPA) annual pretreatment program reporting requirements. The format of the section is based on the USEPA 2012 reporting year pretreatment annual report guidance, which includes a program summary and various supporting attachments showing more detailed information.

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3 40 CFR 401.12(f), 40 CFR 403.2

4 1996. Pretreatment Facility Inspection. 3rd ed. California State University, Sacramento.

7.3. Pretreatment Performance Summary

I. General Information

Control Authority Name: **City of York Wastewater Treatment Plant**
Address: **1701 Blackbridge Rd**
City: **York** State: **PA** Zip+4: **17402-1911**
Contact Person: **Andy Jantzer**
Contact Title: **General Manager**
Contact Telephone Number: **717-845-2794**
E-mail address: **ajantzer@yorkcity.org, vwhaley@yorkcity.org**
NPDES No.: **PA0026263**
Permit Issuance Date: **2/1/2008** Permit Expiration Date: **1/31/2013 (extended)**
Reporting Period: **January 1, 2012 through December 31, 2012**
Total Categorical IUs (CIUs): **9**
Total "Middle Tier" CIUs (MTCIUs): **NA**
Total Nonsignificant CIUs (NSCIUs): **NA**
Total Significant Noncategorical IUs (SNIUs): **20**

II. Compliance Monitoring Program

1. Number of SIUs with current control documents..... **(one compliance order, one zero-discharge permit)** **31**
2. Number of SIU facilities inspected **31**
3. Number of SIU facilities sampled ..... **(No discharge from 2 facilities)** **29**
4. Number of SIUs submitting Self-Monitoring Reports **31**

III. Significant Industrial User Compliance

1. Number of SIUs violating a compliance schedule/Number on a schedule **0/3**
2. Number of SIUs in SNC for the July to December review period **0**
3. Number of SIUs in SNC at any time during calendar year **0**
4. Number of SIUs in SNC that were also in SNC during the pervious calendar year **0**
5. Number of NSCIUs that violated any standards or requirements ..... **NA**

IV. Enforcement Actions

1. Notices/Letters of Violation issued to SIUs **24**
2. Enforceable compliance schedules issued to SIUs **1**
3. Civil/criminal suits filed..... **(due to 2011 activity)** **1**
4. Number of SIUs from which penalties have been collected **1**
5. Other actions (sewer bans, etc.) **0**

I certify that the information contained in this report and attachments is complete and accurate to the best of my knowledge.

Andrew Jantzer
Name of the Authorized Representative

Signature

General Manager of Wastewater Facilities
Title (print)

3-27-13
Date

7.4. Section I, General Information Attachments

A list of categorical industrial users (CIU) and significant non-categorical industrial users (SNIU), which matches the industries referenced in Section I of the Pretreatment Performance Summary, is provided in Table 7-1. Categorical industrial users with the potential to discharge are identified in the "classification" column with "CIU". The federal regulation reference and industrial category are provided in the two immediately following columns. Both the previous and current permit dates are listed to cover the entire 2012 year.

Some changes to the industrial user list were made since the 2011 annual report submission. Industries that were added to or deleted from the list are summarized below:

- **C D & E Refining**, a zero discharge centralized waste treatment facility, previously located at 730 Vogelsong Road Suite DPU, relocated to 1527 St. Paul Street (identified as 351 East Street in the York County geographic information system) March through June 2011. The structure is served by an on-lot septic system and is no longer in the regulatory jurisdiction of the City of York pretreatment program because the new facility is not an indirect discharger to the treatment plant. MIPP contacted PADEP and Spring Garden Township on March 16, 2011 regarding the relocation. The facility is deleted from the list.
- **Yorktowne Paperboard**, a paperboard manufacturer, ceased discharge in 2011 and is deleted from the list.

Other changes that occurred at industrial facilities since the 2011 annual report submission are summarized below:

- **EQ Holdings Inc.**, a centralized waste treatment facility, submitted their renewal permit application under the name **EQ Pennsylvania**. The facility's industrial wastewater discharge permit reflects this name.
- **Hess Gas Station #38254**, located at 253 South Queen Street, which did not have a completed groundwater remediation pretreatment system in 2009 or 2010, and only discharged seventy-seven (77) gallons of wastewater in 2011, is now fully on-line. Discharge commenced in June 2012.

Table 7-1: Categorical and Significant Noncategorical Industrial Users, 2012

ID#	Industrial User		Classification	Categorical Reference	Category	Control Document Issue/ Effective Date	Control Document Expiration Date	Control Document Issue/ Effective Date	Control Document Expiration Date
0088	American Ash Recycling	1072 Roosevelt Av	SI			10/1/2009	9/30/2012	10/1/2012	9/30/2015
0047	Bickel's Snack Foods – College Av	1000-1050 W College Av	SI			10/1/2009	9/30/2012	10/1/2012	9/30/2015
0045	Bickel's Snack Foods – Zinn's Quarry Rd	1120 Zinn's Quarry Rd	SI			10/1/2009	9/30/2012	10/1/2012	9/30/2015
0100	Cintas Corp.	1111 Smile Way	SI			7/1/2011	6/30/2014		
0083	Columbia Gas of Pennsylvania, Inc.	201 Grant St	SI			10/1/2009	9/30/2012	10/1/2012	9/30/2015
0019	Coyne Textile Services	3500 W Market St	SI			10/1/2009	9/30/2012	10/1/2012	9/30/2015
0021	Dentsply International Inc.	470 W College Av	CIU	40 CFR 433	metal finishing	10/1/2009	9/30/2012	10/1/2012	9/30/2015
0099	Dentsply Int'l. Professional Division	1301 Smile Way	SI			1/1/2012	12/31/2014		
0005	EQ Pennsylvania	730 Vogelsong Rd	CIU	40 CFR 437	centralized waste treatment	10/1/2009	9/30/2012	10/1/2012	9/30/2015
0105	First Capital Powder Coating	215 Herman St	CIU	40 CFR 433	metal finishing	11/19/2010	9/30/2013	10/1/2012	9/30/2015
0006	Frito-Lay, Inc.	3553 Gillespie Dr	SI			10/1/2009	9/30/2012	10/1/2012	9/30/2015
0106	Gamlet, Inc.	1750 Toronita St	CIU	40 CFR 433	metal finishing	12/22/2010	9/30/2013		
0098	Hess Gas Station 38254	253 S Queen St	SI			4/1/2010	3/31/2013		
0095	Johnson Controls Inc.- Grantley Campus	631 S Richland Av	SI			10/1/2009	9/30/2012	10/1/2012	9/30/2015
0041	New York Wire Company-Weaving Facility	441 E Market St	CIU	40 CFR 433	metal finishing	10/1/2009	9/30/2012	10/1/2012	9/30/2015
0069	New York Wire Company-Wire Facility	829 Loucks Mill Rd	CIU	40 CFR 433	metal finishing	10/1/2009	9/30/2012	10/1/2012	9/30/2015
0013	North Metal & Chemical Company	609 E King St	SI			10/1/2009	9/30/2012	10/1/2012	9/30/2015
0038	Osram Sylvania, Inc.	1128 Roosevelt Av	CIU	40 CFR 433	metal finishing	10/1/2009	9/30/2012	10/1/2012	9/30/2015
0089	Protech Powder Coatings Inc.	939 Monocacy Rd	SI			10/1/2009	9/30/2012	10/1/2012	9/30/2015
0085	RecOil, Inc.	280 North East St	CIU	40 CFR 437	centralized waste treatment	10/1/2009	9/30/2012	10/1/2012	9/30/2015
0018	Rutter's Dairy, Inc.	2100 N George St	SI			10/1/2009	9/30/2012	10/1/2012	9/30/2015
0092	Surtech Industries Inc	915 Borom Rd	CIU	40 CFR 433	metal finishing	10/1/2009	9/30/2012	10/1/2012	9/30/2015
0039	Warrell Classic Company, The	231 West College Av	SI			7/1/2009	6/30/2012	7/1/2012	6/30/2015
0103	WC Manufacturing Co LLC	615 South Pine St	SI			7/1/2011	6/30/2014		
0035	YGS Group, The	3650 W Market St	SI			10/1/2009	9/30/2012	10/1/2012	9/30/2015
0059	York County Solid Waste & Refuse Auth.	2651 Blackbridge Rd	SI			10/1/2009	9/30/2012	10/1/2012	9/30/2015
0070	York Newspaper Company	1891 Loucks Rd	SI			10/1/2009	9/30/2012	10/1/2012	9/30/2015
0034	York Wallcoverings Inc.- Linden Av	750 Linden Av	SI			10/1/2009	9/30/2012	10/1/2012	9/30/2015
0084	York Wallcoverings Loucks Rd Facility	2075 Loucks Road	SI			1/1/2012	12/31/2014		

CIU – Categorical Industrial User. SI – Significant Non-Categorical Industrial User. NSCIU – Non-Significant Categorical Industrial User.

7.5. Section II, Compliance Monitoring Program Attachments

Permits

As shown in Table 7-2, there were thirty-one (31) significant industrial users with current individual control documents (i.e., permits) in 2012. The City of York does not issue general permits. There are no lapsed or administratively extended permits. All permitted industries submitted the required self-monitoring reports. AMZ Manufacturing Corp. was issued a zero-discharge permit December 11, 2009 and began submitting semi-annual certification statements in 2011. CP Industries was issued a compliance order and notice on September 21, 2009, which requires annual certification regarding wastewater generation and disposal. The City of York did not assign any mass-based limits in place of concentration-based limits to any categorical industrial users, nor were any monitoring waivers granted under 40 CFR 403.12(e)(2) for any categorically regulated pollutant. The City of York required all permitted industrial users that can discharge to self-monitor their wastewater. The City of York did not have any "middle tier" categorical industrial users or nonsignificant categorical industrial users (NSCIU) in 2012.

Inspections

The City of York inspected all facilities in 2012. A summary of 2012 inspection activities is provided in Table 7-2. A comprehensive annual inspection is conducted once per year. Observations are recorded using the annual inspection form. All facilities received an annual inspection

All three zero-discharge facilities were inspected in 2012: AMZ Manufacturing Corp., located at 2206 Pennsylvania Avenue; CP Industries, located at 785 West Philadelphia Street; and, RecOil, Inc., located at 260 North East Street. AMZ Manufacturing Corp. is a metal finishers under 40 CFR 433, CP industries is a soap and detergent manufacturer under 40 CFR 417, and RecOil, Inc. is a centralized waste treatment facility under 40 CFR 437. RecOil, Inc. holds an industrial wastewater discharge permit, but hauls all wastewater for off-site disposal.

Sampling

Wastewater samples were collected from twenty-nine (29) facilities. A summary of 2012 sampling activities is provided in Table 7-2. The number of industrial user sampling events, number of City of York sampling events, and the minimum required number of industrial user samples are shown. The City of York required all permitted industrial users that discharge to self-monitor their wastewater. Hess Gas Station #38254 commenced discharge June 5, 2012: because discharge started in the second quarter, only three quarterly samples were required for Hess Gas Station in 2012.

Two industries were not sampled by the City of York in 2012 due to zero-discharge status. CP Industries' permit was revoked in 2009, and the process wastewater line was capped: the facility certified that all wastewater was transported off-site in 2012. RecOil, Inc.'s wastewater is hauled off-site. Sanitary waste samples were obtained from AMZ Manufacturing Corp., a zero-discharge metal finisher.

Table 7-2: Compliance Monitoring Summary, 2012

ID#	Industrial User	Site Address	IU Sample Results	City of York Sample Results	Total Samples	Required IU Samples	Annual Inspections	Compliance Inspections	Total Inspections
0088	American Ash Recycling	1072 Roosevelt Av, York PA 17104	15	14	29	4	1	0	1
0057	AMZ Corp.*	2206 Pennsylvania Av, York PA 17404	0	3	3	0	1	0	1
0047	Bickel's Snack Foods - College Av	1000-1050 W College Av, York PA 17405	15	16	31	4	1	0	1
0045	Bickel's Snack Foods – Zinn's Quarry Rd	1120 Zinn's Quarry Rd, York PA 17405	14	16	30	4	1	0	1
0100	Cintas Corp.	1111 Smile Way, York PA 17404	4	17	21	4	1	0	1
0083	Columbia Gas of Pennsylvania, Inc.	201 Grant St, York PA 17401	4	8	12	4	1	0	1
0019	Coyne Textile Services	3500 W Market St, York PA 17404	23	16	39	4	1	0	1
0104	CP Industries[2]	785 W Philadelphia St, York PA 17404	2	0	2	0	1	0	1
0021	Dentsply International Inc.	470 W College Av, York PA 17404	11	13	24	4	1	0	1
0099	Dentsply Int'l. Professional Division	1301 Smile Way, York PA 17404	4	8	12	4	1	0	1
0005	EQ Pennsylvania[3]	730 Vogelsong Rd, York PA 17404	75	13	88	12	1	0	1
0105	First Capital Powder Coating	215 Herman St, York PA 17404	5	15	20	4	1	0	1
0006	Frito-Lay, Inc.	3553 Gillespie Dr, York PA 17404	52	50	102	4	1	0	1
0106	Gamlet, Inc.	1750 Toronita St, York PA 17402	5	14	19	4	1	0	1
0098	Hess Gas Station 38254[4]	253 S Queen St, York PA 17403	3	7	10	**4**	1	0	1
0095	Johnson Controls Inc.- Grantley Campus	631 S Richland Av, York PA 17405	4	15	19	4	1	0	1
0041	New York Wire Company - Weaving Facility	441 E Market St, York PA 17405	4	13	17	4	1	0	1
0069	New York Wire Company - Wire Facility	829 Loucks Mill Rd, York PA 17405	6	9	15	4	1	0	1
0013	North Metal & Chemical Company	609 E King St, York PA 17405	8	8	16	4	1	0	1
0038	Osram Sylvania, Inc.	1128 Roosevelt Av, York PA 17404	20	13	33	4	1	0	1
0089	Protech Powder Coatings Inc.	939 Monocacy Rd, York PA 17404	6	9	15	4	1	0	1
0085	RecOil, Inc.[5]	280 North East St, York PA 17403	0	0	0	0	1	0	1
0018	Rutter's Dairy, Inc.	2100 N George St, York PA 17404	12	12	24	4	1	0	1
0092	Surtech Industries Inc	915 Borom Rd, York PA 17404	8	9	17	4	1	0	1
0039	Warrell Classic Company, The	231 West College Av, York PA 17401	18	20	38	8	1	0	1
0103	WC Manufacturing Co LLC	615 South Pine St, York PA 17403	4	8	12	4	1	0	1
0035	YGS Group, The	3650 W Market St, York PA 17404	5	8	13	4	1	0	1
0059	York County Solid Waste & Refuse Authority	2651 Blackbridge Rd, York PA 17406	8	12	20	4	1	0	1
0070	York Newspaper Company	1891 Loucks Rd, York PA 17408	12	13	25	4	1	0	1
0034	York Wallcoverings Inc. - Linden Av	750 Linden Av, York PA 17405	6	13	19	4	1	0	1
0084	York Wallcoverings Loucks Rd Facility	2075 Loucks Rd, York PA 17402	4	12	16	4	1	0	1
	Total		**357**	**384**	**741**	**124**	**31**	**0**	**31**

[1]-Industry is a zero-discharge facility and is not required to sample.
[2]-Facility is under a standing compliance order and notice issued 9/21/2009 and cannot discharge: therefore, no wastewater samples were required. IU sampled for permit application, but did not discharge.
[3]-Samples that were split by this industry and sent to two independent laboratories are counted as two samples.
[4]-Discharge commenced in June 2012. Therefore, the first quarter was not sampled, and only three quarterly samples were required.
[5]-This facility has a permit, but all wastewater is hauled off-site: therefore, no wastewater samples are required.

7.6. Section III, Significant Industrial User Compliance Attachments

There were no significant industrial users in significant noncompliance (SNC) during the 2012 reporting period. Table 7-3 summarizes the review period evaluation. A copy of the 2012 public notice is located in Exhibit 7-1.

Table 7-3 Significant Industrial Users in SNC During 2012

Review Period	Industry	Criteria
1st review period October 2011 to March 2012	No industries in significant non-compliance.	
2nd review period January 2012 to June 2012	No industries in significant non-compliance.	
3rd review period April 2012 to September 2012	No industries in significant non-compliance.	
4th review period July 2012 to December 2012	No industries in significant non-compliance.	

All categorical zero-discharge facilities were compliant in 2012.

There were no industrial users classified as non-significant categorical industrial users (NSCIU) in 2012.

There were no significant industrial users on written "informal" compliance schedules.

Three significant industrial users are under formal compliance schedules. All three facilities were in compliance with their formal compliance schedules in 2012. Frito Lay was issued an administrative compliance order on March 8, 2007, which has been renewed annually. The latest annual renewal expired December 31, 2011 and was reissued January 1, 2012 for the 2012 year. Frito Lay gathered water use and production data, which was evaluated by the City of York so the order can be lifted. The details of the order and facility status are discussed in the attachments to Section IV, Enforcement Actions Attachments. CP Industries was issued a standing compliance order and notice on September 21, 2009, which included a revocation of their industrial wastewater discharge permit. The details of the order and facility status are discussed in the attachments to Section IV, Enforcement Actions Attachments. Rutter's Dairy, Inc.'s permit was amended to include slug discharge control interim and final corrective action plans to address floor drains in a new fructose and sucrose storage room: compliance due dates were included in the permit amendment. The floor drains in the storage room are required to be rerouted to the pretreatment system. Rutter's Dairy, Inc. met the interim corrective action plan deadlines, and is on target for complying with the final corrective action plan. Details of the permit amendment are discussed in the attachments to Section IV, Enforcement Actions Attachments.

Exhibit 7-1: Significant Non-Compliance Newspaper Notice

Proof of Publication
State of Pennsylvania

AD # 0001337975-01

The York Dispatch/York Sunday News and York Daily Record are the names of the daily newspaper(s) of general circulation published continuously for more than six months at its principal place of business, 1891 Loucks Road, York, PA 17408.

Attach Copy of Advertisement here

The printed copy of the advertisement hereto attached is a true copy, exactly as printed and published, of an advertisement printed in the regular issues of the said **The York Dispatch/York Sunday News and York Daily Record** published on the following dates, viz:

3/15/2013

NOTICE OF INDUSTRIES IN SIGNIFICANT NON-COMPLIANCE

The City of York reports, in a accordance with the United States Environmental Protection Agency regulation of 40 CFR 403.8(f)(2)(viii), that there were no industries in Significant Non-compliance (SNC) of environmental wastewater pretreatment requirements or pre-treatment standards during the calendar year 2012. The City of York Wastewater Treatment Plant serves North York Borough, West York Borough, the City of York, and portions of Manchester, Spring Garden, West Manchester and York Townships.

1st review period: October 1, 2011 to March 31, 2012.
No industries in significant non-compliance.

2nd review period: January 1, 2012 to June 30, 2012.
No industries in significant non-compliance.

3rd review period: April 1, 2012 to September 30, 2012.
No industries in significant non-compliance.

4th review period: July 1, 2012 to December 31, 2012.
No industries in significant non-compliance.

Andrew Jantzer
General Manager of Wastewater Facilities
City of York Wastewater Treatment Plant

COMMONWEALTH OF PENNSYLVANIA
COUNTY OF YORK

Before me, a Notary Public, personally came Linda Smith who being duly sworn deposes and says that she is the Layout Supervisor of The York Dispatch/York Sunday News and York Daily Record and her personal knowledge of the publication of the advertisement mentioned in the foregoing statement as to the time, place and character of publications are true, and that the affiant is not interested in the subject matter of the above mentioned advertisement.

Sworn and subscribed to before me, on this 15 day of March 2013

Sharon K. Wentz } Linda Smith

Notary Public

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Sharon K. Wentz, Notary Public
West Manchester Twp., York County
My Commission Expires March 1, 2017
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

The charge for the following publication of above mentioned advertisement and the expense of the affidavit.

Advertisement Cost	$212.60
Affidavit Fee	5.00
Total Cost	$217.60

7.7. Section IV, Enforcement Actions Attachments

Enforcement Actions Summary

A list of significant industrial users that received written notices of violation in 2012 and the number of violations issued to each user is provided in Table 7-4. Parameter violations are listed first, followed by other types of permit violations. Each non-compliance event is issued a separate notice of violation. For example, if a wastewater sample shows that both lead and copper exceeded permit limits, two separate notices of violation are sent to the industrial user, one for lead and one for copper. In 2012, 24 notices of violation were sent to industrial users, down from 31 NOVs in 2011, 38 NOVs in 2010, 56 NOVs in 2009, 64 NOVs in 2008 and 110 NOVs in 2007.

Administrative Order

One administrative order was issued in 2012. As shown in Table 7-4 Frito Lay, Inc. received one administrative compliance order (Exhibit 7-2). This order was included in the 2011 annual report. A renewed order was issued January 1, 2012 and expired December 31, 2012. The administrative order required Frito Lay to continue to document its water usage and submit flow figures with monetary penalties for failure to comply. Frito Lay implemented water conservation measures at its facility, which in turn increased its biochemical oxygen demand (BOD) concentrations (without increasing the mass loading) and caused them to violate the 3,000 mg/l BOD limit. The previous sanitary sewer use ordinance did not allow the conversion of concentration based local limits into mass loadings or the use of other means to address the issue. Progressive enforcement against Frito Lay for BOD violations would essentially punish a large water-using industry for implementing water resource conversation measures. Updated sewer use ordinances complying with pretreatment streamlining regulations, which also allow conversion of concentration based local limits into loadings among other methods, were approved by USEPA on April 5, 2011. Frito Lay has gathered and submitted multi-year water use and production data. The data was evaluated in late 2012 so the order could be lifted either *via* converting concentration limits into mass loadings or due to a lack of need stemming from some production and treatment changes that Frito Lay has since implemented. Of 102 sample results in 2012, Frito Lay had three BOD violations (zero BOD violations in 2011). Frito Lay has since implemented some production and pretreatment changes. The order was not reissued for the 2013 calendar year. (In 2007 when the original administration compliance order was issued Frito Lay had eighteen BOD violations.)

Standing Compliance Order and Notice, Criminal Citation

CP Industries performs two distinctly different operations: liquid soap and detergent manufacture, which is a categorical process, and rock salt preparation and packaging. The facility is under a standing compliance order and notice issued on September 21, 2009 (included in the 2009 annual report). The industrial wastewater discharge permit was revoked and the industrial wastewater discharge line near the basement wastewater collection pit was capped through the compliance order and notice. The compliance order and notice was issued due to repeated failures of the industry to provide required reports and to provide those reports in a timely fashion, failure to address wastewater quality issues, and frequent significant non-compliance status. The facility is not permitted to discharge process wastewater: an annual certification statement regarding wastewater generation and disposal must be submitted.

In 2011 the facility illegally connected wastewater discharge tanks to the sanitary sewer system in violation of the standing 2009 order and after an industrial wastewater permit application was denied earlier in the year. A Cease and Desist Order was issued during the December 14, 2011 inspection: staff waited on-site while the facility removed a section of pipe connected to the sanitary sewer line. The timeline for compliance was with the Cease and Desist Order was "immediate". Staff returned the following day to ensure the line was capped: the timeline for compliance for this item was noon, December 15, 2011. A non-traffic summary citation (criminal) was filed in January 12, 2012 for the December 2011 event. The facility appealed the Cease and Desist Order and filing or the citation to the

Sanitary Sewer Board of Appeals, and requested an extension for the appeal. Before the appeal was heard, the facility plead guilty and paid a fine plus costs totaling $2,081. The September 21, 2009 compliance order and notice is still in effect. The facility submitted a permit application in 2012: a permit will be issued in 2013 with restrictions.

Permit Amendment for Potential Slug Discharge Control

Rutter's Dairy, Inc.'s permit was amended to include slug discharge control interim and final corrective action plans to address floor drains in a new fructose and sucrose storage room: compliance due dates were included in the permit amendment. No spill occurred at the facility: the slug discharge control action plans were required to prevent such an occurrence. The amended permit was issued December 21, 2012. Interim corrective actions included instituting temporary measures to prevent slug discharges to the sanitary sewer through physical and procedural actions and preventing sweetener material spillage. Rutter's Dairy, Inc. met the interim corrective action written plan and implementation deadline of December 28, 2012. Final corrective actions address permanently redirecting potential spill and wash waters from the sanitary sewer lateral to the pretreatment system, and permanently capping/rendering inoperable the sanitary sewer lateral drains. The facility submitted a written final corrective action plan by the January 31, 2013 deadline and is on target for implementing the final corrective action plan by April 30, 2013. The facility has one of the best pretreatment program compliance histories with only one parameter violation and no reporting violations extending back to 1993.

Penalties Assessed and Collected, Criminal Citations

Due to the CP Industries criminal citation, $2,081.00 in penalties were assessed and collected in 2012.

Table 7-4: Enforcement Actions Summary, 2012

		Parameter Violations							Other Permit Violations		Enforcement Actions			
ID#	Industrial User	Biochemical Oxygen Demand	Copper, total	Cyanide, total	Lead, total	Oil & Grease (Hexane)	pH	Zinc, total	Reporting	Other	NOVs Issued	Citations Issued	Orders Issued	Penalties Collected
0088	American Ash Recycling				1						1			$0.00
0045	Bickel's Snack Foods – Zinns Quarry Rd	3									3			$0.00
0104	CP Industries*										0	1		$2,081.00
0100	Cintas					1				1	2			$0.00
0019	Coyne Textile Services		1	1	2						4			$0.00
0006	Frito-Lay, Inc.	3									3		1	$0.00
0106	Gamlet, Inc.							1			1			$0.00
0038	Osram Sylvania, Inc.						1				1			$0.00
0018	Rutter's Dairy Inc.									1	1		1	$0.00
0039	Warrell Classic Company						4				4			$0.00
0035	YGS Group, The							2			2			$0.00
0070	York Newspaper Co.					1					1			$0.00
0020	Yorktowne Paperboard Corp.								1		1			$0.00
	Total	6	1	1	3	2	5	3	1	2	24	1	0	$2,081.00

N.B.- There were no violations for the following local limits: arsenic, cadmium, chromium, cyanide, mercury, molybdenum, nickel, selenium, silver, temperature, flashpoint.
Each parameter violation is issued a separate notice of violation.
Some NOVs may not have been enforced until 2013.
* - Citation issued in January 2012 for violation of December 2011.

Exhibit 7-2: Frito Lay Administrative Compliance Order

The City of York Pennsylvania

Municipal Industrial Pretreatment Program
1625 Toronita Street, York, PA 17402
www.yorkcity.org

Department of Public Works
Wastewater Treatment Plant
Phone: 717-854-0358
Fax: 717-845-1353

Honorable Kim C. Bracey, Mayor

ADMINISTRATIVE COMPLIANCE ORDER

Frito Lay, Inc.
3553 Gillespie Drive
York, Pennsylvania 17404

1. Whereas, Frito Lay, Inc. has violated conditions of its wastewater contribution permit by discharging wastewater having biochemical oxygen demand (BOD) concentrations in excess of 3,000 mg/l; and

2. Whereas, Frito Lay, Inc. evaluated its facility procedures and manufacturing processes and, as a result, implemented physical improvements and procedural controls to mitigate those factors contributing to excessive BOD concentrations; and

3. Whereas, Frito Lay, Inc., documented the above activities in correspondence dated November 22, 2006 and December 22, 2006, and met with City of York representatives on November 16, 2006 and December 20, 2006 to discuss these measures; and

4. Whereas, Frito Lay, Inc. has submitted documentation showing a relationship between increases in BOD concentrations and the contemporaneous decreases in water consumption due to water conservation efforts at the facility; and

5. Whereas, conservation of the resources of the Commonwealth, including water conservation and adoption of water-saving technologies, is recognized as a beneficial industrial activity; and

6. Whereas, there is no mechanism in the City of York Codified Ordinance to determine compliance with discharge limits using alternative methods such as converting concentrations to loadings, allocating headworks loadings, or accepting wastes of a different strength or character; and

7. Whereas, the City of York is currently revising its sewer use ordinance to comply with changes in Federal pretreatment program regulations and is evaluating increasing the current BOD limit, and Frito Lay, Inc. has demonstrated that it has investigated contributing factors to the BOD violations due to manufacturing processes and procedures as well as water conservation efforts.

8. Whereas, it is the intent of this order to not penalize Frito Lay, Inc. for implementing water resource conservation measures and, to this end, provide some measure of relief from progressive judicial enforcement action as relates strictly to BOD violations due to continued documented water conservation efforts.

Therefore, based on the above findings, Frito Lay, Inc. is ordered to:

1. Submit within 5 days of each sampling event, the total flow discharged as measured at the sample location. The flow shall reflect the same time period as when the sample was collected (i.e., 7:00 a.m. to 7:00 a.m.).

2. Submit by the 10th day of each month a tabulation of daily discharge flows for each calendar month. The flows shall reflect the same time frame as the sampling events (i.e., 7:00 a.m. to 7:00 a.m.). The submission shall be on Frito Lay, Inc.'s letterhead and have the following certification statement signed in accordance with the signatory requirements of Frito Lay, Inc.'s permit.

   "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on by inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

Frito Lay, Inc. may fax the required information; however, hardcopy shall follow in the mail.

3. Maintain the effluent flow meter in a fully operational and accurate condition. The City of York reserves the right to require Frito Lay, Inc. to provide effluent meter calibration reports as deemed necessary.

4. Comply with all terms, conditions, and requirements of Frito Lay, Inc.'s existing wastewater discharge permit, which remains in full force and effect. The quality of effluent shall be limited at all times as specified in Article 931 of the Codified Ordinances of the City of York and Frito Lay Inc.'s discharge permit, with the understanding that continued water conservation efforts may cause BOD concentrations in excess of the permit requirement.

5. Remit to the City of York any applicable administrative penalties according to the following schedule:

Failure to submit effluent flow data as required:	$1,000.00 per day per event
Failure to comply with permit reporting requirements:	$1,000.00 per day per event

In accordance with Article 931.99 a separate offense shall be deemed committed on each day during or on which a violation or failure to comply occurs or continues.

Therefore, the following clauses are part of this administrative order:

1. Nothing in this administrative order shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. No provision of this order shall be construed to limit the City of York's authority to issue supplementary or additional orders or take other action deemed necessary to implement its pretreatment program should conditions warrant, including issuing Notices of Violation (NOV).

2. Compliance with the terms and conditions of this administrative order will not be construed to relieve Frito Lay, Inc. of its obligation to comply with applicable Federal, State and local law.

3. Noncompliance with any term or condition of this order shall constitute a violation of the York City Wastewater Treatment Plant sewer use ordinance.

4. The provisions of this order shall be binding upon Frito Lay, Inc. its officers, directors, agents, employees, successors, assigns, and all persons, firms, and corporations acting under, through or on behalf of Frito Lay, Inc.

5. The provisions of this order are severable, and if any provision of the order is held invalid, the remainder shall remain in full force.

6. The City of York reserves the right to modify or terminate this administrative compliance order as may be deemed necessary.

7. This administrative compliance order shall become effective on January 1, 2012 and shall expire on December 31, 2012.

SAED

12-21-2011

Steven Douglas, General Manager, York City WWTP

Date

Industries in SNC Not Subject to Additional Enforcement

The purpose of this section is to discuss the industries that were in significant non-compliance, but were not subject to additional enforcement. Since there were no industries in significant non-compliance in 2012, this section is addressed.

7.8. Part B: Pretreatment Developments

7.8.1. Summary of POTW Operations

Interference, Upset, Permit Violations

There were no upsets or interferences due to industrial causes at the City of York Wastewater Treatment Plant during 2012. The City of York continues to produce a high quality effluent. Biosolids are land applied for beneficial reuse. Loadings at the facility remain steady.

The York City Wastewater Treatment Plant met all permit requirements in 2012 with three exceptions. On August 6, 2012 the Train 2 effluent screw pumps and sand filter system lost power and the recirculation pumps in Train 3 malfunctioned. On August 7, 2012 the treatment plant discharged partially treated sewage due to loss of electrical power to the ultra-violet light disinfection system. Upon discovery flows were diverted to Train 2 and to the 001 outfall and emergency disinfection was placed in service. The plant returned to normal operation about eight hours later after an electrical breaker was found to be off causing the loss of power to the ultra-violet light disinfection building. The estimated volume of un-disinfected plant effluent discharged from outfall 002 during the event was 9.0 million gallons. The estimated volume of plant effluent disinfected with sodium hypochlorite discharged from outfall 001 during the event was 2.0 million gallons. The Pennsylvania Department of Environmental Protection (PADEP) issued a notice of violation for the August 2012 events. During the fifth week of October 2012, the maximum average weekly total suspended solids (TSS) limit was exceeded due to Tropical Storm Sandy. Appendix K contains correspondence between the City of York and PADEP for the August events, as well as City of York correspondence regarding the October 2012 maximum average weekly TSS exceedance.

POTW Influent, Effluent and Biosolids Priority Pollutant Data, and Local Limit Data

The USEPA sets influent, effluent and biosolids goals for certain pollutants based on the most recently approved local limits evaluation. In general, these goals are based on the maximum amount of pollutants the treatment plant can receive without harming treatment plant processes, exceeding the water quality criteria of the Codorus Creek (the receiving stream), or exceeding the USEPA exceptional quality standards for land application of biosolids. The data associated with these goals are summarized in Table 7-5 through Table 7-77. Influent, effluent, and biosolids analytical results are included in Appendix J. Monthly average influent concentrations are provided for BOD, ammonia-nitrogen, phosphorus, and total suspended solids. The City of York Wastewater Treatment Plant met influent and biosolids goals in 2012. One PCB influent sample had an insufficient minimum detection limit. Method 608, which can obtain a minimum detection limit of 0.000065 mg/l, was used; however, due to sample matrix interference the laboratory used a sample dilution, which in turn resulted in an increased minimum detection limit as per method protocol. Two mercury effluent samples – for the first two quarters of 2012 - had insufficient minimum detection limits. The City of York was informed that a lower effluent mercury minimum detection limit was required in EPA's 2011 annual report correspondence dated July 13, 2012. The City of York rectified the issue by changing the mercury analytical method to one with a consistently lower minimum detection limit, which is evidenced in the last two quarters of 2012.

Table 7-5: Priority Pollutant Influent Goals Data Summary, 2012*
York City Wastewater Treatment Plant

Parameter Code	Influent Pollutant	Goal	Frequency Per Year	2/1/2012	3/28/2012	5/31/2012	8/23/2012	12/12/2012	1/2012	2/2012	3/2012	4/2012
34506	1-1-1-Trichloroethane	Monitor	1			<0.0010						
01002	Arsenic – Total	0.017	4	<0.0050		<0.0050	<0.0050	<0.0050				
34030	Benzene	Monitor	1			<0.0010						
39100	Bis (2-ethylhexyl) Phthalate	0.5058	1			0.216						
00310	BOD- 5-day	699.772	4						256	313	303	300
01027	Cadmium – Total	0.0041	4	<0.0010		<0.0010	<0.0010	<0.0010				
32106	Chloroform	Monitor	1			<0.0028						
01034	Chromium – Total	0.1616	4	0.0024		0.0029	0.0023	0.0039				
01042	Copper – Total	0.183	4	0.050		0.067	0.050	0.051				
00720	Cyanide – Total	0.057	4	<0.0050		<0.0050	<0.0050	<0.0050				
34371	Ethylbenzene	Monitor	1			<0.0010						
01051	Lead – Total	0.0407	4	0.0073		0.011	0.011	0.0083				
71900	Mercury – Total	0.0014	4	<0.00050		<0.00050	0.00023	0.00021				
34423	Methylene Chloride	Monitor	1			<0.0010						
01062	Molybdenum – Total	0.04	4	0.022		0.026	0.032	0.033				
01067	Nickel – Total	0.1059	4	0.0031		0.0043	0.036	0.0067				
00610	Nitrogen – Ammonia	60.3248	0						17.1	19.2	18.5	20.0
00630	Nitrogen – Total	72.5	0		27.0							
04166	PCB- Total	0.0005	1		<0.00049	**<0.0053**						
34694	Phenol – Single Compound	Monitor	1			<0.0086						
00665	Phosphorus – Total	19.2959	0						4.1	4.9	4.9	4.9
01147	Selenium – Total	0.028	4	0.0058		<0.0020	<0.0020	0.0022				
01077	Silver - Total	0.1374	4	0.0014		0.0018	<0.0010	<0.0010				
00530	Solids – Total Suspended	723.898	0						259	317	324	294
34475	Tetrachloroethylene	Monitor	1			<0.0010						
34010	Toluene	Monitor	1			0.0085						
39180	Trichloroethylene	Monitor	1			0.0011						
01092	Zinc – Total	0.5234	4	0.11		0.17	0.11	0.13				

Notes: Samples are flow proportionate 24-hour composite samples. Results are reported in mg/l.
Non-detectable results are reported as "<" less than the test detection limit. Bolded results indicate goal exceedance, or test insufficient minimum detection limit.
Dates represented by month and year only (i.e., '3/2012') reflect monthly averages as per EPA annual report guidance.
* Table continued on next page.

Table 7-5 continued: Priority Pollutant Influent Goals Data Summary, 2012

York City Wastewater Treatment Plant

Parameter Code	Influent Pollutant	Goal	Frequency Per Year	5/2012	6/2012	7/2012	8/2012	9/2012	10/2012	11/2012	12/2012
34506	1-1-1-Trichloroethane	Monitor	1								
01002	Arsenic – Total	0.017	4								
34030	Benzene	Monitor	1								
39100	Bis (2-ethylhexyl) Phthalate	0.5058	1								
00310	BOD- 5-day	699.772	4	300	259	247	241	221	218	225	257
01027	Cadmium – Total	0.0041	4								
32106	Chloroform	Monitor	1								
01034	Chromium – Total	0.1616	4								
01042	Copper – Total	0.183	4								
00720	Cyanide – Total	0.057	4								
34371	Ethylbenzene	Monitor	1								
01051	Lead – Total	0.0407	4								
71900	Mercury – Total	0.0014	4								
34423	Methylene Chloride	Monitor	1								
01062	Molybdenum – Total	0.04	4								
01067	Nickel – Total	0.1059	4								
00610	Nitrogen – Ammonia	60.3248	0	17.6	19.1	17.9	16.9	17.4	16.3	14.8	18.6
00630	Nitrogen – Total	72.5	0								
04166	PCB- Total	0.0005	1								
34694	Phenol – Single Compound	Monitor	1								
00665	Phosphorus – Total	19.2959	0	4.8	4.5	4.1	4.1	3.8	3.9	3.9	4.4
01147	Selenium – Total	0.028	4								
01077	Silver - Total	0.1374	4								
00530	Solids – Total Suspended	723.898	0	327	240	226	235	226	227	228	249
34475	Tetrachloroethylene	Monitor	1								
34010	Toluene	Monitor	1								
39180	Trichloroethylene	Monitor	1								
01092	Zinc – Total	0.5234	4								

Notes: Samples are flow proportionate 24-hour composite samples. Results are reported in mg/l.
Non-detectable results are reported as "<" less than the test detection limit. Bolded results indicate goal exceedance, or test insufficient minimum detection limit.
Dates represented by month and year only (i.e., '3/2012') reflect monthly averages as per EPA annual report guidance.

Table 7-6: Priority Pollutant Effluent Goals Data Summary, 2012
York City Wastewater Treatment Plant

Parameter Code	Effluent Pollutant	Goal	Frequency By Year	2/1/2012	3/28/2012	5/31/2012	8/22/2012	9/26/2012	11/12/2012	12/12/2012
34506	1-1-1-Trichloroethane	No Goal	0					<0.001	<0.001	
01002	Arsenic – Total	0.034	4	<0.0050		<0.0050	<0.0050			<0.0050
34030	Benzene	No Goal	0					<0.001	<0.001	
39100	Bis (2-ethylhexyl) Phthalate	0.0339	0		<0.0029			<0.0028	<0.0028	
00310	BOD- 5-day	No Goal	0							
01027	Cadmium – Total	0.0014	4	<0.0010		<0.0010	<0.0010			<0.0010
32106	Chloroform	No Goal	0					<0.001	<0.001	
01034	Chromium – Total	0.034	4	<0.0010		<0.0010	<0.0010			0.0016
01042	Copper – Total	0.0497	4	<0.0050		<0.0050	<0.0050			<0.0050
00720	Cyanide – Total	0.0177	4	<0.0050		<0.0050	<0.0050		<0.0050	<0.0050
34371	Ethylbenzene	No Goal	0					<0.001	<0.001	
01051	Lead – Total	0.021	4	<0.0030		<0.0030	0.0034			0.0051
71900	Mercury – Total	0.0002	4	**<0.00050**		**<0.00050**	<0.00020			<0.00020
34423	Methylene Chloride	No Goal	0					<0.001	<0.001	
01062	Molybdenum – Total	Monitor	4	0.021		0.029	0.022			0.081
01067	Nickel – Total	0.2764	4	<0.0025		0.0029	<0.0025			0.0059
00610	Nitrogen – Ammonia	1.7	0							
00630	Nitrogen – Total	14.5	0							
04166	PCB- Total	0.0012	0		<0.00048					
34694	Phenol – Single Compound	No Goal	0					<0.0075	<0.0075	
00665	Phosphorus – Total	1.9	0							
01147	Selenium – Total	0.017	4	<0.0020		<0.0020	<0.0020			<0.0020
01077	Silver - Total	0.0317	4	<0.0010		<0.0010	<0.0010			<0.0010
00530	Solids – Total Suspended	No Goal	0							
34475	Tetrachloroethylene	No Goal	0					<0.001	<0.001	
34010	Toluene	No Goal	0					<0.001	<0.001	
39180	Trichloroethylene	No Goal	0					<0.001	<0.001	
01092	Zinc – Total	0.6353	4	0.037		0.034	0.027			0.048

Notes: Samples are flow proportionate 24-hour composite samples. Results are reported in mg/l.
Non-detectable results are reported as "<" less than the test detection limit. Bolded results indicate goal exceedance, or test insufficient minimum detection limit.

Table 7-7: Priority Pollutant Biosolids Goal Data Summary, 2012
York City Wastewater Treatment Plant

Parameter Code	Effluent Pollutant	Goal	Frequency By Year	1/5/12	2/2/12	3/1/12	5/7/12	5/31/12	7/2/12	8/22/12	9/3/12	11/8/12	12/11/12
34506	1-1-1-Trichloroethane	Monitor	1					<0.485					
01002	Arsenic – Total	41	4	2.87	<11.9	2.78	4.03	<11.0	<2.87	<11.4	3.29	3.43	<11.6
34030	Benzene	Monitor	1					<0.485					
39100	Bis (2-ethylhexyl) Phthalate	Monitor	1					14.400					15.300
00310	BOD- 5-day	No Goal	0										
01027	Cadmium – Total	39	4	2.07	<3.0	1.92	3.16	<2.85	2.77	2.8	2.69	2.28	<2.9
32106	Chloroform	Monitor	1					<0.485					
01034	Chromium – Total	Monitor	4	21.8	29.1	16.7	26.8	28.2	23.3	26.6	22.6	22.2	25.4
01042	Copper – Total	1500	4	378.6	426	326.1	517.8	419	464.6	492	516.8	489.4	443
00720	Cyanide – Total	Monitor	4	<1	<1.6	<1	<1	<1.6	<1	<1.5	<1	<1	<1.5
34371	Ethylbenzene	Monitor	1					<0.485					
01051	Lead – Total	300	4	51.3	53.4	40.0	64.2	59.3	82.2	104	91.5	83.8	75.2
71900	Mercury – Total	17	4	0.87	<1.1	1.33	0.90	1.2	1.74	0.91	0.83	1.02	2.3
34423	Methylene Chloride	Monitor	1					<0.485					
01062	Molybdenum – Total	75	4	17.71	20.3	14.84	24.42	23.6	23.97	24.0	24.01	21.23	20.2
01067	Nickel – Total	420	4	17.8	25.4	15.7	26.0	24.2	24.8	23.5	22.0	21.4	25.8
00610	Nitrogen – Ammonia	No Goal	0										
00630	Nitrogen – Total	No Goal	0										
04166	PCB- Total	4	1	<0.15		<0.14	<0.2	<0.21	<0.18		<0.18	<0.15	
34694	Phenol – Single Compound	Monitor	1					<1.720					<16.100
00665	Phosphorus – Total	No Goal	0										
01147	Selenium – Total	100	4	7.92	<29.9	6.01	6.41	<27.4	7.35	<28.4	7.55	6.18	<29.0
01077	Silver - Total	Monitor	4		12.6			12.3		13.1			9.3
00530	Solids – Total Suspended	No Goal	0										
34475	Tetrachloroethylene	Monitor	1					<0.485					
34010	Toluene	Monitor	1					<0.485					
39180	Trichloroethylene	Monitor	1					<0.485					
01092	Zinc – Total	2800	4	550.0	606	449.4	711.4	617	684.0	779	793.3	710.1	675

Notes: Data reflect testing of composited centrifuge cake. Data reflect dry weight in mg/kg.
Non-detectable results are reported as "<" less than the test detection limit. Bolded results indicate goal exceedance, or test insufficient minimum detection limit.

7.8.2. Trucked or Hauled Wastewater

The City of York does not accept trucked or hauled industrial or non-industrial wastewater at the treatment plant or other places within the collection system.

Significant industrial users in the wastewater service area that hauled wastewater in 2012 to somewhere other than the City of York wastewater treatment plant are: AMZ Manufacturing, American Ash Recycling, CP Industries, Johnson Controls, New York Wire-Wire Facility, and RecOil, Inc.

AMZ Corporation is a zero-discharge metal finisher (40 CFR 433) that generates wastewater from its plating operations. Wastewater is usually evaporated on-site; however, during times of increased production excess wastewater was hauled off-site by EQ Pennsylvania.

American Ash Recycling recovers metals from municipal waste incinerator ash. A new wash system was installed in 2012 that uses a high volume of water in a closed loop, no-discharge system to wash particulates from the recovered metals. The new system was in the testing and refining stage in 2012: Wastewater from the new materials wash system was hauled off-site once by Kline's Services.

CP Industries performs two distinct operations: liquid soap and detergent manufacturing (40 CFR 417) and road salt preparation and packaging. The facility submitted a required annual certification stating that all wastewater (6,050 gallons) was hauled off-site in 2012 by ArrowStream Freight Services.

Johnson Controls, Inc. is permitted to discharge wastewater to the collection system and usually does not have wastewater hauled off-site. Most of their wastewater is generated from chiller testing and vessel testing. Propylene glycol wastewaters and dilute ethylene glycol solution were hauled off-site by Environmental Recovery Corp.

New York Wire-Wire Facility is a metal finisher (40 CFR 433). Steel wire is copper plated before final drawing. Process wastewater is discharged to the sanitary sewer system. However, oily wastewater from floor washing is directed to an outdoor storage tank. The tank wastewater was hauled by Clean Venture, Inc./CycleChem, Inc.

RecOil, Inc. is a zero-discharge centralized waste treatment facility for oils treatment and recovery (40 CFR 437 subpart B). Oily waters were received on-site and were hauled off-site Spirit Services.

Increasingly, brine wastes from oil and gas drilling are becoming more important in Pennsylvania. EQ Pennsylvania receives hauled wastes, which it then de-lists and de-characterizes. EQ Pennsylvania did not receive any brine wastes at its York facility in 2012. Therefore, no brine wastes were discharged to the sewer system, and no brine wastes were re-manifested out to another facility for disposal.

7.8.3. Pretreatment Program Changes

Staffing in 2012 remained unchanged from 2011. Staffing in 2012 included one Pretreatment Permit and Compliance Manager and one Pretreatment Compliance Officer. The General Manager of Wastewater Facilities supervises pretreatment staff.

The City of York continues to use Linko CTS to manage its industrial information. The software is networked between the pretreatment program and the wastewater treatment plant laboratory. The City of York continues to update its Standard Operating Procedures (SOP) and policies as the need arises.

The City of York Wastewater Treatment Plant received its renewed National Pollution Discharge Elimination System (NPDES) permit, which became effective February 1, 2008. In accordance with the

permit, the local limits sampling plan was submitted on April 18, 2008, and was approved by USEPA on May 1, 2008. The local limits reevaluation document was submitted to USEPA January 29, 2009. Multiple communications between the City of York and the USEPA occurred, and on April 21, 2011 USEPA accepted the proposed local limits, with the exception of BOD, and on October 18, 2011 accepted retaining the existing BOD limit. A public meeting was held June 22, 2011, and passage of the amended local limits by the Council of the City of York occurred on October 4, 2011 within the six-month timeframe allowed under the NPDES permit. All municipalities adopted the new local limits in late 2011 through early 2012: the last ordinance was received in July 2012. The City of York forwarded proof of ordinance amendments to the USEPA on July 23, 2012. USEPA approved the local limits in correspondence dated November 15, 2012. All industrial wastewater discharge permits were amended by page replacement to reflect the new local limits. For categorical industrial users whose permit limits were derived using the combined wastestream formula, parameter values were compared to ensure the more stringent limit was applied in the permits.

The next cycle of local limit evaluations will begin in 2013. The City of York wastewater treatment plant's NPDES discharge permit expired January 13, 2013: the new permit has not been issued as of late-March 2013. The local limits sampling plan is required to be submitted to EPA within three months of permit issuance.

7.8.4. Miscellaneous Developments

Activities

In 2012 MIPP engaged in the following activities:

- Attended pretreatment program and MS4 training.
- Continued to search for other significant industrial users.
- Assisted with MS4 field mapping and outfall water sampling.

In 2013 MIPP intends to:

- Attend an 8-hour HAZWOPER refresher course.
- Update Linko software and computer systems.
- Attend pretreatment program and MS4 training.
- Develop performance measurements for different areas of the pretreatment program.
- Enroll in Sacramento State Office of Water Programs training stormwater best management practices courses (of which there are three).
- Continue to search for other significant industrial users.
- Assist with MS4 field mapping and outfall water sampling.
- Assist with writing the MS4 permit-required Chesapeake Bay Pollutant Reduction Plan.

Environmental Investigations

The pretreatment program is relied upon to provide environmental investigation assistance. Typically, a citizen complaint is lodged either directly or through PADEP to investigate a release to the Codorus Creek, storm sewer system, or public roadway. It is appropriate that pretreatment staff, which are familiar with industrial sources, sanitary sewer system infrastructure and general environmental knowledge, respond to these situations. MIPP staff has received some training to provide reliable and safe assistance to area fire and emergency response units as well as state agencies.

Municipal Separate Storm Sewer System (MS4) NPDES Permit

Staff continued to participate in duties associated with the City of York's Municipal Separate Storm Sewer System (MS4) NPDES permit. The MIPP Pretreatment Permit and Compliance Manger sits on the MS4 task force. MIPP staff are responsible for: documenting all illicit discharge events in the City of

York for annual reporting to the PADEP and USEPA; creating quarterly illicit discharge reports; developing and maintaining an illicit discharge event database (which eventually will be spatially referenced to the City of York geographic information system); assisting in illicit discharge investigation as needed; addressing illicit discharge complaints submitted by citizens to the MS4 "hotline' number; assisting the Highway Superintendent in dry-weather storm system sampling; and, coordinating with other departments to ensure all illicit discharge events are reported.

In 2012 there were thirty-three (33) illicit discharge investigations: of those, five (5) were not illicit discharges as defined by the City of York MS4 permit, and five (5) were located in other municipalities. Although the City of York NPDES permit covers only the municipal boundaries, MIPP responds to and assists in events throughout the entire sewershed. Pollution events and watercourses don't heed municipal boundaries: tracing discharge sources may lead to source locations outside the City of York. In 2012 MIPP staff attended MS4 related training sessions.

In 2012 staff conducted dry-weather stormwater sampling twice for two sub-watersheds and assisted with the stormwater outfall mapping and field inventory, which covered approximately 1.89 miles and 33 outfalls.

Industrial Property Records

In 2010 MIPP instituted a permanent property address file for all properties researched in the sanitary sewer system. In 2011 MIPP historic files from 1997 through 2003 were culled for information, which was added to the permanent address file. In 2012, some files from 2003 through present were culled for information to add to the permanent address file: this process will continue in 2013. The files house important past and current site information such as site plans, manufacturing uses, chemical storage, photographs, state and federal environmental notifications, and results from MIPP inspections and investigations. All information from the systematic search of industrial users, whether the users were found to be significant or not, is added to the permanent property address. There are three sections in the address file system: files for each property located in the sanitary sewer system for which there is current or historic information, by address; properties not currently served by any the treatment plant system, but which will come to the City of York wastewater treatment plant in the future given logical extensions of the sanitary sewer system; and, a file for properties researched and found to be outside the current and future City of York treatment plant service area, grouped by municipality and then address. These files will be useful as more properties are adaptively reused and the surrounding municipalities expand their sewer collection systems. The address file is permanently housed in the MIPP office as an "active" information resource: historic information will be retrieved from MIPP archived files and new information will be continually added. This information will be tied to the GIS system in the future.

Appendix J

York City WWTP NPDES Quarterly Local Limits Analyses, Annual Priority Pollutant Scan, Semimonthly Sludge Results

PENNSTATE

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PA DEP Lab ID # 14-00588

Analysis Report for Use of Biosolids on Cropland

Joseph Concino
City of York - WWTP
1701 Black Bridge Rd
York PA 17402

Lab Sample ID: E15078
Date Received: January 6, 2012
Date Sampled: 1/5/12
Report Date: 1/26/12
Sample type: Composite
County: York
Customer Sample ID: Centrifuge Cake

RESULTS

pH @ 21.6 C	Solids	Volatile	Tot-N	Org-N	NH_4N	P	K	Mg	Ca	Na	Fe	Al
	— % —					% (dry weight basis)						
7.9	18.11	79.84	6.46	5.70	0.76	2.05	0.36	0.34	3.38	0.05	0.91	0.38

Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB[1]	Reactive CN
						mg/kg (dry weight basis)						
274.8	2.87	2.07	21.8	378.6	51.3	0.87	17.7	17.8	7.92	550.0	< .15	< 1

NR-Not Requested

One dry ton of this material is equivalent to 1324 gallons of wet material or 5.5 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)		
Total N	6.46	0.77	dry tons of this biosolid will supply 100 lbs of total N.
P_2O_5	4.69	2.44	dry tons of this biosolid will supply 100 lbs of P
K_2O	0.43		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	1/13/2012	9:52:49
As	3050B + 6010	Brooks	1/13/2012	9:52:49
Se	3050B + 6010	Brooks	1/13/2012	9:52:49
Hg	7473	Brooks	1/12/2012	12:59:30 PM
PCB1	8082			

[1]Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.083	2.083	2.083	0.360	2.083	2.083	2.083	2.083	2.083
Analyte conc. in sample/ digest (mg/L except Hg)	0.022	0.016	2.86	0.056 ug	0.13	0.13	0.39	0.06	4.15
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis

Nitrate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Sample Receipt
< 2.71					

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PA DEP Lab ID # 14-00588

Biosolids Analysis Report

Joseph Concino
City of York - WWTP
1701 Black Bridge Rd
York PA 17402

Lab Sample ID: E15078
Date Received: January 6, 2012
Date Sampled: 1/5/12
County: York
Customer Sample ID: Centrifuge Cake

RESULTS (Dry Weight Basis)

Parameter Analyzed		Result	Units	Sample Detection Limit
pH		7.90	—	—
Solids		18.11	%	—
Total Phosphorus		20,491	mg/kg	33.14
Total Potassium		3,604	mg/kg	66.29
Total Combustion Nitrogen		6.46	%	-
Ammonium Nitrogen		0.76	%	0.01
Nitrate	<	2.71	mg/kg	2.71
Cadmium		2.07	mg/kg	0.66
Copper		378.6	mg/kg	1.99
Nickel		17.8	mg/kg	1.33
Lead		51.3	mg/kg	3.31
Zinc		550.0	mg/kg	6.63
Mercury		0.87	mg/kg	0.02
Arsenic		2.87	mg/kg	1.99
Molybdenum		17.71	mg/kg	1.99
Selenium		7.92	mg/kg	3.31
PCBs		<.15	mg/kg	0.15

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PA DEP Lab ID # 14-00588

Analysis Report for Use of Biosolids on Cropland

Joseph Concino
City of York - WWTP
1701 Black Bridge Rd
York PA 17402

Lab Sample ID: E15193
Date Received: March 2, 2012
Date Sampled: 3/1/12
Report Date: 3/20/12
Sample type: Composite
County: York
Customer Sample ID: Centrifuge Cake

RESULTS

pH @ 21.1 C	Solids	Volatile	Tot-N	Org-N	NH_4N	P	K	Mg	Ca	Na	Fe	Al
	— % —	% (dry weight basis)										
7.8	18.76	83.04	6.31	5.64	0.66	1.77	0.52	0.46	3.04	0.05	0.68	0.29

Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB[1]	Reactive CN
mg/kg (dry weight basis)												
181.5	2.78	1.92	16.7	326.1	40.0	1.33	14.8	15.7	6.01	449.4	< .14	< 1

NR-Not Requested One dry ton of this material is equivalent to 1278 gallons of wet material or 5.3 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)		
Total N	6.31	0.79	dry tons of this biosolid will supply 100 lbs of total N.
P_2O_5	4.05	2.83	dry tons of this biosolid will supply 100 lbs of P
K_2O	0.63		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	3/9/2012	9:47:38
As	3050B + 6010	Brooks	3/9/2012	9:47:38
Se	3050B + 6010	Brooks	3/9/2012	9:47:38
Hg	7473	Brooks	3/9/2012	11:57:29 AM
PCB1	8082			

[1]Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	1.773	1.773	1.773	0.437	1.773	1.773	1.773	1.773	1.773
Analyte conc. in sample/ digest (mg/L except Hg)	0.018	0.013	2.17	0.109 ug	0.10	0.10	0.27	0.04	2.99
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis

Nitrate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Sample Receipt
4.67					

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Biosolids Analysis Report

Joseph Concino
City of York - WWTP
1701 Black Bridge Rd
York PA 17402

Lab Sample ID: E15193
Date Received: March 2, 2012
Date Sampled: 3/1/12
County: York
Customer Sample ID: Centrifuge Cake

RESULTS (Dry Weight Basis)

Parameter Analyzed	Result	Units	Sample Detection Limit
pH	7.81	—	—
Solids	18.76	%	—
Total Phosphorus	17,666	mg/kg	37.58
Total Potassium	5,226	mg/kg	75.17
Total Combustion Nitrogen	6.31	%	-
Ammonium Nitrogen	0.66	%	0.01
Nitrate	4.67	mg/kg	2.60
Cadmium	1.92	mg/kg	0.75
Copper	326.1	mg/kg	2.25
Nickel	15.7	mg/kg	1.50
Lead	40.0	mg/kg	3.76
Zinc	449.4	mg/kg	7.52
Mercury	1.33	mg/kg	0.01
Arsenic	2.78	mg/kg	2.25
Molybdenum	14.84	mg/kg	2.25
Selenium	6.01	mg/kg	3.76
PCBs	< .14	mg/kg	0.14

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PA DEP Lab ID # 14-00588

Analysis Report for Use of Biosolids on Cropland

Joseph Concino
City of York - WWTP
1701 Black Bridge Rd
York PA 17402

Lab Sample ID: E15290
Date Received: May 9, 2012
Date Sampled: 5/7/12
Report Date: 6/1/12
Sample type: Composite
County: York
Customer Sample ID: Centrifuge Cake

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH_4N	P	K	Mg	Ca	Na	Fe	Al
@ 22.5 C	— % —	% (dry weight basis)										
8.1	13.51	79.28	8.26	7.03	1.23	2.51	0.27	0.40	4.20	0.08	1.01	0.43

Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB[1]	Reactive CN
mg/kg (dry weight basis)												
271.8	4.03	3.16	26.8	517.8	64.2	0.90	24.4	26.0	6.41	711.4	< .2	< 1

NR-Not Requested One dry ton of this material is equivalent to 1775 gallons of wet material or 7.4 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)		
Total N	8.26	0.61	dry tons of this biosolid will supply 100 lbs of total N.
P_2O_5	5.75	1.99	dry tons of this biosolid will supply 100 lbs of P
K_2O	0.32		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	5/21/2012	9:33:42
As	3050B + 6010	Brooks	5/21/2012	9:33:42
Se	3050B + 6010	Brooks	5/21/2012	9:33:42
Hg	7473	Rishel	5/16/2012	9:40:09 AM
PCB[1]	8082			

[1]Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.002	2.002	2.002	0.295	2.002	2.002	2.002	2.002	2.002
Analyte conc. in sample/ digest (mg/L except Hg)	0.022	0.017	2.80	0.036 ug	0.13	0.14	0.35	0.03	3.85
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
Nitrate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	
5.08					

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PA DEP Lab ID # 14-00588

Biosolids Analysis Report

Joseph Concino City of York - WWTP 1701 Black Bridge Rd York PA 17402	**Lab Sample ID:** E15290 **Date Received:** May 9, 2012 **Date Sampled:** 5/7/12 **County:** York **Customer Sample ID:** Centrifuge Cake

RESULTS (Dry Weight Basis)

Parameter Analyzed	Result	Units	Sample Detection Limit
pH	8.10	—	—
Solids	13.51	%	—
Total Phosphorus	25,123	mg/kg	46.22
Total Potassium	2,680	mg/kg	92.44
Total Combustion Nitrogen	8.26	%	-
Ammonium Nitrogen	1.23	%	0.01
Nitrate	5.08	mg/kg	1.45
Cadmium	3.16	mg/kg	0.92
Copper	517.8	mg/kg	2.77
Nickel	26.0	mg/kg	1.85
Lead	64.2	mg/kg	4.62
Zinc	711.4	mg/kg	9.24
Mercury	0.90	mg/kg	0.03
Arsenic	4.03	mg/kg	2.77
Molybdenum	24.42	mg/kg	2.77
Selenium	6.41	mg/kg	4.62
PCBs	< .2	mg/kg	0.20

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PA DEP Lab ID # 14-00588

Analysis Report for Use of Biosolids on Cropland

Joseph Concino
City of York - WWTP
1701 Black Bridge Rd
York PA 17402

Lab Sample ID: E15365
Date Received: July 3, 2012
Date Sampled: 7/2/12
Report Date: 7/24/12
Sample type: Composite
County: York
Customer Sample ID: Centrifuge Cake

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH_4N	P	K	Mg	Ca	Na	Fe	Al
@ 22.9 C	— % —	% (dry weight basis)										
8.1	14.65	78.05	7.76	6.78	0.98	2.29	0.23	0.43	3.19	0.09	0.93	0.37

Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB[1]	Reactive CN
mg/kg (dry weight basis)												
224.7	< 2.87	2.77	23.3	464.6	82.2	1.74	24.0	24.8	7.35	684.0	< .18	< 1

NR-Not Requested One dry ton of this material is equivalent to 1637 gallons of wet material or 6.8 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)		
Total N	7.76	0.64	dry tons of this biosolid will supply 100 lbs of total N.
P_2O_5	5.25	2.18	dry tons of this biosolid will supply 100 lbs of P
K_2O	0.28		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	7/13/2012	10:14:13
As	3050B + 6010	Brooks	7/13/2012	10:14:13
Se	3050B + 6010	Brooks	7/13/2012	10:14:13
Hg	7473	Brooks	7/17/2012	1:32:02 PM
PCB[1]	8082			

[1]Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	1.785	1.785	1.785	0.475	1.785	1.785	1.785	1.785	1.785
Analyte conc. in sample/ digest (mg/L except Hg)	0.013	0.014	2.43	0.121 ug	0.13	0.13	0.43	0.04	3.58
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
Nitrate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	
6.61					

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PA DEP Lab ID # 14-00588

Biosolids Analysis Report

Joseph Concino
City of York - WWTP
1701 Black Bridge Rd
York PA 17402

Lab Sample ID: E15365
Date Received: July 3, 2012
Date Sampled: 7/2/12
County: York
Customer Sample ID: Centrifuge Cake

RESULTS (Dry Weight Basis)

Parameter Analyzed		Result	Units	Sample Detection Limit
pH		8.07	—	—
Solids		14.65	%	—
Total Phosphorus		22,907	mg/kg	47.80
Total Potassium		2,304	mg/kg	95.60
Total Combustion Nitrogen		7.76	%	-
Ammonium Nitrogen		0.98	%	0.01
Nitrate		6.61	mg/kg	1.32
Cadmium		2.77	mg/kg	0.96
Copper		464.6	mg/kg	2.87
Nickel		24.8	mg/kg	1.91
Lead		82.2	mg/kg	4.78
Zinc		684.0	mg/kg	9.56
Mercury		1.74	mg/kg	0.01
Arsenic	<	2.87	mg/kg	2.87
Molybdenum		23.97	mg/kg	2.87
Selenium		7.35	mg/kg	4.78
PCBs		< .18	mg/kg	0.18

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PA DEP Lab ID # 14-00588

Analysis Report for Use of Biosolids on Cropland

Joseph Concino
City of York - WWTP
1701 Black Bridge Rd
York PA 17402

Lab Sample ID: E15447
Date Received: September 5, 2012
Date Sampled: 9/3/12
Report Date: 10/8/12
Sample type: Composite
County: York
Customer Sample ID: Centrifuge Cake

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH_4N	P	K	Mg	Ca	Na	Fe	Al
@ 22.3 C	— % —	% (dry weight basis)										
8.3	15.35	77.03	7.32	6.39	0.93	2.31	0.20	0.43	3.51	0.08	1.06	0.43

Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB[1]	Reactive CN
mg/kg (dry weight basis)												
255.0	3.29	2.69	22.6	516.8	91.5	0.83	24.0	22.0	7.55	793.3	< .18	< 1

NR-Not Requested One dry ton of this material is equivalent to 1563 gallons of wet material or 6.5 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)		
Total N	7.32	0.68	dry tons of this biosolid will supply 100 lbs of total N.
P_2O_5	5.30	2.16	dry tons of this biosolid will supply 100 lbs of P
K_2O	0.25		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	9/17/2012	12:35:25
As	3050B + 6010	Brooks	9/17/2012	12:35:25
Se	3050B + 6010	Brooks	9/17/2012	12:35:25
Hg	7473	Brooks	9/13/2012	12:11:29 PM
PCB[1]	8082			

[1]Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	1.665	1.665	1.665	0.361	1.665	1.665	1.665	1.665	1.665
Analyte conc. in sample/ digest (mg/L except Hg)	0.017	0.014	2.64	0.046 ug	0.12	0.11	0.47	0.04	4.05
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
Nitrate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	
5.63					

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PA DEP Lab ID # 14-00588

Biosolids Analysis Report

Joseph Concino
City of York - WWTP
1701 Black Bridge Rd
York PA 17402

Lab Sample ID: E15447
Date Received: September 5, 2012
Date Sampled: 9/3/12
County: York
Customer Sample ID: Centrifuge Cake

RESULTS (Dry Weight Basis)

Parameter Analyzed	Result	Units	Sample Detection Limit
pH	8.26	—	—
Solids	15.35	%	—
Total Phosphorus	23,141	mg/kg	48.92
Total Potassium	2,043	mg/kg	97.85
Total Combustion Nitrogen	7.32	%	-
Ammonium Nitrogen	0.93	%	0.02
Nitrate	5.63	mg/kg	3.89
Cadmium	2.69	mg/kg	0.98
Copper	516.8	mg/kg	2.94
Nickel	22.0	mg/kg	1.96
Lead	91.5	mg/kg	4.89
Zinc	793.3	mg/kg	9.78
Mercury	0.83	mg/kg	0.02
Arsenic	3.29	mg/kg	2.94
Molybdenum	24.01	mg/kg	2.94
Selenium	7.55	mg/kg	4.89
PCBs	< .18	mg/kg	0.18

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Analysis Report for Use of Biosolids on Cropland

Joseph Concino
City of York - WWTP
1701 Black Bridge Rd
York PA 17402

Lab Sample ID: E15567
Date Received: November 9, 2012
Date Sampled: 11/8/12
Report Date: 11/26/12
Sample type: Composite
County: York
Customer Sample ID: Centrifuge Cake

RESULTS

pH @ 21.4 C	Solids	Volatile	Tot-N	Org-N	NH_4N	P	K	Mg	Ca	Na	Fe	Al
	— % —	% (dry weight basis)										
7.9	18.25	82.61	6.45	5.82	0.63	2.25	0.53	0.41	3.66	0.07	1.01	0.40

Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB[1]	Reactive CN
mg/kg (dry weight basis)												
248.2	3.43	2.28	22.2	489.4	83.8	1.02	21.2	21.4	6.18	710.1	< .15	< 1

NR-Not Requested One dry ton of this material is equivalent to 1314 gallons of wet material or 5.5 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)		
Total N	6.45	0.77	dry tons of this biosolid will supply 100 lbs of total N.
P_2O_5	5.15	2.23	dry tons of this biosolid will supply 100 lbs of P
K_2O	0.63		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	11/16/2012	10:43:16
As	3050B + 6010	Brooks	11/16/2012	10:43:16
Se	3050B + 6010	Brooks	11/16/2012	10:43:16
Hg	7473	Rishel	11/14/2012	2:26:40 PM
PCB[1]	8082			

[1]Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.352	2.352	2.352	0.273	2.352	2.352	2.352	2.352	2.352
Analyte conc. in sample/ digest (mg/L except Hg)	0.029	0.020	4.20	0.051 ug	0.18	0.18	0.72	0.05	6.10
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
Nitrate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	
< 3.51					

PENNSTATE

Agricultural Analytical Services Laboratory
College of Agricultural Sciences
The Pennsylvania State University
University Park, PA 16802

Phone: 814-863-0841
Fax: 814-863-4540
Web: www.aasl.psu.edu

PA DEP Lab ID # 14-00588

Biosolids Analysis Report

Joseph Concino
City of York - WWTP
1701 Black Bridge Rd
York PA 17402

Lab Sample ID: E15567
Date Received: November 9, 2012
Date Sampled: 11/8/12
County: York
Customer Sample ID: Centrifuge Cake

RESULTS (Dry Weight Basis)

Parameter Analyzed		Result	Units	Sample Detection Limit
pH		7.86	—	—
Solids		18.25	%	—
Total Phosphorus		22,468	mg/kg	29.12
Total Potassium		5,271	mg/kg	58.24
Total Combustion Nitrogen		6.45	%	-
Ammonium Nitrogen		0.63	%	0.01
Nitrate	<	3.51	mg/kg	3.51
Cadmium		2.28	mg/kg	0.58
Copper		489.4	mg/kg	1.75
Nickel		21.4	mg/kg	1.16
Lead		83.8	mg/kg	2.91
Zinc		710.1	mg/kg	5.82
Mercury		1.02	mg/kg	0.02
Arsenic		3.43	mg/kg	1.75
Molybdenum		21.23	mg/kg	1.75
Selenium		6.18	mg/kg	2.91
PCBs		< .15	mg/kg	0.15

ALS Environmental
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February 14, 2012

2/14/12

Mr. Joe Concino
York, City of (WWTP)
1701 Blackridge Road
York, PA 17405

Certificate of Analysis

Project Name:	PP SCANS AND LOCAL LIMITS -	Workorder:	9950128
Purchase Order:	12-100191	Workorder ID:	Local Limits

Dear Mr. Concino,

Enclosed are the analytical results for samples received by the laboratory on Thursday, February 02, 2012.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Shannon Butler (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Technical Manager

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SAMPLE SUMMARY

Workorder: 9950128 Local Limits

Discard Date: 02/28/2012

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9950128001	Raw Influent	Waste Water	2/1/12 00:00	2/2/12 16:40	Customer
9950128002	002 Effluent	Waste Water	2/1/12 00:00	2/2/12 16:40	Customer
9950128003	Raw Influent	Waste Water	2/1/12 13:37	2/2/12 16:40	Customer
9950128004	002 Effluent	Waste Water	2/1/12 13:45	2/2/12 16:40	Customer
9950128005	Centrifuge Cake	Solid	2/2/12 07:30	2/2/12 16:40	Customer

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9950128 Local Limits

Lab ID: **9950128001** Date Collected: 2/1/2012 00:00 Matrix: Waste Water
Sample ID: **Raw Influent** Date Received: 2/2/2012 16:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Cyanide, Total	ND		mg/L	0.0050	EPA 335.4	2/8/12	JEP	2/8/12 13:26	JEP	A
METALS										
Arsenic, Total	ND		mg/L	0.0050	EPA 200.7	2/8/12	KMK	2/13/12 10:36	JWK	B3
Cadmium, Total	ND		mg/L	0.0010	EPA 200.7	2/8/12	KMK	2/13/12 10:36	JWK	B3
Chromium, Total	0.0024		mg/L	0.0010	EPA 200.8	2/6/12	KMK	2/6/12 13:15	MWO	B1
Copper, Total	0.050		mg/L	0.0050	EPA 200.7	2/8/12	KMK	2/13/12 10:36	JWK	B3
Lead, Total	0.0073		mg/L	0.0030	EPA 200.7	2/8/12	KMK	2/13/12 10:36	JWK	B3
Mercury, Total	ND		mg/L	0.00050	EPA 245.1	2/8/12	MNP	2/8/12 12:13	MNP	B2
Molybdenum, Total	0.022		mg/L	0.010	EPA 200.7	2/8/12	KMK	2/13/12 10:36	JWK	B3
Nickel, Total	0.0031		mg/L	0.0025	EPA 200.8	2/6/12	KMK	2/6/12 16:07	MWO	B1
Selenium, Total	0.0058		mg/L	0.0020	EPA 200.8	2/6/12	KMK	2/6/12 13:15	MWO	B1
Silver, Total	0.0014		mg/L	0.0010	EPA 200.8	2/6/12	KMK	2/6/12 13:15	MWO	B1
Zinc, Total	0.11		mg/L	0.010	EPA 200.7	2/8/12	KMK	2/13/12 10:36	JWK	B3

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9950128 Local Limits

Lab ID: **9950128002** Date Collected: 2/1/2012 00:00 Matrix: Waste Water

Sample ID: **002 Effluent** Date Received: 2/2/2012 16:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Cyanide, Total	ND		mg/L	0.0050	EPA 335.4	2/8/12	JEP	2/8/12 13:26	JEP	A
METALS										
Arsenic, Total	ND		mg/L	0.0050	EPA 200.7	2/8/12	KMK	2/13/12 10:49	JWK	B3
Cadmium, Total	ND		mg/L	0.0010	EPA 200.7	2/8/12	KMK	2/13/12 10:49	JWK	B3
Chromium, Total	ND		mg/L	0.0010	EPA 200.8	2/6/12	KMK	2/6/12 16:09	MWO	B1
Copper, Total	ND		mg/L	0.0050	EPA 200.7	2/8/12	KMK	2/13/12 10:49	JWK	B3
Lead, Total	ND		mg/L	0.0030	EPA 200.7	2/8/12	KMK	2/13/12 10:49	JWK	B3
Mercury, Total	ND		mg/L	0.00050	EPA 245.1	2/8/12	MNP	2/8/12 12:14	MNP	B2
Molybdenum, Total	0.021		mg/L	0.010	EPA 200.7	2/8/12	KMK	2/13/12 10:49	JWK	B3
Nickel, Total	ND		mg/L	0.0025	EPA 200.8	2/6/12	KMK	2/6/12 16:09	MWO	B1
Selenium, Total	ND		mg/L	0.0020	EPA 200.8	2/6/12	KMK	2/6/12 16:09	MWO	B1
Silver, Total	ND		mg/L	0.0010	EPA 200.8	2/6/12	KMK	2/6/12 13:18	MWO	B1
Zinc, Total	0.037		mg/L	0.010	EPA 200.7	2/8/12	KMK	2/13/12 10:49	JWK	B3

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9950128 Local Limits

Lab ID: **9950128003** Date Collected: 2/1/2012 13:37 Matrix: Waste Water

Sample ID: **Raw Influent** Date Received: 2/2/2012 16:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Oil/Grease Hexane Extractable	39.3		mg/L	2.5	EPA 1664A			2/14/12 00:00	JJS	A

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9950128 Local Limits

Lab ID: **9950128004** Date Collected: 2/1/2012 13:45 Matrix: Waste Water

Sample ID: **002 Effluent** Date Received: 2/2/2012 16:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Oil/Grease Hexane Extractable	2.4		mg/L	2.2	EPA 1664A			2/14/12 00:00	JJS	A

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9950128 Local Limits

Lab ID: **9950128005** Date Collected: 2/2/2012 07:30 Matrix: Solid

Sample ID: **Centrifuge Cake** Date Received: 2/2/2012 16:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Cyanide, Total	ND		mg/kg	1.6	SW846 9012B	2/7/12	JEP	2/7/12 15:41	JEP	A
Hexane Extractable Material	27700		mg/kg	1260	SW846 9071B			2/13/12 12:09	KJD	A
Moisture	84.2		%	0.1	SM20-2540 G			2/3/12 11:25	KAK	A
Silica Gel Treated HEM	12700		mg/kg	1260	SW846 9071B			2/13/12 12:09	KJD	A
Total Solids	15.8		%	0.1	SM20-2540 G			2/3/12 11:25	KAK	A
METALS										
Arsenic, Total	ND		mg/kg	11.9	SW846 6010C	2/6/12	KMK	2/7/12 03:17	KMH	A1
Cadmium, Total	ND		mg/kg	3.0	SW846 6010C	2/6/12	KMK	2/7/12 03:17	KMH	A1
Chromium, Total	29.1		mg/kg	6.0	SW846 6010C	2/6/12	KMK	2/7/12 03:17	KMH	A1
Copper, Total	426		mg/kg	11.9	SW846 6010C	2/6/12	KMK	2/7/12 03:17	KMH	A1
Lead, Total	53.4		mg/kg	11.9	SW846 6010C	2/6/12	KMK	2/7/12 03:17	KMH	A1
Mercury, Total	ND		mg/kg	1.1	SW846 7471B	2/9/12	MNP	2/9/12 12:55	MNP	A2
Molybdenum, Total	20.3		mg/kg	11.9	SW846 6010C	2/6/12	KMK	2/7/12 03:17	KMH	A1
Nickel, Total	25.4		mg/kg	11.9	SW846 6010C	2/6/12	KMK	2/7/12 03:17	KMH	A1
Selenium, Total	ND		mg/kg	29.9	SW846 6010C	2/6/12	KMK	2/7/12 03:17	KMH	A1
Silver, Total	12.6		mg/kg	3.0	SW846 6010C	2/6/12	KMK	2/7/12 03:17	KMH	A1
Zinc, Total	606		mg/kg	11.9	SW846 6010C	2/6/12	KMK	2/7/12 03:17	KMH	A1

Sample Comments:

Anna G Milliken
Technical Manager

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

Page 1 of 1

Co. Name: York City WWTP
Contact (Report to): Joseph Concino Phone: 845-2794
Address: 1701 Black Bridge Road York, PA 17402
Bill to (if different than Report to):
PO#: 12-100191
Project Name/#: Local Limits ALS Quote #: 206062
Email? X Fax? Hard Copy? No: JConcino@YorkCity.org

Sample Description/Location (as it will appear on the lab report)	Sample Date	Military Time	Matrix	Enter Number of Containers Per Analysis: As, Cd, Cu, Mo, Pb, Zn, Ag, Cr, Ni, Se, Hg TOTAL	CYANIDE	OIL & GREASE 1664	TOTAL SOLIDS	OIL & GREASE 9071B
1 RAW INFLUENT	2/1/12	0900-2400	CWW	1	1			
2 DOL EFFLUENT	2/1/12	0000-2400	CWW	1	1			
3 RAW INFLUENT	2/1/12	1337	GWW			1		
4 DOL EFFLUENT	2/1/12	1345	GWW			1		
5 CENTRIFUGE CAKE	2/1/12	0100-0730	CSL	X	X		X	X
6								
7								
8								
9								
10								

Cooler Temp: 1°C Therm. ID: TP-015 No. of Coolers:

Custody seals Present? Y
If present, Seals Intact? Y
Correct sample volume? Y
Correct preservatives? N
Headspace/Volatiles? N
COC/Labels complete/accurate? N
Received on ice? N
Container in good condition? N
Correct containers? N
Circle appropriate Y or N.

Notes:

Receipt information (completed by Sample Receipt)

Standard / CLP-like / NJ-Reduced / NJ-Full / Data Deliverables / SWA Permit-75 / State Sample Deliverables: MD, NJ, NY, PA / EDDs / DOD Criteria Required?

ALS FIELD SERVICES: Pickup, Labor, Composite Sampling, Burner Equipment, Other

LOGGED BY (Signature): 2/2/12 1:30
REVIEWED BY (Signature): 2/3/12 8:30

SAMPLED BY (Please Print):

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 York City WWTP	2/1/12	1315	2 Pauline Joseph / ALS	2/1/12	1315
3 Pauline Joseph	2/1/12	1315	4 Alex Salvadrezy / ALS	2-2-12	1510
5 Alex Salvadrezy / ALS	2-2-12	1640	6 [illegible]	2/2/12	1640
7			8		
9			10		

*SeGrab; CnComposite **Matrix: AbAir; OWDrinking Water; GWGroundwater; OHOil; OLOther Liquid; SLSludge; SOSoil; WPWipe; WWWastewater
***Container Type: AGAmber Glass; CGClear Glass, PLPlastic. Container Size: 250ml, 500ml, 1L, 8oz, etc. Preservatives: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

Rev 6/2011

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April 16, 2012

3/28/12

Mr. Joe Concino
York, City of (WWTP)
1701 Blackridge Road
York, PA 17405

Certificate of Analysis

Project Name:	**2012-WW SAMPLES**	Workorder:	**9959419**
Purchase Order:		Workorder ID:	**EPA Scan 03/29/12**

Dear Mr. Concino,

Enclosed are the analytical results for samples received by the laboratory on Thursday, March 29, 2012.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Shannon Butler (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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Anna G Milliken
Technical Manager

ALS Environmental

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SAMPLE SUMMARY

Workorder: 9959419 EPA Scan 03/29/12 Discard Date: 04/30/2012

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9959419001	Raw Influent	Waste Water	3/28/12 00:00	3/29/12 11:23	Customer
9959419002	002 Effluent	Waste Water	3/28/12 00:00	3/29/12 11:23	Customer

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9959419 EPA Scan 03/29/12

Lab ID: **9959419001** Date Collected: 3/28/2012 00:00 Matrix: Waste Water

Sample ID: **Raw Influent** Date Received: 3/29/2012 11:23

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Pesticides and PCBs										
Aroclor-1016	ND		ug/L	0.49	EPA 608	3/30/12	GEC	4/2/12 21:57	EGO	A1
Aroclor-1221	ND		ug/L	0.49	EPA 608	3/30/12	GEC	4/2/12 21:57	EGO	A1
Aroclor-1232	ND		ug/L	0.49	EPA 608	3/30/12	GEC	4/2/12 21:57	EGO	A1
Aroclor-1242	ND		ug/L	0.49	EPA 608	3/30/12	GEC	4/2/12 21:57	EGO	A1
Aroclor-1248	ND		ug/L	0.49	EPA 608	3/30/12	GEC	4/2/12 21:57	EGO	A1
Aroclor-1254	ND		ug/L	0.49	EPA 608	3/30/12	GEC	4/2/12 21:57	EGO	A1
Aroclor-1260	ND		ug/L	0.49	EPA 608	3/30/12	GEC	4/2/12 21:57	EGO	A1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyl (S)	64		%	30-150	EPA 608	3/30/12	GEC	4/2/12 21:57	EGO	A1
Tetrachloro-m-xylene (S)	104		%	36-112	EPA 608	3/30/12	GEC	4/2/12 21:57	EGO	A1
WET CHEMISTRY										
Nitrate-N	ND		mg/L	0.20	EPA 300			3/30/12 04:16	FSC	D
Nitrite-N	ND		mg/L	0.20	EPA 300			3/30/12 04:16	FSC	D
Total Kjeldahl Nitrogen	27.0		mg/L	4.0	SM20-4500-N C	4/10/12	NJA	4/10/12 18:04	EZ	C
Total Nitrogen	27.0		mg/L	1.00	Calculation			4/16/12 15:16	JWB	C

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental

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ANALYTICAL RESULTS

Workorder: 9959419 EPA Scan 03/29/12

Lab ID: **9959419002** Date Collected: 3/28/2012 00:00 Matrix: Waste Water

Sample ID: **002 Effluent** Date Received: 3/29/2012 11:23

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
bis(2-Ethylhexyl)phthalate	ND		ug/L	2.9	EPA 625	4/3/12	GEC	4/4/12 00:39	CGS	A1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	74.1		%	38-134	EPA 625	4/3/12	GEC	4/4/12 00:39	CGS	A1
2-Fluorobiphenyl (S)	66.7		%	37-113	EPA 625	4/3/12	GEC	4/4/12 00:39	CGS	A1
2-Fluorophenol (S)	45.1		%	17-73	EPA 625	4/3/12	GEC	4/4/12 00:39	CGS	A1
Nitrobenzene-d5 (S)	83.2		%	37-124	EPA 625	4/3/12	GEC	4/4/12 00:39	CGS	A1
Phenol-d5 (S)	29		%	11-53	EPA 625	4/3/12	GEC	4/4/12 00:39	CGS	A1
Terphenyl-d14 (S)	77.8		%	33-125	EPA 625	4/3/12	GEC	4/4/12 00:39	CGS	A1
Pesticides and PCBs										
Aroclor-1016	ND		ug/L	0.48	EPA 608	3/30/12	GEC	4/2/12 22:34	EGO	C1
Aroclor-1221	ND		ug/L	0.48	EPA 608	3/30/12	GEC	4/2/12 22:34	EGO	C1
Aroclor-1232	ND		ug/L	0.48	EPA 608	3/30/12	GEC	4/2/12 22:34	EGO	C1
Aroclor-1242	ND		ug/L	0.48	EPA 608	3/30/12	GEC	4/2/12 22:34	EGO	C1
Aroclor-1248	ND		ug/L	0.48	EPA 608	3/30/12	GEC	4/2/12 22:34	EGO	C1
Aroclor-1254	ND		ug/L	0.48	EPA 608	3/30/12	GEC	4/2/12 22:34	EGO	C1
Aroclor-1260	ND		ug/L	0.48	EPA 608	3/30/12	GEC	4/2/12 22:34	EGO	C1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyl (S)	58		%	30-150	EPA 608	3/30/12	GEC	4/2/12 22:34	EGO	C1
Tetrachloro-m-xylene (S)	79.8		%	36-112	EPA 608	3/30/12	GEC	4/2/12 22:34	EGO	C1

Sample Comments:

Anna G Milliken
Technical Manager

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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SAMPLER: INSTRUCTIONS ON THE BACK.

Page 1 of 1
Courier:
Tracking #:
9959419

Ship to: 34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

Co. Name: YORK CITY WWTP
Contact (Report to): JOSEPH CONCINO Phone: 845-2794
Address: 1701 BLACK BRIDGE ROAD YORK PA 17402
Bill to (if different than Report to): PO#: 12-101977
Project Name/#: EPA SCAN ALS Quote #: 307380
TAT: Normal-Standard TAT is 15 business days. Rush-Subject to ALS approval and surcharges. Date Required: Approved By:
Email? Y JCONCINO@YORKCITY.ORG Fax? Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	G or C	Matrix	Container Type	Container Size	Preservative	PO4+NO3	TKN	PCBs	BIS 2-ETHYLHEXYL PHTHALATE			
1 RAW INFLUENT		3/28/12	0000-2400	C	WW	GL	250 mL	—	1	1	2				
2 002 EFFLUENT		3/28/12	0000-2400	C	WW	PL	500 mL	HNO3	—	—	2	2			
3						GL	1L	—							
4						GL	1L	—							
5															
6															
7															
8															

Enter Number of Containers Per Analysis

ANALYSES/METHOD REQUESTED

Receipt Information (Accepted by Sample Receiver): Printed / Signature / Date / Time
Cooler Temp: 6.0 Therm. ID: 58717
No. of Coolers:
Notes:

Circle appropriate Y or N.

Custody seals Present?	Y	N
(If present) Seals Intact?	Y	N
Received on Ice?	Y	N
COC/Labels complete/accurate?	Y	N
Container in good condition?	Y	N
Correct container?	Y	N
Correct sample volume?	Y	N
Correct preservation?	Y	N
Headspace/Volatiles?	Y	N

SLIMS Formats: yes / yes / yes / yes
State Samples Collected in: MD / NJ / NY / PA
Data Deliverables: Standard / CLP-like / NJ-Reduced / NJ-Full / yes, format type: Other
EDDs Required? yes
DOD Criteria Required?

ALS FIELD SERVICES: Pickup / Labor / Composite Sampling / Rental Equipment / Other

SAMPLED BY (Please Print): JOSEPH
LOGGED BY (signature): 3-28-12
REVIEWED BY (signature): SUSAN HILL 4/5/12

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 YORK CITY	3/28/12	1123	2 Hollaine Joseph / ALS	3/29/12	1123
3 Hollaine Joseph / ALS	3-29-12	1530	4 [illegible]	3-29-12	1730
5 ALS	3-29-12		6		
7			8		
9			10		

*G=Grab; C=Composite **Matrix: Air-Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass; PL-Plastic. Container Size: 250mL, 500mL, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.
Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY Rev 6/2011

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June 20, 2012

5/31/12

Mr. Joe Concino
York, City of (WWTP)
1701 Blackridge Road
York, PA 17405

Certificate of Analysis

Project Name:	**PP SCANS AND LOCAL LIMITS -**	Workorder:	**9970520**
Purchase Order:	**12-100191**	Workorder ID:	**Local Limits**

Dear Mr. Concino,

Enclosed are the analytical results for samples received by the laboratory on Friday, June 01, 2012.

The ALS Environmental laboratory in Middletown, Pennsylvania (formerly Analytical Laboratory Services, Inc.) is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Shannon Butler (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Technical Manager

ALS Environmental

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SAMPLE SUMMARY

Workorder: 9970520 Local Limits

Discard Date: 07/04/2012

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9970520001	Raw Influent Composite	Waste Water	5/31/12 00:00	6/1/12 19:25	Customer
9970520002	002 Effluent Composite	Waste Water	5/31/12 00:00	6/1/12 19:25	Customer
9970520003	Raw Influent Grab	Waste Water	5/31/12 09:32	6/1/12 19:25	Customer
9970520004	002 Effluent Grab	Waste Water	5/31/12 09:46	6/1/12 19:25	Customer
9970520005	Centrifuge Cake	Solid	5/31/12 06:30	6/1/12 19:25	Customer

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9970520 Local Limits

Lab ID: **9970520001** Date Collected: 5/31/2012 00:00 Matrix: Waste Water

Sample ID: **Raw Influent Composite** Date Received: 6/1/2012 19:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Cyanide, Total	ND		mg/L	0.0050	EPA 335.4	6/4/12	JEP	6/4/12 13:49	JEP	A1
METALS										
Arsenic, Total	ND		mg/L	0.0050	EPA 200.7	6/6/12	KMK	6/7/12 16:30	JWK	B2
Cadmium, Total	ND		mg/L	0.0010	EPA 200.7	6/6/12	KMK	6/7/12 16:30	JWK	B2
Chromium, Total	0.0027		mg/L	0.0010	EPA 200.8	6/6/12	KMK	6/8/12 16:25	MWO	B3
Copper, Total	0.071		mg/L	0.0050	EPA 200.7	6/6/12	KMK	6/7/12 16:30	JWK	B2
Lead, Total	0.011		mg/L	0.0030	EPA 200.7	6/6/12	KMK	6/7/12 16:30	JWK	B2
Mercury, Total	ND		mg/L	0.00050	EPA 245.1	6/6/12	MNP	6/6/12 12:36	MNP	B1
Molybdenum, Total	0.026		mg/L	0.010	EPA 200.7	6/6/12	KMK	6/7/12 16:30	JWK	B2
Nickel, Total	0.0043		mg/L	0.0025	EPA 200.8	6/6/12	KMK	6/8/12 16:25	MWO	B3
Selenium, Total	ND		mg/L	0.0020	EPA 200.8	6/6/12	KMK	6/8/12 16:25	MWO	B3
Silver, Total	0.0013		mg/L	0.0010	EPA 200.8	6/6/12	KMK	6/8/12 16:25	MWO	B3
Zinc, Total	0.17		mg/L	0.010	EPA 200.7	6/6/12	KMK	6/7/12 16:30	JWK	B2

Sample Comments:

Anna G Milliken
Technical Manager

(ALS) Environmental

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ANALYTICAL RESULTS

Workorder: 9970520 Local Limits

Lab ID: **9970520002** Date Collected: 5/31/2012 00:00 Matrix: Waste Water

Sample ID: **002 Effluent Composite** Date Received: 6/1/2012 19:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Cyanide, Total	ND		mg/L	0.0050	EPA 335.4	6/4/12	JEP	6/4/12 13:49	JEP	A1
METALS										
Arsenic, Total	ND		mg/L	0.0050	EPA 200.7	6/6/12	KMK	6/7/12 16:35	JWK	B2
Cadmium, Total	ND		mg/L	0.0010	EPA 200.7	6/6/12	KMK	6/7/12 16:35	JWK	B2
Chromium, Total	ND		mg/L	0.0010	EPA 200.8	6/6/12	KMK	6/8/12 16:29	MWO	B3
Copper, Total	ND		mg/L	0.0050	EPA 200.7	6/6/12	KMK	6/7/12 16:35	JWK	B2
Lead, Total	ND		mg/L	0.0030	EPA 200.7	6/6/12	KMK	6/7/12 16:35	JWK	B2
Mercury, Total	ND		mg/L	0.00050	EPA 245.1	6/6/12	MNP	6/6/12 12:39	MNP	B1
Molybdenum, Total	0.029		mg/L	0.010	EPA 200.7	6/6/12	KMK	6/7/12 16:35	JWK	B2
Nickel, Total	0.0029		mg/L	0.0025	EPA 200.8	6/6/12	KMK	6/8/12 16:29	MWO	B3
Selenium, Total	ND		mg/L	0.0020	EPA 200.8	6/6/12	KMK	6/8/12 16:29	MWO	B3
Silver, Total	ND		mg/L	0.0010	EPA 200.8	6/6/12	KMK	6/8/12 16:29	MWO	B3
Zinc, Total	0.034		mg/L	0.010	EPA 200.7	6/6/12	KMK	6/7/12 16:35	JWK	B2

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9970520 Local Limits

Lab ID: **9970520003** Date Collected: 5/31/2012 09:32 Matrix: Waste Water

Sample ID: **Raw Influent Grab** Date Received: 6/1/2012 19:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Oil/Grease Hexane Extractable	8.2		mg/L	2.6	EPA 1664A			6/11/12 11:15	JDH	A

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9970520 Local Limits

Lab ID: **9970520004** Date Collected: 5/31/2012 09:46 Matrix: Waste Water

Sample ID: **002 Effluent Grab** Date Received: 6/1/2012 19:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Oil/Grease Hexane Extractable	ND		mg/L	2.1	EPA 1664A			6/11/12 11:15	JDH	A

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9970520 Local Limits

Lab ID: **9970520005** Date Collected: 5/31/2012 06:30 Matrix: Solid

Sample ID: **Centrifuge Cake** Date Received: 6/1/2012 19:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Cyanide, Total	ND		mg/kg	1.8	SW846 9012B	6/5/12	ARK	6/6/12 09:42	JEP	A1
Hexane Extractable Material	36300		mg/kg	1370	SW846 9071B			6/19/12 11:00	NJA	A
Moisture	85.4		%	0.1	SM20-2540 G			6/7/12 09:10	KED	A
Silica Gel Treated HEM	15700		mg/kg	1370	SW846 9071B			6/19/12 11:00	NJA	A
Total Solids	14.6		%	0.1	SM20-2540 G			6/7/12 09:10	KED	A
METALS										
Arsenic, Total	ND		mg/kg	12.0	SW846 6010C	6/6/12	KMK	6/7/12 04:52	KMH	A2
Cadmium, Total	3.0		mg/kg	3.0	SW846 6010C	6/6/12	KMK	6/7/12 04:52	KMH	A2
Chromium, Total	31.0		mg/kg	6.0	SW846 6010C	6/6/12	KMK	6/8/12 05:52	KMH	A2
Copper, Total	450		mg/kg	12.0	SW846 6010C	6/6/12	KMK	6/7/12 04:52	KMH	A2
Lead, Total	63.3		mg/kg	12.0	SW846 6010C	6/6/12	KMK	6/7/12 04:52	KMH	A2
Mercury, Total	1.2		mg/kg	0.29	SW846 7471B	6/8/12	MNP	6/8/12 12:18	MNP	A3
Molybdenum, Total	23.6		mg/kg	12.0	SW846 6010C	6/6/12	KMK	6/7/12 04:52	KMH	A2
Nickel, Total	26.2		mg/kg	12.0	SW846 6010C	6/6/12	KMK	6/7/12 04:52	KMH	A2
Selenium, Total	ND		mg/kg	30.0	SW846 6010C	6/6/12	KMK	6/7/12 04:52	KMH	A2
Silver, Total	13.2		mg/kg	3.0	SW846 6010C	6/6/12	KMK	6/7/12 04:52	KMH	A2
Zinc, Total	670		mg/kg	12.0	SW846 6010C	6/6/12	KMK	6/7/12 04:52	KMH	A2

Sample Comments:

Anna G Milliken
Technical Manager

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Contact (Report to): JOSEPH CONCINO Phone: 845 2794
Address: 1701 BLACK BRIDGE ROAD
YORK, PA 17402

Bill to (if different than Report to): PO#: 12-100191

Project Name/#: LOCAL LIMITS ALS Quote #: 206062

TAT: [X] Normal-Standard TAT is 10 business days. Date Required:
[ ] Rush-Subject to ALS approval and surcharges. Approved By:

Email? [X] Y JCONCINO@YORKCITY.ORG
Fax? [ ] Y No.

| | | |

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June 12, 2012

5/31/2012

Mr. Joe Concino
York, City of (WWTP)
1701 Blackridge Road
York, PA 17405

Certificate of Analysis

Project Name:	**PP SCANS AND LOCAL LIMITS -**	Workorder:	**9970522**
Purchase Order:	**12-100188**	Workorder ID:	**Priority Pollutants**

Dear Mr. Concino,

Enclosed are the analytical results for samples received by the laboratory on Friday, June 01, 2012.

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Anna G Milliken
Technical Manager

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

SAMPLE SUMMARY

Workorder: 9970522 Priority Pollutants

Discard Date: 06/26/2012

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9970522001	Raw Influent Composite	Waste Water	5/31/12 00:00	6/1/12 19:25	Customer
9970522002	Raw Influent Grab	Waste Water	5/31/12 09:32	6/1/12 19:25	Customer
9970522003	Centrifuge Cake	Solid	5/31/12 06:30	6/1/12 19:25	Customer

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9970522 Priority Pollutants

Lab ID: **9970522001** Date Collected: 5/31/2012 00:00 Matrix: Waste Water

Sample ID: **Raw Influent Composite** Date Received: 6/1/2012 19:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/L	1.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Acenaphthylene	ND		ug/L	1.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Anthracene	ND		ug/L	1.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Benzidine	ND		ug/L	53.8	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Benzo(a)anthracene	ND		ug/L	1.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Benzo(a)pyrene	ND		ug/L	1.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Benzo(b)fluoranthene	ND		ug/L	1.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Benzo(g,h,i)perylene	ND		ug/L	1.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Benzo(k)fluoranthene	ND		ug/L	1.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
4-Bromophenyl-phenylether	ND		ug/L	3.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Butylbenzylphthalate	ND		ug/L	3.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
4-Chloro-3-methylphenol	ND		ug/L	8.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
bis(2-Chloroethoxy)methane	ND		ug/L	3.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
bis(2-Chloroethyl)ether	ND		ug/L	3.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
bis(2-Chloroisopropyl)ether	ND		ug/L	3.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
2-Chloronaphthalene	ND	1	ug/L	3.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
2-Chlorophenol	ND		ug/L	8.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
4-Chlorophenyl-phenylether	ND		ug/L	3.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Chrysene	ND		ug/L	1.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Di-n-Butylphthalate	ND		ug/L	3.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Di-n-Octylphthalate	ND		ug/L	8.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Dibenzo(a,h)anthracene	ND		ug/L	1.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
3,3-Dichlorobenzidine	ND		ug/L	17.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
2,4-Dichlorophenol	ND		ug/L	8.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Diethylphthalate	ND		ug/L	8.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
2,4-Dimethylphenol	ND		ug/L	8.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Dimethylphthalate	ND		ug/L	8.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
2,4-Dinitrophenol	ND		ug/L	17.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
2,4-Dinitrotoluene	ND		ug/L	3.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
2,6-Dinitrotoluene	ND		ug/L	3.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
1,2-Diphenylhydrazine	ND		ug/L	3.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
bis(2-Ethylhexyl)phthalate	216		ug/L	6.5	EPA 625	6/4/12	GEC	6/5/12 12:44	SAS	A1
Fluoranthene	ND		ug/L	1.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Fluorene	ND		ug/L	1.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Hexachlorobenzene	ND		ug/L	3.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Hexachlorobutadiene	ND		ug/L	3.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Hexachlorocyclopentadiene	ND		ug/L	8.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Hexachloroethane	ND		ug/L	3.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Indeno(1,2,3-cd)pyrene	ND		ug/L	1.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Isophorone	ND		ug/L	3.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1

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ANALYTICAL RESULTS

Workorder: 9970522 Priority Pollutants

Lab ID: **9970522001** Date Collected: 5/31/2012 00:00 Matrix: Waste Water

Sample ID: **Raw Influent Composite** Date Received: 6/1/2012 19:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
2-Methyl-4,6-dinitrophenol	ND		ug/L	8.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Naphthalene	ND		ug/L	1.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Nitrobenzene	ND		ug/L	3.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
2-Nitrophenol	ND		ug/L	8.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
4-Nitrophenol	ND		ug/L	8.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
N-Nitrosodimethylamine	ND		ug/L	3.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
N-Nitroso-di-n-propylamine	ND		ug/L	3.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
N-Nitrosodiphenylamine	ND		ug/L	3.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Pentachlorophenol	ND		ug/L	17.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Phenanthrene	ND		ug/L	1.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Phenol	ND		ug/L	8.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Pyrene	ND		ug/L	1.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
1,2,4-Trichlorobenzene	ND		ug/L	3.2	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
2,4,6-Trichlorophenol	ND		ug/L	8.6	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	64.7		%	38-134	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
2-Fluorobiphenyl (S)	54.3		%	37-113	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
2-Fluorophenol (S)	35.7		%	17-73	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Nitrobenzene-d5 (S)	76.6		%	37-124	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Phenol-d5 (S)	23.5		%	11-53	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
Terphenyl-d14 (S)	82.6		%	33-125	EPA 625	6/4/12	GEC	6/5/12 03:22	CGS	A1
2,4,6-Tribromophenol (S)	65.1		%	38-134	EPA 625	6/4/12	GEC	6/5/12 12:44	SAS	A1
2-Fluorobiphenyl (S)	57.4		%	37-113	EPA 625	6/4/12	GEC	6/5/12 12:44	SAS	A1
2-Fluorophenol (S)	37.8		%	17-73	EPA 625	6/4/12	GEC	6/5/12 12:44	SAS	A1
Nitrobenzene-d5 (S)	81.1		%	37-124	EPA 625	6/4/12	GEC	6/5/12 12:44	SAS	A1
Phenol-d5 (S)	28.7		%	11-53	EPA 625	6/4/12	GEC	6/5/12 12:44	SAS	A1
Terphenyl-d14 (S)	80.2		%	33-125	EPA 625	6/4/12	GEC	6/5/12 12:44	SAS	A1
Pesticides and PCBs										
Aldrin	ND		ug/L	0.27	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
alpha-BHC	ND		ug/L	0.27	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
beta-BHC	ND		ug/L	0.27	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
delta-BHC	ND		ug/L	0.27	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
gamma-BHC	ND		ug/L	0.27	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
Chlordane	ND		ug/L	5.3	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
4,4'-DDD	ND		ug/L	0.27	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
4,4'-DDE	ND		ug/L	0.27	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
4,4'-DDT	ND		ug/L	0.27	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
Dieldrin	ND		ug/L	0.27	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
Endosulfan I	ND		ug/L	0.27	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1

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ANALYTICAL RESULTS

Workorder: 9970522 Priority Pollutants

Lab ID: **9970522001** Date Collected: 5/31/2012 00:00 Matrix: Waste Water

Sample ID: **Raw Influent Composite** Date Received: 6/1/2012 19:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Endosulfan II	ND		ug/L	0.27	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
Endosulfan Sulfate	ND		ug/L	0.27	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
Endrin	ND		ug/L	0.27	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
Endrin Aldehyde	ND		ug/L	0.27	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
Heptachlor	ND		ug/L	0.27	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
Heptachlor Epoxide	ND		ug/L	0.27	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
Mirex	ND		ug/L	0.27	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
Toxaphene	ND		ug/L	10.6	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
Aroclor-1016	ND		ug/L	5.3	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
Aroclor-1221	ND		ug/L	5.3	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
Aroclor-1232	ND		ug/L	5.3	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
Aroclor-1242	ND		ug/L	5.3	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
Aroclor-1248	ND		ug/L	5.3	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
Aroclor-1254	ND		ug/L	5.3	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
Aroclor-1260	ND		ug/L	5.3	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyl (S)	36.6		%	30-150	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
Tetrachloro-m-xylene (S)	70.1		%	36-112	EPA 608	6/5/12	LEH	6/7/12 08:54	KJH	B1
WET CHEMISTRY										
Cyanide, Total	ND		mg/L	0.0050	EPA 335.4	6/5/12	ARK	6/6/12 09:42	JEP	E1
Phenolics	0.03		mg/L	0.01	EPA 420.4	6/7/12	BPW	6/12/12 09:29	SAM	F2
METALS										
Antimony, Total	ND		mg/L	0.010	EPA 200.7	6/6/12	KMK	6/7/12 16:40	JWK	D2
Arsenic, Total	ND		mg/L	0.0050	EPA 200.7	6/6/12	KMK	6/7/12 16:40	JWK	D2
Beryllium, Total	ND		mg/L	0.0020	EPA 200.7	6/6/12	KMK	6/7/12 16:40	JWK	D2
Cadmium, Total	ND		mg/L	0.0010	EPA 200.7	6/6/12	KMK	6/7/12 16:40	JWK	D2
Chromium, Total	0.0030		mg/L	0.0025	EPA 200.7	6/6/12	KMK	6/7/12 16:40	JWK	D2
Copper, Total	0.062		mg/L	0.0050	EPA 200.7	6/6/12	KMK	6/7/12 16:40	JWK	D2
Lead, Total	0.011		mg/L	0.0030	EPA 200.7	6/6/12	KMK	6/7/12 16:40	JWK	D2
Mercury, Total	ND		mg/L	0.00050	EPA 245.1	6/6/12	MNP	6/6/12 12:40	MNP	D1
Nickel, Total	ND		mg/L	0.010	EPA 200.7	6/6/12	KMK	6/7/12 16:40	JWK	D2
Selenium, Total	ND		mg/L	0.010	EPA 200.7	6/6/12	KMK	6/7/12 16:40	JWK	D2
Silver, Total	0.0023		mg/L	0.0020	EPA 200.7	6/6/12	KMK	6/7/12 16:40	JWK	D2
Thallium, Total	ND		mg/L	0.010	EPA 200.7	6/6/12	KMK	6/7/12 16:40	JWK	D2
Zinc, Total	0.16		mg/L	0.010	EPA 200.7	6/6/12	KMK	6/7/12 16:40	JWK	D2

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ANALYTICAL RESULTS

Workorder: 9970522 Priority Pollutants

Lab ID:	**9970522001**	Date Collected:	5/31/2012 00:00	Matrix:	Waste Water
Sample ID:	**Raw Influent Composite**	Date Received:	6/1/2012 19:25		

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr

Sample Comments:

This sample was analyzed at a dilution in the 608 analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9970522 Priority Pollutants

Lab ID: **9970522002** Date Collected: 5/31/2012 09:32 Matrix: Waste Water

Sample ID: **Raw Influent Grab** Date Received: 6/1/2012 19:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acrolein	ND		ug/L	30.0	EPA 624			6/5/12 15:59	GLQ	A
Acrylonitrile	ND		ug/L	5.0	EPA 624			6/5/12 15:59	GLQ	A
Benzene	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
Bromodichloromethane	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
Bromoform	ND		ug/L	2.0	EPA 624			6/5/12 15:59	GLQ	A
Bromomethane	ND		ug/L	2.0	EPA 624			6/5/12 15:59	GLQ	A
Carbon Tetrachloride	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
Chlorobenzene	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
Chlorodibromomethane	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
Chloroethane	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
2-Chloroethylvinyl ether	ND		ug/L	2.0	EPA 624			6/5/12 15:59	GLQ	A
Chloroform	2.8		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
Chloromethane	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
1,2-Dichlorobenzene	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
1,3-Dichlorobenzene	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
1,4-Dichlorobenzene	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
1,1-Dichloroethane	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
1,2-Dichloroethane	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
1,1-Dichloroethene	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
trans-1,2-Dichloroethene	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
1,2-Dichloropropane	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
cis-1,3-Dichloropropene	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
trans-1,3-Dichloropropene	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
1,3-Dichloropropene, Total	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
Ethylbenzene	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
Methylene Chloride	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
1,1,2,2-Tetrachloroethane	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
Tetrachloroethene	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
Toluene	8.5		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
1,1,1-Trichloroethane	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
1,1,2-Trichloroethane	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
Trichloroethene	1.1		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
Trichlorofluoromethane	ND		ug/L	1.0	EPA 624			6/5/12 15:59	GLQ	A
Vinyl Chloride	ND		ug/L	2.0	EPA 624			6/5/12 15:59	GLQ	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	92.1		%	72-142	EPA 624			6/5/12 15:59	GLQ	A
4-Bromofluorobenzene (S)	93.1		%	73-119	EPA 624			6/5/12 15:59	GLQ	A
Dibromofluoromethane (S)	96.8		%	74-132	EPA 624			6/5/12 15:59	GLQ	A
Toluene-d8 (S)	111		%	75-133	EPA 624			6/5/12 15:59	GLQ	A

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ANALYTICAL RESULTS

Workorder: 9970522 Priority Pollutants

Lab ID:	**9970522002**	Date Collected:	5/31/2012 09:32	Matrix:	Waste Water
Sample ID:	**Raw Influent Grab**	Date Received:	6/1/2012 19:25		

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9970522 Priority Pollutants

Lab ID: **9970522003** Date Collected: 5/31/2012 06:30 Matrix: Solid

Sample ID: **Centrifuge Cake** Date Received: 6/1/2012 19:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	12100	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
Acrylonitrile	ND		ug/kg	2430	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
Benzene	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
Bromodichloromethane	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
Bromoform	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
Bromomethane	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
2-Butanone	ND		ug/kg	4850	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
Carbon Tetrachloride	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
Chlorobenzene	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
Chlorodibromomethane	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
Chloroethane	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
2-Chloroethylvinyl ether	ND		ug/kg	971	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
Chloroform	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
Chloromethane	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
1,1-Dichloroethane	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
1,2-Dichloroethane	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
1,1-Dichloroethene	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
trans-1,2-Dichloroethene	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
1,2-Dichloropropane	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
1,3-Dichloropropene, Total	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
Ethylbenzene	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
Methylene Chloride	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
1,1,2,2-Tetrachloroethane	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
Tetrachloroethene	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
Toluene	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
1,1,1-Trichloroethane	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
1,1,2-Trichloroethane	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
Trichloroethene	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
Vinyl Chloride	ND		ug/kg	485	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	72.2		%	71-146	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
4-Bromofluorobenzene (S)	51.1		%	46-138	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
Dibromofluoromethane (S)	63.2		%	42-143	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
Toluene-d8 (S)	61.6		%	54-141	8260/5035	6/2/12	GLQ	6/9/12 01:52	GLQ	B1
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	318	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Acenaphthylene	ND		ug/kg	318	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Anthracene	ND		ug/kg	318	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1

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ANALYTICAL RESULTS

Workorder: 9970522 Priority Pollutants

Lab ID: **9970522003** Date Collected: 5/31/2012 06:30 Matrix: Solid

Sample ID: **Centrifuge Cake** Date Received: 6/1/2012 19:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Benzidine	ND		ug/kg	3430	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Benzo(a)anthracene	ND		ug/kg	318	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Benzo(a)pyrene	ND		ug/kg	318	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Benzo(b)fluoranthene	462		ug/kg	318	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Benzo(g,h,i)perylene	ND		ug/kg	318	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Benzo(k)fluoranthene	ND		ug/kg	318	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
4-Bromophenyl-phenylether	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Butylbenzylphthalate	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
4-Chloro-3-methylphenol	ND		ug/kg	1720	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
bis(2-Chloroethoxy)methane	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
bis(2-Chloroethyl)ether	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
bis(2-Chloroisopropyl)ether	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
2-Chloronaphthalene	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
2-Chlorophenol	ND		ug/kg	1720	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
4-Chlorophenyl-phenylether	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Chrysene	ND		ug/kg	318	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Di-n-Butylphthalate	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Di-n-Octylphthalate	ND		ug/kg	1720	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Dibenzo(a,h)anthracene	ND		ug/kg	318	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
1,2-Dichlorobenzene	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
1,3-Dichlorobenzene	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
1,4-Dichlorobenzene	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
3,3-Dichlorobenzidine	ND		ug/kg	954	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
2,4-Dichlorophenol	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Diethylphthalate	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
2,4-Dimethylphenol	ND		ug/kg	1720	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Dimethylphthalate	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
2,4-Dinitrophenol	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
2,4-Dinitrotoluene	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
2,6-Dinitrotoluene	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
1,2-Diphenylhydrazine	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
bis(2-Ethylhexyl)phthalate	14400		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Fluoranthene	ND		ug/kg	318	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Fluorene	ND		ug/kg	318	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Hexachlorobenzene	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Hexachlorobutadiene	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Hexachlorocyclopentadiene	ND		ug/kg	1720	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Hexachloroethane	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	318	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Isophorone	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
2-Methyl-4,6-dinitrophenol	ND		ug/kg	1720	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1

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ANALYTICAL RESULTS

Workorder: 9970522 Priority Pollutants

Lab ID: **9970522003** Date Collected: 5/31/2012 06:30 Matrix: Solid

Sample ID: **Centrifuge Cake** Date Received: 6/1/2012 19:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Naphthalene	ND		ug/kg	318	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Nitrobenzene	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
2-Nitrophenol	ND		ug/kg	1720	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
4-Nitrophenol	ND		ug/kg	1720	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
N-Nitrosodimethylamine	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
N-Nitroso-di-n-propylamine	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
N-Nitrosodiphenylamine	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Pentachlorophenol	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Phenanthrene	ND		ug/kg	318	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Phenol	ND		ug/kg	1720	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Pyrene	594		ug/kg	318	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
1,2,4-Trichlorobenzene	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
2,4,6-Trichlorophenol	ND		ug/kg	636	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	88.1		%	37-123	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
2-Fluorobiphenyl (S)	83.1		%	45-105	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
2-Fluorophenol (S)	78.1		%	35-104	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Nitrobenzene-d5 (S)	87.1		%	41-110	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Phenol-d5 (S)	79.1		%	40-100	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
Terphenyl-d14 (S)	162	3	%	38-113	SW846 8270D	6/5/12	RMK	6/7/12 04:41	SAS	A1
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.21	SW846 8082A	6/5/12	MDO	6/5/12 22:16	EGO	A3
Aroclor-1016	ND		mg/kg	0.21	SW846 8082A	6/5/12	MDO	6/5/12 22:16	EGO	A3
Aroclor-1221	ND		mg/kg	0.21	SW846 8082A	6/5/12	MDO	6/5/12 22:16	EGO	A3
Aroclor-1232	ND		mg/kg	0.21	SW846 8082A	6/5/12	MDO	6/5/12 22:16	EGO	A3
Aroclor-1242	ND		mg/kg	0.21	SW846 8082A	6/5/12	MDO	6/5/12 22:16	EGO	A3
Aroclor-1248	ND		mg/kg	0.21	SW846 8082A	6/5/12	MDO	6/5/12 22:16	EGO	A3
Aroclor-1254	ND		mg/kg	0.21	SW846 8082A	6/5/12	MDO	6/5/12 22:16	EGO	A3
Aroclor-1260	ND		mg/kg	0.21	SW846 8082A	6/5/12	MDO	6/5/12 22:16	EGO	A3
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyl (S)	84.8		%	30-150	SW846 8082A	6/5/12	MDO	6/5/12 22:16	EGO	A3
Tetrachloro-m-xylene (S)	54.6		%	30-150	SW846 8082A	6/5/12	MDO	6/5/12 22:16	EGO	A3
PESTICIDES										
Aldrin	ND		ug/kg	220	SW846 8081B	6/5/12	MDO	6/7/12 11:03	KJH	A2
alpha-BHC	ND		ug/kg	220	SW846 8081B	6/5/12	MDO	6/7/12 11:03	KJH	A2
beta-BHC	ND		ug/kg	220	SW846 8081B	6/5/12	MDO	6/7/12 11:03	KJH	A2
delta-BHC	ND		ug/kg	220	SW846 8081B	6/5/12	MDO	6/7/12 11:03	KJH	A2

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ANALYTICAL RESULTS

Workorder: 9970522 Priority Pollutants

Lab ID: **9970522003** Date Collected: 5/31/2012 06:30 Matrix: Solid

Sample ID: **Centrifuge Cake** Date Received: 6/1/2012 19:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
gamma-BHC	ND		ug/kg	220	SW846 8081B	6/5/12	MDO	6/7/12 11:03	KJH	A2
Chlordane	ND		ug/kg	9050	SW846 8081B	6/5/12	MDO	6/7/12 11:03	KJH	A2
4,4'-DDD	ND		ug/kg	427	SW846 8081B	6/5/12	MDO	6/7/12 11:03	KJH	A2
4,4'-DDE	ND		ug/kg	427	SW846 8081B	6/5/12	MDO	6/7/12 11:03	KJH	A2
4,4'-DDT	ND		ug/kg	427	SW846 8081B	6/5/12	MDO	6/7/12 11:03	KJH	A2
Dieldrin	ND		ug/kg	427	SW846 8081B	6/5/12	MDO	6/7/12 11:03	KJH	A2
Endosulfan I	ND		ug/kg	220	SW846 8081B	6/5/12	MDO	6/7/12 11:03	KJH	A2
Endosulfan II	ND		ug/kg	427	SW846 8081B	6/5/12	MDO	6/7/12 11:03	KJH	A2
Endosulfan Sulfate	ND		ug/kg	427	SW846 8081B	6/5/12	MDO	6/7/12 11:03	KJH	A2
Endrin	ND		ug/kg	427	SW846 8081B	6/5/12	MDO	6/7/12 11:03	KJH	A2
Endrin Aldehyde	ND		ug/kg	427	SW846 8081B	6/5/12	MDO	6/7/12 11:03	KJH	A2
Heptachlor	ND		ug/kg	220	SW846 8081B	6/5/12	MDO	6/7/12 11:03	KJH	A2
Heptachlor Epoxide	ND		ug/kg	220	SW846 8081B	6/5/12	MDO	6/7/12 11:03	KJH	A2
Toxaphene	ND		ug/kg	9050	SW846 8081B	6/5/12	MDO	6/7/12 11:03	KJH	A2
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyl (S)	108		%	30-150	SW846 8081B	6/5/12	MDO	6/7/12 11:03	KJH	A2
Tetrachloro-m-xylene (S)	88.7		%	30-131	SW846 8081B	6/5/12	MDO	6/7/12 11:03	KJH	A2
WET CHEMISTRY										
Cyanide, Total	ND		mg/kg	1.6	SW846 9012B	6/5/12	ARK	6/6/12 09:42	JEP	A4
Moisture	84.5		%	0.1	SM20-2540 G			6/7/12 16:00	KED	A
Phenolics	43.4	2	mg/kg	3.1	SW846 9066	6/12/12	SAM	6/12/12 10:37	SAM	A8
Total Solids	15.5		%	0.1	SM20-2540 G			6/7/12 16:00	KED	A
METALS										
Antimony, Total	ND		mg/kg	11.0	SW846 6010C	6/6/12	KMK	6/7/12 04:56	KMH	A5
Arsenic, Total	ND		mg/kg	11.0	SW846 6010C	6/6/12	KMK	6/7/12 04:56	KMH	A5
Beryllium, Total	ND		mg/kg	5.5	SW846 6010C	6/6/12	KMK	6/7/12 04:56	KMH	A5
Cadmium, Total	ND		mg/kg	2.7	SW846 6010C	6/6/12	KMK	6/7/12 04:56	KMH	A5
Chromium, Total	25.4		mg/kg	5.5	SW846 6010C	6/6/12	KMK	6/8/12 05:56	KMH	A5
Copper, Total	388		mg/kg	11.0	SW846 6010C	6/6/12	KMK	6/7/12 04:56	KMH	A5
Lead, Total	55.2		mg/kg	11.0	SW846 6010C	6/6/12	KMK	6/7/12 04:56	KMH	A5
Mercury, Total	1.1		mg/kg	0.27	SW846 7471B	6/8/12	MNP	6/8/12 12:20	MNP	A6
Nickel, Total	22.2		mg/kg	11.0	SW846 6010C	6/6/12	KMK	6/7/12 04:56	KMH	A5
Selenium, Total	ND		mg/kg	27.4	SW846 6010C	6/6/12	KMK	6/7/12 04:56	KMH	A5
Silver, Total	11.3		mg/kg	2.7	SW846 6010C	6/6/12	KMK	6/7/12 04:56	KMH	A5
Thallium, Total	ND		mg/kg	16.4	SW846 6010C	6/6/12	KMK	6/7/12 04:56	KMH	A5
Zinc, Total	563		mg/kg	11.0	SW846 6010C	6/6/12	KMK	6/7/12 04:56	KMH	A5

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ANALYTICAL RESULTS

Workorder: 9970522 Priority Pollutants

Lab ID:	**9970522003**	Date Collected:	5/31/2012 06:30	Matrix:	Solid
Sample ID:	**Centrifuge Cake**	Date Received:	6/1/2012 19:25		

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr

Sample Comments:

One or more of the GCMS semi-volatile internal standards were recovered at <50%. The sample was reanalyzed with similar results indicating a sample matrix interference.

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly. One or more of the surrogates could not be evaluated as a result of the dilution.

Anna G Milliken
Technical Manager

ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9970522 Priority Pollutants

PARAMETER QUALIFIERS\FLAGS

[1] The QC sample type LCS for method EPA 625 was outside the control limits for the analyte 2-Chloronaphthalene. The % Recovery was reported as 51.4 and the control limits were 60 to 118.

[2] The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits.

[3] The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 162 and the control limits were 38 to 113. This result was reported at a dilution of 1.

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Page 1 of 1
Courier:
Tracking #:

9970522

Co. Name: YORK CITY WWTP
Contact (Report to): JOSEPH CONCINO Phone: 8452794
Address: 1701 BLACK BRIDGE ROAD YORK, PA 17402

Bill to (if different than Report to): PO#: 12-100188

Project Name/#: PRIORITY POLLUTANTS ALS Quote #: 206062

TAT: [X] Normal-Standard TAT is 10 business days. [ ] Rush-Subject to ALS approval and surcharges. Date Required: Approved By:

Email? [X] Y JCONCINO@YORKCITY.ORG
Fax? [ ] Y No.:

	VOC's 624	SVOC's 625	CYANIDE	PHENOLICS	PESTICIDES + PCB's 608	PRIORITY POLLUTANT METALS + As, Hg	BNA's 8270	VOCs 8260
**Container Type	GL	GL	PL	GL	GL	PL	GL	GL
**Container Size	40mL	1L	0.5L	0.5L	1L	0.5L	1L	1L
Preservative	HCl	—	NaOH	H_2SO_4	—	HNO_3	—	—

ANALYSES/METHOD REQUESTED — Enter Number of Containers Per Analysis

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	VOC's 624	SVOC's 625	CYANIDE	PHENOLICS	PESTICIDES + PCB's 608	PRIORITY POLLUTANT METALS + As, Hg	BNA's 8270	VOCs 8260	
1 RAW INFLUENT		5/31/12	0000-2400	C	WW		2	(1)	1	2	1			
2 RAW INFLUENT		5/31/12	0932	G	WW	2							GLASS	1L
3 CENTRIFUGE CAKE		5/31/12	0500-0630	C	SL	X		X	X	X	X	X →	2 BOTTLES TOTAL	
4														
5														
6														
7														
8														

Received by: [signature] Cooler Temp: Therm. ID: [illegible] No. of Coolers: Notes:

Circle appropriate Y or N.

Correct containers?	Y ✓
Correct sample volume?	Y ✓
Correct preservation?	Y ✓
Headspace/Volatiles?	N ✓
Custody seals Present?	N ✓
(if present) Seals intact?	
Received on Ice?	Y ✓
COC/Labels complete/accurate?	Y ✓
Container in good condition?	Y ✓

SAMPLED BY (Please Print):

LOGGED BY (signature): [signature] Date: 6/1/12 Time: 0809
REVIEWED BY (signature): Shannon Butler Date: 6/4/12 Time: 1640

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature] YORK CITY	6/1/12	1048	2 Darlene Joseph/ALS	6/1/12	1048
3			4 [signature]	6-1-12	1100
5 [signature]	6-1-12		6	6/1/12	1925
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] If yes, format type: ___ EDD Required?
SDWA Forms? yes [ ] yes [ ] yes [ ] yes [ ] Other
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]
DOD Criteria Required?

ALS FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

*G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
**Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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September 12, 2012

8/23/12

Mr. Joe Concino
York, City of (WWTP)
1701 Blackridge Road
York, PA 17405

Certificate of Analysis

Project Name:	**PP SCANS AND LOCAL LIMITS -**	Workorder:	**9984517**
Purchase Order:	**12-100191**	Workorder ID:	**Local Limits 08/23/12**

Dear Mr. Concino,

Enclosed are the analytical results for samples received by the laboratory on Thursday, August 23, 2012.

The ALS Environmental laboratory in Middletown, Pennsylvania (formerly Analytical Laboratory Services, Inc.) is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Shannon Butler (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Technical Manager

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SAMPLE SUMMARY

Workorder: 9984517 Local Limits 08/23/12

Discard Date: 09/26/2012

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9984517001	Raw Influent	Waste Water	8/23/12 00:00	8/23/12 10:37	Customer
9984517002	002 Effluent	Waste Water	8/22/12 00:00	8/23/12 10:37	Customer
9984517003	Raw Influent	Waste Water	8/22/12 13:50	8/23/12 10:37	Customer
9984517004	002 Effluent	Waste Water	8/22/12 13:45	8/23/12 10:37	Customer
9984517005	Centrifuge Cake	Solid	8/22/12 07:00	8/23/12 10:37	Customer

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9984517 Local Limits 08/23/12

Lab ID: **9984517001** Date Collected: 8/23/2012 00:00 Matrix: Waste Water

Sample ID: **Raw Influent** Date Received: 8/23/2012 10:37

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Cyanide, Total	ND		mg/L	0.0050	EPA 335.4	8/30/12	JEP	8/30/12 15:46	KLR	A1
METALS										
Arsenic, Total	ND		mg/L	0.0050	EPA 200.7	8/29/12	KMK	8/31/12 08:52	JWK	B1
Cadmium, Total	ND		mg/L	0.0010	EPA 200.7	8/29/12	KMK	8/31/12 08:52	JWK	B1
Chromium, Total	0.0023		mg/L	0.0010	EPA 200.8	8/29/12	KMK	9/4/12 13:59	MWO	B2
Copper, Total	0.050		mg/L	0.0050	EPA 200.7	8/29/12	KMK	8/31/12 08:52	JWK	B1
Lead, Total	0.011		mg/L	0.0030	EPA 200.7	8/29/12	KMK	8/31/12 08:52	JWK	B1
Mercury, Total (Low-level)	0.00023		mg/L	0.00020	EPA 245.1	9/7/12	MNP	9/7/12 10:22	MNP	
Molybdenum, Total	0.032		mg/L	0.010	EPA 200.7	8/29/12	KMK	8/31/12 08:52	JWK	B1
Nickel, Total	0.0036		mg/L	0.0025	EPA 200.8	8/29/12	KMK	9/4/12 13:59	MWO	B2
Selenium, Total	ND		mg/L	0.0020	EPA 200.8	8/29/12	KMK	9/4/12 13:59	MWO	B2
Silver, Total	ND		mg/L	0.0010	EPA 200.8	8/29/12	KMK	9/4/12 13:59	MWO	B2
Zinc, Total	0.11		mg/L	0.010	EPA 200.7	8/29/12	KMK	8/31/12 08:52	JWK	B1

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9984517 Local Limits 08/23/12

Lab ID: **9984517002** Date Collected: 8/22/2012 00:00 Matrix: Waste Water

Sample ID: **002 Effluent** Date Received: 8/23/2012 10:37

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Cyanide, Total	ND		mg/L	0.0050	EPA 335.4	8/30/12	JEP	8/30/12 15:46	KLR	A1
METALS										
Arsenic, Total	ND		mg/L	0.0050	EPA 200.7	8/29/12	KMK	8/31/12 09:00	JWK	B1
Cadmium, Total	ND		mg/L	0.0010	EPA 200.7	8/29/12	KMK	8/31/12 09:00	JWK	B1
Chromium, Total	ND		mg/L	0.0010	EPA 200.8	8/29/12	KMK	9/4/12 14:10	MWO	B2
Copper, Total	ND		mg/L	0.0050	EPA 200.7	8/29/12	KMK	8/31/12 09:00	JWK	B1
Lead, Total	0.0034		mg/L	0.0030	EPA 200.7	8/29/12	KMK	8/31/12 09:00	JWK	B1
Mercury, Total (Low-level)	ND		mg/L	0.00020	EPA 245.1	9/7/12	MNP	9/7/12 10:23	MNP	
Molybdenum, Total	0.022		mg/L	0.010	EPA 200.7	8/29/12	KMK	8/31/12 09:00	JWK	B1
Nickel, Total	ND		mg/L	0.0025	EPA 200.8	8/29/12	KMK	9/4/12 14:10	MWO	B2
Selenium, Total	ND		mg/L	0.0020	EPA 200.8	8/29/12	KMK	9/4/12 14:10	MWO	B2
Silver, Total	ND		mg/L	0.0010	EPA 200.8	8/29/12	KMK	9/4/12 14:10	MWO	B2
Zinc, Total	0.027		mg/L	0.010	EPA 200.7	8/29/12	KMK	8/31/12 09:00	JWK	B1

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9984517 Local Limits 08/23/12

Lab ID: **9984517003** Date Collected: 8/22/2012 13:50 Matrix: Waste Water

Sample ID: **Raw Influent** Date Received: 8/23/2012 10:37

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Oil/Grease Hexane Extractable	20.6		mg/L	2.5	EPA 1664B			9/10/12 00:02	JJS	A

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9984517 Local Limits 08/23/12

Lab ID: **9984517004** Date Collected: 8/22/2012 13:45 Matrix: Waste Water

Sample ID: **002 Effluent** Date Received: 8/23/2012 10:37

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Oil/Grease Hexane Extractable	ND		mg/L	2.1	EPA 1664B			9/6/12 19:16	JSH	A

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9984517 Local Limits 08/23/12

Lab ID: **9984517005** Date Collected: 8/22/2012 07:00 Matrix: Solid

Sample ID: **Centrifuge Cake** Date Received: 8/23/2012 10:37

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Cyanide, Total	ND		mg/kg	1.5	SW846 9012B	8/27/12	JEP	8/27/12 13:27	JEP	A1
Hexane Extractable Material	2090		mg/kg	1230	SW846 9071B			9/5/12 13:00	NJA	A
Moisture	83.7		%	0.1	SM20-2540 G			9/1/12 07:50	NAK	A
Silica Gel Treated HEM	1780		mg/kg	1230	SW846 9071B			9/5/12 13:00	NJA	A
Total Solids	16.3		%	0.1	SM20-2540 G			9/1/12 07:50	NAK	A
METALS										
Arsenic, Total	ND		mg/kg	11.4	SW846 6010C	8/29/12	KMK	8/29/12 12:42	SRT	A3
Cadmium, Total	2.8		mg/kg	2.8	SW846 6010C	8/29/12	KMK	8/29/12 12:42	SRT	A3
Chromium, Total	26.6		mg/kg	5.7	SW846 6010C	8/29/12	KMK	8/29/12 12:42	SRT	A3
Copper, Total	492		mg/kg	11.4	SW846 6010C	8/29/12	KMK	8/29/12 12:42	SRT	A3
Lead, Total	104		mg/kg	11.4	SW846 6010C	8/29/12	KMK	8/29/12 12:42	SRT	A3
Mercury, Total	0.91		mg/kg	0.26	SW846 7471B	9/4/12	MNP	9/4/12 14:10	MNP	A4
Molybdenum, Total	24.0		mg/kg	11.4	SW846 6010C	8/29/12	KMK	8/29/12 12:42	SRT	A3
Nickel, Total	23.5		mg/kg	11.4	SW846 6010C	8/29/12	KMK	8/29/12 12:42	SRT	A3
Selenium, Total	ND		mg/kg	28.4	SW846 6010C	8/29/12	KMK	8/29/12 12:42	SRT	A3
Silver, Total	13.1		mg/kg	2.8	SW846 6010C	8/29/12	KMK	8/29/12 12:42	SRT	A3
Zinc, Total	779		mg/kg	11.4	SW846 6010C	8/29/12	KMK	8/29/12 12:42	SRT	A3

Sample Comments:

Anna G Milliken
Technical Manager

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Page 1 of 1
Courier:
Tracking #:
9984517

Co. Name: YORK CITY WWTP
Contact (Report to): JOSEPH CONCINO Phone: 8452794
Address: 1701 BLACK BRIDGE ROAD
YORK, PA 17402

Bill to (if different than Report to): PO#: 12-100191

Project Name/#: LOCAL LIMITS ALS Quote #: 206062

TAT: [X] Normal-Standard TAT is 10 business days. Date Required:
[ ] Rush-Subject to ALS approval and surcharges. Approved By:

Email? [X] Y JCONCINO@YORKCITY.ORG
Fax? [ ] Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	TOTAL As, Cd, Cr, Hg, Pb, Zn, Ag, Cu, Ni, Se, Hg	CYANIDE	OIL & GREASE 1664	TOTAL SOLIDS	OIL & GREASE 9071B							
***Container Type						PL	PL	GL	GL	GL							
**Container Size						0.5L	0.5L	1L	1L	1L							
** Preservative						HNO3	NaOH	H2SO4	—	—							
1 RAW INFLUENT		8/22/12	0000-2400	C	WW	1	1										
2 002-EFFLUENT		8/22/12	0000-2400	C	WW	1	1										
3 RAW INFLUENT		8/22/12	1350	G	WW			1									
4 002 EFFLUENT		8/22/12	1345	G	WW			1									
5 CENTRIFUGE CAKE		8/22/12	0000-2400	C	SL	X	X		X	X	1 BOTTLE						
6																	
7																	
8																	

Enter Number of Containers Per Analysis

Receipt Information (Initial in Sample Receipt)
Received by: Initials: [illegible]
Cooler Temp: 6°
Therm. ID: 8317
No. of Coolers:
Notes:

Correct containers?	Y	Y	Y	Y
Correct sample volume?	Y	Y	Y	Y
Correct preservation?	Y	Y	Y	Y
Headspace/Volatiles?	N	N	N	N
Circle appropriate Y or N.				
Custody seals Present?	Y	Y	Y	Y
(If present) Seals Intact?	Y	Y	Y	Y
Received on ice?	Y	Y	Y	Y
COC/Labels complete/accurate?	Y	Y	Y	Y
Container in good condition?	Y	Y	Y	Y

SAMPLED BY (Please Print):
LOGGED BY (signature): [signature] DATE: 8/23/12 TIME: 1706
REVIEWED BY (signature): Shannon Dullu DATE: 8/28/12 TIME: 1640

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 YORK CITY	8/23/12	1037	2 Darlene Good ALS	8/23/12	1037
3 Darlene Good ALS	8/23/12		4 Seth A Rourke	8-23-12	1757
5 ALS	8-23-12	1920	6 [signature]	8/23/12	1920
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other
EDDs Required? [ ] If yes, format type:
SDWA Forms? yes yes yes yes
State Samples Collected In? MD NJ NY PA Other
DOD Criteria Required?

ALS FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite **Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY ***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc. Rev 6/2011

ALS Environmental

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October 16, 2012

9/26/2013

Mr. Joe Concino
York, City of (WWTP)
1701 Blackridge Road
York, PA 17405

Certificate of Analysis

Project Name:	**2012-NPDES RENEWAL AND WETT**	Workorder:	**9990565**
Purchase Order:	**12-103737**	Workorder ID:	**NPDES Renewal 09/26/12**

Dear Mr. Concino,

Enclosed are the analytical results for samples received by the laboratory on Thursday, September 27, 2012.

The ALS Environmental laboratory in Middletown, Pennsylvania (formerly Analytical Laboratory Services, Inc.) is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Shannon Butler (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Technical Manager

ALS Environmental

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SAMPLE SUMMARY

Workorder 9990565 NPDES Renewal 09/26/12 Discard Date: 10/30/2012

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9990565001	002 Effluent	Waste Water	9/26/12 00:00	9/27/12 13:15	Customer
9990565002	002 Effluent	Waste Water	9/26/12 08:28	9/27/12 13:15	Customer

Workorder Comments:

This work order was modified to include the full volatile list of compounds on sample #9990565002. SRB 10/16/12.

Notes

- -- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- -- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- -- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- -- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- -- The Chain of Custody document is included as part of this report.
- -- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- -- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.

Standard Acronyms/Flags

J B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder 9990565 NPDES Renewal 09/26/12

Lab ID: **9990565001** Date Collected: 9/26/2012 00:00 Matrix: Waste Water

Sample ID: **002 Effluent** Date Received: 9/27/2012 13:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/L	1.4	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Acenaphthylene	ND		ug/L	1.4	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Anthracene	ND		ug/L	1.4	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Benzidine	ND		ug/L	47.2	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Benzo(a)anthracene	ND		ug/L	1.4	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Benzo(a)pyrene	ND		ug/L	1.4	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Benzo(b)fluoranthene	ND		ug/L	1.4	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Benzo(g,h,i)perylene	ND		ug/L	1.4	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Benzo(k)fluoranthene	ND		ug/L	1.4	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
4-Bromophenyl-phenylether	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Butylbenzylphthalate	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
4-Chloro-3-methylphenol	ND		ug/L	7.5	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
bis(2-Chloroethoxy)methane	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
bis(2-Chloroethyl)ether	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
bis(2-Chloroisopropyl)ether	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
2-Chloronaphthalene	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
2-Chlorophenol	ND		ug/L	7.5	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
4-Chlorophenyl-phenylether	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Chrysene	ND		ug/L	1.4	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Di-n-Butylphthalate	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Di-n-Octylphthalate	ND		ug/L	7.5	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Dibenzo(a,h)anthracene	ND		ug/L	1.4	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
3,3-Dichlorobenzidine	ND		ug/L	15.1	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
2,4-Dichlorophenol	ND		ug/L	7.5	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Diethylphthalate	ND		ug/L	7.5	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
2,4-Dimethylphenol	ND		ug/L	7.5	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Dimethylphthalate	ND		ug/L	7.5	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
2,4-Dinitrophenol	ND		ug/L	15.1	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
2,4-Dinitrotoluene	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
2,6-Dinitrotoluene	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
1,2-Diphenylhydrazine	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
bis(2-Ethylhexyl)phthalate	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Fluoranthene	ND		ug/L	1.4	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Fluorene	ND		ug/L	1.4	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Hexachlorobenzene	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Hexachlorobutadiene	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Hexachlorocyclopentadiene	ND		ug/L	7.5	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Hexachloroethane	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Indeno(1,2,3-cd)pyrene	ND		ug/L	1.4	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Isophorone	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1

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ANALYTICAL RESULTS

Workorder 9990565 NPDES Renewal 09/26/12

Lab ID: **9990565001** Date Collected: 9/26/2012 00:00 Matrix: Waste Water

Sample ID: **002 Effluent** Date Received: 9/27/2012 13:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
2-Methyl-4,6-dinitrophenol	ND		ug/L	7.5	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Naphthalene	ND		ug/L	1.4	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Nitrobenzene	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
2-Nitrophenol	ND		ug/L	7.5	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
4-Nitrophenol	ND		ug/L	7.5	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
N-Nitrosodimethylamine	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
N-Nitroso-di-n-propylamine	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
N-Nitrosodiphenylamine	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Pentachlorophenol	ND		ug/L	15.1	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Phenanthrene	ND		ug/L	1.4	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Phenol	ND		ug/L	7.5	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Pyrene	ND		ug/L	1.4	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
1,2,4-Trichlorobenzene	ND		ug/L	2.8	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
2,4,6-Trichlorophenol	ND		ug/L	7.5	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	75.1		%	38-134	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
2-Fluorobiphenyl (S)	74.2		%	37-113	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
2-Fluorophenol (S)	45.4		%	17-73	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Nitrobenzene-d5 (S)	75.3		%	37-124	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Phenol-d5 (S)	29.3		%	11-53	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
Terphenyl-d14 (S)	92.3		%	33-125	EPA 625	10/3/12	BKS	10/5/12 16:21	DHF	A1
METALS										
Hardness	258		mg/L	0.33	EPA 200.7	10/3/12	KMK	10/5/12 13:46	JWK	
Aluminum, Total	ND		mg/L	0.050	EPA 200.7	10/3/12	KMK	10/5/12 13:46	JWK	C1
Antimony, Total	ND		mg/L	0.010	EPA 200.7	10/3/12	KMK	10/5/12 13:46	JWK	C1
Barium, Total	0.027		mg/L	0.0050	EPA 200.7	10/3/12	KMK	10/5/12 13:46	JWK	C1
Beryllium, Total	ND		mg/L	0.0020	EPA 200.7	10/3/12	KMK	10/5/12 13:46	JWK	C1
Boron, Total	0.16		mg/L	0.050	EPA 200.7	10/3/12	KMK	10/5/12 13:46	JWK	C1
Cobalt, Total	ND		mg/L	0.0025	EPA 200.7	10/3/12	KMK	10/5/12 13:46	JWK	C1
Iron, Total	0.045		mg/L	0.030	EPA 200.7	10/3/12	KMK	10/5/12 13:46	JWK	C1
Iron, Dissolved	ND		mg/L	0.060	EPA 200.7	10/2/12	JWK	10/2/12 17:45	JWK	E1
Manganese, Total	0.0047		mg/L	0.0025	EPA 200.7	10/3/12	KMK	10/5/12 13:46	JWK	C1
Thallium, Total	ND		mg/L	0.010	EPA 200.7	10/3/12	KMK	10/5/12 13:46	JWK	C1
WET CHEMISTRY										
Hexavalent Chromium	ND	1,2	mg/L	0.010	SM21-3500-Cr B			9/28/12 03:15	MSA	D

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ANALYTICAL RESULTS

Workorder 9990565 NPDES Renewal 09/26/12

Lab ID: **9990565001** Date Collected: 9/26/2012 00:00 Matrix: Waste Water

Sample ID: **002 Effluent** Date Received: 9/27/2012 13:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder 9990565 NPDES Renewal 09/26/12

Lab ID: **9990565002** Date Collected: 9/26/2012 08:28 Matrix: Waste Water

Sample ID: **002 Effluent** Date Received: 9/27/2012 13:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acrolein	ND		ug/L	30.0	EPA 624			9/29/12 03:37	TMP	C
Acrylonitrile	ND		ug/L	5.0	EPA 624			9/29/12 03:37	TMP	C
Benzene	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
Bromodichloromethane	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
Bromoform	ND		ug/L	2.0	EPA 624			9/29/12 03:37	TMP	C
Bromomethane	ND		ug/L	2.0	EPA 624			9/29/12 03:37	TMP	C
Carbon Tetrachloride	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
Chlorobenzene	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
Chlorodibromomethane	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
Chloroethane	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
2-Chloroethylvinyl ether	ND		ug/L	2.0	EPA 624			9/29/12 03:37	TMP	C
Chloroform	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
Chloromethane	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
1,2-Dichlorobenzene	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
1,3-Dichlorobenzene	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
1,4-Dichlorobenzene	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
Dichlorodifluoromethane	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
1,1-Dichloroethane	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
1,2-Dichloroethane	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
1,1-Dichloroethene	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
trans-1,2-Dichloroethene	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
1,2-Dichloropropane	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
1,3-Dichloropropene, Total	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
Ethylbenzene	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
Methylene Chloride	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
1,1,2,2-Tetrachloroethane	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
Tetrachloroethene	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
Toluene	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
1,1,1-Trichloroethane	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
1,1,2-Trichloroethane	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
Trichloroethene	ND		ug/L	1.0	EPA 624			9/29/12 03:37	TMP	C
Vinyl Chloride	ND		ug/L	2.0	EPA 624			9/29/12 03:37	TMP	C

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	97.7		%	72-142	EPA 624			9/29/12 03:37	TMP	C
4-Bromofluorobenzene (S)	85.2		%	73-119	EPA 624			9/29/12 03:37	TMP	C
Dibromofluoromethane (S)	93.2		%	74-132	EPA 624			9/29/12 03:37	TMP	C
Toluene-d8 (S)	104		%	75-133	EPA 624			9/29/12 03:37	TMP	C

WET CHEMISTRY

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ANALYTICAL RESULTS

Workorder 9990565 NPDES Renewal 09/26/12

Lab ID: **9990565002** Date Collected: 9/26/2012 08:28 Matrix: Waste Water

Sample ID: **C02 Effluent** Date Received: 9/27/2012 13:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Cyanide Weak/Dissociable(Free)	ND		mg/L	0.0050	SM20-4500CNI	10/2/12	SYB	10/3/12 14.25	JEP	A1
Phenolics	ND		mg/L	0.005	EPA 420 4	10/10/12	KLR	10/10/12 13:07	KLR	B

Sample Comments:

Anna G Milliken
Technical Manager

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder 9990565 NPDES Renewal 09/26/12

PARAMETER QUALIFIERS\FLAGS

[1] The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits.

[2] Analyte was analyzed past the 24 hour holding time.

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/ SAMPLER INSTRUCTIONS ON THE BACK

Page 1 of 1

Courier:

Tracking #:

9990565

Co. Name: YORK CITY WWTP

Contact (Report to): JOSEPH CONCINO Phone: 845-2794

Address: 1701 BLACK BRIDGE ROAD
YORK, PA 17402

Bill to (if different than Report to):

PO#: 12-103737

Project Name/#: NPDES RENEWAL ALS Quote #: 325505

TAT: [X] Normal-Standard TAT is 10 business days. Date Required:
[ ] Rush-Subject to ALS approval and surcharges. Approved By:

Email? [X] -Y JCONCINO@YORKCITY.ORG
Fax? [ ] -Y No.

	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	EPA 625	PHENOLICS	624 VOLATILES	DISSOLVED FE (FILTERED)	HARDNESS + TOTAL METALS	HEXAVALENT CHROMIUM	CYANIDE FREE + TOTAL			
							Enter Number of Containers Per Analysis									
***Container Type							GL	GL	GL	PL	PL	PL	PL			
***Container Size							1L	0.5L	40mL	200mL	0.5L	0.5L	0.5L			
***Preservative							—	H_2SO_4	HCl	—	HNO_3	—	NaOH			
1	002 EFFLUENT		9/26/12	0000-2400	C	WW	2			1	1	1	1			
2	002 EFFLUENT		9/26/12	0828	G	WW		1	2				1			
3																
4																
5																
6																
7																
8																

Performed by: FINAL USE: DG

Cooler Temp: 6°

Therm. ID: 8717

No. of Coolers:

Notes:

	1	2	3	4	5
Correct containers?	N	N	N	N	N
Correct sample volume?	Y	Y	Y	Y	Y
Correct preservation?	N	N	Y	N	N
Headspace/Volatiles?	Y	Y	Y	Y	Y
Circle appropriate Y or N.					
Custody seals Present?	N	Y	Y	Y	Y
(If present) Seals intact?	Y	Y	Y	Y	Y
Received on ice?	Y	Y	Y	Y	Y
COC/Labels complete/accurate?	Y	Y	Y	Y	Y
Container in good condition?	Y	Y	Y	Y	Y

SAMPLED BY (Please Print):

LOGGED BY (signature): Shannon Buffington Date 9/27/12 Time 2225

REVIEWED BY (signature): Shannon Buffington Date 10/4/12 Time 1658

	Relinquished By / Company Name	Date	Time		Received By / Company Name	Date	Time
1	Sarah J. Lenoche	9/27/12	0853	2	Keller ALS	9/27/12	0853
3	Keller	9/27/12	0917	4	Pauline Joseph	9/27/12	0917
5	Pauline Joseph ALS	9/27/12	1232	6	ALS	9/27/12	1232
7	ALS	9/27/12	1315	8	ALS	9/27/12	1315
9				10			

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other: [ ] EDDs (Required?) [ ] if yes, format type:

SDWA Forms? yes yes yes yes

State Sampler Collected In? NC NJ NY PA Other

DOD Criteria Required?

ALS FIELD SERVICES: [X] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite **Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO_3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

Rev 6/2011

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December 27, 2012

11/13/12

Mr. Joe Concino
York, City of (WWTP)
1701 Blackridge Road
York, PA 17405

Certificate of Analysis

Project Name:	**2012-NPDES RENEWAL AND WETT**	Workorder:	**9997924**
Purchase Order:		Workorder ID:	**NPDES Renewal 11/13/12** A

Dear Mr. Concino,

Enclosed are the analytical results for samples received by the laboratory on Tuesday, November 13, 2012.

The ALS Environmental laboratory in Middletown, Pennsylvania (formerly Analytical Laboratory Services, Inc.) is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Shannon Butler (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Technical Manager

ALS Environmental

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SAMPLE SUMMARY

Workorder: 9997924 NPDES Renewal 11/13/12 Discard Date: 01/10/2013

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9997924001	002 Effluent Composite	Waste Water	11/12/12 00:00	11/13/12 09:22	Customer
9997924002	002 Effluent Grab	Waste Water	11/12/12 09:30	11/13/12 09:22	Customer

Workorder Comments:

This work order was modified to include additional volatile compounds. SRB 12/17/12.

This work order was modified to include additional semi-volatile compounds. SRB 12/20/12.

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9997924 NPDES Renewal 11/13/12

Lab ID: **9997924001** Date Collected: 11/12/2012 00:00 Matrix: Waste Water

Sample ID: **002 Effluent Composite** Date Received: 11/13/2012 09:22

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/L	1.4	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Acenaphthylene	ND		ug/L	1.4	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Anthracene	ND		ug/L	1.4	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Benzidine	ND		ug/L	46.9	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Benzo(a)anthracene	ND		ug/L	1.4	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Benzo(a)pyrene	ND		ug/L	1.4	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Benzo(b)fluoranthene	ND		ug/L	1.4	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Benzo(g,h,i)perylene	ND		ug/L	1.4	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Benzo(k)fluoranthene	ND		ug/L	1.4	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
4-Bromophenyl-phenylether	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Butylbenzylphthalate	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
4-Chloro-3-methylphenol	ND		ug/L	7.5	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
bis(2-Chloroethoxy)methane	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
bis(2-Chloroethyl)ether	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
bis(2-Chloroisopropyl)ether	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
2-Chloronaphthalene	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
2-Chlorophenol	ND		ug/L	7.5	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
4-Chlorophenyl-phenylether	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Chrysene	ND		ug/L	1.4	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Di-n-Butylphthalate	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Di-n-Octylphthalate	ND		ug/L	7.5	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Dibenzo(a,h)anthracene	ND		ug/L	1.4	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
3,3-Dichlorobenzidine	ND		ug/L	15.0	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
2,4-Dichlorophenol	ND		ug/L	7.5	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Diethylphthalate	ND		ug/L	7.5	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
2,4-Dimethylphenol	ND		ug/L	7.5	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
2,4-Dinitrophenol	ND		ug/L	15.0	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
2,4-Dinitrotoluene	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
2,6-Dinitrotoluene	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
1,2-Diphenylhydrazine	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
bis(2-Ethylhexyl)phthalate	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Fluoranthene	ND		ug/L	1.4	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Fluorene	ND		ug/L	1.4	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Hexachlorobenzene	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Hexachlorobutadiene	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Hexachlorocyclopentadiene	ND		ug/L	7.5	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Hexachloroethane	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Indeno(1,2,3-cd)pyrene	ND		ug/L	1.4	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Isophorone	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
2-Methyl-4,6-dinitrophenol	ND		ug/L	7.5	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D

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ANALYTICAL RESULTS

Workorder: 9997924 NPDES Renewal 11/13/12

Lab ID: **9997924001** Date Collected: 11/12/2012 00:00 Matrix: Waste Water

Sample ID: **002 Effluent Composite** Date Received: 11/13/2012 09:22

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Naphthalene	ND		ug/L	1.4	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Nitrobenzene	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
2-Nitrophenol	ND		ug/L	7.5	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
4-Nitrophenol	ND		ug/L	7.5	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
N-Nitrosodimethylamine	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
N-Nitroso-di-n-propylamine	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
N-Nitrosodiphenylamine	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Pentachlorophenol	ND		ug/L	15.0	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Phenanthrene	ND		ug/L	1.4	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Phenol	ND		ug/L	7.5	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Pyrene	ND		ug/L	1.4	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
1,2,4-Trichlorobenzene	ND		ug/L	2.8	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
2,4,6-Trichlorophenol	ND		ug/L	7.5	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	64.3		%	38-134	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
2-Fluorobiphenyl (S)	75.8		%	37-113	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
2-Fluorophenol (S)	45.2		%	17-73	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Nitrobenzene-d5 (S)	69.7		%	37-124	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Phenol-d5 (S)	31		%	11-53	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
Terphenyl-d14 (S)	96.1		%	33-125	EPA 625	11/14/12	GEC	11/16/12 12:04	DHF	D
METALS										
Aluminum, Total	ND		mg/L	0.050	EPA 200.7	11/15/12	KMK	11/20/12 06:14	JWK	A1
Antimony, Total	ND		mg/L	0.010	EPA 200.7	11/15/12	KMK	11/20/12 06:14	JWK	A1
Barium, Total	0.023		mg/L	0.0050	EPA 200.7	11/15/12	KMK	11/20/12 06:14	JWK	A1
Beryllium, Total	ND		mg/L	0.0020	EPA 200.7	11/15/12	KMK	11/20/12 06:14	JWK	A1
Boron, Total	0.14		mg/L	0.050	EPA 200.7	11/15/12	KMK	11/20/12 06:14	JWK	A1
Cobalt, Total	ND		mg/L	0.0025	EPA 200.7	11/15/12	KMK	11/20/12 06:14	JWK	A1
Iron, Total	0.033		mg/L	0.030	EPA 200.7	11/15/12	KMK	11/20/12 06:14	JWK	A1
Iron, Dissolved	ND		mg/L	0.060	EPA 200.7	11/15/12	JWK	11/15/12 08:57	JWK	C1
Manganese, Total	0.0026		mg/L	0.0025	EPA 200.7	11/15/12	KMK	11/20/12 06:14	JWK	A1
Thallium, Total	ND		mg/L	0.010	EPA 200.7	11/15/12	KMK	11/20/12 06:14	JWK	A1
WET CHEMISTRY										
Hardness	213		mg/L	5	SM20-2340 C			11/15/12 10:00	NJA	A
Hexavalent Chromium	ND	1	mg/L	0.010	SM21-3500-Cr B			11/14/12 04:00	MSA	B

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9997924 NPDES Renewal 11/13/12

Lab ID: **9997924001** Date Collected: 11/12/2012 00:00 Matrix: Waste Water

Sample ID: **002 Effluent Composite** Date Received: 11/13/2012 09:22

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9997924 NPDES Renewal 11/13/12

Lab ID: **9997924002** Date Collected: 11/12/2012 09:30 Matrix: Waste Water

Sample ID: **002 Effluent Grab** Date Received: 11/13/2012 09:22

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acrolein	ND		ug/L	30.0	EPA 624			11/16/12 04:00	DRS	C
Acrylonitrile	ND		ug/L	5.0	EPA 624			11/16/12 04:00	DRS	C
Benzene	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
Bromodichloromethane	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
Bromoform	ND		ug/L	2.0	EPA 624			11/16/12 04:00	DRS	C
Bromomethane	ND		ug/L	2.0	EPA 624			11/16/12 04:00	DRS	C
Carbon Tetrachloride	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
Chlorobenzene	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
Chlorodibromomethane	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
Chloroethane	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
2-Chloroethylvinyl ether	ND		ug/L	2.0	EPA 624			11/16/12 04:00	DRS	C
Chloroform	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
Chloromethane	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
1,2-Dichlorobenzene	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
1,3-Dichlorobenzene	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
1,4-Dichlorobenzene	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
Dichlorodifluoromethane	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
1,1-Dichloroethane	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
1,2-Dichloroethane	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
1,1-Dichloroethene	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
trans-1,2-Dichloroethene	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
1,2-Dichloropropane	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
1,3-Dichloropropene, Total	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
Ethylbenzene	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
Methylene Chloride	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
1,1,2,2-Tetrachloroethane	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
Tetrachloroethene	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
Toluene	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
1,1,1-Trichloroethane	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
1,1,2-Trichloroethane	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
Trichloroethene	ND		ug/L	1.0	EPA 624			11/16/12 04:00	DRS	C
Vinyl Chloride	ND		ug/L	2.0	EPA 624			11/16/12 04:00	DRS	C
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	77.9		%	72-142	EPA 624			11/16/12 04:00	DRS	C
4-Bromofluorobenzene (S)	80.8		%	73-119	EPA 624			11/16/12 04:00	DRS	C
Dibromofluoromethane (S)	84.9		%	74-132	EPA 624			11/16/12 04:00	DRS	C
Toluene-d8 (S)	101		%	75-133	EPA 624			11/16/12 04:00	DRS	C

WET CHEMISTRY

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9997924 NPDES Renewal 11/13/12

Lab ID: **9997924002** Date Collected: 11/12/2012 09:30 Matrix: Waste Water

Sample ID: **002 Effluent Grab** Date Received: 11/13/2012 09:22

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Cyanide, Total	ND		mg/L	0.0050	EPA 335.4	11/25/12	SYB	11/26/12 10:38	JEP	A1
Phenolics	ND		mg/L	0.005	EPA 420.4	11/28/12	SYB	11/29/12 10:47	JPA	B
SUBCONTRACTED ANALYSIS										
Subcontracted Analysis	See Attached				Subcontract			12/14/12 12:59	CLT	

Sample Comments:

See attached subcontracted results from Hampton Clarke - Veritech for free cyanide results. SRB 12/14/12.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9997924 NPDES Renewal 11/13/12

PARAMETER QUALIFIERS\FLAGS

[1] Analyte was analyzed past the 24 hour holding time.

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

Page 1 of 1

Ship to: 34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

Co. Name: YORK CITY WWTP
Contact (Report to): JOSEPH CONCINO Phone: 845-2794
Address: 1701 BLACK BRIDGE ROAD YORK, PA 17402

Bill to (if different than Report to):
PO#: 12-103737

Project Name/#: NPDES RENEWAL ALS Quote #: 325505

TAT: Normal-Standard TAT is 10 business days. Rush-Subject to ALS approval and surcharges. Date Required: Approved By:

Email? JCONCINO@YORKCITY.ORG
Fax? Inc.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	G or C	Matrix	Container Type	Container Size	Preservative	EPA 625	PHENOLICS	GR UNIONIZED	DISSOLVED FE (FILTERED)	HARDNESS + TOTAL METALS	HEXAVALENT CHROMIUM CYANIDE FREE + TOTAL
1 DOX EFFLUENT		11/13/12	0830	C	WW	GL	1L	—	1	1	1	1	1	1
2 DOX EFFLUENT		11/13/12	0830	G	WW	GL	0.5L	HCl	2					
3														
4														
5														
6														
7														
8														

Enter Number of Containers Per Analysis

SAMPLED BY (Please Print): J. O'Neill
LOGGED BY (signature): 11/13/12 @ 1756
REVIEWED BY (signature): Shannon Duffy 11/13/12 @ 1655

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Joseph Concino	11/13/12	0845	2 [illegible]		
3 [illegible]	11/13	0922	4 [illegible] ALS	11/13/12	0922
5 [illegible] / ALS	11/13	1432	6 [illegible]	11/13/12	1400
7 [illegible] / ALS	11-13-12	1730	8 [illegible]	11/13	1730
9			10		

Receipt Information (condition/temp/seals/labels): Received by: Initial ICS: Cooler Temp: 6° Therm. ID: 58717
No. of Coolers: Notes:

Custody seals Present? Y
(If present) Seals intact? Y
Received on ice? Y
COC/Labels complete/accurate? Y
Cooler in good condition? Y
Correct containers? Y
Correct sample volume? Y
Correct preservation? Y
Headspace/Volatiles? N
Circle appropriate Y or N.

Data Deliverables: Standard, CLP-like, NJ-Reduced, NJ-Full, Other
State Sample Delisted in? MD, NJ, NY, PA
EDD* Format/Type:
DOD Criteria Required?

ALS FIELD SERVICES: Pickup, Labor, Composite Sampling, Rental Equipment, Other:

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

*G=Grab; C=Composite. **Matrix: Air-Air; DW=Drinking Water; GW=Groundwater; OH=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
**Container Type: AG-Amber Glass; CG-Clear Glass; PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 8/2011

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CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ALS Environmental
34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

Generated by ALSI

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #:

ALSI Quote #:

1 of 1

Client Name: ALS Environmental
Address: 34 Dogwood Lane
Middletown PA 17057
Contact: Shannon Butler
Phone#: 717-702-2242
Project Name/#: York City WWTP
Bill To: Same
TAT: [x] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved By:
Email? [x] Y. shannon.butler@alsglobal.com
Fax? [ ] Y. No.:

Container Type	Plastic	Plastic
Container Size	250 mL	250 mL
Preservative	none	NaOH

ANALYSES/METHOD REQUESTED

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Free CN (Method 01A-1677)	Free CN (Method 01A-1677)
9997924 002	11/12/12	09:30	G	WW	1	1

Enter Number of Containers Per Sample or Field Results Below

Receipt Information (completed by Receiving Lab)

Cooler Temp: ____ Therm ID: ____
No. of Coolers: ____

	Y	N	Initial
Custody Seals Present?			
(if present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. in Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #:

Sample/COC Comments

Sub to: Hampton Clark Veritech

ALSI Field Services: oPickup oLabor oComposite Sampling oRental Equipment oOther:

Project Comments:

LOGGED BY(signature): DATE: TIME:
REVIEWED BY(signature): DATE: TIME:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	11/27/12	1550	2		
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [x] Standard [ ] CLP-like [ ] USACE [ ]

Special Processing: USACE [ ] Navy [ ]

State Sample Collected In: [ ] NY [ ] NJ [x] PA [ ] NC

Reportable to PADEP? Yes [ ]
PWSID #:

Sample Disposal: Lab [ ] Special [ ]

EDDS: Format Type:

*G=Grab; C=Composite **Matrix - Air=Air, DW=Drinking Water, GW=Groundwater, OI=Oil, OL=Other Liquid, SL=Sludge, SO=Soil, WP=Wipe, WW=Wastewater

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FedEx

Shipment Receipt

Address Information

Ship to:	**Ship from:**
Hampton - Clarke	Steve Smith
Hampton - Clarke	
175 US HIGHWAY 46 STE D	34 DOGWOOD LANE
FAIRFIELD, NJ	MIDDLETOWN, PA
070042327	17057
US	US
8004269992	7179445541

Shipment Information:
Tracking no.: 794160774035
Ship date: 11/27/2012
Estimated shipping charges: 14.82

Package Information
Service type: Priority Overnight
Package type: Your Packaging
Number of packages: 1
Total weight: 7 LBS
Declared Value: 0.00 USD
Special Services:
Pickup/Drop-off: Drop off package at FedEx location

Billing Information:
Bill transportation to: MyAccount-686
Your reference:
P.O. no.:
Invoice no.:
Department no.:

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HC-V
HamptonClarke-Veritech

175 ROUTE 46 WEST, UNIT D · FAIRFIELD, NJ 07004
2 MADISON ROAD, FAIRFIELD, NJ 07004
800-426-9992 · 973-244-9770
FAX: 973-244-9767

WWW.HCVLAB.COM

Project: York City WWTP

Client PO: Not Available

Report To: Analytical Laboratory Services Inc.
34 Dogwood Lane
Middletown, PA 17057

Attn: Shannon Butler

Received Date: 11/28/2012

Report Date:

Deliverables: NJDEP-R

Lab ID: AC69443

Lab Project No: 2112801

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Veritech to all parties shall not exceed Veritech's total fee for analytical services rendered.

Robin Cousineau - Quality Assurance Director OR Stanley Gilewicz - Laboratory Director

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

ALS Environmental
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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

NJ	(07071 and 07069)	NY	(ELAP11408 and 11939)
PA	(68-00463 and 68-04409)	KY	(90124)
WV	(353)	MA	(NJ386)
CT	(PH-0671)	USACE	

Report Of Analysis
veritech laboratories

To: Analytical Laboratory Services Inc.
34 Dogwood Lane
Middletown PA 17057

Attention: Shannon Butler
Project: York City WWTP

Date Submitted: 11/28/2012
Date Reported: 12/14/2012

Lab#: AC69443-001 SampleID: 9997924 002

TestGroup	Analyte	DF	Units	MDL/PQL/RL	Result
AC69443-001 9997924 002 Date Collected 11/12/2012					
Cyanide (Available) OIA-1677					
	Cyanide	1	mg/L	0.0050	ND

RL = Reporting Limit ND = Not Detected

RL Definitions:
SW846 Inorganics reported to PQL
SW846 Organics reported to PQL
Clean Water Act Organics reported to PQL
Clean Water Act Inorganics reported to PQL
CLP Organics reported to CRQL
CLP Inorganics reported to CRQL

This report is a true report of results obtained from our tests of this material. In lieu of a formal contract document, the total aggregate liability of Veritech to all parties shall not exceed Veritech's total fee for analytical services rendered.

Robin Cousineau - Quality Assurance Director Or Stanley Gilewicz - Laboratory Director

ND = Not Detected

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Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK

COC #: 1 of 1
ALS Quote #:

Client Name: ALS Environmental
Address: 34 Dogwood Lane, Middletown PA 17057
Contact: Shannon Butler
Phone#: 717-702-2242
Project Name/#: York City WWTP
Bill To: Same
TAT: [x] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved By:
Email? [x] Y shannon.butler@alsglobal.com
Fax? [ ] Y No

Receipt Information (completed by Receiving Lab)
Cooler Temp: 2.4 Therm ID:
No. of Coolers:
Y N Initial
Custody Seals Present?
(If present) Seals Intact?
Received on Ice?
COC Labels Complete/Accurate?
Cont. in Good Cond.?
Correct Containers?
Correct Sample Volumes?
Correct Preservation?
Headspace/Volatiles?
Courier/Tracking #:

ANALYSES/METHOD REQUESTED

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	G or C	Matrix**	Container Type	Container Size	Preservative	Plastic	Plastic	Free CN (Method 01A-1677)	Free CN (Method 01A-1677)	Sample/COC Comments
8997924-002	11/12/12	09:30	G	WW			none	250 mL	250 mL	1	1	A2694 43-001

Enter Number of Containers Per Sample or Field Results Below.

Project Comments: Sub to: Hampton Clark Veritech

ALS Field Services: oPickup oLabor oComposite Sampling oRental Equipment oOther

Data Deliverables: [x] Standard [ ] CLP-like [ ] USACE

Special Processing: [ ] USACE

State Samples Collected in: [ ] NY [ ] Navy [ ] NJ [x] PA [ ] NC [ ] Special

Reportable to PADEP? [ ] Yes

Sample Disposal: [x] Lab

PWSID #:

EDDS: Formal Type:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	11/27/12	1550	2		
3			4		
5			6		
7			8		
9			10		

LOGGED BY (signature):
REVIEWED BY (signature):

*G=Grab; C=Composite **Matrix - Air=Air, DW=Drinking Water, GW=Groundwater, OF=Oil, OL=Other Liquid, SL=Sludge, SO=Soil, WP=Wipe, WW=Wastewater

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December 28, 2012

12/11-12/12

Mr. Joe Concino
York, City of (WWTP)
1701 Blackridge Road
York, PA 17405

Certificate of Analysis

Project Name:	**PP SCANS AND LOCAL LIMITS -**	Workorder:	**1003182**
Purchase Order:		Workorder ID:	**WW Local Limits 12/12/12**

Dear Mr. Concino,

Enclosed are the analytical results for samples received by the laboratory on Thursday, December 13, 2012.

The ALS Environmental laboratory in Middletown, Pennsylvania (formerly Analytical Laboratory Services, Inc.) is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Shannon Butler (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Technical Manager

ALS Environmental

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SAMPLE SUMMARY

Workorder: 1003182 WW Local Limits 12/12/12 Discard Date: 01/11/2013

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
1003182001	Raw Influent	Waste Water	12/12/12 00:00	12/13/12 09:39	Customer
1003182002	002 Effluent	Waste Water	12/12/12 00:00	12/13/12 09:39	Customer
1003182003	Raw Influent	Waste Water	12/12/12 13:52	12/13/12 09:39	Customer
1003182004	002 Effluent	Waste Water	12/12/12 13:20	12/13/12 09:39	Customer
1003182005	Centrifuge Cake	Solid	12/11/12 15:30	12/13/12 09:39	Customer

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 1003182 WW Local Limits 12/12/12

Lab ID: **1003182001** Date Collected: 12/12/2012 00:00 Matrix: Waste Water

Sample ID: **Raw Influent** Date Received: 12/13/2012 09:39

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Cyanide, Total	ND		mg/L	0.0050	EPA 335.4	12/20/12	SYB	12/21/12 10:38	KLR	A
METALS										
Arsenic, Total	ND		mg/L	0.0050	EPA 200.7	12/18/12	KMK	12/26/12 09:48	JWK	B1
Cadmium, Total	ND		mg/L	0.0010	EPA 200.7	12/18/12	KMK	12/26/12 09:48	JWK	B1
Chromium, Total	0.0039		mg/L	0.0010	EPA 200.8	12/18/12	KMK	12/20/12 23:03	MWO	B2
Copper, Total	0.051		mg/L	0.0050	EPA 200.7	12/18/12	KMK	12/26/12 09:48	JWK	B1
Lead, Total	0.0083		mg/L	0.0030	EPA 200.7	12/18/12	KMK	12/26/12 09:48	JWK	B1
Mercury, Total (Low-level)	0.00021		mg/L	0.00020	EPA 245.1	12/20/12	MNP	12/20/12 07:46	MNP	B3
Molybdenum, Total	0.033		mg/L	0.010	EPA 200.7	12/18/12	KMK	12/26/12 09:48	JWK	B1
Nickel, Total	0.0067		mg/L	0.0025	EPA 200.8	12/18/12	KMK	12/20/12 23:03	MWO	B2
Selenium, Total	0.0022		mg/L	0.0020	EPA 200.8	12/18/12	KMK	12/20/12 23:03	MWO	B2
Silver, Total	ND		mg/L	0.0010	EPA 200.8	12/18/12	KMK	12/20/12 23:03	MWO	B2
Zinc, Total	0.13		mg/L	0.010	EPA 200.7	12/18/12	KMK	12/26/12 09:48	JWK	B1

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental
34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 1003182 WW Local Limits 12/12/12

Lab ID: **1003182002** Date Collected: 12/12/2012 00:00 Matrix: Waste Water

Sample ID: **002 Effluent** Date Received: 12/13/2012 09:39

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Cyanide, Total	ND		mg/L	0.0050	EPA 335.4	12/20/12	SYB	12/21/12 10:38	KLR	A
METALS										
Arsenic, Total	ND		mg/L	0.0050	EPA 200.7	12/18/12	KMK	12/26/12 09:52	JWK	B1
Cadmium, Total	ND		mg/L	0.0010	EPA 200.7	12/18/12	KMK	12/26/12 09:52	JWK	B1
Chromium, Total	0.0016		mg/L	0.0010	EPA 200.8	12/18/12	KMK	12/20/12 23:07	MWO	B2
Copper, Total	ND		mg/L	0.0050	EPA 200.7	12/18/12	KMK	12/26/12 09:52	JWK	B1
Lead, Total	0.0051		mg/L	0.0030	EPA 200.7	12/18/12	KMK	12/26/12 09:52	JWK	B1
Mercury, Total (Low-level)	ND		mg/L	0.00020	EPA 245.1	12/20/12	MNP	12/20/12 07:49	MNP	B3
Molybdenum, Total	0.081		mg/L	0.010	EPA 200.7	12/18/12	KMK	12/26/12 09:52	JWK	B1
Nickel, Total	0.0059		mg/L	0.0025	EPA 200.8	12/18/12	KMK	12/20/12 23:07	MWO	B2
Selenium, Total	ND		mg/L	0.0020	EPA 200.8	12/18/12	KMK	12/20/12 23:07	MWO	B2
Silver, Total	ND		mg/L	0.0010	EPA 200.8	12/18/12	KMK	12/20/12 23:07	MWO	B2
Zinc, Total	0.048		mg/L	0.010	EPA 200.7	12/18/12	KMK	12/26/12 09:52	JWK	B1

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental
34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 1003182 WW Local Limits 12/12/12

Lab ID: **1003182003** Date Collected: 12/12/2012 13:52 Matrix: Waste Water

Sample ID: **Raw Influent** Date Received: 12/13/2012 09:39

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Oil/Grease Hexane Extractable	127		mg/L	2.3	EPA 1664B			12/27/12 01:09	JJS	A

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 1003182 WW Local Limits 12/12/12

Lab ID: **1003182004** Date Collected: 12/12/2012 13:20 Matrix: Waste Water

Sample ID: **002 Effluent** Date Received: 12/13/2012 09:39

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Oil/Grease Hexane Extractable	ND		mg/L	2.3	EPA 1664B			12/27/12 01:09	JJS	A

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 1003182 WW Local Limits 12/12/12

Lab ID: **1003182005** Date Collected: 12/11/2012 15:30 Matrix: Solid

Sample ID: **Centrifuge Cake** Date Received: 12/13/2012 09:39

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	2990	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Acenaphthylene	ND		ug/kg	2990	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Anthracene	ND		ug/kg	2990	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Benzidine	ND		ug/kg	32300	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Benzo(a)anthracene	ND		ug/kg	2990	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Benzo(a)pyrene	ND		ug/kg	2990	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Benzo(b)fluoranthene	ND		ug/kg	2990	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Benzo(g,h,i)perylene	ND		ug/kg	2990	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Benzo(k)fluoranthene	ND		ug/kg	2990	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
4-Bromophenyl-phenylether	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Butylbenzylphthalate	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
4-Chloro-3-methylphenol	ND		ug/kg	16100	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
bis(2-Chloroethoxy)methane	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
bis(2-Chloroethyl)ether	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
bis(2-Chloroisopropyl)ether	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
2-Chloronaphthalene	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
2-Chlorophenol	ND		ug/kg	16100	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
4-Chlorophenyl-phenylether	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Chrysene	ND		ug/kg	2990	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Di-n-Butylphthalate	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Di-n-Octylphthalate	ND		ug/kg	16100	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Dibenzo(a,h)anthracene	ND		ug/kg	2990	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
1,2-Dichlorobenzene	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
1,3-Dichlorobenzene	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
1,4-Dichlorobenzene	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
3,3-Dichlorobenzidine	ND		ug/kg	8970	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
2,4-Dichlorophenol	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Diethylphthalate	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
2,4-Dimethylphenol	ND		ug/kg	16100	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Dimethylphthalate	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
2,4-Dinitrophenol	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
2,4-Dinitrotoluene	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
2,6-Dinitrotoluene	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
1,2-Diphenylhydrazine	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
bis(2-Ethylhexyl)phthalate	15300		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Fluoranthene	ND		ug/kg	2990	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Fluorene	ND		ug/kg	2990	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Hexachlorobenzene	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Hexachlorobutadiene	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Hexachlorocyclopentadiene	ND		ug/kg	16100	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 1003182 WW Local Limits 12/12/12

Lab ID: **1003182005** Date Collected: 12/11/2012 15:30 Matrix: Solid

Sample ID: **Centrifuge Cake** Date Received: 12/13/2012 09:39

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachloroethane	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Indeno(1,2,3-cd)pyrene	ND		ug/kg	2990	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Isophorone	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
2-Methyl-4,6-dinitrophenol	ND		ug/kg	16100	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Naphthalene	ND		ug/kg	2990	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Nitrobenzene	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
2-Nitrophenol	ND		ug/kg	16100	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
4-Nitrophenol	ND		ug/kg	16100	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
N-Nitrosodimethylamine	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
N-Nitroso-di-n-propylamine	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
N-Nitrosodiphenylamine	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Pentachlorophenol	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Phenanthrene	ND		ug/kg	2990	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Phenol	ND		ug/kg	16100	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Pyrene	ND		ug/kg	2990	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
1,2,4-Trichlorobenzene	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
2,4,6-Trichlorophenol	ND		ug/kg	5980	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	87.3		%	37-123	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
2-Fluorobiphenyl (S)	87.9		%	45-105	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
2-Fluorophenol (S)	77.6		%	35-104	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Nitrobenzene-d5 (S)	72.7		%	41-110	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Phenol-d5 (S)	82.6		%	40-100	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
Terphenyl-d14 (S)	90.4		%	38-113	SW846 8270D	12/13/12	RMP	12/18/12 18:40	AJL	B
WET CHEMISTRY										
Cyanide, Total	ND		mg/kg	1.5	SW846 9012B	12/18/12	SYB	12/18/12 17:10	KLR	A1
Hexane Extractable Material	37800		mg/kg	1210	SW846 9071B			12/21/12 20:20	KJD	A
Moisture	83.4		%	0.1	SM20-2540 G			12/14/12 17:00	CF	A
Silica Gel Treated HEM	7190		mg/kg	1210	SW846 9071B			12/21/12 20:20	KJD	A
Total Solids	16.6		%	0.1	SM20-2540 G			12/14/12 17:00	CF	A
METALS										
Arsenic, Total	ND		mg/kg	11.6	SW846 6010C	12/17/12	KMK	12/17/12 10:46	JWK	B1
Cadmium, Total	ND		mg/kg	2.9	SW846 6010C	12/17/12	KMK	12/17/12 10:46	JWK	B1
Chromium, Total	25.4		mg/kg	5.8	SW846 6010C	12/17/12	KMK	12/17/12 10:46	JWK	B1
Copper, Total	443		mg/kg	11.6	SW846 6010C	12/17/12	KMK	12/17/12 10:46	JWK	B1
Lead, Total	75.2		mg/kg	11.6	SW846 6010C	12/17/12	KMK	12/17/12 10:46	JWK	B1
Mercury, Total	2.3		mg/kg	0.29	SW846 7471B	12/20/12	MNP	12/20/12 13:47	MNP	A2
Molybdenum, Total	20.2		mg/kg	11.6	SW846 6010C	12/17/12	KMK	12/17/12 10:46	JWK	B1

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 1003182 WW Local Limits 12/12/12

Lab ID: **1003182005** Date Collected: 12/11/2012 15:30 Matrix: Solid

Sample ID: **Centrifuge Cake** Date Received: 12/13/2012 09:39

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Nickel, Total	25.8		mg/kg	11.6	SW846 6010C	12/17/12	KMK	12/17/12 10:46	JWK	B1
Selenium, Total	ND		mg/kg	29.0	SW846 6010C	12/17/12	KMK	12/17/12 10:46	JWK	B1
Silver, Total	9.3		mg/kg	2.9	SW846 6010C	12/17/12	KMK	12/17/12 10:46	JWK	B1
Zinc, Total	675		mg/kg	11.6	SW846 6010C	12/17/12	KMK	12/17/12 10:46	JWK	B1

Sample Comments:

This sample was analyzed at a dilution in the Method 8270 analysis due to sample matrix. Reporting limits were adjusted accordingly.

Anna G Milliken
Technical Manager

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/ SAMPLER. INSTRUCTIONS ON THE BACK

Page 1 of 1 Cooler: Tracking #:

Co. Name: YORK CITY WWTP
Contact (Report to): JOSEPH CONCETTO Phone: 848-2794
Address: 1701 BLACK BRIDGE ROAD YORK, PA 17402
Bill to (if different than Report to): PO#: 12-100191
Project Name/#: LOCAL LIMITS ALS Quote #: 206062
TAT: Normal-Standard TAT is 10 business days. Rush-Subject to ALS approval and surcharges. Date Required: Approved By:
Email? Fax? Y N No.: JCONCETTO@YORKCITY.ORG

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	TOTAL ASSOCIATED MOISTURE	Cyanide	OIL & GREASE 1664	TOTAL SOLIDS	OIL & GREASE 9071 B	GRAS & ETHYLHEXYL PHTHALATE 8270
1 RAW INFLUENT		12/11/12	0800-2400	C	WW	1	1	1			
2 002 EFFLUENT		12/11/12	0800-2400	C	WW	1		1	1		
3 RAW INFLUENT		12/12/12	1352	G	WW						
4 002 EFFLUENT		12/12/12	1320	G	WW			1			
5 CENTRIFUGE CAKE		12/11/12	0930-1530	C	SL	X	X	X	X	X	1 BOTTLE
6											
7											
8											

Enter Number of Containers Per Analysis

Receipt Information: Received: Temperature Seals Intact? Cooler Temp: 2° Therm ID: 58177 No. of Coolers:
Notes: Should in CL and's Wall-in refrigerator overnight. 12/12/12

Custody seals Present?	Y	N		
(If present) Seals Intact?	Y	N		
Received on ice?	Y	N		
COC/Labels complete/accurate?	Y	N		
Container in good condition?	Y	N		
Correct containers?	Y	N		
Correct sample volume?	Y	N		
Correct preservation?	Y	N		
Headspace/Volatiles?	Y	N		
Check appropriate Y or N.				

ALS FIELD SERVICES: Pickup, Labor, Composite Sampling, Rental Equipment, Other

Data Deliverables: Standard, CLP-like, NJ-Reduced, NJ-Full, Other, If yes, format type:
EDDs Required?
State Samples Collected In? NJ, NY, MD, PA
SDWA Permit-to: Yes, Yes, Yes, Yes, Yes
DOD Criteria Required?

SAMPLED BY (Please Print):			
LOGGED BY (Signature):	Date: 12-12-12	Time: 1114	
REVIEWED BY (Signature):	Date: 12/12/12	Time: 1400	

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 YORK CITY	12/13/12	0959	2	12/13/12	0939
3	12/13/12		4	12/13/12	1400
5	12/13/12	2025	6	12/13/12	2025
7			8		
9			10		

*Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG=Amber Glass; CG=Clear Glass; PL=Plastic. Container Size: 250mL, 500mL, 1L, 8oz, etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY Rev 02/11

Appendix K
PADEP Correspondence

The City of York
Pennsylvania

101 South George Street ❖ PO Box 509 ❖ York PA 17405
www.yorkcity.org
Honorable C. Kim Bracey, Mayor

James E Gross
Director
Department of Public Works

August 10, 2012

Mr. Victor Landis
Pennsylvania Department of Environmental Protection
Southcentral Region
909 Elmerton Avenue
Harrisburg, PA 17110

Re: York City Wastewater Treatment Plant

Dear Mr. Landis:

Background:

The City of York Wastewater Treatment Plant is located in Manchester Township and serves the following municipalities (in part or in whole):

1. City of York
2. Manchester Township
3. West Manchester Township
4. York Township
5. Spring Garden Township
6. North York Borough
7. West York Borough

In addition, an agreement is in place between the City of York and Springettsbury Township that allows this municipality to pump flow over to the York facility.

The WWTP is designed to treat 26-mgd with a peak-flow design of 57-mgd, all of which is discharged through the permitted 002 outfall. The remaining flow is discharged through the permitted 001 outfall. Flow discharged through the 001 outfall is disinfected using sodium hypochlorite.

Average daily flows through the wastewater treatment plant have been approximately 11-mgd.

Telephone: 717-849-2245 *Facsimile: 717-845-7457* *Email: jgross@yorkcity.org*

Issue:

On August 7, 2012 at approximately 0006 AM it was discovered that power had been lost to the UV disinfection system. All flows were diverted to Train 2 and the 001 outfall and emergency disinfection were placed into service.

Timeline and Action Taken:

1. August 6, 2012 at approximately 0700 it was discovered that power was out to Train 2 effluent screw pumps. All flow was diverted to Train 3. I. B. Abel, an electrical contractor, was called in to assist with troubleshooting the loss of power to the screw pumps. A ground fault was found to be the cause of the loss of power and this was repaired and power was restored. At approximately 1100 on August 6 the screw pumps were running and the plant was restored to normal operations.

2. August 7, 2012 at approximately 0006 a plant operator discovered that power was out at the UV disinfection building. This was reported to a Supervisor and ~~the~~ I. B. Abel was recalled for assistance. All flows were diverted to Train 2 and to the 001 outfall and emergency disinfection was placed into service. Flow rate at 0000 on August 7 was at 12.6 MGD and decreasing.

   At approximately 0750 on August 7 power was restored to the UV disinfection building and the plant was returned to normal operation. An unlabeled electrical breaker was found to be off causing the loss of power to the UV building. Flow rate at 0800 on August 7 was at 8.3 MGD.

Estimated Effluent Discharge Volume:

The estimated volume of un-disinfected plant effluent discharged from outfall 002 during this event is 9.0 million gallons. The estimated volume of plant effluent disinfected with sodium hypochlorite discharged from outfall 001 during this event is 2.0 million gallons.

Discovery:

1. During the troubleshooting of the loss of power for the screw pumps on August 6 an unlabeled electrical breaker was turned off. A ground fault was found, a temporary power source placed into service and the screw pumps were returned to service. Repair parts to fix the ground fault condition are on order. The unlabeled breaker was inadvertently left off. The WWTP computer control system showed all plant operations as normal and the UV disinfection system as in service. On August 7 it was discovered that UV system did not have power and the unlabeled breaker was found to be the cause of the loss of power.

Corrective Action:

1. The unlabeled breaker has been properly marked.
2. An alarm has been added to the WWTP computer control system to provide notification in the event of the loss of power to the UV disinfection system.

The laboratory test results for samples taken on August 6 and August 7, 2012 are as follows:

Parameter	Outfall 002		Outfall 001
	August 6, 2012	August 7, 2012	August 7, 2012
CBOD, mg/l	Comment Below	Comment Below	Comment Below
TSS, mg/l	2	2	22
NH3, mg/l	Comment Below	Comment Below	Comment Below
PO4, mg/l	0.3	0.4	1.0
Chlorine Residual, mg/l	Not Applicable	Not Applicable	0.01 Ave
Fecal Coliform, MPN	41	2,200	2,400
TKN, mg/l	Not Available	1.2	3.0
Nitrite-Nitrate, mg/l	5.8	5.5	7.4
Dissolved Oxygen, mg/l	8.3	8.3	2.6
Temperature, °C	24	24	17

Copies of the actual lab reports are attached to the report. The CBOD and Ammonia test results will not be finalized until Monday, August 13, 2012 and will be forwarded to DEP as an Addendum to this report.

This report is being submitted by James E. Gross, Director of Public Works and Lawrence A. Lutter, P.E., the consulting engineer with Buchart Horn for the York City Wastewater Treatment Plant, in the absence of an Operator of record. Mr. Steve Douglas had been the Operator of record for the plant and Mr. Douglas was placed on Administrative Leave effective 1630 on Friday, August 3, 2012. The City of York is finalizing plans to name a new Operator of record and will provide proper notification to DEP.

Sincerely;

James E. Gross, Director
Department of Public Works

Lawrence A. Lutter, P.E.
Buchart Horn, Inc.

Attachment

cc: C. Kim Bracey, Mayor
J. T. Hand – York City Sewer Authority Chairman

(Intentionally blank)

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION
CLEAN WATER PROGRAM

August 13, 2012

NOTICE OF VIOLATION

CERTIFIED MAIL NO. 7007 3020 0002 8376 4924

James E. Gross, Director
Department of Public Works
101 South George Street
PO Box 509
York, PA 17405

Re: Sewage
York City WWTP
NPDES Permit No. PA0026263
Manchester Township, York County

Dear Mr. Gross:

This is to confirm the results of the Department's inspection conducted on August 9, 2012, which revealed the following violations:

1. The unauthorized discharge of partially treated sewage from the York City WWTP that occurred on August 7, 2012. The discharge was the result of the loss of electrical power to the ultra-violet disinfection system.

2. Several operational issues at the York City WWTP that occurred on August 6, 2012, including a malfunction of the recirculation pumps in Train 3, loss of electrical power to Train 2 effluent screw pumps and sand filter system, and the improper operation of the centrifuge system.

Such conditions are in violation of your permit No. PA0026263. Consequently, you are in violation of the Pennsylvania Clean Streams Law, the Act of June 22, 1937, P.L. 1987, as amended, and subject to the penalties provided therein.

At this time the Department is requesting that you contact me within 5 days of the date of this letter to schedule a meeting to discuss these violations and recent personnel changes at the facility.

This Notice of Violation is neither an order nor any other final action of the Department of Environmental Protection (Department). It neither imposes nor waives any enforcement action available to the Department under any of its statutes. If the Department determines that an enforcement action is appropriate, you will be notified of the action.

To schedule the requested meeting, please contact me 717.705.4789.

Sincerely,

Victor Landis

Victor Landis
Water Quality Specialist Supervisor
Clean Water Program

cc: York City WWTP

The City of York
Pennsylvania

101 South George Street ❖ PO Box 509 ❖ York PA 17405
www.yorkcity.org
Honorable C. Kim Bracey, Mayor

November 12, 2012

Mr. Austin Pardoe
Pennsylvania Department of Environmental Protection
Bureau of Water Standards and Facility Regulation
150 Roosevelt Ave Ste. 200
York, PA 17404

Re: York City Wastewater Treatment Plant – Hurricane Sandy

Dear Mr. Pardoe:

Please find below a final report on the status of the York City Wastewater Treatment Plant during Hurricane Sandy.

Background:

The City of York Wastewater Treatment Plant is located in Manchester Township and serves the following municipalities (in part or whole):

1. City of York
2. Manchester Township
3. West Manchester Township
4. York Township
5. Spring Garden Township
6. North York Borough
7. West York Borough

In addition, an agreement is in place between the City of York and Springettsbury Township that allows this municipality to pump flow over to the York facility.

The WWTP is designed to treat 26-mgd with a peak flow design of 57-mgd. Most of this flow is discharged from the 002 outfall. The remaining flow is discharged through the permitted 001 outfall. Flow discharged through the 001 outfall is disinfected using sodium hypochlorite after treatment.

Average daily flows through the WWTP have been approximately 11-mgd.

Phone # (717)845-2794 *Fax # (717)845-7342* *Email:Carnold@yorkcity.org*

Preparations for Hurricane:

The day prior to the Hurricane we had plant staff move non-essential equipment like portable pumps and hoses to higher ground so they would not be damaged and wouldn't float into tanks if the water rose to that level.

We also checked various other pieces of equipment to verify that they were in proper working order by looking at lubricant levels and test running the equipment. All equipment checked out ok. We filled all our portable pumps with fuel and placed them all in a central location for easy access. Out of service tanks were pumped empty in case they were needed to be put in service to accept additional flow. Prior to the storm we had one empty secondary clarifier at Train 3 and two empty aeration passes, also at Train 3.

Event:

Hurricane Sandy hit Central Pennsylvania from October 29, 2012 through October 30, 2012 and an estimated ten (10) inches of rain fell over the service area. There was also a period of high wind and wind gusts with the storm.

The City of York issued a Declaration of Disaster Emergency on October 29, 2012. The City also sent out a Press Release for a Water Use Advisory asking everyone in the service area to curtail water use. (Copies attached)

At approximately 12:00 hours on October 29, 2012 the influent flow to the York Wastewater Treatment Plant reached 27 mgd, at this time an additional secondary clarifier was put into service at treatment Train #3, this would account for all three secondary clarifiers in service at Train #3. At 14:00 hours on October 29 an additional treatment train was put into service at Train #3. At 14:10 hours on October 29, 1012 the influent flow to the York Wastewater Treatment Plant reached 37 mgd, at that time I took a phone call from the plant operator of the Springettsbury Treatment Plant; he informed me that they were approximately 15 minutes away from turning their pumps on to send us an additional 5 mgd of flow. The influent flow continued to rise over the next few hours, as the flow rose (3) previously out of service primary tanks were put into service to try and offset the additional influx of flow. At 20:50 hours on October 29 the influent flow reached 69.3- mgd all previously out of service tanks had been put into service by this time, steps were then taken to allow flow to pass through the permitted 001 discharge. The High Flow Standard Operating Procedure for the treatment plant was followed. Notification was made to Austin Pardoe at DEP at 19:04 hours on October 29 informing him that efforts were underway to start using the 001 discharge. During this time we added Sodium Hypochlorite to the 001 discharge line; every hour while we were discharging out the 001 outfall a sample was taken from the storm water basin and checked by our lab chemist to determine the amount of chlorine residual present in the sample. We made stroke and speed adjustments to the sodium hypo pump to keep a residual in the basin above 1 mg/L.

The approximate amount of partially treated sewage that was discharged out the 001 was 12,487,500 gallons. The permitted 001 outfall discharges into the Codorus Creek.

Use of the permitted 001 discharge continued until 13:10 hours on October 31, 2012. Plant flows at that time were 30.5- mgd.

During this time, a pump and grinder were damaged when they were submerged due to the high influent flow. The motors for the pump and grinder were removed and taken to a vendor to be checked, baked, re-wound and then returned to be re-installed. The gearboxes on the pump and grinder were drained of their oil and flushed with mineral oil, new oil was then put in the gearboxes and the motors were re-installed. The site lighting next to the walkway at the 002 discharge point was also damaged. Two site lights were damaged when they were bent over due to the high water level and floating debris in the Codorus Creek. This was the only damage the WWTP received during the storm.

During the Hurricane and the increased flow the plant never lost power. All equipment and systems continued to run normally without any interruption.

Short and Long term goals for dealing with High Flows:

Short Term:

The WWTP plant observed overflow of the Train #2 secondary aeration basin effluent channel, between the basins and the secondary clarifiers. This overflow consisted of partially treated secondary effluent/mixed liquor. This condition was observed in previous high flow events and corrective action was taken by the installation of an additional course of block along the channel. This observation will be subject to further evaluation by the WWTP staff and engineering firm.

Plant staff observed overflow of partially treated primary effluent at the point where the effluent flow splits to enter treatment Train #2 and treatment Train #3 pumping station. This area will also be evaluated by the engineer to determine ways to contain the higher flows.

Long term:

To work with the other municipalities including the City of York in urging them to develop an I&I (Inflow and Infiltration) program to identify the sources and locations of excessive inflow and establish funding for projects to decrease the amount of flow the plant receives during rain events. This may also be considered a short term goal because a meeting is scheduled for later this month with the other municipalities to discuss this very issue. If the connected municipalities can reduce the amount of flow the plant receives from major rain events, the City may be able to reduce the use of the 001 permitted discharge but eliminating its use can only be determined by the effectiveness of the I&I reduction programs.

Respectfully submitted;

Chad Arnold, Acting General Manager
Operator of Record