

February 15, 2017

Mr. Shayne Mitchell, P.E.
Section Chief
New York State Department of Environmental Conservation
Division of Water, Bureau of Permits
625 Broadway, Albany, New York 12233

**Subject: Stewart International Airport
 SPDES Permit No. NY0234915
 Environmental Benefit Permit Strategy
 Response to Request for Information**

Dear Mr. Mitchell:

The Port Authority of New York and New Jersey (Port Authority) has prepared this letter in response to the Request for Information (RFI) letter dated September 26, 2016 from the New York State Department of Environmental Conservation (NYSDEC) concerning the Stewart International Airport (SWF or Site) State Pollutant Discharge Elimination System (SPDES) Permit No. NY0234915. In this letter, “SWF” or “Site” means the commercial property currently leased from the New York State Department of Transportation (NYSDOT) and operated by Port Authority, and specifically does not include the adjacent property operated by the Air National Guard. SWF is owned by the NYSDOT. In 2007, the Port Authority signed a lease with the NYSDOT to operate SWF. In accordance with our lease, the Port Authority is not responsible for pre-existing conditions, including any releases that occurred prior to its execution in 2007.

The Port Authority retained TRC Engineers, Inc. (TRC) to develop and implement a sampling plan to respond to the RFI. In addition, our consultant analyzed the data and suggested interpretations and conclusions. A summary of the data, the analysis, and conclusions are presented in the following sections of this letter.

1.0 Introduction and Background

The RFI was received by the Port Authority in mid-October 2016. The RFI requested submittal of information on the permitted Outfalls (Outfalls 001 through 015) by December 26, 2016, including analytical monitoring data from stormwater samples collected at each Outfall during a qualifying storm event. In a letter dated November 29, 2016, the Port Authority requested an extension, until February 14, 2017, to provide a complete response. Approval of the extension was received from the NYSDEC via email on December 9, 2016.

On December 12, 2016, grab sampling methods were utilized to collect stormwater from Outfalls 001 through 015 for analysis for the requested analytical parameters. According to the weather report at SWF, approximately 0.32 inches of rain and 2.7 inches of wintry mix accumulated on December 12, 2016. Results of analyses for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), alcohols,

metals, wet chemistry, conventional parameters, and perfluorinated compounds (PFCs) are summarized in the attached **Tables 1 through 5**. Results of analyses for PFCs are also summarized on **Figure 1**. The laboratory data packages are included in **Attachment 1**.

Analytical results from this stormwater sampling event were also used to complete the routine monthly Discharge Monitoring Report (DMR) for December 2016 (submitted under separate cover) in accordance with standard practice and the requirements of the SPDES permit. As required, completed Sections I (Permittee and Facility Information) and II (Outfall Information) of Application Form NY-2C are attached to this letter. Additionally, the contents of Section III (Sampling Information) are presented in **Tables 1 through 5** (summary of analytical results). A summary of the results of the PFCs sampling is provided in Section 2.0 below.

2.0 Summary of Results of Sampling for PFCs

Prior to providing results of the sampling and testing for PFCs, the Port Authority wishes to state with respect to this RFI, there are no current operations performed under the oversight of the Port Authority that utilize PFCs.

2.1 Outfall Sampling Performed During Qualifying Storm (as required by the RFI)

As mentioned above, during a qualifying storm event on December 12, 2016, samples were collected from Outfalls 001 through 015 for analysis for VOCs, SVOCs, alcohols, metals, wet chemistry, conventional parameters, and PFCs as required by the September 2016 RFI. A brief discussion of the results of the analyses for PFCs is provided below.

- Perfluorooctanoic acid (PFOA) was detected in samples collected from Outfalls 001 through 015 at concentrations ranging from 3.6 nanograms per liter (ng/L) to 260 ng/L.
- Perfluorooctanesulfonic acid (PFOS) was detected in samples collected from Outfalls 001 through 015 at concentrations ranging from 3.5 ng/L to 3,300 ng/L.
- Perfluorohexanesulfonic acid (PFHxS) was detected in samples collected from Outfalls 001 through 014 at concentrations ranging from 2.5 ng/L to 1,500 ng/L.
- Samples collected from Outfalls 001, 002, 003, 007, 008, 009, 010¹, 012, 013, and 014 contained PFCs at concentrations above the United States Environmental Protection Agency (USEPA) Health Advisory of 70 ng/L for PFOA and/or PFOS.

¹ Sample was collected from manhole directly upstream of Outfall 010 due to ponded water conditions immediately adjacent to Outfall 010 headwall. Refer to Section 3.2 for additional information.

2.2 Upgradient Sampling for PFCs Performed during Qualifying Storm (not required by RFI)

During the stormwater sampling event performed on December 12, 2016, water samples were collected for analysis for PFCs from four (4) streams² (labeled Stream #7, #8, #9, and #10 on the attached **Figure 1**) upgradient of SWF Outfall drainage areas. The purpose of the sampling was to determine if the streams are transporting PFCs to the SWF stormwater sewer system from off-Site sources. A summary of the results is included in **Table 5** and shown on **Figure 1**. A brief discussion of the results of the analyses is provided below.

- PFOA was detected in samples collected from the four (4) streams at concentrations ranging from 2.1 ng/L to 12 ng/L.
- PFOS was detected in samples collected from the four (4) streams at concentrations ranging from 1.7 ng/L to 9.0 ng/L.
- PFHxS was detected in samples collected from the four (4) streams at concentrations ranging from 1.3 ng/L to 6.6 ng/L.
- The concentrations of PFCs detected in the samples collected from the streams are similar and appear to be background concentrations associated with the drainage areas north of SWF.

2.3 Dry Weather Sampling for PFCs Only (not required by RFI)

Dry weather samples were collected on November 22, 2016 from Outfalls 001 through 015 for analysis for PFCs. The purpose of the dry weather sampling was to evaluate impacts of potential infiltration of perched water into the storm sewers. A summary of the results is presented in attached **Table 6** and illustrated on **Figure 2**. A brief discussion of the results of the analyses is provided below.

- PFOA was detected in samples collected from Outfalls 001 through 015 at concentrations ranging from 4.5 ng/L to 580 ng/L (not including the sample of ponded water collected at the discharge point of Outfall 010).
- PFOS was detected in samples collected from Outfalls 001 through 015 at concentrations ranging from 4.7 ng/L to 1,800 ng/L (not including the sample of ponded water collected at the discharge point of Outfall 010).
- PFHxS was detected in samples collected from Outfalls 001 through 015 at concentrations ranging from 4.7 ng/L to 820 ng/L (not including the sample of ponded water collected at the discharge point of Outfall 010).

² In this report, the term "stream" is being used generically to represent a creek, brook, or similar water body.

- Samples collected from Outfalls 001, 002, 006, 007, 008, 009, 010, 012, 013, and 014 contained PFCs at concentrations above the USEPA Health Advisory of 70 ng/L for PFOA and/or PFOS, indicating perched water entering sewers via infiltration represents a significant potential source of PFCs in the storm sewer system.

3.0 Outfall-Specific Discussions of PFCs Sampling Results (Outfalls 003, 010, and 014)

Presented below are discussions regarding the results of sampling performed for PFCs in connection with Outfalls 003, 010, and 014. Conclusions regarding all PFCs sampling results are presented in Section 4.0.

3.1 Outfall 003

Samples were collected from a manhole upstream of Outfall 003 on November 22, 2016 during dry weather conditions and on December 12, 2016 during the qualifying storm event. As shown on **Figure 3**, the manhole sampled is located directly within the area impacted by a 1996 FedEx plane fire, which was covered with PFC-containing firefighting foam and has been identified by NYSDEC as a historic source of PFCs at SWF.

In 2015 the Port Authority performed an evaluation of the storm sewers at SWF. The evaluation showed infiltration into the storm sewers upstream of Outfall 003, believed to be from perched water. Therefore, the purpose of sampling the manhole upstream of Outfall 003 was to determine if PFCs in perched water in the location of the FedEx plane fire are impacting the discharge from Outfall 003 as a result of infiltration of the perched water into sewers upstream of Outfall 003.

A summary of the results of the sampling of the upstream manhole for PFCs, as well as the results of Outfall 003 sampling (for PFCs), are shown on **Figure 3**.

As can be seen on **Figure 3**, elevated concentrations of PFCs were detected in the dry weather sample collected from the upstream manhole, indicating perched water infiltrating the sewers within the area impacted by the FedEx plane fire is a source of the PFCs detected in samples collected from Outfall 003.

In addition, shown on **Figure 3** are the results of analysis for PFCs of samples collected from Outfall 004 and the adjacent stream (labeled Stream #10 on **Figure 3**). Outfall 004 and the adjacent stream contribute to the storm sewers upstream of Outfall 003 but are beyond the limits of the area impacted by the FedEx plane fire. As can be seen, the concentrations of PFCs in the samples collected upstream of the area of the FedEx plane fire are significantly lower than the concentrations of PFCs detected in samples collected downstream of the FedEx plane fire area.

3.2 Outfall 010

The headwall of Outfall 010 is surrounded by ponded water and phragmites as shown in photographs on **Figure 4**. Due to this condition it is not possible to collect a sample representative of the discharge from Outfall 010. A grab sample from near the surface of the ponded water directly adjacent to the headwall of Outfall 010 was collected on November 22, 2016, during dry weather conditions. PFOA, PFOS, and PFHxS were detected at concentrations of 490 ng/L, 8,900 ng/L, and 3,100 ng/L, respectively. These results are not representative of the Outfall 010 discharge, but instead of the ponded water adjacent to Outfall 010.

Also collected during dry weather conditions on November 22, 2016 was a sample of moving water in the manhole directly upstream of Outfall 010 (refer to **Figure 4**). PFOA, PFOS, and PFHxS were detected at concentrations of 100 ng/L, 1,800 ng/L, and 820 ng/L, respectively. These results should be considered more representative of the stormwater flowing to the discharge point of Outfall 010.

During the stormwater sampling event performed on December 12, 2016, a sample was only collected from the manhole directly upstream of Outfall 010 (the location more representative of the Outfall 010 discharge). PFOA, PFOS, and PFHxS were detected at concentrations of 220 ng/L, 3,300 ng/L, and 1,500 ng/L, respectively.

In the attached form NY-2C, coordinates for the upstream manhole are used for Outfall 010, since this sampling point is more representative of flowing stormwater which discharges at Outfall 010.

The drainage area for Outfall 010 may include the “Foam Spray/Testing Former NYANG ARFF Building” which has been identified by NYSDOT in an October 2016 report as a historic potential source of PFCs at SWF and pre-dates the period of Port Authority’s operation of SWF.

3.3 Outfall 014

Outfall 014 is located near the boundary of the Air National Guard (ANG) Base, a State Superfund Site with known PFC impacts, and receives stormwater from both SWF and the ANG Base (as indicated in the SWF SPDES Permit No. NY0234915). As shown on **Figure 5**, stormwater samples were collected for analysis for PFCs from four (4) manholes located upstream of Outfall 014 to investigate impacts associated with SWF and the ANG Base.

As can be seen on **Figure 5**, samples collected from “Manhole #1”, “Manhole #2”, and “Manhole #4”, which are representative of stormwater received from SWF, did not contain concentrations of PFCs above the USEPA Health Advisory of 70 ng/L. The sample collected from “Manhole #3” contains stormwater from the ANG Base. Concentrations of PFCs exceeding the USEPA Health Advisory of 70 ng/L were detected in the sample collected from Manhole #3. Additionally, the relative concentrations of individual PFCs detected (i.e., the fingerprint) in the samples collected from Manhole #3 and Outfall 014 are similar.

4.0 Conclusions Regarding PFCs

In consideration of the above, the following can be concluded:

1. Samples collected from Outfalls 001, 002, 003, 007, 008, 009, 010, 012, 013, and 014 during a qualifying storm event contained PFCs at concentrations above the USEPA Health Advisory of 70 ng/L for PFOA and/or PFOS. The results of the analyses of the samples collected from the Outfalls, with the exception of Outfalls 010 and 014, are of the same order of magnitude as the USEPA Health Advisory value (70 ng/L).
2. Dry weather sampling results indicate that the elevated concentrations of PFCs detected in Outfall samples are not caused by surface flow of stormwater, but rather suggest the cause is infiltration of perched water impacted by historic sources not related to the Port Authority. Furthermore, the dry weather sampling results, which identify perched water impacted by historic sources as the cause of elevated PFCs concentrations in Outfall samples, also supports the conclusion that current SWF operations are not the cause of elevated PFC concentrations.
3. The sampling results at Outfall 003 are consistent with NYSDEC's conclusion that the 1996 FedEx plane fire response is a historic source of PFCs at SWF.
4. The manhole directly upstream should be used as the future sampling point for Outfall 010 since there is ponded water immediately adjacent to the Outfall headwall, and it is not possible to collect a sample representative of stormwater at the Outfall 010 discharge point. The attached Application Form NY-2C shows this change.
5. Samples were collected from four (4) manholes upstream of the trunk line which terminates at Outfall 014. Samples collected from three (3) of the four (4) manholes that receive stormwater from SWF operations only did not contain concentrations of PFCs above the USEPA Health Advisory (70 ng/L). However, the sample collected from the fourth manhole, that receives stormwater from the ANG Base, did contain concentrations of PFCs above the USEPA Health Advisory. The results of the sampling strongly indicate the elevated PFC concentrations detected at Outfall 014 are attributable to the ANG Base, and that Port Authority operations are not the cause. The Port Authority hereby requests transfer of Outfall 014 to ANG SPDES Permit No. NY0250457. The attached Application Form NY-2C does not contain Outfall 014.
6. NYSDEC has indicated in public announcements that known historic source areas of PFCs at SWF include the 1996 FedEx plane fire response area. In addition, in an October 2016 NYSDOT report, the former fire training area and the former ANG ARFF Building foam spray/testing area are indicated as potential historic PFCs source areas at SWF. The Port Authority began leasing SWF from the NYSDOT in 2007, after the events which resulted in the PFC-related impacts from these historic sources. The ANG Base is also a documented source of PFCs. Therefore, PFC impacts attributable to the aforementioned sources would be the responsibility of NYSDOT and ANG, not Port Authority.

Mr. Shayne Mitchell, P.E.
New York State Department of
Environmental Conservation
Page 7 of 7
February 15, 2017

7. The ANG provides fire and emergency services for the entire airfield, and the Port Authority does not engage in use of PFC-containing firefighting foams.
8. Contributions from the ANG Base and historic sources at SWF, identified by the NYSDEC and NYSDOT, which pre-date Port Authority's lease and operations are the apparent primary sources of PFCs found in samples collected from Outfalls at SWF.

The Port Authority is currently completing evaluation of the results of the survey of the storm sewer system conducted at SWF in 2015. In addition, further study into the drainage area contributing to Outfall 010 is planned.

Thank you,



Robert Pruno, PE
Chief Environmental Engineer
The Port Authority of NY & NJ

cc: Todd Westhuis, NYSDOT

Attachments:

- Table 1: December 2016 Outfall Sampling Summary of Results – Volatile Organic Compounds
- Table 2: December 2016 Outfall Sampling Summary of Results – Semi-Volatile Organic Compounds
- Table 3: December 2016 Outfall Sampling Summary of Results – Alcohols, Metals, and Wet Chemistry
- Table 4: December 2016 Outfall Sampling Summary of Results – Conventional Parameters
- Table 5: December 2016 Outfall Sampling Summary of Results – Perfluorinated Compounds
- Table 6: Summary of Results of Dry Weather and Investigative Sampling – November and December 2016 - Perfluorinated Compounds

- Figure 1: Stormwater Sampling Results for PFCs
- Figure 2: Dry Weather (11/22/16) and Investigative (11/22/16 & 12/12/16) Sampling Results for PFCs
- Figure 3: Enlargement of Area of Outfall 003 Showing Impact from Location of 1996 FedEx Plane Fire
- Figure 4: Enlargement of Area of Outfall 010
- Figure 5: Enlargement of Area of Outfall 014

Attachment 1: NYSDEC Application Form NY-2C, including Laboratory Data Packages

Tables

Table 1
The Port Authority of New York and New Jersey
Stewart International Airport
December 2016 Outfall Sampling Summary of Results - Volatile Organic Compounds

Sample ID	Outfall 001		Outfall 002		Outfall 003		Outfall 004		Outfall 005		Outfall 006		Outfall 007		Outfall 008		
Sampling Date	12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016		
Sample Matrix	Water		Water		Water		Water		Water		Water		Water		Water		
Volatile Organic Compounds (VOCs)	Unit	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1-Trichloroethane	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1,2-Tetrachloroethane	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	µg/L	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50
1,2-Dichloropropane	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Chloroethylvinylether	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Acrolein	µg/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Acrylonitrile	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Benzene	µg/L	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50
Bromodichloromethane	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromoform	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon tetrachloride	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloromethane	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
m&p-Xylenes	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene chloride	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methyl-t-butyl ether	µg/L	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50
o-Xylene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl chloride	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Xylenes (Total)	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

Notes:
µg/L: Micrograms per liter
ND: Not detected
NA: Not applicable
RL: Reporting limit
*: Sample collected from upstream manhole

Table 1
The Port Authority of New York and New Jersey
Stewart International Airport
December 2016 Outfall Sampling Summary of Results - Volatile Organic Compounds

Sample ID	Outfall 009		Outfall 010*		Outfall 011		Outfall 012		Outfall 013		Outfall 014		Outfall 015		
Sampling Date	12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016		
Sample Matrix	Water		Water		Water		Water		Water		Water		Water		
Volatile Organic Compounds (VOCs)	Unit	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1-Trichloroethane	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1,2-Tetrachloroethane	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	µg/L	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50
1,2-Dichloropropane	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Chloroethylvinylether	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Acrolein	µg/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Acrylonitrile	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Benzene	µg/L	ND	0.50	ND	0.50	0.94	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50
Bromodichloromethane	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromoform	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon tetrachloride	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	µg/L	ND	1.0	3.3	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloromethane	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
m&p-Xylenes	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene chloride	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methyl-t-butyl ether	µg/L	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50
o-Xylene	µg/L	ND	1.0	ND	1.0	39	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	µg/L	ND	1.0	ND	1.0	1.3	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl chloride	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Xylenes (Total)	µg/L	ND	1.0	ND	1.0	39	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

Notes:
µg/L: Micrograms per liter
ND: Not detected
NA: Not applicable
RL: Reporting limit
*: Sample collected from upstream manhole

Table 2
The Port Authority of New York and New Jersey

Stewart International Airport
December 2016 Outfall Sampling Summary of Results - Semi-Volatile Organic Compounds

Sample ID	Outfall 001	Outfall 002	Outfall 003	Outfall 004	Outfall 005	Outfall 006	Outfall 007	Outfall 008	
Sampling Date	12/12/2016	12/12/2016	12/12/2016	12/12/2016	12/12/2016	12/12/2016	12/12/2016	12/12/2016	
Sample Matrix	Water	Water	Water	Water	Water	Water	Water	Water	
Semi-Volatile Organic Compounds (SVOCs)	Unit	Result	RL	Result	RL	Result	RL	Result	RL
1,2-Diphenylhydrazine	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
2,4,6-Trichlorophenol	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
2,4-Dichlorophenol	µg/L	ND	0.84	ND	0.80	ND	0.80	ND	0.80
2,4-Dimethylphenol	µg/L	ND	0.53	ND	0.50	ND	0.50	ND	0.50
2,4-Dinitrophenol	µg/L	ND	11	ND	10	ND	10	ND	10
2,4-Dinitrotoluene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
2,6-Dinitrotoluene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
2-Chloronaphthalene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
2-Chlorophenol	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
2-Nitrophenol	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
3,3'-Dichlorobenzidine	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
4,6-Dinitro-2-methylphenol	µg/L	ND	11	ND	10	ND	10	ND	10
4-Bromophenyl-phenylether	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
4-Chloro-3-methylphenol	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
4-Chlorophenyl-phenylether	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
4-Nitrophenol	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Acenaphthene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Acenaphthylene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Anthracene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Benzidine	µg/L	ND	3.3	ND	3.1	ND	3.1	ND	3.1
Benzo[a]anthracene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Benzo[a]pyrene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Benzo[b]fluoranthene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Benzo[g,h,i]perylene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Benzo[k]fluoranthene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
bis(2-Chloroethoxy)methane	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
bis(2-Chloroethyl)ether	µg/L	ND	0.53	ND	0.50	ND	0.50	ND	0.50
bis(2-Chloroisopropyl)ether	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
bis(2-Ethylhexyl)phthalate	µg/L	ND	2.1	ND	2.0	2.6	2.0	ND	2.0
Butylbenzylphthalate	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Chrysene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Dibenzo[a,h]anthracene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Diethylphthalate	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Dimethylphthalate	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Di-n-butylphthalate	µg/L	ND	0.53	ND	0.50	ND	0.50	ND	0.50
Di-n-octylphthalate	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Fluoranthene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Fluorene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Hexachlorobenzene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Hexachlorocyclopentadiene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Hexachloroethane	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Indeno[1,2,3-cd]pyrene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Isophorone	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Naphthalene	µg/L	ND	0.53	ND	0.50	ND	0.50	ND	0.50
Nitrobenzene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
N-Nitrosodimethylamine	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
N-Nitroso-di-n-propylamine	µg/L	ND	0.53	ND	0.50	ND	0.50	ND	0.50
N-Nitrosodiphenylamine	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Pentachlorophenol	µg/L	ND	11	ND	10	ND	10	ND	10
Phenanthrene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Phenol	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0
Pyrene	µg/L	ND	2.1	ND	2.0	ND	2.0	ND	2.0

Notes:
µg/L: Micrograms per liter
ND: Not detected
NA: Not applicable
RL: Reporting limit
*: Sample collected from upstream manhole

Table 2
The Port Authority of New York and New Jersey
Stewart International Airport

December 2016 Outfall Sampling Summary of Results - Semi-Volatile Organic Compounds

Sample ID		Outfall 009	Outfall 010*	Outfall 011	Outfall 012	Outfall 013	Outfall 014	Outfall 015							
Sampling Date		12/12/2016	12/12/2016	12/12/2016	12/12/2016	12/12/2016	12/12/2016	12/12/2016							
Sample Matrix		Water	Water	Water	Water	Water	Water	Water							
Semi-Volatile Organic Compounds (SVOCs)	Unit	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2-Diphenylhydrazine	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
2,4,6-Trichlorophenol	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
2,4-Dichlorophenol	µg/L	ND	0.83	ND	0.53	ND	0.83	ND	0.81	ND	0.89	ND	0.84	ND	0.86
2,4-Dimethylphenol	µg/L	ND	0.52	ND	0.33	8.5	0.52	ND	0.51	ND	0.56	ND	0.53	ND	0.54
2,4-Dinitrophenol	µg/L	ND	10	ND	6.7	ND	10	ND	10	ND	11	ND	11	ND	11
2,4-Dinitrotoluene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
2,6-Dinitrotoluene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
2-Chloronaphthalene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
2-Chlorophenol	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
2-Nitrophenol	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
3,3'-Dichlorobenzidine	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
4,6-Dinitro-2-methylphenol	µg/L	ND	10	ND	6.7	ND	10	ND	10	ND	11	ND	11	ND	11
4-Bromophenyl-phenylether	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
4-Chloro-3-methylphenol	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
4-Chlorophenyl-phenylether	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
4-Nitrophenol	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Acenaphthene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Acenaphthylene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Anthracene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Benzidine	µg/L	ND	3.3	ND	2.1	ND	3.3	ND	3.2	ND	3.5	ND	3.3	ND	3.4
Benzo[a]anthracene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Benzo[a]pyrene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Benzo[b]fluoranthene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Benzo[g,h,i]perylene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Benzo[k]fluoranthene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
bis(2-Chloroethoxy)methane	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
bis(2-Chloroethyl)ether	µg/L	ND	0.52	ND	0.33	ND	0.52	ND	0.51	ND	0.56	ND	0.53	ND	0.54
bis(2-Chloroisopropyl)ether	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
bis(2-Ethylhexyl)phthalate	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Butylbenzylphthalate	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Chrysene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Dibenzo[a,h]anthracene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Diethylphthalate	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Dimethylphthalate	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Di-n-butylphthalate	µg/L	ND	0.52	ND	0.33	ND	0.52	ND	0.51	ND	0.56	ND	0.53	ND	0.54
Di-n-octylphthalate	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Fluoranthene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Fluorene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Hexachlorobenzene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Hexachlorobutadiene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Hexachlorocyclopentadiene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Hexachloroethane	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Indeno[1,2,3-cd]pyrene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Isophorone	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Naphthalene	µg/L	ND	0.52	ND	0.33	13	0.52	ND	0.51	ND	0.56	ND	0.53	ND	0.54
Nitrobenzene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
N-Nitrosodimethylamine	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
N-Nitroso-di-n-propylamine	µg/L	ND	0.52	ND	0.33	ND	0.52	ND	0.51	ND	0.56	ND	0.53	ND	0.54
N-Nitrosodiphenylamine	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Pentachlorophenol	µg/L	ND	10	ND	6.7	ND	10	ND	10	ND	11	ND	11	ND	11
Phenanthrene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Phenol	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2
Pyrene	µg/L	ND	2.1	ND	1.3	ND	2.1	ND	2.0	ND	2.2	ND	2.1	ND	2.2

Notes:
µg/L: Micrograms per liter
ND: Not detected
NA: Not applicable
RL: Reporting limit
*: Sample collected from upstream manhole

Table 3
The Port Authority of New York and New Jersey
Stewart International Airport
December 2016 Outfall Sampling Summary of Results - Alcohols, Metals, and Wet Chemistry

Sample ID		Outfall 001		Outfall 002		Outfall 003		Outfall 004		Outfall 005		Outfall 006		Outfall 007		Outfall 008	
Sampling Date		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016	
Sample Matrix		Water		Water		Water		Water		Water		Water		Water		Water	
Alcohols	Unit	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Ethylene Glycol	mg/L	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50
Propylene Glycol	mg/L	ND	50	ND	50	ND	50	1200	50	ND	50	ND	50	ND	50	ND	50
Metals	Unit	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Mercury	ng/L	2.8	0.50	7.5	0.50	3.6	1.0	0.99	0.50	1.8	0.50	2.1	0.50	2.9	0.50	5.8	0.50
Barium	µg/L	ND	25	42	25	ND	25	79	25	ND	25	36	25	ND	25	36	25
Chromium	µg/L	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Copper	µg/L	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Nickel	µg/L	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Silver	µg/L	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Zinc	µg/L	ND	25	ND	25	ND	25	27	25	ND	25	ND	25	ND	25	38	25
Antimony	µg/L	ND	2.5	ND	2.5	ND	2.5	ND	2.5	ND	2.5	ND	2.5	ND	2.5	ND	2.5
Arsenic	µg/L	ND	1.0	ND	1.0	1.1	1.0	1.2	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Beryllium	µg/L	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75
Cadmium	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Lead	µg/L	2.3	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	0.94	0.75
Selenium	µg/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Thallium	µg/L	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5
Wet Chemistry	Unit	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Cyanide	µg/L	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Total Phenolics	µg/L	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50

Notes:
ng/L: Nanograms per liter
µg/L: Micrograms per liter
mg/L: Milligrams per liter
ND: Not detected
NA: Not applicable
RL: Reporting limit
*: Sample collected from upstream manhole

Table 3
The Port Authority of New York and New Jersey
Stewart International Airport
December 2016 Outfall Sampling Summary of Results - Alcohols, Metals, and Wet Chemistry

Sample ID		Outfall 009		Outfall 010*		Outfall 011		Outfall 012		Outfall 013		Outfall 014		Outfall 015	
Sampling Date		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016	
Sample Matrix		Water		Water		Water		Water		Water		Water		Water	
Alcohols	Unit	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Ethylene Glycol	mg/L	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50
Propylene Glycol	mg/L	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50
Metals	Unit	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Mercury	ng/L	2.1	0.50	4.1	0.50	1.5	0.50	2.2	0.50	2.6	0.50	1.5	0.50	3.4	0.50
Barium	µg/L	43	25	48	25	ND	25	ND	25	ND	25	ND	25	ND	25
Chromium	µg/L	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Copper	µg/L	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Nickel	µg/L	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Silver	µg/L	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Zinc	µg/L	ND	25	36	25	ND	25	ND	25	ND	25	ND	25	42	25
Antimony	µg/L	ND	2.5	ND	2.5	ND	2.5	ND	2.5	ND	2.5	ND	2.5	ND	2.5
Arsenic	µg/L	ND	1.0	1.5	1.0	ND	1.0	1.2	1.0	ND	1.0	ND	1.0	ND	1.0
Beryllium	µg/L	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75
Cadmium	µg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Lead	µg/L	ND	0.75	2	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	1.2	0.75
Selenium	µg/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Thallium	µg/L	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5
Wet Chemistry	Unit	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Cyanide	µg/L	ND	20	35	20	ND	20	ND	20	ND	20	ND	20	ND	20
Total Phenolics	µg/L	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50

Notes:
ng/L: Nanograms per liter
µg/L: Micrograms per liter
mg/L: Milligrams per liter
ND: Not detected
NA: Not applicable
RL: Reporting limit
*: Sample collected from upstream manhole

Table 4
The Port Authority of New York and New Jersey
Stewart International Airport
December 2016 Outfall Sampling Summary of Results - Conventional Parameters

Sample ID		Outfall 001		Outfall 002		Outfall 003		Outfall 004		Outfall 005		Outfall 006		Outfall 007		Outfall 008	
Sampling Date		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016	
Sample Matrix		Water		Water		Water		Water		Water		Water		Water		Water	
Conventional Parameters	Unit	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Flow Rate	gpm	1	NA	3	NA	16	NA	3	NA	8	NA	2	NA	10	NA	37	NA
Temperature	°C	7.9	NA	11.5	NA	2.1	NA	7.1	NA	2.05	NA	9.8	NA	3.3	NA	6.3	NA
pH	SU	6.28	NA	6.98	NA	7.52	NA	5.35	NA	7.87	NA	8.33	NA	6.47	NA	7.25	NA
Total Residual Chlorine	mg/L	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	<0.2	NA
Dissolved Oxygen	mg/L	7.8	NA	7.33	NA	13.33	NA	7.35	NA	13.34	NA	11	NA	12.75	NA	10.65	NA
BOD5	mg/L	ND	2.0	ND	2.0	92	2.0	1800	2.0	9.8	2.0	ND	2.0	34	2.0	2.7	2.0
COD	mg/L	ND	10	22	10	230	100	2800	250	29	10	14	10	62	10	18	10
TSS	mg/L	ND	4.0	ND	4.0	ND	4.0	13	4.0	ND	4.0	ND	4.0	7.2	4.0	18	4.0
TDS	mg/L	430	40	520	40	320	40	360	40	290	40	440	40	230	40	1300	40
Settleable Solids	mL/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Oil & Grease	mg/L	ND	7.5	ND	5.3	ND	5.7	ND	5.3	ND	5.7	ND	7.2	ND	7.8	ND	6.0
Total Organic Nitrogen	mg/L	1.1	NA	1.2	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	1.0	NA
Ammonia (N)	mg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Nitrate	mg/L	1.1	1.0	1.2	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	1.0	1.0
Nitrite	mg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Total Phosphorus	mg/L	ND	0.10	ND	0.10	ND	0.10	0.27	0.10	0.18	0.1	ND	0.10	0.1	0.10	ND	0.10
Hardness (as CaCO3)	mg CaCO3/L	240	6.6	420	6.6	150	6.6	200	6.6	190	6.6	390	6.6	160	6.6	130	6.6
Fecal Coliform	CFU/100mL	80	10	30	10	270	10	190	10	260	10	40	10	420	10	1,100	100
Total Coliform	CFU/100mL	110	10	50	10	370	10	220	10	830	10	150	10	2,200	100	1,800	100
Enterococci	MPN/100mL	39.5	1.0	ND	1.0	66.3	1.0	23.8	1.0	770	1.0	59.1	1.0	2,420	1.0	1,300	1.0

Notes:
gpm: Gallons per minute
SU: Standard unit
mL/L: Milliliter per liter
mg/L: Milligrams per liter
ND: Not detected
NA: Not applicable
RL: Reporting limit
MDL: Method detection limit
CFU: Colony forming unit
MPN: Most probable number
*: No flow/stagnant
*: Sample collected from upstream manhole

Table 4
The Port Authority of New York and New Jersey
Stewart International Airport
December 2016 Outfall Sampling Summary of Results - Conventional Parameters

Sample ID		Outfall 009		Outfall 010*		Outfall 011		Outfall 012		Outfall 013		Outfall 014		Outfall 015	
Sampling Date		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016	
Sample Matrix		Water		Water		Water		Water		Water		Water		Water	
Conventional Parameters	Unit	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Flow Rate	gpm	2	NA	2	NA	3	NA	3	NA	25	NA	20	NA	*	NA
Temperature	°C	7	NA	8.8	NA	6.4	NA	5	NA	5.9	NA	6.6	NA	3.1	NA
pH	SU	7.24	NA	6.55	NA	6.88	NA	7.55	NA	7.39	NA	7.9	NA	5.25	NA
Total Residual Chlorine	mg/L	<0.2	NA	0	NA	<0.2	NA	<0.2	NA	<0.2	NA	<0.2	NA	0	NA
Dissolved Oxygen	mg/L	9.5	NA	11.48	NA	7.55	NA	10.63	NA	8.29	NA	10.51	NA	15.7	NA
BOD5	mg/L	ND	2.0	ND	2.0	3.1	2.0	49	2.0	230	2.0	15	2.0	4.2	2.0
COD	mg/L	16	10	24	10	13	10	69	10	310	100	30	10	16	10
TSS	mg/L	6.0	4.0	47	4.0	28	4.0	6.0	4.0	16	4.0	ND	4.0	6.4	4.0
TDS	mg/L	830	40	3,200	40	68	40	120	40	440	40	200	40	330	40
Settleable Solids	mL/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Oil & Grease	mg/L	ND	5.8	ND	5.3	ND	6.0	ND	5.6	ND	6.0	ND	5.6	ND	6.0
Total Organic Nitrogen	mg/L	ND	NA	1.0	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA
Ammonia (N)	mg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Nitrate	mg/L	ND	1.0	1.0	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Nitrite	mg/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Total Phosphorus	mg/L	ND	0.10	0.15	0.1	0.12	0.10	ND	0.10	0.18	0.10	ND	0.10	ND	0.10
Hardness (as CaCO3)	mg CaCO3/L	260	6.6	200	6.6	57	6.6	51	6.6	150	6.6	140	6.6	52	6.6
Fecal Coliform	CFU/100mL	290	10	60	10	10	10	120	10	510	10	130	10	270	10
Total Coliform	CFU/100mL	330	10	100	10	180	10	230	10	1500	100	240	10	320	10
Enterococci	MPN/100mL	132	1.0	77.2	1.0	6.0	1.0	1,200	1.0	2,419.20	1.0	326	1.0	74.3	1.0

Notes:

- gpm: Gallons per minute
- SU: Standard unit
- mL/L: Milliliter per liter
- mg/L: Milligrams per liter
- ND: Not detected
- NA: Not applicable
- RL: Reporting limit
- MDL: Method detection limit
- CFU: Colony forming unit
- MPN: Most probable number
- *: No flow/stagnant
- *: Sample collected from upstream manhole

Table 5
The Port Authority of New York and New Jersey
Stewart International Airport
December 2016 Outfall Sampling Summary of Results - Perfluorinated Compounds

Sample ID		Outfall 001		Outfall 002		Outfall 003		Outfall 004		Outfall 005	
Sampling Date		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016	
Sample Matrix		Water		Water		Water		Water		Water	
Perfluorinated Compounds (PFCs)	Unit	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Perfluorooctanoic acid (PFOA)	ng/L	260	2.0	87	2.0	18	2.1	8.4	1.9	6.0	1.9
Perfluorooctanesulfonic acid (PFOS)	ng/L	6.0	2.0	160	2.0	110	2.1	31	1.9	7.5	1.9
Perfluorohexanesulfonic acid (PFHxS)	ng/L	2.5	2.0	150	2.0	41	2.1	17	1.9	17	1.9
PFOA + PFOS	ng/L	266	NA	247	NA	128	NA	39.4	NA	13.5	NA

Notes:

Bold: Indicates the concentration exceeds the EPA Health Advisory for PFOA and/or PFOS (70 ng/L)

ng/L: Nanograms per liter

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND: Not detected

NA: Not applicable

RL: Reporting limit

MDL: Method detection limit

*: Sample collected from upstream manhole

Table 5
The Port Authority of New York and New Jersey
Stewart International Airport
December 2016 Outfall Sampling Summary of Results - Perfluorinated Compounds

Sample ID		Outfall 006		Outfall 007		Outfall 008		Outfall 009		Outfall 010*	
Sampling Date		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016	
Sample Matrix		Water		Water		Water		Water		Water	
Perfluorinated Compounds (PFCs)	Unit	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Perfluorooctanoic acid (PFOA)	ng/L	53	1.9	15	1.9	14	2.1	15	2.0	220	2.1
Perfluorooctanesulfonic acid (PFOS)	ng/L	12	1.9	170	1.9	280	2.1	100	2.0	3300	41
Perfluorohexanesulfonic acid (PFHxS)	ng/L	54	1.9	39	1.9	89	2.1	37	2.0	1500	41
PFOA + PFOS	ng/L	65	NA	185	NA	294	NA	115	NA	3520	NA

Notes:

Bold: Indicates the concentration exceeds the EPA Health Advisory for PFOA and/or PFOS (70 ng/L)

ng/L: Nanograms per liter

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND: Not detected

NA: Not applicable

RL: Reporting limit

MDL: Method detection limit

*: Sample collected from upstream manhole

Table 5
The Port Authority of New York and New Jersey
Stewart International Airport
December 2016 Outfall Sampling Summary of Results - Perfluorinated Compounds

Sample ID		Outfall 011		Outfall 012		Outfall 013		Outfall 014		Outfall 015	
Sampling Date		12/12/2016		12/12/2016		12/12/2016		12/12/2016		12/12/2016	
Sample Matrix		Water		Water		Water		Water		Water	
Perfluorinated Compounds (PFCs)	Unit	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Perfluorooctanoic acid (PFOA)	ng/L	3.6	2.0	11	2.0	27	2.0	41	2.2	9.0	2.0
Perfluorooctanesulfonic acid (PFOS)	ng/L	3.5	2.0	84	2.0	120	2.0	690	2.2	3.7	2.0
Perfluorohexanesulfonic acid (PFHxS)	ng/L	5.2	2.0	26	2.0	78	2.0	180	11	ND	2.0
PFOA + PFOS	ng/L	7.1	NA	95	NA	147	NA	731	NA	12.7	NA

Notes:

Bold: Indicates the concentration exceeds the EPA Health Advisory for PFOA and/or PFOS (70 ng/L)

ng/L: Nanograms per liter

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND: Not detected

NA: Not applicable

RL: Reporting limit

MDL: Method detection limit

*: Sample collected from upstream manhole

Table 5
The Port Authority of New York and New Jersey
Stewart International Airport
December 2016 Outfall Sampling Summary of Results - Perfluorinated Compounds

Sample ID		Stream #7		Stream #8		Stream #9		Stream #10	
Sampling Date		12/12/2016		12/12/2016		12/12/2016		12/12/2016	
Sample Matrix		Water		Water		Water		Water	
Perfluorinated Compounds (PFCs)	Unit	Result	RL	Result	RL	Result	RL	Result	RL
Perfluorooctanoic acid (PFOA)	ng/L	2.2	2.0	2.1	2.0	2.6	2.0	12	2.0
Perfluorooctanesulfonic acid (PFOS)	ng/L	5.1	2.0	4.1	2.0	1.7 J	2.0	9.0	2.0
Perfluorohexanesulfonic acid (PFHxS)	ng/L	1.3 J	2.0	1.3 J	2.0	1.3 J	2.0	6.6	2.0
PFOA + PFOS	ng/L	7.3	NA	6.2	NA	4.3	NA	21	NA

Notes:

Bold: Indicates the concentration exceeds the EPA Health Advisory for PFOA and/or PFOS (70 ng/L)

ng/L: Nanograms per liter

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND: Not detected

NA: Not applicable

RL: Reporting limit

MDL: Method detection limit

*: Sample collected from upstream manhole

Table 6
The Port Authority of New York and New Jersey
Stewart International Airport
Summary of Results of Dry Weather and Investigative Sampling - November and December 2016
Perfluorinated Compounds

Sample ID	Outfall 001		Outfall 002		Outfall 003		Outfall 003 - Upstream Manhole				
Sampling Date	11/22/2016		11/22/2016		11/22/2016		11/22/2016		12/12/2016		
Sample Matrix	Water		Water		Water		Water		Water		
Estimated Flow (gpm)	0.1		0.4		0.3		NA		NA		
Perfluorinated Compounds (PFCs)	Unit	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Perfluorooctanoic acid (PFOA)	ng/L	580	19	63	1.8	16	1.9	140	2.0	300	2.0
Perfluorooctanesulfonic acid (PFOS)	ng/L	7.1	1.9	140	1.8	37	1.9	1,500	20	3,300	39
Perfluorohexanesulfonic acid (PFHxS)	ng/L	4.7	1.9	120	1.8	28	1.9	630	20	1,300	39
Perfluorobutanesulfonic acid (PFBS)	ng/L	2.0	1.9	15	1.8	4.9	1.9	91	2.0	NA	NA
Perfluoroheptanoic acid (PFHpA)	ng/L	1300	19	19	1.8	17	1.9	240	2.0	NA	NA
Perfluorononanoic acid (PFNA)	ng/L	96	1.9	7	1.8	2.2	1.9	29	2.0	NA	NA
PFOA + PFOS	ng/L	587.1	NA	203	NA	53	NA	1,640	NA	3,600	NA

Notes:

Bold: Indicates the concentration exceeds the EPA Health Advisory for PFOA and/or PFOS (70 ng/L)

ng/L: Nanograms per liter

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND: Not detected

NA: Not applicable

RL: Reporting limit

MDL: Method detection limit

gpm: Gallons per minute

Table 6
The Port Authority of New York and New Jersey
Stewart International Airport
Summary of Results of Dry Weather and Investigative Sampling - November and December 2016
Perfluorinated Compounds

Sample ID	Outfall 004		Outfall 005		Outfall 006		Outfall 007		Outfall 008		
Sampling Date	11/22/2016		11/22/2016		11/22/2016		11/22/2016		11/22/2016		
Sample Matrix	Water		Water		Water		Water		Water		
Estimated Flow (gpm)	0.1		0.3		0.1		0.1		0.1		
Perfluorinated Compounds (PFCs)	Unit	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Perfluorooctanoic acid (PFOA)	ng/L	11	1.9	4.5	1.9	82	1.9	9.3	2.0	35	2.0
Perfluorooctanesulfonic acid (PFOS)	ng/L	4.7	1.9	5.4	1.9	15	1.9	130	2.0	340	2.0
Perfluorohexanesulfonic acid (PFHxS)	ng/L	8.8	1.9	29	1.9	75	1.9	100	2.0	160	2.0
Perfluorobutanesulfonic acid (PFBS)	ng/L	1.4 J	1.9	3.4	1.9	7.7	1.9	8.6	2.0	24	2.0
Perfluoroheptanoic acid (PFHpA)	ng/L	2.8	1.9	3.0	1.9	11	1.9	7.7	2.0	21	2.0
Perfluorononanoic acid (PFNA)	ng/L	1.2 J	1.9	0.63 J	1.9	2.1	1.9	1.1 J	2.0	4.3	2.0
PFOA + PFOS	ng/L	15.7	NA	9.9	NA	97	NA	139.3	NA	375	NA

Notes:

Bold: Indicates the concentration exceeds the EPA Health Advisory for PFOA and/or PFOS (70 ng/L)

ng/L: Nanograms per liter

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND: Not detected

NA: Not applicable

RL: Reporting limit

MDL: Method detection limit

gpm: Gallons per minute

Table 6
The Port Authority of New York and New Jersey
Stewart International Airport
Summary of Results of Dry Weather and Investigative Sampling - November and December 2016
Perfluorinated Compounds

Sample ID	Outfall 009		Outfall 010		Outfall 010 - Upstream Manhole		Outfall 011		
Sampling Date	11/22/2016		11/22/2016		11/22/2016		11/22/2016		
Sample Matrix	Water		Water		Water		Water		
Estimated Flow (gpm)	0.05		No Flow/Stagnant Pond		NA		0.1		
Perfluorinated Compounds (PFCs)	Unit	Result	RL	Result	RL	Result	RL	Result	RL
Perfluorooctanoic acid (PFOA)	ng/L	21	1.9	490	19	100	1.9	6.1	1.9
Perfluorooctanesulfonic acid (PFOS)	ng/L	94	1.9	8,900	190	1,800	19	5.7	1.9
Perfluorohexanesulfonic acid (PFHxS)	ng/L	65	1.9	3,100	19	820	19	22	1.9
Perfluorobutanesulfonic acid (PFBS)	ng/L	13	1.9	420	19	84	1.9	2.2	1.9
Perfluoroheptanoic acid (PFHpA)	ng/L	9.7	1.9	180	1.9	42	1.9	4.5	1.9
Perfluorononanoic acid (PFNA)	ng/L	0.79 J	1.9	40	1.9	8.2	1.9	ND	1.9
PFOA + PFOS	ng/L	115	NA	9,390	NA	1,900	NA	11.8	NA

Notes:

Bold: Indicates the concentration exceeds the EPA Health Advisory for PFOA and/or PFOS (70 ng/L)

ng/L: Nanograms per liter

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND: Not detected

NA: Not applicable

RL: Reporting limit

MDL: Method detection limit

gpm: Gallons per minute

Table 6
The Port Authority of New York and New Jersey
Stewart International Airport
Summary of Results of Dry Weather and Investigative Sampling - November and December 2016
Perfluorinated Compounds

Sample ID	Outfall 012		Outfall 013		Outfall 014		Outfall 015		
Sampling Date	11/22/2016		11/22/2016		11/22/2016		11/22/2016		
Sample Matrix	Water		Water		Water		Water		
Estimated Flow (gpm)	0.2		0.3		0.3		No Flow/Stagnant Pond		
Perfluorinated Compounds (PFCs)	Unit	Result	RL	Result	RL	Result	RL	Result	RL
Perfluorooctanoic acid (PFOA)	ng/L	91	1.9	52	1.9	130	1.8	58	1.9
Perfluorooctanesulfonic acid (PFOS)	ng/L	610	19	150	1.9	970	18	9.5	1.9
Perfluorohexanesulfonic acid (PFHxS)	ng/L	240	1.9	210	1.9	310	1.8	4.9	1.9
Perfluorobutanesulfonic acid (PFBS)	ng/L	17	1.9	41	1.9	49	1.8	2.1	1.9
Perfluoroheptanoic acid (PFHpA)	ng/L	150	1.9	29	1.9	140	1.8	84	1.9
Perfluorononanoic acid (PFNA)	ng/L	30	1.9	4.2	1.9	18	1.8	8.1	1.9
PFOA + PFOS	ng/L	701	NA	202	NA	1,100	NA	67.5	NA

Notes:

Bold: Indicates the concentration exceeds the EPA Health Advisory for PFOA and/or PFOS (70 ng/L)

ng/L: Nanograms per liter

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND: Not detected

NA: Not applicable

RL: Reporting limit

MDL: Method detection limit

gpm: Gallons per minute

Table 6
The Port Authority of New York and New Jersey
Stewart International Airport
Summary of Results of Dry Weather and Investigative Sampling - November and December 2016
Perfluorinated Compounds

Sample ID	Manhole #1		Manhole #2		Manhole #3		Manhole #4		
Sampling Date	12/12/2016		12/12/2016		12/12/2016		12/12/2016		
Sample Matrix	Water		Water		Water		Water		
Estimated Flow (gpm)	NA		NA		NA		NA		
Perfluorinated Compounds (PFCs)	Unit	Result	RL	Result	RL	Result	RL	Result	RL
Perfluorooctanoic acid (PFOA)	ng/L	1.4 J	2.0	4.9	2.0	62	2.4	15	2.2
Perfluorooctanesulfonic acid (PFOS)	ng/L	11	2.0	49	2.0	530	12	54	2.2
Perfluorohexanesulfonic acid (PFHxS)	ng/L	2.5	2.0	36	2.0	140	2.4	34	2.2
Perfluorobutanesulfonic acid (PFBS)	ng/L	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	ng/L	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	ng/L	NA	NA	NA	NA	NA	NA	NA	NA
PFOA + PFOS	ng/L	12.4	NA	53.9	NA	592	NA	69	NA

Notes:

Bold: Indicates the concentration exceeds the EPA Health Advisory for PFOA and/or PFOS (70 ng/L)

ng/L: Nanograms per liter

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND: Not detected

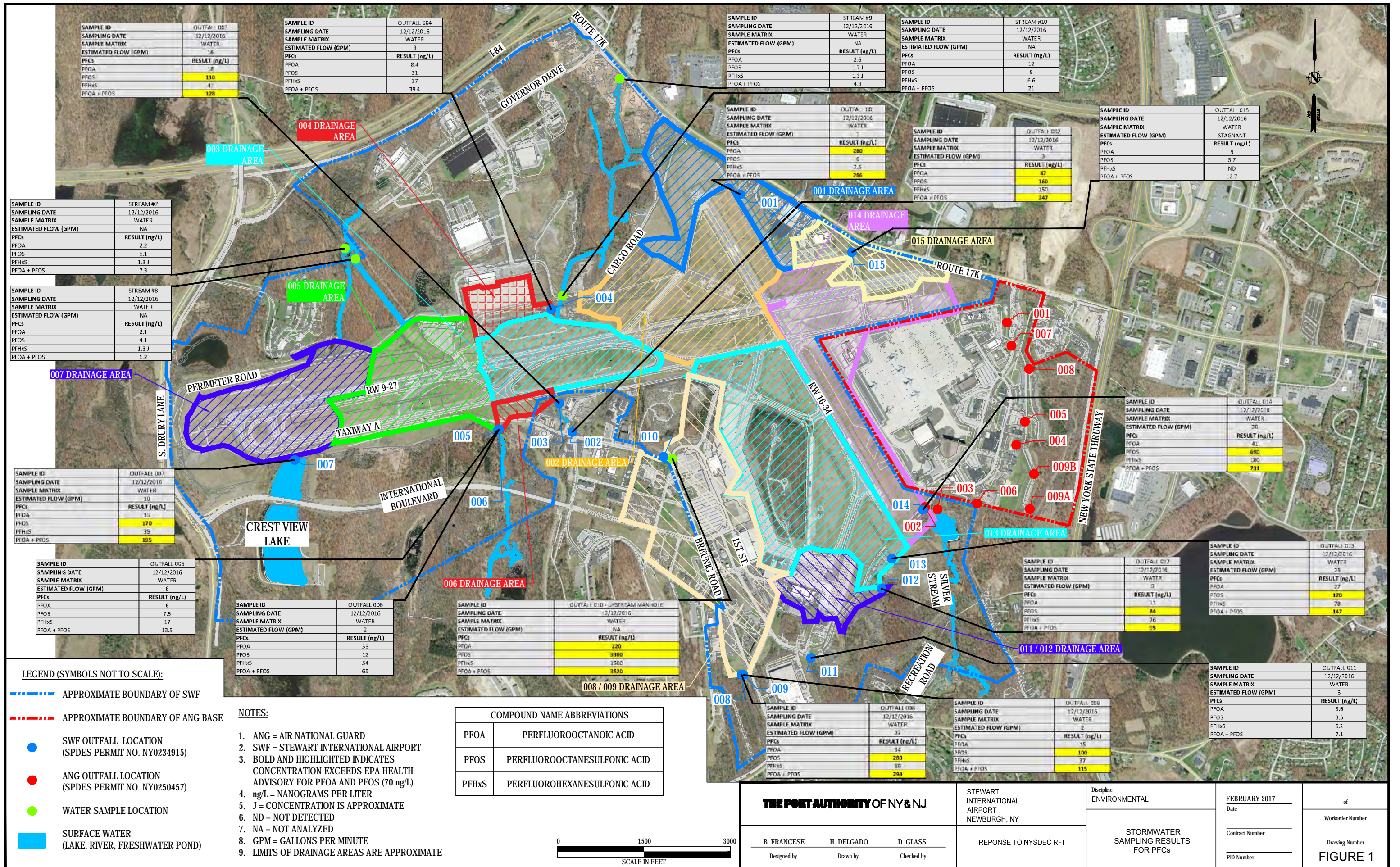
NA: Not applicable

RL: Reporting limit

MDL: Method detection limit

gpm: Gallons per minute

Figures



SAMPLE ID	OUTFALL 003
SAMPLING DATE	12/12/2016
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	16
PFCs	RESULT (ng/L)
PFOA	18
PFOS	110
PFHxS	41
PFOA + PFOS	128

SAMPLE ID	OUTFALL 004
SAMPLING DATE	12/12/2016
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	3
PFCs	RESULT (ng/L)
PFOA	8.4
PFOS	31
PFHxS	17
PFOA + PFOS	39.4

SAMPLE ID	STREAM #9
SAMPLING DATE	12/12/2016
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	NA
PFCs	RESULT (ng/L)
PFOA	2.6
PFOS	1.7 J
PFHxS	1.3 J
PFOA + PFOS	4.3

SAMPLE ID	STREAM #10
SAMPLING DATE	12/12/2016
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	NA
PFCs	RESULT (ng/L)
PFOA	12
PFOS	9
PFHxS	6.6
PFOA + PFOS	21

SAMPLE ID	OUTFALL 015
SAMPLING DATE	12/12/2016
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	STAGNANT
PFCs	RESULT (ng/L)
PFOA	9
PFOS	3.7
PFHxS	ND
PFOA + PFOS	12.7

SAMPLE ID	OUTFALL 001
SAMPLING DATE	12/12/2016
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	3
PFCs	RESULT (ng/L)
PFOA	260
PFOS	6
PFHxS	2.5
PFOA + PFOS	266

SAMPLE ID	OUTFALL 002
SAMPLING DATE	12/12/2016
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	3
PFCs	RESULT (ng/L)
PFOA	87
PFOS	160
PFHxS	150
PFOA + PFOS	247

SAMPLE ID	STREAM #7
SAMPLING DATE	12/12/2016
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	NA
PFCs	RESULT (ng/L)
PFOA	2.2
PFOS	5.1
PFHxS	1.3 J
PFOA + PFOS	7.3

SAMPLE ID	STREAM #8
SAMPLING DATE	12/12/2016
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	NA
PFCs	RESULT (ng/L)
PFOA	2.1
PFOS	4.1
PFHxS	1.3 J
PFOA + PFOS	6.2

SAMPLE ID	OUTFALL 007
SAMPLING DATE	12/12/2016
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	10
PFCs	RESULT (ng/L)
PFOA	15
PFOS	170
PFHxS	39
PFOA + PFOS	185

SAMPLE ID	OUTFALL 005
SAMPLING DATE	12/12/2016
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	8
PFCs	RESULT (ng/L)
PFOA	6
PFOS	7.5
PFHxS	17
PFOA + PFOS	13.5

SAMPLE ID	OUTFALL 006
SAMPLING DATE	12/12/2016
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	2
PFCs	RESULT (ng/L)
PFOA	53
PFOS	12
PFHxS	54
PFOA + PFOS	65

SAMPLE ID	OUTFALL 010 - UPSTREAM MANHOLE
SAMPLING DATE	12/12/2016
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	NA
PFCs	RESULT (ng/L)
PFOA	220
PFOS	3300
PFHxS	1500
PFOA + PFOS	3520

SAMPLE ID	OUTFALL 014
SAMPLING DATE	12/12/2016
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	20
PFCs	RESULT (ng/L)
PFOA	1
PFOS	690
PFHxS	180
PFOA + PFOS	731

SAMPLE ID	OUTFALL 012
SAMPLING DATE	12/12/2016
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	3
PFCs	RESULT (ng/L)
PFOA	11
PFOS	84
PFHxS	26
PFOA + PFOS	95

SAMPLE ID	OUTFALL 013
SAMPLING DATE	12/12/2016
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	25
PFCs	RESULT (ng/L)
PFOA	27
PFOS	120
PFHxS	78
PFOA + PFOS	147

SAMPLE ID	OUTFALL 011
SAMPLING DATE	12/12/2016
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	3
PFCs	RESULT (ng/L)
PFOA	3.6
PFOS	3.5
PFHxS	5.2
PFOA + PFOS	7.1

SAMPLE ID	OUTFALL 008
SAMPLING DATE	12/12/2016
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	37
PFCs	RESULT (ng/L)
PFOA	14
PFOS	280
PFHxS	89
PFOA + PFOS	294

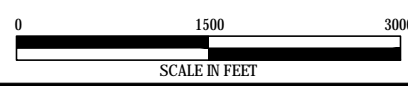
SAMPLE ID	OUTFALL 009
SAMPLING DATE	12/12/2016
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	2
PFCs	RESULT (ng/L)
PFOA	15
PFOS	100
PFHxS	37
PFOA + PFOS	115

LEGEND (SYMBOLS NOT TO SCALE):

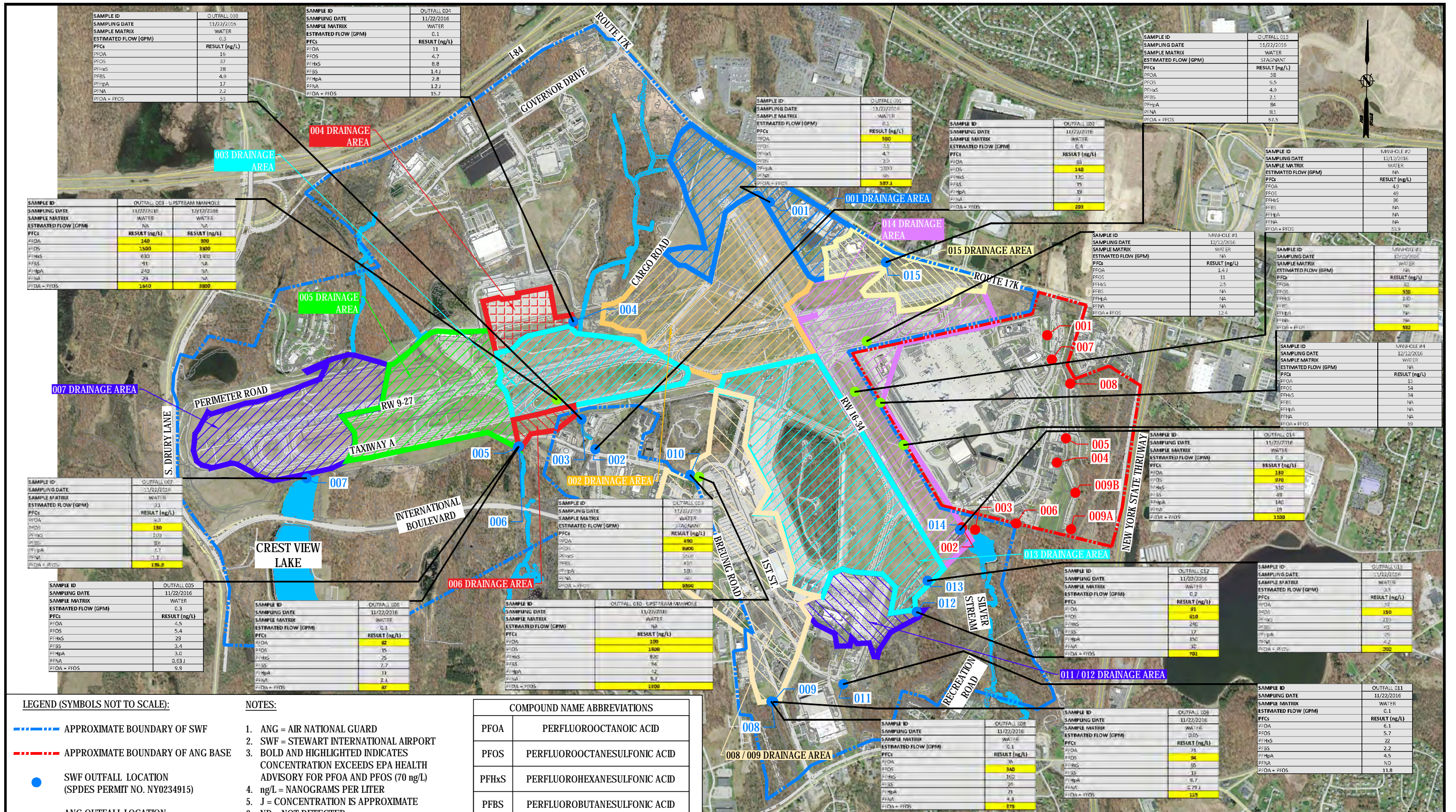
- APPROXIMATE BOUNDARY OF SWF
- APPROXIMATE BOUNDARY OF ANG BASE
- SWF OUTFALL LOCATION (SPDES PERMIT NO. NY0234915)
- ANG OUTFALL LOCATION (SPDES PERMIT NO. NY0250457)
- WATER SAMPLE LOCATION
- █ SURFACE WATER (LAKE, RIVER, FRESHWATER POND)

- NOTES:**
1. ANG = AIR NATIONAL GUARD
 2. SWF = STEWART INTERNATIONAL AIRPORT
 3. BOLD AND HIGHLIGHTED INDICATES CONCENTRATION EXCEEDS EPA HEALTH ADVISORY FOR PFOA AND PFOS (70 ng/L)
 4. ng/L = NANOGRAMS PER LITER
 5. J = CONCENTRATION IS APPROXIMATE
 6. ND = NOT DETECTED
 7. NA = NOT ANALYZED
 8. GPM = GALLONS PER MINUTE
 9. LIMITS OF DRAINAGE AREAS ARE APPROXIMATE

COMPOUND NAME ABBREVIATIONS	
PFOA	PERFLUOROCTANOIC ACID
PFOS	PERFLUOROCTANESULFONIC ACID
PFHxS	PERFLUOROHEXANESULFONIC ACID



THE PORT AUTHORITY OF NY & NJ	STEWART INTERNATIONAL AIRPORT NEWBURGH, NY	Discipline ENVIRONMENTAL	FEBRUARY 2017 Date	of
	REPOSE TO NYSDEC RFI	STORMWATER SAMPLING RESULTS FOR PFCs	Contract Number	Workorder Number
Designed by B. FRANSESE	Drawn by H. DELGADO	Checked by D. GLASS	PID Number	Drawing Number FIGURE 1



LEGEND (SYMBOLS NOT TO SCALE):

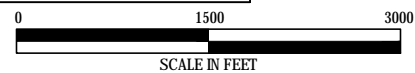
- APPROXIMATE BOUNDARY OF SWF
- APPROXIMATE BOUNDARY OF ANG BASE
- SWF OUTFALL LOCATION (SPDES PERMIT NO. NY0234915)
- ANG OUTFALL LOCATION (SPDES PERMIT NO. NY0250457)
- WATER SAMPLE LOCATION
- SURFACE WATER (LAKE, RIVER, FRESHWATER POND)

NOTES:

1. ANG = AIR NATIONAL GUARD
2. SWF = STEWART INTERNATIONAL AIRPORT
3. BOLD AND HIGHLIGHTED INDICATES CONCENTRATION EXCEEDS EPA HEALTH ADVISORY FOR PFOA AND PFOS (70 ng/L)
4. ng/L = NANOGRAMS PER LITER
5. J = CONCENTRATION IS APPROXIMATE
6. ND = NOT DETECTED
7. NA = NOT ANALYZED
8. GPM = GALLONS PER MINUTE
9. LIMITS OF DRAINAGE AREAS ARE APPROXIMATE

COMPOUND NAME ABBREVIATIONS

PFOA	PERFLUOROCTANOIC ACID
PFOS	PERFLUOROCTANESULFONIC ACID
PFHxS	PERFLUOROHXANESULFONIC ACID
PFBS	PERFLUOROBUTANESULFONIC ACID
PFHpA	PERFLUROHEPTANOIC ACID
PFNA	PERFLUORONONANOIC ACID



THE PORT AUTHORITY OF NY & NJ

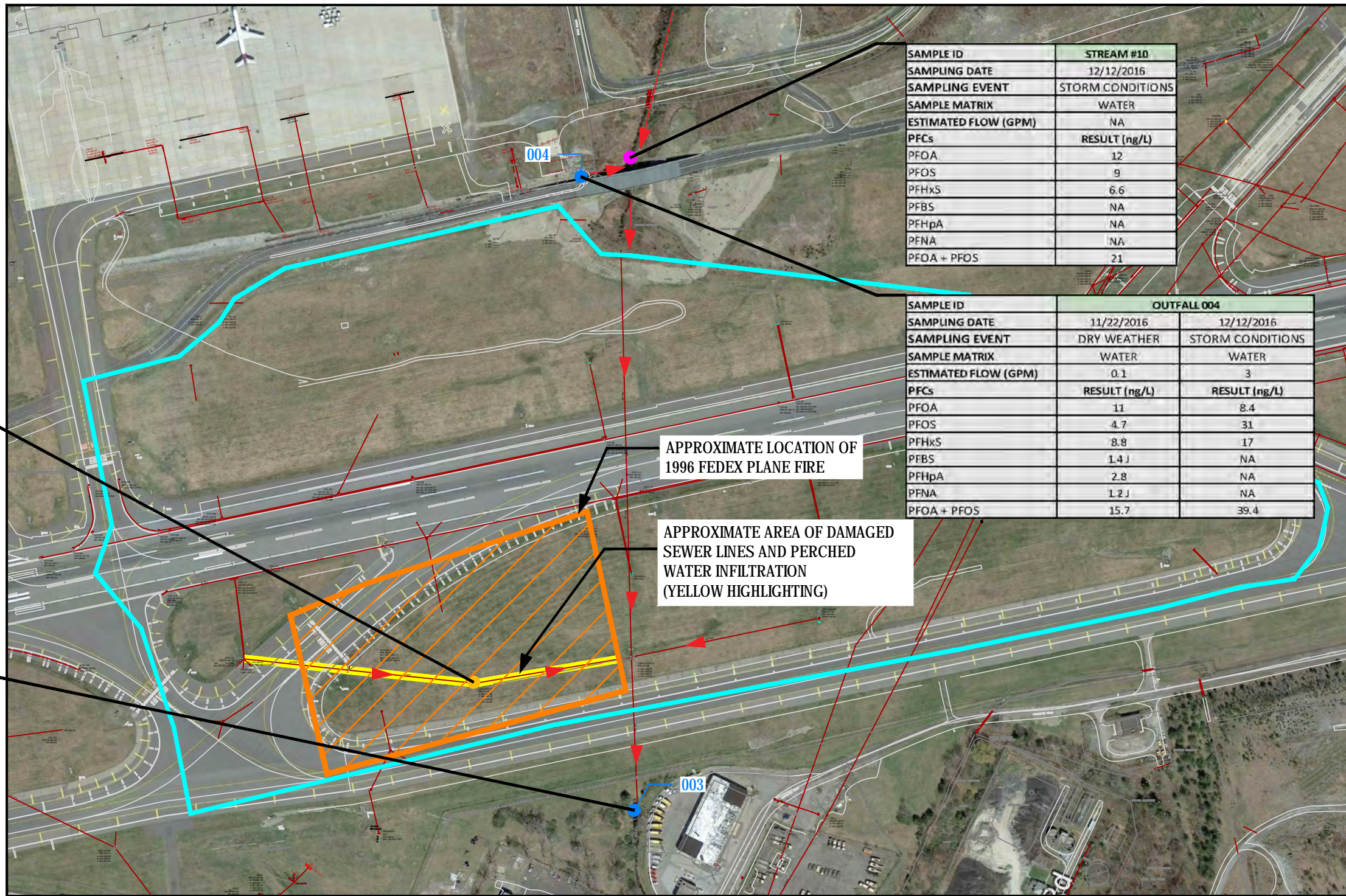
B. FRANCESE H. DELGADO D. GLASS
 Designed by Drawn by Checked by

STEWART INTERNATIONAL AIRPORT NEWBURGH, NY
 REPNSE TO NYSDEC RFI

Discipline ENVIRONMENTAL
 DRY WEATHER (11/22/16) AND INVESTIGATIVE (11/22/16 & 12/12/16) SAMPLING RESULTS FOR PFCs

FEBRUARY 2017
 Date
 Contract Number
 PID Number

of
 Workorder Number
 Drawing Number
FIGURE 2



SAMPLE ID	STREAM #10
SAMPLING DATE	12/12/2016
SAMPLING EVENT	STORM CONDITIONS
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	NA
PFCs	RESULT (ng/L)
PFOA	12
PFOS	9
PFHxS	6.6
PFBS	NA
PFHpA	NA
PFNA	NA
PFOA + PFOS	21

SAMPLE ID	OUTFALL 004	
SAMPLING DATE	11/22/2016	12/12/2016
SAMPLING EVENT	DRY WEATHER	STORM CONDITIONS
SAMPLE MATRIX	WATER	WATER
ESTIMATED FLOW (GPM)	0.1	3
PFCs	RESULT (ng/L)	RESULT (ng/L)
PFOA	11	8.4
PFOS	4.7	31
PFHxS	8.8	17
PFBS	1.4 J	NA
PFHpA	2.8	NA
PFNA	1.2 J	NA
PFOA + PFOS	15.7	39.4

SAMPLE ID	OUTFALL 003 - UPSTREAM MANHOLE	
SAMPLING DATE	11/22/2016	12/12/2016
SAMPLING EVENT	DRY WEATHER	STORM CONDITIONS
SAMPLE MATRIX	WATER	WATER
ESTIMATED FLOW (GPM)	NA	NA
PFCs	RESULT (ng/L)	RESULT (ng/L)
PFOA	140	300
PFOS	1500	3300
PFHxS	630	1300
PFBS	91	NA
PFHpA	240	NA
PFNA	29	NA
PFOA + PFOS	1640	3600

SAMPLE ID	OUTFALL 003	
SAMPLING DATE	11/22/2016	12/12/2016
SAMPLING EVENT	DRY WEATHER	STORM CONDITIONS
SAMPLE MATRIX	WATER	WATER
ESTIMATED FLOW (GPM)	0.3	16
PFCs	RESULT (ng/L)	RESULT (ng/L)
PFOA	16	18
PFOS	37	110
PFHxS	28	41
PFBS	4.9	NA
PFHpA	17	NA
PFNA	2.2	NA
PFOA + PFOS	53	128

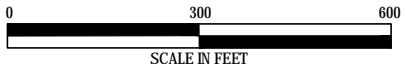
LEGEND (SYMBOLS NOT TO SCALE):

- SWF OUTFALL LOCATION (SPDES PERMIT NO. NY0234915)
- LOCATION OF SAMPLED MANHOLE UPSTREAM OF OUTFALL 003
- LOCATION OF STREAM SAMPLE
- STORM SEWER
- OUTFALL 003 DRAINAGE AREA LIMITS (APPROXIMATE)
- ▶ DIRECTION OF WATER FLOW

NOTES:

1. BOLD AND HIGHLIGHTED INDICATES CONCENTRATION EXCEEDS EPA HEALTH ADVISORY FOR PFOA AND/OR PFOS (70 ng/L)
2. ng/L = NANOGRAMS PER LITER
3. NA = NOT ANALYZED
4. GPM = GALLONS PER MINUTE

COMPOUND NAME ABBREVIATIONS	
PFOA	PERFLUOROCTANOIC ACID
PFOS	PERFLUOROCTANESULFONIC ACID
PFHxS	PERFLUROHEXANESULFONIC ACID
PFBS	PERFLUROBUTANESULFONIC ACID
PFHpA	PERFLUROHEPTANOIC ACID
PFNA	PERFLURONONANOIC ACID



NOTE: ALL STORM SEWERS MAY NOT BE SHOWN.

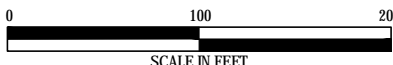
THE PORT AUTHORITY OF NY & NJ	STEWART INTERNATIONAL AIRPORT NEWBURGH, NY	Discipline ENVIRONMENTAL	FEBRUARY 2017 Date	of
	B. FRANCESE Designed by	H. DELGADO Drawn by	D. GLASS Checked by	REPNSE TO NYSDEC RFI
		ENLARGEMENT OF AREA OF OUTFALL 003 SHOWING IMPACT FROM LOCATION OF 1996 FEDEX PLANE FIRE	Contract Number	Workorder Number
			PID Number	Drawing Number
				FIGURE 3



EXISTING CONDITIONS AT OUTFALL 010
NOT TO SCALE



EXISTING CONDITIONS AT OUTFALL 010
NOT TO SCALE



SAMPLE ID	OUTFALL 010
SAMPLING DATE	11/22/2016
SAMPLING EVENT	DRY WEATHER
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	STAGNANT
PFCs	RESULT (ng/L)
PFOA	490
PFOS	8900
PFHxS	3100
PFHpA	420
PFNA	40
PFOA + PFOS	9390

SAMPLE ID	OUTFALL 010 - UPSTREAM MANHOLE	
SAMPLING DATE	11/22/2016	12/12/2016
SAMPLING EVENT	DRY WEATHER	STORM CONDITIONS
SAMPLE MATRIX	WATER	WATER
ESTIMATED FLOW (GPM)	NA	NA
PFCs	RESULT (ng/L)	RESULT (ng/L)
PFOA	100	220
PFOS	1800	3300
PFHxS	820	1500
PFBS	84	NA
PFHpA	42	NA
PFNA	8.2	NA
PFOA + PFOS	1900	3520

LEGEND (SYMBOLS NOT TO SCALE):

- SWF OUTFALL LOCATION (SPDES PERMIT NO. NY0234915)
- LOCATION OF SAMPLED MANHOLE UPSTREAM OF OUTFALL 010
- STORM SEWER
- ▶ DIRECTION OF WATER FLOW

NOTES:

1. SWF = STEWART INTERNATIONAL AIRPORT
2. BOLD AND HIGHLIGHTED INDICATES CONCENTRATION EXCEEDS EPA HEALTH ADVISORY FOR PFOA AND/OR PFOS (70 ng/L)
3. ng/L = NANOGRAMS PER LITER
4. NA = NOT APPLICABLE/ANALYZED
5. GPM = GALLONS PER MINUTE

COMPOUND NAME ABBREVIATIONS	
PFOA	PERFLUOROCTANOIC ACID
PFOS	PERFLUOROCTANESULFONIC ACID
PFHxS	PERFLUROHEXANESULFONIC ACID
PFBS	PERFLUROBUTANESULFONIC ACID
PFHpA	PERFLUROHEPTANOIC ACID
PFNA	PERFLURONONANOIC ACID

NOTE: ALL STORM SEWERS MAY NOT BE SHOWN.

THE PORT AUTHORITY OF NY & NJ	STEWART INTERNATIONAL AIRPORT NEWBURGH, NY	Discipline ENVIRONMENTAL	FEBRUARY 2017 Date	of
	B. FRANCESE Designed by	H. DELGADO Drawn by	D. GLASS Checked by	Workorder Number
REPNSE TO NYSDEC RFI		ENLARGEMENT OF AREA OF OUTFALL 010	Contract Number	Drawing Number
			PID Number	FIGURE 4

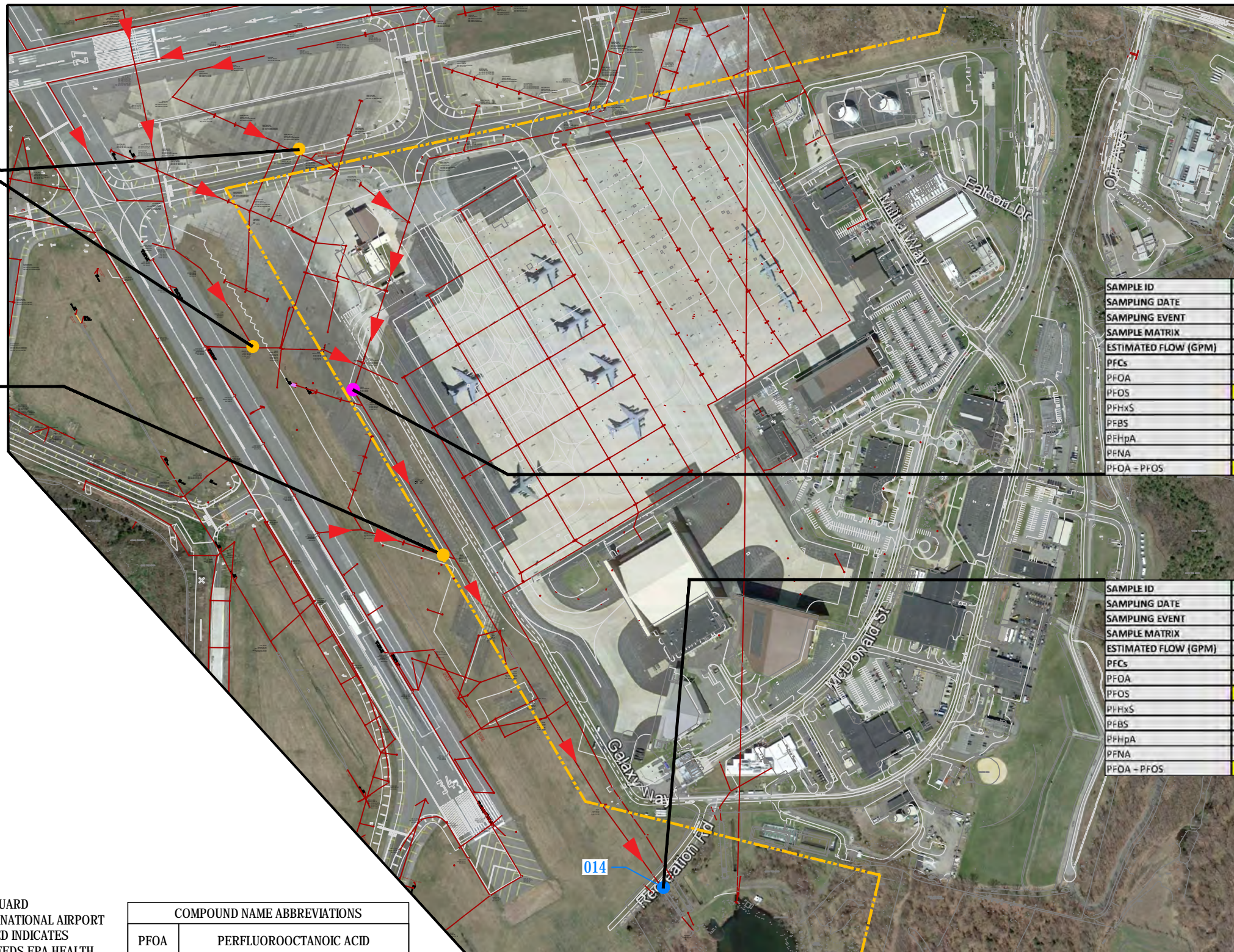
SAMPLE ID	MANHOLE #1
SAMPLING DATE	12/12/2016
SAMPLING EVENT	STORM CONDITIONS
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	NA
PFCs	RESULT (ng/L)
PFOA	1.4 J
PFOS	11
PFHxS	2.5
PFBS	NA
PFHpA	NA
PFNA	NA
PFOA + PFOS	12.4

SAMPLE ID	MANHOLE #2
SAMPLING DATE	12/12/2016
SAMPLING EVENT	STORM CONDITIONS
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	NA
PFCs	RESULT (ng/L)
PFOA	4.9
PFOS	.49
PFHxS	36
PFBS	NA
PFHpA	NA
PFNA	NA
PFOA + PFOS	53.9

SAMPLE ID	MANHOLE #4
SAMPLING DATE	12/12/2016
SAMPLING EVENT	STORM CONDITIONS
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	NA
PFCs	RESULT (ng/L)
PFOA	15
PFOS	54
PFHxS	34
PFBS	NA
PFHpA	NA
PFNA	NA
PFOA + PFOS	69

SAMPLE ID	MANHOLE #3
SAMPLING DATE	12/12/2016
SAMPLING EVENT	STORM CONDITIONS
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	NA
PFCs	RESULT (ng/L)
PFOA	62
PFOS	530
PFHxS	140
PFBS	NA
PFHpA	NA
PFNA	NA
PFOA + PFOS	592

SAMPLE ID	OUTFALL 014
SAMPLING DATE	12/12/2016
SAMPLING EVENT	STORM CONDITIONS
SAMPLE MATRIX	WATER
ESTIMATED FLOW (GPM)	20
PFCs	RESULT (ng/L)
PFOA	41
PFOS	690
PFHxS	180
PFBS	NA
PFHpA	NA
PFNA	NA
PFOA + PFOS	731



LEGEND (SYMBOLS NOT TO SCALE):

- APPROXIMATE SWF SITE BOUNDARY
- SWF OUTFALL LOCATION (SPDES PERMIT NO. NY0234915)
- SAMPLED MANHOLE REPRESENTATIVE OF SWF
- SAMPLED MANHOLE REPRESENTATIVE OF ANG BASE
- STORM SEWER SYSTEM
- ▶ DIRECTION OF WATER FLOW

NOTES:

1. ANG = AIR NATIONAL GUARD
2. SWF = STEWART INTERNATIONAL AIRPORT
3. BOLD AND HIGHLIGHTED INDICATES CONCENTRATION EXCEEDS EPA HEALTH ADVISORY FOR PFOA AND/OR PFOS (70 ng/L)
4. ng/L = NANOGRAMS PER LITER
5. J = CONCENTRATION IS APPROXIMATE
6. NA = NOT APPLICABLE/ANALYZED
7. GPM = GALLONS PER MINUTE

COMPOUND NAME ABBREVIATIONS	
PFOA	PERFLUOROCTANOIC ACID
PFOS	PERFLUOROCTANESULFONIC ACID
PFHxS	PERFLUROHEXANESULFONIC ACID
PFBS	PERFLUROBUTANESULFONIC ACID
PFHpA	PERFLUROHEPTANOIC ACID
PFNA	PERFLURONONANOIC ACID



NOTE: ALL STORM SEWERS MAY NOT BE SHOWN.

THE PORT AUTHORITY OF NY & NJ	STEWART INTERNATIONAL AIRPORT NEWBURGH, NY	Discipline ENVIRONMENTAL	FEBRUARY 2017 Date	of
	B. FRANSESE Designed by	H. DELGADO Drawn by	D. GLASS Checked by	REPNSE TO NYSDEC RFI
		ENLARGEMENT OF AREA OF OUTFALL 014	Contract Number	Workorder Number
			PID Number	Drawing Number
				FIGURE 5

NYSDEC Application Form NY-2C

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section I - Permittee and Facility Information

Please type or print the requested information.

1. Current Permit Information (leave blank if for new discharge)

SPDES Number: NY 0234915	DEC Number: 3-3346-00142/00001
--------------------------	--------------------------------

2. Permit Action Requested: (Check applicable box)

A NEW proposed discharge
 An EBPS INFORMATION REQUEST response
 A RENEWAL of an existing SPDES permit
 A MODIFICATION of the existing permit
 An EXISTING discharge currently without permit

Does this request include an increase in the quantity of water discharged from your facility to the waters of the State?

YES - Describe the increase:
 NO - Go to Item 3. below.

3. Permittee Name and Address

Name THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY		Attention MARC HELMAN	
Street Address 4 WORLD TRADE CENTER, 150 GREENWICH STREET, 20TH FLOOR			
City or Village NEW YORK	State NY	ZIP Code	10007

4. Facility Name, Address and Location

Name STEWART INTERNATIONAL AIRPORT			
Street Address 1180 FIRST STREET		P.O. Box	
City or Village	State NY	ZIP Code	12553
Town NEW WINDSOR	County ORANGE		
Telephone 845-838-8229	FAX 845-567-4873	NYTM - E	NYTM - N
Tax Map Info (New York City, Nassau County and Suffolk County only)			
Section	Block	Subblock	Lot

5. Facility Contact Person

Name OSCAR HOLLENBECK		Title CHIEF OPERATING OFFICER	
Street Address 1180 FIRST STREET		P.O. Box	
City or Village NEW WINDSOR	State NY	ZIP Code	12553
Telephone 845-838-8225	FAX 845-567-0563	E-Mail or Internet OHOLLENBECK@SWFNY.COM	

6. Discharge Monitoring Report (DMR) Mailing Address

Mailing Name OSCAR HOLLENBECK			
Street Address 1180 FIRST STREET		P.O. Box	
City or Village NEW WINDSOR	State NY	ZIP Code	12553
Telephone 845-838-8225	FAX 845-567-0563	E-Mail or Internet OHOLLENBECK@SWFNY.COM	
Name and Title of person responsible for signing DMRs OSCAR HOLLENBECK, CHIEF OPERATING OFFICER		Signature <i>Marc Helman</i>	

for

**INDUSTRIAL APPLICATION FORM NY-2C
Section I - Permittee and Facility Information**

Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915
---	-----------------------------

7. Summarize the outfalls present at the facility:

Outfall Number	Receiving Water	Type of discharge
001	TRIBUTARY OF BEAVERDAM BROOK	STORMWATER, INDUSTRIAL ACTIVITY
002	TRIBUTARY OF BEAVERDAM LAKE	STORMWATER
003	TRIBUTARY OF BEAVERDAM LAKE	STORMWATER
004	TRIBUTARY OF BEAVERDAM BROOK	STORMWATER, INDUSTRIAL ACTIVITY
005	TRIBUTARY OF BEAVERDAM BROOK	STORMWATER, INDUSTRIAL ACTIVITY
006	TRIBUTARY OF BEAVERDAM LAKE	STORMWATER
007	CRESTVIEW LAKE; TRIBUTARY OF BEAVERDAM LAKE	STORMWATER
008	TRIBUTARY OF MOODNA CREEK	STORMWATER, INDUSTRIAL ACTIVITY
009	TRIBUTARY OF MOODNA CREEK	STORMWATER
010	TRIBUTARY OF MOODNA CREEK	STORMWATER

SEE ATTACHED PAGE FOR ADDITIONAL OUTFALLS

8. Map of Facility and Discharge Locations:

Provide a detailed map showing the location of the facility, all buildings or structures present, wastewater discharge systems, outfall locations into receiving waters, nearby surface water bodies, water supply wells, and groundwater monitoring wells, and attach it to this application. Also submit proof, either by indication on the map or other documentation, that a right of way for the discharges exists from the facility property to a public right of way. SEE ATTACHED FIGURE "STORM WATER TESTING SAMPLING POINTS"

9. Water Flow Diagram:

SEE ATTACHMENT 1

**INDUSTRIAL APPLICATION FORM NY-2C
Section I - Permittee and Facility Information**

Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915
--	-----------------------------

7. Summarize the outfalls present at the facility:

Outfall Number	Receiving Water	Type of discharge
011	TRIBUTARY OF MOODNA CREEK	STORMWATER, INDUSTRIAL ACTIVITY
012	TRIBUTARY OF MOODNA CREEK	STORMWATER
013	TRIBUTARY OF MOODNA CREEK	STORMWATER, INDUSTRIAL ACTIVITY
015	TRIBUTARY OF MOODNA CREEK	STORMWATER

8. Map of Facility and Discharge Locations:

Provide a detailed map showing the location of the facility, all buildings or structures present, wastewater discharge systems, outfall locations into receiving waters, nearby surface water bodies, water supply wells, and groundwater monitoring wells, and attach it to this application. Also submit proof, either by indication on the map or other documentation, that a right of way for the discharges exists from the facility property to a public right of way. SEE ATTACHED FIGURE "STORM WATER TESTING SAMPLING POINTS"

9. Water Flow Diagram:

SEE ATTACHMENT 1

**INDUSTRIAL APPLICATION FORM NY-2C
Section I - Permittee and Facility Information**

Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915
---	-------------------------------

10. Nature of business: (Describe the activities at the facility and the date(s) that operation(s) at the facility commenced)

INTERNATIONAL AIRPORT OWNED BY NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) AND OPERATED BY THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY SINCE 2007. AIRPORT OPERATED BY NATIONAL EXPRESS/SWF ACQUISITION, INC. FROM 2000-2007. NYSDOT OPERATED THE AIRPORT FROM 1979-2000. MTA OPERATED THE AIRPORT FROM 1969-1979. PRIOR TO 1969, THE AIRPORT WAS OPERATED AS A MILITARY BASE.

ACTIVITIES INCLUDE AIRPORT, TRANSPORTATION, INCLUDING FUELING, DEICING, MAINTENANCE OF AIRCRAFT AND GROUND EQUIPMENT.

11. List the 4-digit SIC codes which describe your facility in order of priority:

Priority 1 4 5 8 1	Description: AIRPORTS, FLYING FIELDS & SERVICES	Priority 3 	Description:
Priority 2 	Description:	Priority 4 	Description:

12. Is your facility a primary industry as listed in Table 1 of the instructions?

YES - Complete the following table.

NO - Go to Item 13. below.

Industrial Category	40 CFR		Industrial Category	40 CFR	
	Part	Subpart		Part	Subpart

13. Does this facility manufacture, handle, or discharge recombinant-DNA, pathogens, or other potentially infectious or dangerous organisms?

YES - Attach a detailed explanation to this application.

NO - Go to Item 14 below.

14. Is storm runoff or leachate from a material storage area discharged by your facility?

YES - Complete the following table, and show the location of the stockpile(s) and discharge point(s) on the diagram in Item 9.

NO - Go to Item 15 on the following page.

Size of area	Type(s) of material stored	Quantity of material stored	Runoff control devices

**INDUSTRIAL APPLICATION FORM NY-2C
Section I - Permittee and Facility Information**

Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915
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15. Facility Ownership: (Place an "X" in the appropriate box)

Corporate Sole Proprietorship Partnership Municipal State Federal Other

Are any of the discharges applied for in this application on Indian lands? Yes No

16. List information on any other environmental permits for this facility:

Issuing Agency	Permit Type	Permit Number	Permit Status		
			Active	Applied for	Inactive
TOWN OF NEW WINDSOR	INDUSTRIAL USE PERMIT	02-01/SD20	X		
NYSDEC	MAJOR OIL STORAGE FACILITY (MOSEF)	3-2801	X		

17. Laboratory Certification:


Were any of the analyses reported in Section III of this application performed by a contract laboratory or a consulting firm?

YES - Complete the following table.
 NO - Go to Item 18 below.

Name of laboratory or consulting firm	Address	Telephone (area code and number)	Pollutants analyzed
HAMPTON CLARKE	175 ROUTE 46 WEST, SUITE D FAIRFIELD, NJ 07004	(973) 244-9770	AMMONIA, BOD-5 DAY, COD, CYANIDE, GLYCOL, HARDNESS, NITRATE, NITRITE, OIL & GREASE, PHENOLS, PHOSPHORUS, METALS, SVOCs, VOCs, TDS, AND TSS
ENVIROTEST LABORATORIES INC.	315 FULLERTON AVENUE NEWBURGH, NY 12550	(845) 562-0890	ENTEROCOCCUS, TKN, SETTLEABLE SOLIDS, TOTAL COLIFORM, AND FECAL COLIFORM
ALS ENVIRONMENTAL	34 DOGWOOD LANE, MIDDLETOWN, PA 17057	(717) 944-5541	MERCURY
TEST AMERICA LABORATORIES, INC.	880 RIVERSIDE PARKWAY WEST SACRAMENTO, CA 95605	(916) 373-5600	PERFLUOROHEXANESULFONIC ACID (PFHxS), PERFLUOROCTANOIC ACID (PFOA), PERFLUOROCTANESULFONIC ACID (PFOS)

18. Certification

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 my 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.

Name and official title (type or print) MARC HELLMAN, SUPERVISOR P+GA		Date signed 15 Feb 2017
Signature 	Telephone number (212) 435-6112	FAX number (212) 435-6251

**INDUSTRIAL APPLICATION FORM NY-2C
Section I - Permittee and Facility Information**

Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915
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19. Industrial Chemical Survey (ICS)

Complete all information for those substances your facility has used, produced, stored, distributed, or otherwise disposed of in the past five (5) years at or above the threshold values listed in the instructions. Include substances manufactured at your facility, as well as any substances that you have reason to know or believe present in materials used or manufactured at your facility. Do not include chemicals used only in analytical laboratory work, or small quantities of routine household cleaning chemicals. Enter the name and CAS number for each of the chemicals listed in Tables 6-10 of the instructions, and the table number which lists the chemical. You may use ranges (e.g. 10-100 lbs., 100-1000 lbs., 1000-10000 lbs., etc.) to describe the quantities used on an annual basis as well as for the amount presently on hand. For those chemicals listed in Tables 6, 7, or 8 which are indicated as being potentially present in the discharge from one or more outfalls at the facility, indicate which outfalls may be affected in the appropriate column below, and include sampling results in Section III of this application for each of the potentially affected outfalls. Make additional copies of this sheet if necessary.

Name of Substance	Table	CAS Number	Average Annual Usage	Amount Now On Hand	Units (gallons, lbs, etc)	Purpose of Use (see codes in Table 2 of instructions)	Present in Discharge? (Outfall(s)?)
NO CHANGES							

This completes Section I of the SPDES Industrial Application Form NY-2C. Section II, which requires specific information for each of the outfalls at your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915
--	--------------------------

1. Outfall Number and Location

Outfall No.: 001		
Latitude 41 ° 30 ' 41"	Longitude 74 ° 05 ' 55"	Receiving Water TRIBUTARY OF BEAVERDAM BROOK

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water	1		X	
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):									
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above:

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process STORMWATER	Category	Quantity per day	Units of measure
	Subcategory	1,440	GALLONS
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 525,600 GAL. MG	b. Daily Minimum Flow 770 GPD MGD	c. Daily Average Flow 1,440 GPD MGD	d. Daily Maximum Flow 1,440 GPD MGD	e. Maximum Design flow rate UNKNOWN MGD
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**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 001
Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply			MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)	STORMWATER		MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

- In the streambank:
- In the stream:
- Within a lake or ponded water:
- Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.
- Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located?

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions:

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached?
Feet	Feet	Feet/Sec	<input type="checkbox"/> YES
			<input checked="" type="checkbox"/> NO

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: STEWART INTERNATIONAL AIRPORT	Outfall No.: 001 <hr/> SPDES Number: NY 0234915
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11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

- YES** - Complete the following table. Treatment codes are listed in Table 4.
- NO** - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

- YES** - Complete the following table.
- NO** - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915
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1. Outfall Number and Location

Outfall No.: 002		
Latitude 41 ° 30 ' 00"	Longitude 74 ° 06 ' 34"	Receiving Water TRIBUTARY OF BEAVERDAM LAKE

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water	2.5*		X	
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):									
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above:

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process STORMWATER	Category	Quantity per day	Units of measure
	Subcategory	3,600*	GALLONS
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 766,500 GAL* MG	b. Daily Minimum Flow 770 GAL* MGD	c. Daily Average Flow 2,100 GAL* MGD	d. Daily Maximum Flow 4,320 GAL* MGD	e. Maximum Design flow rate UNKNOWN MGD
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*FLOWS ARE BEST ESTIMATES BASED ON LIMITED MONITORING AND FIELD OBSERVATION DATA.

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 002
Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply			MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)	STORMWATER		MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

- In the streambank:
- In the stream:
- Within a lake or ponded water:
- Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.
- Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located?

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions:

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached?
Feet	Feet	Feet/Sec	<input type="checkbox"/> YES
			<input checked="" type="checkbox"/> NO

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: STEWART INTERNATIONAL AIRPORT	Outfall No.: 002 <hr/> SPDES Number: NY 0234915
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11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

YES - Complete the following table. Treatment codes are listed in Table 4.

NO - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

YES - Complete the following table.

NO - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915
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1. Outfall Number and Location

Outfall No.: 003		
Latitude 41 ° 30 ' 05"	Longitude 74 ° 06 ' 37"	Receiving Water TRIBUTARY OF BEAVERDAM LAKE

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water	16*		X	
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):									
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above:

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process STORMWATER	Category	Quantity per day	Units of measure
	Subcategory	23,040*	GALLONS
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 4,015,000 GAL* MG	b. Daily Minimum Flow 770 GAL* MGD	c. Daily Average Flow 11,000 GAL* MGD	d. Daily Maximum Flow 23,040 GAL* MGD	e. Maximum Design flow rate UNKNOWN MGD
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*FLOWS ARE BEST ESTIMATES BASED ON LIMITED MONITORING AND FIELD OBSERVATION DATA.

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 003
Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply			MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)	STORMWATER		MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

- In the streambank:
- In the stream:
- Within a lake or ponded water:
- Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.
- Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located?

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions:

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached?
7 Feet	1 Feet	UNKNOWN Feet/Sec	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: STEWART INTERNATIONAL AIRPORT	Outfall No.: 003 <hr/> SPDES Number: NY 0234915
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11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

YES - Complete the following table. Treatment codes are listed in Table 4.

NO - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

YES - Complete the following table.

NO - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915
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1. Outfall Number and Location

Outfall No.: 004		
Latitude 41 ° 30 ‘ 22“	Longitude 74 ° 06 ‘ 40“	Receiving Water TRIBUTARY OF BEAVERDAM BROOK

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water	2.7		X	
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):									
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above:

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process STORMWATER	Category	Quantity per day	Units of measure
	Subcategory	3,870	GALLONS
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 1,412,550 GAL. MG	b. Daily Minimum Flow 1,440 GPD MGD	c. Daily Average Flow 3,870 GPD MGD	d. Daily Maximum Flow 28,800 GPD MGD	e. Maximum Design flow rate UNKNOWN MGD
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**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 004
Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply			MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)	STORMWATER		MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

In the streambank:

In the stream:

Within a lake or ponded water:

Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.

Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located?

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions:

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Feet	Feet	Feet/Sec	

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: STEWART INTERNATIONAL AIRPORT	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Outfall No.:</td> <td style="padding: 2px;">004</td> </tr> <tr> <td style="padding: 2px;">SPDES Number:</td> <td style="padding: 2px;">NY 0234915</td> </tr> </table>	Outfall No.:	004	SPDES Number:	NY 0234915
Outfall No.:	004				
SPDES Number:	NY 0234915				

11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

YES - Complete the following table. Treatment codes are listed in Table 4.

NO - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

YES - Complete the following table.

NO - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915
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1. Outfall Number and Location

Outfall No.: 005		
Latitude 41 ° 30 ‘ 01 “	Longitude 74 ° 06 ‘ 51 “	Receiving Water TRIBUTARY OF BEAVERDAM BROOK

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water	24.8		X	
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):									
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above:

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process STORMWATER	Category	Quantity per day 35,700	Units of measure GALLONS
	Subcategory		
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 13,030,500 GAL. MG	b. Daily Minimum Flow 14,400 GPD MGD	c. Daily Average Flow 35,700 GPD MGD	d. Daily Maximum Flow 86,400 GPD MGD	e. Maximum Design flow rate UNKNOWN MGD
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**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 005
Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply			MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)	STORMWATER		MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

- In the streambank:
- In the stream:
- Within a lake or ponded water:
- Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.
- Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located?

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions:

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached?
4 Feet	1 Feet	UNKNOWN Feet/Sec	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Section II - Outfall Information

Outfall No.: 005
SPDES Number: NY 0234915

Facility Name: STEWART INTERNATIONAL AIRPORT

8. Thermal Discharge Criteria

Is your facility one of the applicable types of facilities listed in the instructions, and does the temperature of this discharge exceed the receiving water temperature by greater than three (3) degrees Fahrenheit?

YES - Complete the following table.

Information on the intake and discharge configuration of this outfall is attached.

NO - Go to Item 9. below.

Discharge Temperature, deg. F			Duration of maximum discharge temperature		Dates of maximum discharge temperature		Maximum flow rate	Discharge configuration (e.g. subsurface, surface, effluent diffuser, diffusion well, etc.)
Average change in temperature (delta T)	Maximum change in temperature (delta T)	Maximum temperature	hours per day	days per year	From	To		
							MGD	

9. Are any water treatment chemicals or additives that are used by your facility subsequently discharged through this outfall?

YES - Complete the following table and complete pages 1 of 3 and 2 of 3 of Form WTCFX for each water treatment chemical listed.

NO - Go to Item 10. below.

Manufacturer	WTC trade name	Manufacturer	WTC trade name

10. Has any biological test for acute or chronic toxicity been performed on this outfall or on the receiving water in relation to this outfall in the past three (3) years?

YES - Complete the following table.

NO - Go to Item 11. on the following page.

Water tested	Purpose of test	Type of test	Chronic or Acute?	Subject species	Testing date(s)		Submitted? (Date)
					Start	Finish	

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: STEWART INTERNATIONAL AIRPORT	Outfall No.: 005 <hr/> SPDES Number: NY 0234915
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11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

- YES** - Complete the following table. Treatment codes are listed in Table 4.
- NO** - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

- YES** - Complete the following table.
- NO** - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915
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1. Outfall Number and Location

Outfall No.: 006		
Latitude 41 ° 30 ' 01"	Longitude 74 ° 06 ' 51"	Receiving Water TRIBUTARY OF BEAVERDAM LAKE

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water	13*		X	
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):									
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above:

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process STORMWATER	Category	Quantity per day	Units of measure
	Subcategory	18,720*	GALLONS
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 6,832,800 GAL* MG	b. Daily Minimum Flow 5,760 GAL* MGD	c. Daily Average Flow 18,720 GAL* MGD	d. Daily Maximum Flow 36,000 GAL* MGD	e. Maximum Design flow rate UNKNOWN MGD
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*FLOWS ARE BEST ESTIMATES BASED ON LIMITED MONITORING AND FIELD OBSERVATION DATA.

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 006
Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply			MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)	STORMWATER		MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

- In the streambank:
- In the stream:
- Within a lake or ponded water:
- Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.
- Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located?

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions:

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached?
4 Feet	1 Feet	UNKNOWN Feet/Sec	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: STEWART INTERNATIONAL AIRPORT	Outfall No.: 006
	SPDES Number: NY 0234915

11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

- YES** - Complete the following table. Treatment codes are listed in Table 4.
- NO** - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

- YES** - Complete the following table.
- NO** - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915
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1. Outfall Number and Location

Outfall No.: 007		
Latitude 41 ° 29 ' 56"	Longitude 74 ° 07 ' 38"	Receiving Water CRESTVIEW LAKE; TRIBUTARY OF BEAVERDAM LAKE

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water	10*		X	
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):									
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above:

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process STORMWATER	Category	Quantity per day	Units of measure
	Subcategory	14,400*	GALLONS
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 1,916,250 GAL* MG	b. Daily Minimum Flow 3,900 GAL* MGD	c. Daily Average Flow 5,250 GAL* MGD	d. Daily Maximum Flow 14,400 GAL* MGD	e. Maximum Design flow rate UNKNOWN MGD
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*FLOWS ARE BEST ESTIMATES BASED ON LIMITED MONITORING AND FIELD OBSERVATION DATA.

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 007
Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply			MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)	STORMWATER		MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

- In the streambank:
- In the stream:
- Within a lake or ponded water:
- Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.
- Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located?

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions:

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached?
7 Feet	1 Feet	UNKNOWN Feet/Sec	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: STEWART INTERNATIONAL AIRPORT	Outfall No.: 007
	SPDES Number: NY 0234915

11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

YES - Complete the following table. Treatment codes are listed in Table 4.

NO - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

YES - Complete the following table.

NO - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915
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1. Outfall Number and Location

Outfall No.: 008		
Latitude 41 ° 29 ‘ 19“	Longitude 74 ° 05 ‘ 56“	Receiving Water TRIBUTARY OF MOODNA CREEK

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water	11.5		X	
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):									
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above:

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process STORMWATER	Category	Quantity per day 16,560	Units of measure GALLONS
	Subcategory		
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 6,044,400 GAL. MG	b. Daily Minimum Flow 7,200 GPD MGD	c. Daily Average Flow 16,560 GPD MGD	d. Daily Maximum Flow 43,200 GPD MGD	e. Maximum Design flow rate UNKNOWN MGD
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**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 008
Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply			MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)	STORMWATER		MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

- In the streambank:
- In the stream:
- Within a lake or ponded water:
- Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.
- Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located?

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions:

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached?
7 Feet	1 Feet	UNKNOWN Feet/Sec	<input type="checkbox"/> YES
			<input checked="" type="checkbox"/> NO

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: STEWART INTERNATIONAL AIRPORT		Outfall No.: 008
		SPDES Number: NY 0234915

11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

- YES** - Complete the following table. Treatment codes are listed in Table 4.
- NO** - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)	
			Required	Projected

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

- YES** - Complete the following table.
- NO** - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

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State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915
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1. Outfall Number and Location

Outfall No.: 009		
Latitude 41 ° 29 ‘ 19“	Longitude 74 ° 05 ‘ 56“	Receiving Water TRIBUTARY OF MOODNA CREEK

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water	2*		X	
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):									
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above:

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process STORMWATER	Category	Quantity per day	Units of measure
	Subcategory	2,880*	GALLONS
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 456,250 GAL* MG	b. Daily Minimum Flow 385 GAL* MGD	c. Daily Average Flow 1,250 GAL* MGD	d. Daily Maximum Flow 2,880 GAL* MGD	e. Maximum Design flow rate UNKNOWN MGD
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*FLOWS ARE BEST ESTIMATES BASED ON LIMITED MONITORING AND FIELD OBSERVATION DATA.

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 009
Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply			MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)	STORMWATER		MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

- In the streambank:
- In the stream:
- Within a lake or ponded water:
- Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.
- Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located?

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions:

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached?
5 Feet	1 Feet	UNKNOWN Feet/Sec	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: STEWART INTERNATIONAL AIRPORT	Outfall No.: 009
	SPDES Number: NY 0234915

11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

YES - Complete the following table. Treatment codes are listed in Table 4.

NO - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

YES - Complete the following table.

NO - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915
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1. Outfall Number and Location

Outfall No.: 010		
Latitude 41 ° 29 ‘ 56“	Longitude 74 ° 06 ‘ 12“	Receiving Water TRIBUTARY OF MOODNA CREEK

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water	1.5*		X	
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):									
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above:

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process STORMWATER	Category	Quantity per day	Units of measure GALLONS
	Subcategory	2,160*	
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 456,250 GAL* MGD	b. Daily Minimum Flow 385 GAL* MGD	c. Daily Average Flow 1,250 GAL* MGD	d. Daily Maximum Flow 2,880 GAL* MGD	e. Maximum Design flow rate UNKNOWN MGD
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*FLOWS ARE BEST ESTIMATES BASED ON LIMITED MONITORING AND FIELD OBSERVATION DATA.

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 010
Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply			MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)	STORMWATER		MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

- In the streambank:
- In the stream:
- Within a lake or ponded water:
- Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.
- Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located?

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions:

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached?
Feet	Feet	Feet/Sec	<input type="checkbox"/> YES
			<input checked="" type="checkbox"/> NO

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: STEWART INTERNATIONAL AIRPORT	Outfall No.: 010
	SPDES Number: NY 0234915

11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

YES - Complete the following table. Treatment codes are listed in Table 4.

NO - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

YES - Complete the following table.

NO - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

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State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915
--	--------------------------

1. Outfall Number and Location

Outfall No.: 011		
Latitude 41 ° 29 ' 22"	Longitude 74 ° 05 ' 40"	Receiving Water TRIBUTARY OF MOODNA CREEK

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water	2.2		X	
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):									
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above:

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process STORMWATER	Category	Quantity per day 3,168	Units of measure GALLONS
	Subcategory		
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 1,156,320 GAL. MG	b. Daily Minimum Flow 1,440 GPD MGD	c. Daily Average Flow 3,168 GPD MGD	d. Daily Maximum Flow 14,400 GPD MGD	e. Maximum Design flow rate UNKNOWN MGD
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**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 011
Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply			MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)	STORMWATER		MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

In the streambank:

In the stream:

Within a lake or ponded water:

Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.

Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located?

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions:

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached?
3 Feet	1 Feet	UNKNOWN Feet/Sec	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: STEWART INTERNATIONAL AIRPORT	Outfall No.: 011 <hr/> SPDES Number: NY 0234915
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11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

- YES** - Complete the following table. Treatment codes are listed in Table 4.
- NO** - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

- YES** - Complete the following table.
- NO** - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915
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1. Outfall Number and Location

Outfall No.: 012		
Latitude 41 ° 29 ' 34"	Longitude 74 ° 05 ' 22"	Receiving Water TRIBUTARY OF MOODNA CREEK

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water	12*		X	
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):									
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above:

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process STORMWATER	Category	Quantity per day	Units of measure
	Subcategory	17,280*	GALLONS
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 6,307,200 GAL* MG	b. Daily Minimum Flow 2,880 GAL* MGD	c. Daily Average Flow 17,280 GAL* MGD	d. Daily Maximum Flow 144,000 GAL* MGD	e. Maximum Design flow rate UNKNOWN MGD
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*FLOWS ARE BEST ESTIMATES BASED ON LIMITED MONITORING AND FIELD OBSERVATION DATA.

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 012
Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply			MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)	STORMWATER		MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

- In the streambank:
- In the stream:
- Within a lake or ponded water:
- Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.
- Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located?

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions:

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached?
Feet	Feet	Feet/Sec	<input type="checkbox"/> YES
			<input checked="" type="checkbox"/> NO

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: STEWART INTERNATIONAL AIRPORT	Outfall No.: 012 <hr/> SPDES Number: NY 0234915
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11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

- YES** - Complete the following table. Treatment codes are listed in Table 4.
- NO** - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

- YES** - Complete the following table.
- NO** - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915
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1. Outfall Number and Location

Outfall No.: 013		
Latitude 41 ° 29 ' 39"	Longitude 74 ° 05 ' 22"	Receiving Water TRIBUTARY OF MOODNA CREEK

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water	22.4		X	
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):									
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above:

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process STORMWATER	Category	Quantity per day	Units of measure
	Subcategory	32,256	GALLONS
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 11,773,440 GAL. MG	b. Daily Minimum Flow 7,200 GPD MGD	c. Daily Average Flow 32,256 GPD MGD	d. Daily Maximum Flow 115,200 GPD MGD	e. Maximum Design flow rate UNKNOWN MGD
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**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 013
Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply			MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)	STORMWATER		MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

In the streambank:

In the stream:

Within a lake or ponded water:

Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.

Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located?

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions:

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached?
3 Feet	1 Feet	UNKNOWN Feet/Sec	<input type="checkbox"/> YES
			<input checked="" type="checkbox"/> NO

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: STEWART INTERNATIONAL AIRPORT	Outfall No.: 013 <hr/> SPDES Number: NY 0234915
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11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

- YES** - Complete the following table. Treatment codes are listed in Table 4.
- NO** - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

- YES** - Complete the following table.
- NO** - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915
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1. Outfall Number and Location

Outfall No.: 015		
Latitude 41 ° 30 ' 31"	Longitude 74 ° 05 ' 31"	Receiving Water TRIBUTARY OF MOODNA CREEK

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water	1*		X	
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):									
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above:

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process STORMWATER	Category	Quantity per day	Units of measure GALLONS
	Subcategory	770*	
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 525,600 GAL* MG	b. Daily Minimum Flow 770 GAL* MGD	c. Daily Average Flow 1,440 GAL* MGD	d. Daily Maximum Flow 1,440 GAL* MGD	e. Maximum Design flow rate UNKNOWN MGD
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*FLOWS ARE BEST ESTIMATES BASED ON LIMITED MONITORING AND FIELD OBSERVATION DATA.

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 015
Facility Name: STEWART INTERNATIONAL AIRPORT	SPDES Number: NY 0234915

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply			MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)	STORMWATER		MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

In the streambank:

In the stream:

Within a lake or ponded water:

Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.

Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located?

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions:

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Feet	Feet	Feet/Sec	

INDUSTRIAL APPLICATION FORM NY-2C Section III - Sampling Information

Facility Name:	SPDES No.:
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Outfall No.:

1. Sampling Information - Conventional Parameters

Provide the analytical results of at least one analysis for every pollutant in this table. If this outfall is subject to a waiver as listed in Table 5 of the instructions for one or more of the parameters listed below, provide the results for those parameters which are required for this type of outfall.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (using the same format) instead of completing this page.

Pollutant	Effluent data						Units		Intake data (optional)			
	a. Maximum daily value		b. Maximum 30 day value		c. Long term average		d. Number of analyses	a. Concentration	b. Mass	a. Long term average value		b. Number of analyses
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass				1. Concentration	2. Mass	
a. Biochemical Oxygen Demand, 5 day (BOD)												
b. Chemical Oxygen Demand (COD)												
c. Total Suspended Solids (TSS)												
d. Total Dissolved Solids (TDS)												
e. Oil & Grease	SEE ATTACHED TABLES 1-5											
f. Chlorine, Total Residual (TRC)												
g. Total Organic Nitrogen (TON)												
h. Ammonia (as N)												
i. Flow	Value		Value		Value					Value		
j. Temperature, winter	Value		Value		Value					Value		
k. Temperature, summer	Value		Value		Value					Value		
l. pH	Minimum	Maximum	Minimum	Maximum						Minimum	Maximum	

2. Sampling Information - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

a. Primary Industries:

i. Does the discharge from this outfall contain process wastewater? Yes - Go to Item ii. below.
 No - Go to Item b. below.

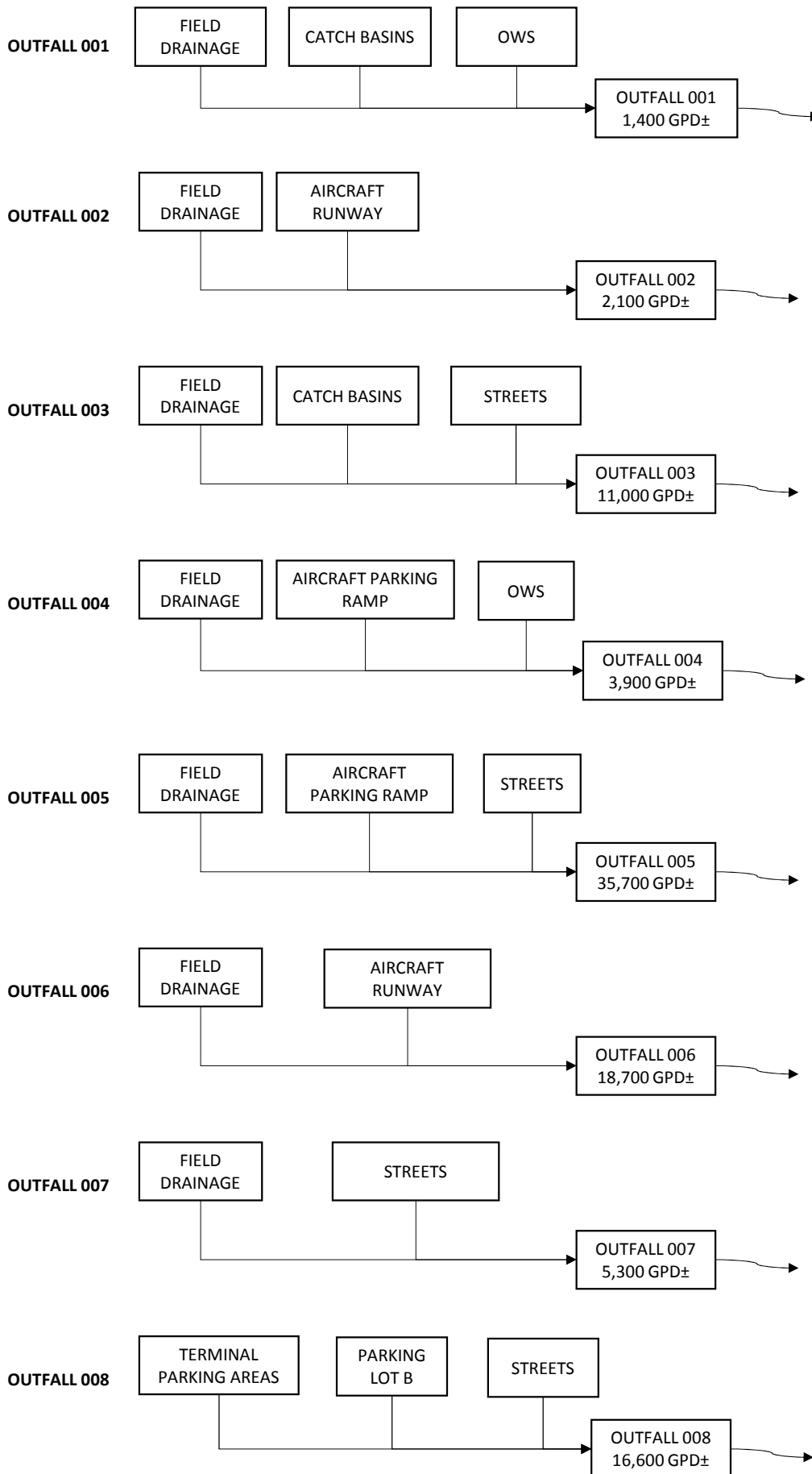
ii. Indicate which GC/MS fractions have been tested for: Volatiles: Acid: Base/Neutral: Pesticide:

b. All applicants:

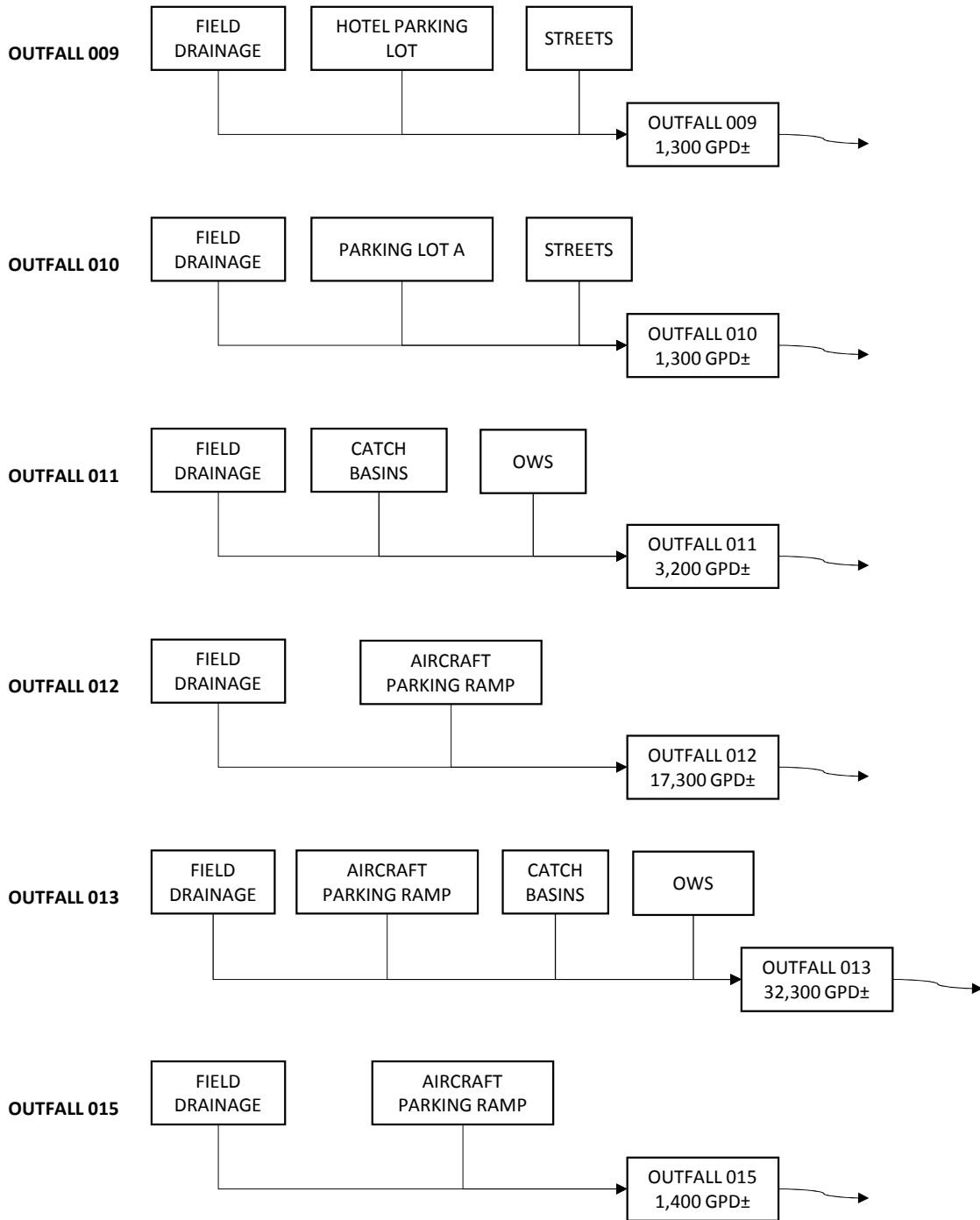
i. Do you know or have reason to believe that any of the pollutants listed in Tables 6, 7, or 8 of the instructions are present in the discharge from this outfall? Yes - Concentration and mass data attached.
 No - Go to Item ii. below.

ii. Do you know or have reason to believe that any of the pollutants listed in Table 9 or Table 10 of the instructions, or any other toxic, harmful, or injurious chemical substances not listed in Tables 6-10, are present in the discharge from this outfall? Yes - Source or reason for presence in discharge attached
 Yes - Quantitative or qualitative data attached
 No

ATTACHMENT 1 - STORMWATER FLOW DIAGRAM FOR STEWART INTERNATIONAL AIRPORT



ATTACHMENT 1 - STORMWATER FLOW DIAGRAM FOR STEWART INTERNATIONAL AIRPORT



Laboratory Data Packages

Project: Stewart Stormwater

Client PO: Not Available

Report To: PORT AUTHORITY OF NY & NJ
MATERIALS ENGINEERING DIV.
241 ERIE ST.
ROOM 234
JERSEY CITY, NJ 07310-1397

Attn: D.Bailey

Received Date: 12/13/2016

Report Date: 1/12/2017

Deliverables: NYDOH-CatA

Lab ID: AC95154

Lab Project No: 6121303

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 Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.



Robin Cousineau - Quality Assurance Director

OR

Jean Revolus - Laboratory Director

NJ (07071)
PA (68-00463)

NY (ELAP11408)
KY (90124)

CT (PH-0671)





**THIS CATEGORY "A" REPORT
IS NUMBERED FROM
1 to 222**

HC Case Narrative

Client: Port Authority of NY & NJ
Project: Stewart Stormwater

HC Project: 6121303

Hampton-Clarke (HC) received the following samples on 12/13/16:

<u>Client ID</u>	<u>HC Sample ID</u>	<u>Matrix</u>	<u>Analysis</u>
AC95154-001	Outfall 001	Aqueous	<p>Volatile Organics (624), Semi-Volatile Organics (625), Glycols (8015D), PP Metals (200.7 & 200.8), Mercury (1631)*, Hardness (200.7), Ammonia (SM4500-NH3B/C) 2, BOD-5 Day (SM5210 B-01), Cyanide (335.4), COD (HACH 8000), Fecal Coliform (SM9222D-97)*, Nitrite & Nitrate (300.0 rev 2.1), Oil & Grease (1664A), Phenols (420.1), Total Phosphorus (SM4500-PE 19), Settleable Solids (SM2540F-97)*, Bacteriological (ENTEROLERT)*, Total Coliform (SM9222B-97)*, Total Dissolved Solids (SM2540C-97), Total Kjeldahl Nitrogen (351)*, Total Suspended Solids (SM2540D-97)</p>
AC95154-002	Outfall 002	Aqueous	<p>Volatile Organics (624), Semi-Volatile Organics (625), Glycols (8015D), PP Metals (200.7 & 200.8), Mercury (1631)*, Hardness (200.7), Ammonia (SM4500-NH3BC), BOD-5 Day (SM5210 B-01), Cyanide (335.4), COD (HACH 8000), Fecal Coliform (SM9222D-97)*, Nitrite & Nitrate (300.0 rev 2.1), Oil & Grease (1664B), Phenols (420.1), Total Phosphorus (SM4500-PE 19), Settleable Solids (SM2540F-97)*, Bacteriological (ENTEROLERT)*, Total Coliform (SM9222B-97)*, Total Dissolved Solids (SM2540C-11), Total Kjeldahl Nitrogen (351)*, Total Suspended Solids (SM2540D-11)</p>
AC95154-003	Outfall 003	Aqueous	<p>Volatile Organics (624), Semi-Volatile Organics (625), Glycols (8015D), PP Metals (200.7 & 200.8), Mercury (1631)*, Hardness (200.7), Ammonia (SM4500-NH3BC), BOD-5 Day (SM5210 B-01), Cyanide (335.4), COD (HACH 8000), Fecal Coliform (SM9222D-97)*, Nitrite & Nitrate (300.0 rev 2.1), Oil & Grease (1664B), Phenols (420.1), Total Phosphorus (SM4500-PE 19), Settleable Solids (SM2540F-97)*, Bacteriological (ENTEROLERT)*, Total Coliform (SM9222B-97)*, Total Dissolved Solids (SM2540C-11), Total Kjeldahl Nitrogen (351)*, Total Suspended Solids (SM2540D-11)</p>
AC95154-004	Outfall 004	Aqueous	<p>Volatile Organics (624), Semi-Volatile Organics (625), Glycols (8015D), PP Metals (200.7 & 200.8), Mercury (1631)*, Hardness (200.7), Ammonia (SM4500-NH3BC), BOD-5 Day (SM5210 B-01), Cyanide (335.4), COD (HACH 8000), Fecal Coliform (SM9222D-97)*, Nitrite & Nitrate (300.0 rev 2.1), Oil & Grease (1664B), Phenols (420.1), Total Phosphorus (SM4500-PE 19), Settleable Solids (SM2540F-97)*, Bacteriological (ENTEROLERT)*, Total Coliform (SM9222B-97)*, Total Dissolved Solids (SM2540C-11), Total Kjeldahl Nitrogen (351)*, Total Suspended Solids (SM2540D-11)</p>
AC95154-005	Outfall 005	Aqueous	<p>Volatile Organics (624), Semi-Volatile Organics (625), Glycols (8015D), PP Metals (200.7 & 200.8), Mercury (1631)*, Hardness (200.7), Ammonia (SM4500-NH3BC), BOD-5 Day (SM5210 B-01), Cyanide (335.4), COD (HACH 8000), Fecal Coliform (SM9222D-97)*, Nitrite & Nitrate (300.0 rev 2.1), Oil & Grease (1664B), Phenols (420.1), Total Phosphorus (SM4500-PE 19), Settleable Solids (SM2540F-97)*, Bacteriological (ENTEROLERT)*, Total Coliform (SM9222B-97)*, Total Dissolved Solids (SM2540C-11), Total Kjeldahl Nitrogen (351)*, Total Suspended Solids (SM2540D-11)</p>
AC95154-006	Outfall 006	Aqueous	<p>Volatile Organics (624), Semi-Volatile Organics (625), Glycols (8015D), PP Metals (200.7 & 200.8), Mercury (1631)*, Hardness (200.7), Ammonia (SM4500-NH3BC), BOD-5 Day (SM5210 B-01), Cyanide (335.4), COD (HACH 8000), Fecal Coliform (SM9222D-97)*, Nitrite & Nitrate (300.0 rev 2.1), Oil & Grease (1664B), Phenols (420.1), Total Phosphorus (SM4500-PE 19), Settleable Solids (SM2540F-97)*, Bacteriological (ENTEROLERT)*, Total Coliform (SM9222B-97)*, Total Dissolved Solids (SM2540C-11), Total Kjeldahl Nitrogen (351)*, Total Suspended Solids (SM2540D-11)</p>
AC95154-007	Outfall 007	Aqueous	<p>Volatile Organics (624), Semi-Volatile Organics (625), Glycols (8015D), PP Metals (200.7 & 200.8), Mercury (1631)*, Hardness (200.7), Ammonia (SM4500-NH3BC), BOD-5 Day (SM5210 B-01), Cyanide (335.4), COD (HACH 8000), Fecal Coliform (SM9222D-97)*, Nitrite &</p>

Ammonia (SM4500-NH3BC), BOD-5 Day (SM5210 B-01), Cyanide (335.4), COD (HACH 8000), Fecal Coliform (SM9222D-97)*, Nitrite & Nitrate (300.0 rev 2.1), Oil & Grease (1664B), Phenols (420.1), Total Phosphorus (SM4500-PE 19), Settleable Solids (SM2540F-97)*, Bacteriological (ENTEROLERT)*, Total Coliform (SM9222B-97)*, Total Dissolved Solids (SM2540C-11), Total Kjeldahl Nitrogen (351)*, Total Suspended Solids (SM2540D-11)

* - Indicates analysis was performed by a subcontracted laboratory.

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

Data conforms to method requirements.

Base Neutral/Acid Extractable Analysis:

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch WMB55699 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Samples WMB55699, WMB55733; AC95154-001, 002, 004, 005, 007, 008, 009, 010, 011, 012, 013, 014, 015; and WMB55699 (MS) had one or more surrogate recoveries outside QC limits. Re-extraction for these AC95154 samples was not possible due to sample depletion. Please refer to the applicable Form 2 for the recoveries.

Sample AC95154-003 had one or more surrogates outside QC limits. The sample was re-extracted and re-analyzed confirming recoveries outside QC limits due to matrix interference. The initial is reported. Please refer to the applicable Form 2 for the recoveries.

Glycol Analysis:

Data conforms to method requirements.

Metals Analysis:

The PS for batch 57089 had recoveries outside QC limits. Please refer to the applicable Form 5/7 for the recoveries.


Wet Chemistry Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for Nitrate, batch W-1924, had recoveries outside QC limits. Please refer to the QC section for the recoveries.

Subcontracted Analysis:

Please refer to attached subcontracted laboratory report. Samples AC95154-001 – 015 were submitted to EnviroTest Laboratories for Bacteriological, Total Kjeldahl Nitrogen, Settleable Solids, Total Coliform, and Fecal Coliform analysis. Samples AC95154-001 – 015 were submitted to ALS Environmental for Mercury analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

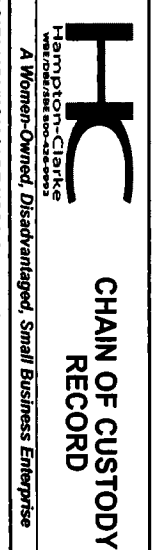

Robin Cousineau
Quality Assurance Director

Or

Jean Revolus
Laboratory Director

1/13/2017
Date

Hampton-Clarke, Inc. (WBE/DBE/SBE)
 175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
 Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
 Service Center: 137-D Gailher Drive, Mount Laurel, New Jersey 08054
 Ph (Service Center): 856-780-6057 Fax: 856-780-6056



Project # (Lab Use Only) **6121303** Page **1** of **2**
3) Reporting Requirements (Please Circle)
 Turnaround Report Type Electronic Deliv.
 When Available: Data Summary HazMat/CSV
 1 Business Day (100%)* Results + QC (Waste) EnviroData
 2 Business Days (75%)* NJ Reduced Excel - NJ Regulatory
 3 Business Days (50%)* NY Reduced Excel - NY Regulatory
 4 Business Days (35%)* PA Reduced Excel - PA Regulatory
 5 Business Days (25%)* Full / Category B EQUIS (specify below):
 10 Business Days (Stand.) Category A 4-File/EZ/NYS/Reg. 2 or 5
 Other: Electronic (PDF) Other:

Customer Information
 1a) Customer: _____
 Address: _____
 1b) Email/Cell/Fax/Ph: _____
 1c) Send Invoice to: _____
 1d) Send Report to: _____

Project Information
 2a) Project: _____
 2b) Project Mgr: _____
 2c) Project Location (City/State): _____
 2d) Quote/PO # (if applicable): _____

Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY
 Matrix Codes
 DW - Drinking Water S - Soil A - Air
 GW - Ground Water SL - Sludge
 WW - Waste Water OL - Oil
 OT - Other (please specify under item 9, Comments)

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample		Composite (C)	Grab (G)	7) Analysis (specify methods & parameter lists)	8) # of Bottles						9) Comments	
			Date	Time				None	MeOH	En Core	NaOH	HCl	H2SO4		HNO3
001	OUTFAL 001	GW	12/12	1035		X	SEE ATTACHED PARAMETER LIST	9	0	0	1	6	4	1	D
002	OUTFAL 002			0930		X									
003	OUTFAL 003			0945		X									
004	OUTFAL 004			1000		X									
005	OUTFAL 005			1040		X									
006	OUTFAL 006			1050		X									
007	OUTFAL 007			1135		X									
008	OUTFAL 008			0835		X									
009	OUTFAL 009			0842		X									
010	OUTFAL 010			0845		X									

10) Relinquished by: _____ Accepted by: _____
 Date: 12/12 Time: 1400
 Date: 12/13/16 Time: 10:40

Comments, Notes, Special Requirements, HAZARDS
 Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
 BN or BNA (8270D SIM) _____
 VOC (8260C SIM or 8011) _____
 SPLP (BN, BNA, Metals) _____
 Check if applicable:
 Project-Specific Reporting Limits
 High Contaminant Concentrations
 NJ LSRP Project (also check boxes above/right):
 11) Sampler (print name): _____
 Please note NUMBERED items. If not completed your analytical work may be delayed.
 A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.

Additional Notes
 Please see attached SPDES Permit for list of analyses

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
 Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
 Service Center: 137-D Gallier Drive, Mount Laurel, New Jersey 08054
 Ph (Service Center): 856-780-6057 Fax: 856-780-6056



CHAIN OF CUSTODY RECORD

Hampton-Clarke
 VERIFIED BY: 800-426-9992
 A Women-Owned, Disadvantaged, Small Business Enterprise

6121303

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Deliv.
When Available:	Data Summary	HazMat/CSV
1 Business Day (100%)*	Results + QC (Waste)	EnviroData
2 Business Days (75%)*	NJ Reduced	Excel - NJ Regulatory
3 Business Days (50%)*	NY Reduced	Excel - NY Regulatory
4 Business Days (35%)*	PA Reduced	Excel - PA Regulatory
5 Business Days (25%)	Full / Category B	EQUS (Specify below):
10 Business Days (Stand.)	Category A	4-File/Z/NYS/Reg 2 or 5
Other:	Electronic (PDF)	Other:

Customer Information

1a) Customer: _____
 Address: _____
 Email/Cell/Fax/Ph: _____

1b) Send Invoice to: _____
 1c) Send Report to: _____

1d) Send Report to: _____

Project Information

2a) Project: _____
 2b) Project Mgr: _____
 2c) Project Location (City/State): _____
 2d) Quote/PO # (If Applicable): _____

FOR LAB USE ONLY

====> Check If Contingent <====

Matrix Codes: S - Soil, A - Air, SL - Sludge, OL - Oil, OT - Other (please specify under item 9, Comments)

Batch # _____

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample		Composite (C)	Grab (G)	7) Analysis (Specify methods & parameter lists)	8) # of Bottles						9) Comments		
			Date	Time				None	MeOH	En Core	NaOH	HCl	H2SO4		HNO3	Other:
011	OWTFKL 011	GW	12/12	1025		X		Q	0	0	1	6	4	1	0	
012	OWTFKL 012			1110		X		V	V	V	V	V	V	V	V	
013	OWTFKL 013			1145		X		V	V	V	V	V	V	V	V	
014	OWTFKL 014			1230		X		V	V	V	V	V	V	V	V	
015	OWTFKL 015			1100		X		V	V	V	V	V	V	V	V	

10) Relinquished by: _____ Accepted by: _____ Date: _____ Time: _____

Additional Notes

Project Name: Project Finance
 M. Sproul
 M. Sproul

12/12 1400
 12/17/16 18:40

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
 BN or BNA (8270D SIM) _____
 VOC (8260C SIM or 8011) _____
 SPLP (BN, BNA, Metals) _____

Check if applicable:
 Project-Specific Reporting Limits
 High Contaminant Concentrations
 NJ LSRP Project (also check boxes above/right)

11) Sampler (print name): _____ Date: _____

Please note NUMBERED items. If not completed your analytical work may be delayed. A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.

Cooler Temperature _____

PROJECT MODIFICATIONS

Client: PA-NYNJ

HC Project #:6121303

Project: Stewart Stormwater

david192.168.1.125
1/12/2017 11:35:09 AM

COC came in without Project name and other info. Confirmed with Client that Project name is Stewart Stormwater. Project to be billed and sent to PA-NYNJ with contact D. Bailey. EnviroTest for Setttable Solids, Fecal Coliform, Entrococcus and TKN are not in the same sample order as the Mercury 1631 and Hampton-Clarke in house analyses. These samples were sent directly to EnviroTest on a COC that was filled out by the client. DTW

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
State Pollutant Discharge Elimination System (SPDES)
Environmental Benefit Permit Strategy (EBPS)
ADDITIONAL INSTRUCTIONS



Permittee Name: The Port Authority of New York and New Jersey

SPDES Permit Number: NY0234915

In addition to completing the Application Form NY-2A or NY-2C, please provide the information requested by the checked box(es).

EFFLUENT SAMPLING - Complete the following sampling for the indicated outfalls, in addition to routine sampling for those parameters believed present in the discharges from your facility (One 24 hour composite except for parameters where proper sample collection/preservation techniques require grab). Sampling and analysis must comply with the RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS page of your permit. Note that additional sampling may be required as directed by the application form.

<u>Outfall Numbers</u>	<u>Sampling Required</u>
<input checked="" type="checkbox"/> <u>001 to 015</u>	Conventionals*
<input checked="" type="checkbox"/> <u>001 to 015</u>	13 Priority Pollutant Metals, Total Cyanide and Total Phenols**
<input checked="" type="checkbox"/> <u>001 to 015</u>	Volatiles (EPA Method 624)
<input checked="" type="checkbox"/> <u>001 to 015</u>	Acid Compounds (EPA Method 625)
<input checked="" type="checkbox"/> <u>001 to 015</u>	Base Neutral (EPA Method 625)
<input type="checkbox"/> _____	Pesticides/PCB (EPA Method 608)
<input checked="" type="checkbox"/> <u>001 to 015</u>	Perfluorooctanesulfonic Acid, Perfluorooctanoic Acid, Perfluorohexane Sulfonate, Glycol, and Methyl Tertiary Butyl Ether

NOTE: Sampling is required for all outfalls present at the facility including the outfalls that does not have any monitoring requirements on the current permit.

* - Conventional parameters which must be sampled for include: BOD5, COD, Dissolved Oxygen, TSS, TDS, ~~Settleable Solids~~, Oil & Grease, Total Organic Nitrogen, Ammonia (N), Nitrate, Nitrite, Total Phosphorus, Flow Rate, Temperature, pH, Hardness (as CaCO3), Total Residual Chlorine, ~~Fecal Coliform, Total Coliform, and Enterococci.~~

** - Mercury analysis must be performed using EPA Method 1631. Other metals shall be analyzed using EPA Method 200.7. Analysis shall be for the "Total" form of metals.

Envirotest is analyzing TKN. Please report Total Organic Nitrogen.

APPLICATION SUPPLEMENT A: This form requests detailed production information from specific industries for development of production based effluent limits. Based upon your facility's operations and industrial code, the following Application Supplements are included in this package:

State Pollutant Discharge Elimination System (SPDES)

STORMWATER DISCHARGES FROM POTWs: Municipal wastewater treatment plants with design flows of 1 MGD or more, or facilities that are required to have an EPA-approved pretreatment program are subject to SPDES permitting for stormwater discharges associated with industrial activity. Many facilities have obtained coverage for stormwater discharges through the SPDES General Permit for Stormwater Discharges Associated with Industrial Activity. The Department has determined that it is appropriate to include these stormwater discharges in the individual SPDES permit for this facility rather than requiring coverage under two separate SPDES permits. Submit a description of

CONDITION UPON RECEIPT

Batch Number AC95154

Entered By: Frantz

Date Entered 12/13/2016 11:57:00 AM

-
- 1 Yes Is there a corresponding COC included with the samples?
- 2 Yes Are the samples in a container such as a cooler or Ice chest?
- 3 NO Are the COC seals intact?
- 4 T0056 <--- Thermometer ID. Please specify the Temperature inside the container (in degC).
2.4,3.1,2.4,2.4,2.4,3.0,2.5,2.0,2.0,2.4,3.1,2.4,2.3,2.0,2.6
- 5 Yes Are the samples refrigerated (where required)/have they arrived on ice?
- 6 Yes Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
- 7 Yes Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
- 8 Yes Are all of the sample labels or numbers legible? If no specify:
- 9 NO Do the contents match the COC? If no, specify
Outfall 006 sample for Hg was not received.
Outfall 015 samples were not received for O+G.
- 10 NO Is there enough sample sent for the analyses listed on the COC? If no, specify:
Outfall 002 only one liter received for BN.
- 11 Yes Are samples preserved correctly?
- 12 Yes Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
- 13 NA Other comments ...Specify
- 14 NA Corrective actions (Specify item number and corrective action taken).

PRESERVATION DOCUMENT

Batch Number AC95154

Entered By: Frantz

Date Entered 12/13/2016 12:01:00 PM

Lab#:	Container Size	Container/Vial		Parameter	Preservative	Preservative	PH	pH
		Check				Lot#		Lot#
AC95154-001	40ML	G		Glycol	HCL	119768	1	HC681919
AC95154-001	40ML	G		VO	NONE	NA	7	HC681919
AC95154-001	1L	P		METALS	HNO3	145075	1	HC681919
AC95154-001	1L	G		O+G	HCL	147777	1	HC681919
AC95154-001	500ml	G		Hg	HCL	147777	1	HC681919
AC95154-001	500ml	G		PHENOLS	H2SO4	3114101	1	HC681919
AC95154-001	500ml	P		AMMONIA	H2SO4	3114101	1	HC681919
AC95154-001	250ml	P		TP	H2SO4	3114101	1	HC681919
AC95154-001	250ml	P		COD	H2SO4	3114101	1	HC681919
AC95154-001	500ml	G		CN	NaOH	V-243132	1	HC681919
AC95154-002	40ML	G		Glycol	HCL	119768	1	HC681919
AC95154-002	40ML	G		VO	NONE	NA	7	HC681919
AC95154-002	1L	P		METALS	HNO3	145075	1	HC681919
AC95154-002	1L	G		O+G	HCL	147777	1	HC681919
AC95154-002	500ml	G		Hg	HCL	147777	1	HC681919
AC95154-002	500ml	G		PHENOLS	H2SO4	3114101	1	HC681919
AC95154-002	500ml	P		AMMONIA	H2SO4	3114101	1	HC681919
AC95154-002	250ml	P		TP	H2SO4	3114101	1	HC681919
AC95154-002	250ml	P		COD	H2SO4	3114101	1	HC681919
AC95154-002	500ml	G		CN	NaOH	V-243132	1	HC681919
AC95154-003	40ML	G		Glycol	HCL	119768	1	HC681919
AC95154-003	40ML	G		VO	NONE	NA	7	HC681919
AC95154-003	1L	P		METALS	HNO3	145075	1	HC681919
AC95154-003	1L	G		O+G	HCL	147777	1	HC681919
AC95154-003	500ml	G		Hg	HCL	147777	1	HC681919
AC95154-003	500ml	G		PHENOLS	H2SO4	3114101	1	HC681919
AC95154-003	500ml	P		AMMONIA	H2SO4	3114101	1	HC681919
AC95154-003	250ml	P		TP	H2SO4	3114101	1	HC681919
AC95154-003	250ml	P		COD	H2SO4	3114101	1	HC681919
AC95154-003	500ml	G		CN	NaOH	V-243132	1	HC681919
AC95154-004	40ML	G		Glycol	HCL	119768	1	HC681919
AC95154-004	40ML	G		VO	NONE	NA	7	HC681919
AC95154-004	1L	P		METALS	HNO3	145075	1	HC681919
AC95154-004	1L	G		O+G	HCL	147777	1	HC681919
AC95154-004	500ml	G		Hg	HCL	147777	1	HC681919
AC95154-004	500ml	G		PHENOLS	H2SO4	3114101	1	HC681919
AC95154-004	500ml	P		AMMONIA	H2SO4	3114101	1	HC681919
AC95154-004	250ml	P		TP	H2SO4	3114101	1	HC681919
AC95154-004	250ml	P		COD	H2SO4	3114101	1	HC681919
AC95154-004	500ml	G		CN	NaOH	V-243132	1	HC681919
AC95154-005	40ML	G		Glycol	HCL	119768	1	HC681919
AC95154-005	40ML	G		VO	NONE	NA	7	HC681919
AC95154-005	1L	P		METALS	HNO3	145075	1	HC681919
AC95154-005	1L	G		O+G	HCL	147777	1	HC681919
AC95154-005	500ml	G		Hg	HCL	147777	1	HC681919
AC95154-005	500ml	G		PHENOLS	H2SO4	3114101	1	HC681919
AC95154-005	500ml	P		AMMONIA	H2SO4	3114101	1	HC681919
AC95154-005	250ml	P		TP	H2SO4	3114101	1	HC681919
AC95154-005	250ml	P		COD	H2SO4	3114101	1	HC681919
AC95154-005	500ml	G		CN	NaOH	V-243132	1	HC681919
AC95154-006	40ML	G		Glycol	HCL	119768	1	HC681919
AC95154-006	40ML	G		VO	NONE	NA	7	HC681919
AC95154-006	1L	P		METALS	HNO3	145075	1	HC681919
AC95154-006	1L	G		O+G	HCL	147777	1	HC681919
AC95154-006	NA	NA		NA	NA	NA	NA	NA

PRESERVATION DOCUMENT

Batch Number AC95154

Entered By: Frantz

Date Entered 12/13/2016 12:01:00 PM

Lab#:	Container Size	Container/Vial Check	Parameter	Preservative	Preservative Lot#	PH	pH Lot#
AC95154-006	500ml	G	PHENOLS	H2SO4	3114101	1	HC681919
AC95154-006	500ml	P	AMMONIA	H2SO4	3114101	1	HC681919
AC95154-006	250ml	P	TP	H2SO4	3114101	1	HC681919
AC95154-006	250ml	P	COD	H2SO4	3114101	1	HC681919
AC95154-006	500ml	G	CN	NaOH	V-243132	1	HC681919
AC95154-007	40ML	G	Glycol	HCL	119768	1	HC681919
AC95154-007	40ML	G	VO	NONE	NA	7	HC681919
AC95154-007	1L	P	METALS	HNO3	145075	1	HC681919
AC95154-007	1L	G	O+G	HCL	147777	1	HC681919
AC95154-007	500ml	G	Hg	HCL	147777	1	HC681919
AC95154-007	500ml	G	PHENOLS	H2SO4	3114101	1	HC681919
AC95154-007	500ml	P	AMMONIA	H2SO4	3114101	1	HC681919
AC95154-007	250ml	P	TP	H2SO4	3114101	1	HC681919
AC95154-007	250ml	P	COD	H2SO4	3114101	1	HC681919
AC95154-007	500ml	G	CN	NaOH	V-243132	1	HC681919
AC95154-008	40ML	G	Glycol	HCL	119768	1	HC681919
AC95154-008	40ML	G	VO	NONE	NA	7	HC681919
AC95154-008	1L	P	METALS	HNO3	145075	1	HC681919
AC95154-008	1L	G	O+G	HCL	147777	1	HC681919
AC95154-008	500ml	G	Hg	HCL	147777	1	HC681919
AC95154-008	500ml	G	PHENOLS	H2SO4	3114101	1	HC681919
AC95154-008	500ml	P	AMMONIA	H2SO4	3114101	1	HC681919
AC95154-008	250ml	P	TP	H2SO4	3114101	1	HC681919
AC95154-008	250ml	P	COD	H2SO4	3114101	1	HC681919
AC95154-008	500ml	G	CN	NaOH	V-243132	1	HC681919
AC95154-009	40ML	G	Glycol	HCL	119768	1	HC681919
AC95154-009	40ML	G	VO	NONE	NA	7	HC681919
AC95154-009	1L	P	METALS	HNO3	145075	1	HC681919
AC95154-009	1L	G	O+G	HCL	147777	1	HC681919
AC95154-009	500ml	G	Hg	HCL	147777	1	HC681919
AC95154-009	500ml	G	PHENOLS	H2SO4	3114101	1	HC681919
AC95154-009	500ml	P	AMMONIA	H2SO4	3114101	1	HC681919
AC95154-009	250ml	P	TP	H2SO4	3114101	1	HC681919
AC95154-009	250ml	P	COD	H2SO4	3114101	1	HC681919
AC95154-009	500ml	G	CN	NaOH	V-243132	1	HC681919
AC95154-010	40ML	G	Glycol	HCL	119768	1	HC681919
AC95154-010	40ML	G	VO	NONE	NA	7	HC681919
AC95154-010	1L	P	METALS	HNO3	145075	1	HC681919
AC95154-010	1L	G	O+G	HCL	147777	1	HC681919
AC95154-010	500ml	G	Hg	HCL	147777	1	HC681919
AC95154-010	500ml	G	PHENOLS	H2SO4	3114101	1	HC681919
AC95154-010	500ml	P	AMMONIA	H2SO4	3114101	1	HC681919
AC95154-010	250ml	P	TP	H2SO4	3114101	1	HC681919
AC95154-010	250ml	P	COD	H2SO4	3114101	1	HC681919
AC95154-010	500ml	G	CN	NaOH	V-243132	1	HC681919
AC95154-011	40ML	G	Glycol	HCL	119768	1	HC681919
AC95154-011	40ML	G	VO	NONE	NA	7	HC681919
AC95154-011	1L	P	METALS	HNO3	145075	1	HC681919
AC95154-011	1L	G	O+G	HCL	147777	1	HC681919
AC95154-011	500ml	G	Hg	HCL	147777	1	HC681919
AC95154-011	500ml	G	PHENOLS	H2SO4	3114101	1	HC681919
AC95154-011	500ml	P	AMMONIA	H2SO4	3114101	1	HC681919
AC95154-011	250ml	P	TP	H2SO4	3114101	1	HC681919
AC95154-011	250ml	P	COD	H2SO4	3114101	1	HC681919
AC95154-011	500ml	G	CN	NaOH	V-243132	1	HC681919

PRESERVATION DOCUMENT

Batch Number AC95154

Entered By: Frantz

Date Entered 12/13/2016 12:01:00 PM

Lab#:	Container Size	Container/Vial Check	Parameter	Preservative	Preservative Lot#	PH	pH Lot#
AC95154-012	40ML	G	Glycol	HCL	119768	1	HC681919
AC95154-012	40ML	G	VO	NONE	NA	7	HC681919
AC95154-012	1L	P	METALS	HNO3	145075	1	HC681919
AC95154-012	1L	G	O+G	HCL	147777	1	HC681919
AC95154-012	500ml	G	Hg	HCL	147777	1	HC681919
AC95154-012	500ml	G	PHENOLS	H2SO4	3114101	1	HC681919
AC95154-012	500ml	P	AMMONIA	H2SO4	3114101	1	HC681919
AC95154-012	250ml	P	TP	H2SO4	3114101	1	HC681919
AC95154-012	250ml	P	COD	H2SO4	3114101	1	HC681919
AC95154-012	500ml	G	CN	NaOH	V-243132	1	HC681919
AC95154-013	40ML	G	Glycol	HCL	119768	1	HC681919
AC95154-013	40ML	G	VO	NONE	NA	7	HC681919
AC95154-013	1L	P	METALS	HNO3	145075	1	HC681919
AC95154-013	1L	G	O+G	HCL	147777	1	HC681919
AC95154-013	500ml	G	Hg	HCL	147777	1	HC681919
AC95154-013	500ml	G	PHENOLS	H2SO4	3114101	1	HC681919
AC95154-013	500ml	P	AMMONIA	H2SO4	3114101	1	HC681919
AC95154-013	250ml	P	TP	H2SO4	3114101	1	HC681919
AC95154-013	250ml	P	COD	H2SO4	3114101	1	HC681919
AC95154-013	500ml	G	CN	NaOH	V-243132	1	HC681919
AC95154-014	40ML	G	Glycol	HCL	119768	1	HC681919
AC95154-014	40ML	G	VO	NONE	NA	7	HC681919
AC95154-014	1L	P	METALS	HNO3	145075	1	HC681919
AC95154-014	1L	G	O+G	HCL	147777	1	HC681919
AC95154-014	500ml	G	Hg	HCL	147777	1	HC681919
AC95154-014	500ml	G	PHENOLS	H2SO4	3114101	1	HC681919
AC95154-014	500ml	P	AMMONIA	H2SO4	3114101	1	HC681919
AC95154-014	250ml	P	TP	H2SO4	3114101	1	HC681919
AC95154-014	250ml	P	COD	H2SO4	3114101	1	HC681919
AC95154-014	500ml	G	CN	NaOH	V-243132	1	HC681919
AC95154-015	40ML	G	Glycol	HCL	119768	1	HC681919
AC95154-015	40ML	G	VO	NONE	NA	7	HC681919
AC95154-015	1L	P	METALS	HNO3	145075	1	HC681919
AC95154-015	NA	NA	NA	NA	NA	NA	NA
AC95154-015	500ml	G	Hg	HCL	147777	1	HC681919
AC95154-015	500ml	G	PHENOLS	H2SO4	3114101	1	HC681919
AC95154-015	500ml	P	AMMONIA	H2SO4	3114101	1	HC681919
AC95154-015	250ml	P	TP	H2SO4	3114101	1	HC681919
AC95154-015	250ml	P	COD	H2SO4	3114101	1	HC681919
AC95154-015	500ml	G	CN	NaOH	V-243132	1	HC681919

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/ M	Analysis	Lab#:	DateTime:	Loc or User	Bot Nu	A/ M	Analysis
AC95154-014	12/15/16 09:39	JW	13	A	PHENOL						
AC95154-014	12/15/16 16:46	R12	13	A	NONE						
AC95154-014	12/13/16 12:48	AF	14	A	CN						
AC95154-014	12/13/16 14:54	R12	14	A	NONE						
AC95154-014	12/14/16 10:34	BCT	16	A	TSS						
AC95154-014	12/14/16 15:40	R12	16	A	NONE						
AC95154-014	12/14/16 07:35	SP	17	A	tdwi						
AC95154-014	12/14/16 07:36	SP	17	A	r12						
AC95154-014	12/15/16 11:46	ND	20	A	O&G/HEM-NPM						
AC95154-014	12/14/16 07:53	JKR	21	A	bn						
AC95154-015	12/13/16 10:40	FRANT0		M	Received						
AC95154-015	12/13/16 11:23	FRANT0		M	Login						
AC95154-015	12/13/16 12:02	R31	2	A	NONE						
AC95154-015	12/13/16 12:02	R31	3	A	NONE						
AC95154-015	12/14/16 12:58	MLC	3	A	GLY						
AC95154-015	12/14/16 13:00	R12	3	A	NONE						
AC95154-015	12/13/16 12:00	R31	4	A	PH/CHECK						
AC95154-015	12/13/16 12:00	R31	5	A	PH/CHECK						
AC95154-015	12/13/16 12:02	R31	6	A	NONE						
AC95154-015	12/13/16 13:12	SG	6	A	VOA						
AC95154-015	12/13/16 12:02	R31	7	A	NONE						
AC95154-015	12/13/16 14:54	R12	8	A	NONE						
AC95154-015	12/15/16 09:52	ANTH	8	A	TPO4						
AC95154-015	12/15/16 13:13	R12	8	A	NONE						
AC95154-015	12/14/16 06:42	SDL	9	A	BOD-PH						
AC95154-015	12/14/16 08:45	R12	9	A	NONE						
AC95154-015	12/13/16 15:03	JW	10	A	IC						
AC95154-015	12/13/16 15:30	R12	10	A	NONE						
AC95154-015	12/13/16 17:05	R12	10	A	NONE						
AC95154-015	12/19/16 09:37	JW	11	A	AMMONIA						
AC95154-015	12/19/16 10:32	R12	11	A	NONE						
AC95154-015	12/13/16 12:48	AF	13	A	CN						
AC95154-015	12/13/16 14:54	R12	13	A	NONE						
AC95154-015	12/15/16 09:25	BCT	14	A	TDS						
AC95154-015	12/15/16 11:14	R12	14	A	NONE						
AC95154-015	12/15/16 09:39	JW	15	A	PHENOL						
AC95154-015	12/15/16 16:46	R12	15	A	NONE						
AC95154-015	12/14/16 10:34	BCT	17	A	TSS						
AC95154-015	12/14/16 15:40	R12	17	A	NONE						
AC95154-015	12/14/16 07:53	JKR	18	A	bn						
AC95154-015	12/15/16 11:46	ND	19	A	O&G/HEM-NPM						

Laboratory Chronicle

Client: PORT AUTHORITY OF NY & NJ

HC Project #: 6121303

Project: Stewart Stormwater

Lab#: AC95154-001

Sample ID: Outfall 001

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Ammonia (SM4500-NH3B/C).2		12/16/16	BCT	SM4500-NH3B	12/16/16 00:00	BCT
Bacteriological				Subcontract	12/12/16 16:10	EnviroTest Lab
BOD-5 Day (SM5210 B-01)		12/14/16 07:00	BCT/SDL	SM5210 B-01	12/19/16 11:00	BCT
COD HACH 8000		12/13/16	BCT	HACH 8000	12/13/16 00:00	BCT
Cyanide (Water) EPA 335.4	EPA 335.4	12/13/16	Anthony	EPA 335.4	12/13/16 16:17	JMP
Fecal Coliform				Subcontract	12/12/16 16:20	EnviroTest Lab
Glycols (GC/FID) 8015	H2O Extract	12/14/15	mahaliac	EPA 8015D	12/14/16 12:49	MS/MLC/ZM
Hardness 200.7	EPA 200.2	12/14/16	snezana	200.7	12/14/16 18:00	SRB
Mercury (Aqueous) 1631		12/20/16 07:30	ALS	EPA 1631	12/20/16 10:58	ALS
Nitrate-N (Water) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 15:28	Janee
Nitrite-N (Aqueous) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 15:28	Janee
Oil & Grease 1664B	EPA 1664A	12/15/16	Ndoshi	EPA 1664A	12/16/16 00:00	Ndoshi
Phenols (Water) 420.1	EPA 420.1	12/15/16	JW	EPA 420.1	12/15/16 00:00	JW
Phosphorus-Total (SM4500-P E 19th ed)	SM4500-PE 19	12/15/16	BCT	SM4500-PE 19	12/15/16 00:00	BCT
PP Metals 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 18:00	SRB
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/14/16 13:18	PC
Semivolatile Organics (no search) 625	EPA 625	12/14/16	jkr/jir	EPA 625	12/14/16 18:19	AH/JB
Settleable Solids (SM2540F-97)				SM2540F-97	12/13/16 10:25	EnviroTest Lab
Total Coliform				Subcontract	12/12/16 16:20	EnviroTest Lab
Total Dissolved Solids (SM2540C-97)		12/15/16	BCT	SM2540C-97	12/16/16 00:00	BCT
Total Kjeldahl Nitrogen EPA 351		12/19/16 07:15	EnviroTest	EPA 351	12/20/16 13:26	EnviroTest Lab
Total Suspended Solids (SM2540D-97)		12/14/16	BCT	SM2540D-97	12/15/16 00:00	BCT
Volatile Organics (no search) 624	EPA 624			EPA 624	12/13/16 13:42	SG

Laboratory Chronicle

Client: PORT AUTHORITY OF NY & NJ

HC Project #: 6121303

Project: Stewart Stormwater

Lab#: AC95154-002

Sample ID: Outfall 002

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Ammonia (SM4500-NH3B/C)		12/16/16	BCT	SM4500-NH3B	12/16/16 00:00	BCT
Bacteriological				Subcontract	12/12/16 16:10	EnviroTest Lab
BOD-5 Day (SM5210 B-01)		12/14/16 07:00	BCT/SDL	SM5210 B-01	12/19/16 11:00	BCT
COD HACH 8000		12/13/16	BCT	HACH 8000	12/13/16 00:00	BCT
Cyanide-Water (EPA 335.4)	EPA 335.4	12/13/16	Anthony	EPA 335.4	12/13/16 16:24	JMP
Fecal Coliform				Subcontract	12/12/16 16:00	EnviroTest Lab
Glycols (GC/FID) 8015	H2O Extract	12/14/15	mahaliac	EPA 8015D	12/14/16 13:03	MS/MLC/ZM
Hardness 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 18:03	SRB
Mercury (Aqueous) 1631		12/20/16 07:30	ALS	EPA 1631	12/20/16 11:05	ALS
Nitrate-N (Water) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 16:44	Janee
Nitrite-N (Aqueous) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 16:44	Janee
Oil & Grease 1664B	EPA 1664B	12/15/16	Ndoshi	EPA 1664B	12/16/16 00:00	Ndoshi
Phenols (Water) 420.1	EPA 420.1	12/15/16	JW	EPA 420.1	12/15/16 00:00	JW
Phosphorus-Total (SM4500-P E 19th ed)	SM4500-PE 19	12/15/16	BCT	SM4500-PE 19	12/15/16 00:00	BCT
PP Metals 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 18:03	SRB
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/14/16 13:21	PC
Semivolatile Organics (no search) 625	EPA 625	12/14/16	jkr/jir	EPA 625	12/15/16 10:20	AH/JB
Settleable Solids (SM2540F-97)				SM2540F-97	12/12/16 15:45	EnviroTest Lab
Total Coliform				Subcontract	12/12/16 16:00	EnviroTest Lab
Total Dissolved Solids (SM2540C-11)		12/15/16	BCT	SM2540C-11	12/16/16 00:00	BCT
Total Kjeldahl Nitrogen EPA 351		12/19/16 07:15	EnviroTest	EPA 351	12/20/16 13:16	EnviroTest Lab
Total Suspended Solids (SM2540D-11)		12/14/16	BCT	SM2540D-11	12/15/16 00:00	BCT
Volatile Organics (no search) 624	EPA 624			EPA 624	12/13/16 14:59	SG

Laboratory Chronicle

Client: PORT AUTHORITY OF NY & NJ

HC Project #: 6121303

Project: Stewart Stormwater

Lab#: AC95154-003

Sample ID: Outfall 003

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Ammonia (SM4500-NH3B/C)		12/16/16	BCT	SM4500-NH3B	12/16/16 00:00	BCT
Bacteriological				Subcontract	12/12/16 16:10	EnviroTest Lab
BOD-5 Day (SM5210 B-01)		12/14/16 07:00	BCT/SDL	SM5210 B-01	12/19/16 11:00	BCT
COD HACH 8000		12/13/16	BCT	HACH 8000	12/13/16 00:00	BCT
Cyanide-Water (EPA 335.4)	EPA 335.4	12/13/16	Anthony	EPA 335.4	12/13/16 16:27	JMP
Fecal Coliform				Subcontract	12/12/16 16:00	EnviroTest Lab
Glycols (GC/FID) 8015	H2O Extract	12/14/15	mahaliac	EPA 8015D	12/14/16 13:16	MS/MLC/ZM
Hardness 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 18:24	SRB
Mercury (Aqueous) 1631		12/20/16 07:30	ALS	EPA 1631	12/20/16 13:21	ALS
Nitrate-N (Water) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 17:09	Janee
Nitrite-N (Aqueous) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 17:09	Janee
Oil & Grease 1664B	EPA 1664B	12/15/16	Ndoshi	EPA 1664B	12/16/16 00:00	Ndoshi
Phenols (Water) 420.1	EPA 420.1	12/15/16	JW	EPA 420.1	12/15/16 00:00	JW
Phosphorus-Total (SM4500-P E 19th ed)	SM4500-PE 19	12/15/16	BCT	SM4500-PE 19	12/15/16 00:00	BCT
PP Metals 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 18:24	SRB
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/14/16 13:24	PC
Semivolatile Organics (no search) 625	EPA 625	12/14/16	jkr/jir	EPA 625	12/15/16 10:42	AH/JB
Settleable Solids (SM2540F-97)				SM2540F-97	12/12/16 15:45	EnviroTest Lab
Total Coliform				Subcontract	12/12/16 16:00	EnviroTest Lab
Total Dissolved Solids (SM2540C-11)		12/15/16	BCT	SM2540C-11	12/16/16 00:00	BCT
Total Kjeldahl Nitrogen EPA 351		12/19/16 07:15	EnviroTest	EPA 351	12/20/16 13:19	EnviroTest Lab
Total Suspended Solids (SM2540D-11)		12/14/16	BCT	SM2540D-11	12/15/16 00:00	BCT
Volatile Organics (no search) 624	EPA 624			EPA 624	12/14/16 11:18	SG

Laboratory Chronicle

6121303 0019

Client: PORT AUTHORITY OF NY & NJ

HC Project #: 6121303

Project: Stewart Stormwater

Lab#: AC95154-004

Sample ID: Outfall 004

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Ammonia (SM4500-NH3B/C)		12/16/16	BCT	SM4500-NH3B	12/16/16 00:00	BCT
Bacteriological				Subcontract	12/12/16 16:10	EnviroTest Lab
BOD-5 Day (SM5210 B-01)		12/14/16 07:00	BCT/SDL	SM5210 B-01	12/19/16 11:00	BCT
COD HACH 8000		12/13/16	BCT	HACH 8000	12/13/16 00:00	BCT
Cyanide-Water (EPA 335.4)	EPA 335.4	12/13/16	Anthony	EPA 335.4	12/13/16 16:29	JMP
Fecal Coliform				Subcontract	12/12/16 16:20	EnviroTest Lab
Glycols (GC/FID) 8015	H2O Extract	12/14/15	mahaliac	EPA 8015D	12/16/16 12:19	MS/MLC/ZM
Hardness 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 18:28	SRB
Mercury (Aqueous) 1631		12/20/16 07:30	ALS	EPA 1631	12/20/16 12:05	ALS
Nitrate-N (Water) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 17:34	Janee
Nitrite-N (Aqueous) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 17:34	Janee
Oil & Grease 1664B	EPA 1664B	12/15/16	Ndoshi	EPA 1664B	12/16/16 00:00	Ndoshi
Phenols (Water) 420.1	EPA 420.1	12/15/16	JW	EPA 420.1	12/15/16 00:00	JW
Phosphorus-Total (SM4500-P E 19th ed)	SM4500-PE 19	12/15/16	BCT	SM4500-PE 19	12/15/16 00:00	BCT
PP Metals 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 18:28	SRB
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/14/16 13:27	PC
Semivolatile Organics (no search) 625	EPA 625	12/14/16	jkr/jir	EPA 625	12/14/16 19:30	AH/JB
Settleable Solids (SM2540F-97)				SM2540F-97	12/12/16 10:25	EnviroTest Lab
Total Coliform				Subcontract	12/12/16 16:20	EnviroTest Lab
Total Dissolved Solids (SM2540C-11)		12/15/16	BCT	SM2540C-11	12/16/16 00:00	BCT
Total Kjeldahl Nitrogen EPA 351		12/19/16 07:15	EnviroTest	EPA 351	12/20/16 13:27	EnviroTest Lab
Total Suspended Solids (SM2540D-11)		12/14/16	BCT	SM2540D-11	12/15/16 00:00	BCT
Volatile Organics (no search) 624	EPA 624			EPA 624	12/13/16 23:59	SG

Laboratory Chronicle

6121303 0020

Client: PORT AUTHORITY OF NY & NJ

HC Project #: 6121303

Project: Stewart Stormwater

Lab#: AC95154-005

Sample ID: Outfall 005

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Ammonia (SM4500-NH3B/C)		12/16/16	BCT	SM4500-NH3B	12/16/16 00:00	BCT
Bacteriological				Subcontract	12/12/16 16:10	EnviroTest Lab
BOD-5 Day (SM5210 B-01)		12/14/16 07:00	BCT/SDL	SM5210 B-01	12/19/16 11:00	BCT
COD HACH 8000		12/13/16	BCT	HACH 8000	12/13/16 00:00	BCT
Cyanide-Water (EPA 335.4)	EPA 335.4	12/13/16	Anthony	EPA 335.4	12/13/16 16:31	JMP
Fecal Coliform				Subcontract	12/12/16 16:00	EnviroTest Lab
Glycols (GC/FID) 8015	H2O Extract	12/14/15	mahaliac	EPA 8015D	12/14/16 13:43	MS/MLC/ZM
Hardness 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 18:31	SRB
Mercury (Aqueous) 1631		12/20/16 07:30	ALS	EPA 1631	12/20/16 12:13	ALS
Nitrate-N (Water) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 18:00	Janee
Nitrite-N (Aqueous) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 18:00	Janee
Oil & Grease 1664B	EPA 1664B	12/15/16	Ndoshi	EPA 1664B	12/16/16 00:00	Ndoshi
Phenols (Water) 420.1	EPA 420.1	12/15/16	JW	EPA 420.1	12/15/16 00:00	JW
Phosphorus-Total (SM4500-P E 19th ed)	SM4500-PE 19	12/15/16	BCT	SM4500-PE 19	12/15/16 00:00	BCT
PP Metals 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 18:31	SRB
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/14/16 13:31	PC
Semivolatile Organics (no search) 625	EPA 625	12/14/16	jkr/jir	EPA 625	12/15/16 11:04	AH/JB
Settleable Solids (SM2540F-97)				SM2540F-97	12/12/16 15:45	EnviroTest Lab
Total Coliform				Subcontract	12/12/16 16:00	EnviroTest Lab
Total Dissolved Solids (SM2540C-11)		12/15/16	BCT	SM2540C-11	12/16/16 00:00	BCT
Total Kjeldahl Nitrogen EPA 351		12/19/16 07:15	EnviroTest	EPA 351	12/20/16 13:20	EnviroTest Lab
Total Suspended Solids (SM2540D-11)		12/14/16	BCT	SM2540D-11	12/15/16 00:00	BCT
Volatile Organics (no search) 624	EPA 624			EPA 624	12/14/16 00:18	SG

Laboratory Chronicle

Client: PORT AUTHORITY OF NY & NJ

HC Project #: 6121303

Project: Stewart Stormwater

Lab#: AC95154-006

Sample ID: Outfall 006

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Ammonia (SM4500-NH3B/C)		12/16/16	BCT	SM4500-NH3B	12/16/16 00:00	BCT
Bacteriological				Subcontract	12/12/16 16:10	EnviroTest Lab
BOD-5 Day (SM5210 B-01)		12/14/16 07:00	BCT/SDL	SM5210 B-01	12/19/16 11:00	BCT
COD HACH 8000		12/13/16	BCT	HACH 8000	12/13/16 00:00	BCT
Cyanide-Water (EPA 335.4)	EPA 335.4	12/13/16	Anthony	EPA 335.4	12/13/16 16:34	JMP
Fecal Coliform				Subcontract	12/12/16 16:00	EnviroTest Lab
Glycols (GC/FID) 8015	H2O Extract	12/14/15	mahaliac	EPA 8015D	12/14/16 13:57	MS/MLC/ZM
Hardness 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 18:35	SRB
Mercury (Aqueous) 1631		12/20/16 07:30	ALS	EPA 1631	12/20/16 12:20	ALS
Nitrate-N (Water) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 19:40	Janee
Nitrite-N (Aqueous) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 19:40	Janee
Oil & Grease 1664B	EPA 1664B	12/15/16	Ndoshi	EPA 1664B	12/16/16 00:00	Ndoshi
Phenols (Water) 420.1	EPA 420.1	12/15/16	JW	EPA 420.1	12/15/16 00:00	JW
Phosphorus-Total (SM4500-P E 19th ed)	SM4500-PE 19	12/15/16	BCT	SM4500-PE 19	12/15/16 00:00	BCT
PP Metals 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 18:35	SRB
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/14/16 13:34	PC
Semivolatile Organics (no search) 625	EPA 625	12/14/16	jkr/jir	EPA 625	12/14/16 16:10	AH/JP
Settleable Solids (SM2540F-97)				SM2540F-97	12/12/16 15:45	EnviroTest Lab
Total Coliform				Subcontract	12/12/16 16:00	EnviroTest Lab
Total Dissolved Solids (SM2540C-11)		12/15/16	BCT	SM2540C-11	12/16/16 00:00	BCT
Total Kjeldahl Nitrogen EPA 351		12/19/16 07:15	EnviroTest	EPA 351	12/20/16 13:21	EnviroTest Lab
Total Suspended Solids (SM2540D-11)		12/14/16	BCT	SM2540D-11	12/15/16 00:00	BCT
Volatile Organics (no search) 624	EPA 624			EPA 624	12/14/16 00:37	SG

Laboratory Chronicle

Client: PORT AUTHORITY OF NY & NJ

HC Project #: 6121303

Project: Stewart Stormwater

Lab#: AC95154-007

Sample ID: Outfall 007

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Ammonia (SM4500-NH3B/C)		12/16/16	BCT	SM4500-NH3B	12/16/16 00:00	BCT
Bacteriological				Subcontract	12/12/16 16:10	EnviroTest Lab
BOD-5 Day (SM5210 B-01)		12/14/16 07:00	BCT/SDL	SM5210 B-01	12/19/16 11:00	BCT
COD HACH 8000		12/13/16	BCT	HACH 8000	12/13/16 00:00	BCT
Cyanide-Water (EPA 335.4)	EPA 335.4	12/13/16	Anthony	EPA 335.4	12/13/16 16:36	JMP
Fecal Coliform				Subcontract	12/12/16 16:20	EnviroTest Lab
Glycols (GC/FID) 8015	H2O Extract	12/14/15	mahaliac	EPA 8015D	12/14/16 14:10	MS/MLC/ZM
Hardness 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 18:38	SRB
Mercury (Aqueous) 1631		12/20/16 07:30	ALS	EPA 1631	12/20/16 12:28	ALS
Nitrate-N (Water) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 20:06	Janee
Nitrite-N (Aqueous) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 20:06	Janee
Oil & Grease 1664B	EPA 1664B	12/15/16	Ndoshi	EPA 1664B	12/16/16 00:00	Ndoshi
Phenols (Water) 420.1	EPA 420.1	12/15/16	JW	EPA 420.1	12/15/16 00:00	JW
Phosphorus-Total (SM4500-P E 19th ed)	SM4500-PE 19	12/15/16	BCT	SM4500-PE 19	12/15/16 00:00	BCT
PP Metals 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 18:38	SRB
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/14/16 13:37	PC
Semivolatile Organics (no search) 625	EPA 625	12/14/16	jkr/jir	EPA 625	12/14/16 16:33	AH/JB
Settleable Solids (SM2540F-97)				SM2540F-97	12/12/16 10:25	EnviroTest Lab
Total Coliform				Subcontract	12/12/16 16:20	EnviroTest Lab
Total Dissolved Solids (SM2540C-11)		12/15/16	BCT	SM2540C-11	12/16/16 00:00	BCT
Total Kjeldahl Nitrogen EPA 351		12/19/16 07:15	EnviroTest	EPA 351	12/20/16 13:28	EnviroTest Lab
Total Suspended Solids (SM2540D-11)		12/14/16	BCT	SM2540D-11	12/15/16 00:00	BCT
Volatile Organics (no search) 624	EPA 624			EPA 624	12/14/16 00:57	SG

Laboratory Chronicle

Client: PORT AUTHORITY OF NY & NJ

HC Project #: 6121303

Project: Stewart Stormwater

Lab#: AC95154-008

Sample ID: Outfall 008

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Ammonia (SM4500-NH3B/C)		12/16/16	BCT	SM4500-NH3B	12/16/16 00:00	BCT
Bacteriological				Subcontract	12/12/16 16:10	EnviroTest Lab
BOD-5 Day (SM5210 B-01)		12/14/16 07:00	BCT/SDL	SM5210 B-01	12/19/16 11:00	BCT
COD HACH 8000		12/13/16	BCT	HACH 8000	12/13/16 00:00	BCT
Cyanide-Water (EPA 335.4)	EPA 335.4	12/13/16	Anthony	EPA 335.4	12/13/16 16:38	JMP
Fecal Coliform				Subcontract	12/12/16 16:20	EnviroTest Lab
Glycols (GC/FID) 8015	H2O Extract	12/14/15	mahaliac	EPA 8015D	12/14/16 14:23	MS/MLC/ZM
Hardness 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 18:42	SRB
Mercury (Aqueous) 1631		12/20/16 07:30	ALS	EPA 1631	12/20/16 12:36	ALS
Nitrate-N (Water) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 20:31	Janee
Nitrite-N (Aqueous) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 20:31	Janee
Oil & Grease 1664B	EPA 1664B	12/15/16	Ndoshi	EPA 1664B	12/16/16 00:00	Ndoshi
Phenols (Water) 420.1	EPA 420.1	12/15/16	JW	EPA 420.1	12/15/16 00:00	JW
Phosphorus-Total (SM4500-P E 19th ed)	SM4500-PE 19	12/15/16	BCT	SM4500-PE 19	12/15/16 00:00	BCT
PP Metals 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 18:42	SRB
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/14/16 13:40	PC
Semivolatile Organics (no search) 625	EPA 625	12/14/16	jkir/jir	EPA 625	12/14/16 16:55	AH/JB
Settleable Solids (SM2540F-97)				SM2540F-97	12/12/16 10:25	EnviroTest Lab
Total Coliform				Subcontract	12/12/16 16:20	EnviroTest Lab
Total Dissolved Solids (SM2540C-11)		12/15/16	BCT	SM2540C-11	12/16/16 00:00	BCT
Total Kjeldahl Nitrogen EPA 351		12/19/16 07:15	EnviroTest	EPA 351	12/20/16 13:29	EnviroTest Lab
Total Suspended Solids (SM2540D-11)		12/14/16	BCT	SM2540D-11	12/15/16 00:00	BCT
Volatile Organics (no search) 624	EPA 624			EPA 624	12/14/16 08:44	SG

Laboratory Chronicle

6121303 0024

Client: PORT AUTHORITY OF NY & NJ

HC Project #: 6121303

Project: Stewart Stormwater

Lab#: AC95154-009

Sample ID: Outfall 009

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Ammonia (SM4500-NH3B/C)		12/16/16	BCT	SM4500-NH3B	12/16/16 00:00	BCT
Bacteriological				Subcontract	12/12/16 16:10	EnviroTest Lab
BOD-5 Day (SM5210 B-01)		12/14/16 07:00	BCT/SDL	SM5210 B-01	12/19/16 11:00	BCT
COD HACH 8000		12/13/16	BCT	HACH 8000	12/13/16 00:00	BCT
Cyanide-Water (EPA 335.4)	EPA 335.4	12/13/16	Anthony	EPA 335.4	12/13/16 16:41	JMP
Fecal Coliform				Subcontract	12/12/16 16:20	EnviroTest Lab
Glycols (GC/FID) 8015	H2O Extract	12/14/15	mahaliac	EPA 8015D	12/14/16 14:37	MS/MLC/ZM
Hardness 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 18:45	SRB
Mercury (Aqueous) 1631		12/20/16 07:30	ALS	EPA 1631	12/20/16 12:43	ALS
Nitrate-N (Water) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 20:56	Janee
Nitrite-N (Aqueous) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 20:56	Janee
Oil & Grease 1664B	EPA 1664B	12/15/16	Ndoshi	EPA 1664B	12/16/16 00:00	Ndoshi
Phenols (Water) 420.1	EPA 420.1	12/15/16	JW	EPA 420.1	12/15/16 00:00	JW
Phosphorus-Total (SM4500-P E 19th ed)	SM4500-PE 19	12/15/16	BCT	SM4500-PE 19	12/15/16 00:00	BCT
PP Metals 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 18:45	SRB
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/14/16 13:43	PC
Semivolatile Organics (no search) 625	EPA 625	12/14/16	jkr/jir	EPA 625	12/14/16 17:17	AH/JB
Settleable Solids (SM2540F-97)				SM2540F-97	12/12/16 10:25	EnviroTest Lab
Total Coliform				Subcontract	12/12/16 16:20	EnviroTest Lab
Total Dissolved Solids (SM2540C-11)		12/15/16	BCT	SM2540C-11	12/16/16 00:00	BCT
Total Kjeldahl Nitrogen EPA 351		12/19/16 07:15	EnviroTest	EPA 351	12/20/16 13:30	EnviroTest Lab
Total Suspended Solids (SM2540D-11)		12/14/16	BCT	SM2540D-11	12/15/16 00:00	BCT
Volatile Organics (no search) 624	EPA 624			EPA 624	12/14/16 09:03	SG

Laboratory Chronicle

Client: PORT AUTHORITY OF NY & NJ

HC Project #: 6121303

Project: Stewart Stormwater

Lab#: AC95154-010

Sample ID: Outfall 010

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Ammonia (SM4500-NH3B/C)		12/16/16	BCT	SM4500-NH3B	12/16/16 00:00	BCT
Bacteriological				Subcontract	12/12/16 16:10	EnviroTest Lab
BOD-5 Day (SM5210 B-01)		12/14/16 07:00	BCT/SDL	SM5210 B-01	12/19/16 11:00	BCT
COD HACH 8000		12/13/16	BCT	HACH 8000	12/13/16 00:00	BCT
Cyanide-Water (EPA 335.4)	EPA 335.4	12/13/16	Anthony	EPA 335.4	12/13/16 16:43	JMP
Fecal Coliform				Subcontract	12/12/16 16:00	EnviroTest Lab
Glycols (GC/FID) 8015	H2O Extract	12/14/15	mahaliac	EPA 8015D	12/14/16 14:50	MS/MLC/ZM
Hardness 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 18:57	SRB
Mercury (Aqueous) 1631		12/20/16 07:30	ALS	EPA 1631	12/20/16 13:44	ALS
Nitrate-N (Water) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 21:21	Janee
Nitrite-N (Aqueous) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 21:21	Janee
Oil & Grease 1664B	EPA 1664B	12/15/16	Ndoshi	EPA 1664B	12/16/16 00:00	Ndoshi
Phenols (Water) 420.1	EPA 420.1	12/15/16	JW	EPA 420.1	12/15/16 00:00	JW
Phosphorus-Total (SM4500-P E 19th ed)	SM4500-PE 19	12/15/16	BCT	SM4500-PE 19	12/15/16 00:00	BCT
PP Metals 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 18:57	SRB
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/15/16 11:22	PC
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/14/16 13:53	PC
Semivolatile Organics (no search) 625	EPA 625	12/14/16	jkr/jir	EPA 625	12/14/16 17:40	AH/JB
Settleable Solids (SM2540F-97)				SM2540F-97	12/12/16 10:25	EnviroTest Lab
Total Coliform				Subcontract	12/12/16 16:00	EnviroTest Lab
Total Dissolved Solids (SM2540C-11)		12/15/16	BCT	SM2540C-11	12/16/16 00:00	BCT
Total Kjeldahl Nitrogen EPA 351		12/19/16 07:15	EnviroTest	EPA 351	12/20/16 13:22	EnviroTest Lab
Total Suspended Solids (SM2540D-11)		12/14/16	BCT	SM2540D-11	12/15/16 00:00	BCT
Volatile Organics (no search) 624	EPA 624			EPA 624	12/14/16 09:22	SG

Laboratory Chronicle

Client: PORT AUTHORITY OF NY & NJ

HC Project #: 6121303

Project: Stewart Stormwater

Lab#: AC95154-011

Sample ID: Outfall 011

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Ammonia (SM4500-NH3B/C)		12/19/16	JW	SM4500-NH3B	12/19/16 00:00	JW
Bacteriological				Subcontract	12/12/16 16:10	EnviroTest Lab
BOD-5 Day (SM5210 B-01)		12/14/16 07:00	BCT/SDL	SM5210 B-01	12/19/16 11:00	BCT
COD HACH 8000		12/13/16	BCT	HACH 8000	12/13/16 00:00	BCT
Cyanide-Water (EPA 335.4)	EPA 335.4	12/13/16	Anthony	EPA 335.4	12/13/16 16:45	JMP
Fecal Coliform				Subcontract	12/12/16 16:39	EnviroTest Lab
Glycols (GC/FID) 8015	H2O Extract	12/14/15	mahaliac	EPA 8015D	12/14/16 15:04	MS/MLC/ZM
Hardness 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 19:01	SRB
Mercury (Aqueous) 1631		12/20/16 07:30	ALS	EPA 1631	12/20/16 13:52	ALS
Nitrate-N (Water) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 21:46	Janee
Nitrite-N (Aqueous) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 21:46	Janee
Oil & Grease 1664B	EPA 1664B	12/15/16	Ndoshi	EPA 1664B	12/16/16 00:00	Ndoshi
Phenols (Water) 420.1	EPA 420.1	12/15/16	JW	EPA 420.1	12/15/16 00:00	JW
Phosphorus-Total (SM4500-P E 19th ed)	SM4500-PE 19	12/15/16	BCT	SM4500-PE 19	12/15/16 00:00	BCT
PP Metals 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 19:01	SRB
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/15/16 11:25	PC
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/14/16 13:56	PC
Semivolatile Organics (no search) 625	EPA 625	12/14/16	jkr/jir	EPA 625	12/14/16 18:02	AH/JB
Settleable Solids (SM2540F-97)				SM2540F-97	12/12/16 10:25	EnviroTest Lab
Total Coliform				Subcontract	12/12/16 16:39	EnviroTest Lab
Total Dissolved Solids (SM2540C-11)		12/15/16	BCT	SM2540C-11	12/16/16 00:00	BCT
Total Kjeldahl Nitrogen EPA 351		12/19/16 07:15	EnviroTest	EPA 351	12/20/16 13:31	EnviroTest Lab
Total Suspended Solids (SM2540D-11)		12/14/16	BCT	SM2540D-11	12/15/16 00:00	BCT
Volatile Organics (no search) 624	EPA 624			EPA 624	12/14/16 10:59	SG

Laboratory Chronicle

6121303 0027

Client: PORT AUTHORITY OF NY & NJ

HC Project #: 6121303

Project: Stewart Stormwater

Lab#: AC95154-012

Sample ID: Outfall 012

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Ammonia (SM4500-NH3B/C)		12/19/16	JW	SM4500-NH3B	12/19/16 00:00	JW
Bacteriological				Subcontract	12/12/16 16:10	EnviroTest Lab
BOD-5 Day (SM5210 B-01)		12/14/16 07:00	BCT/SDL	SM5210 B-01	12/19/16 11:00	BCT
COD HACH 8000		12/13/16	BCT	HACH 8000	12/13/16 00:00	BCT
Cyanide-Water (EPA 335.4)	EPA 335.4	12/13/16	Anthony	EPA 335.4	12/13/16 16:52	JMP
Fecal Coliform				Subcontract	12/12/16 16:39	EnviroTest Lab
Glycols (GC/FID) 8015	H2O Extract	12/14/15	mahaliac	EPA 8015D	12/14/16 15:17	MS/MLC/ZM
Hardness 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 19:05	SRB
Mercury (Aqueous) 1631		12/20/16 07:30	ALS	EPA 1631	12/20/16 14:00	ALS
Nitrate-N (Water) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 22:11	Janee
Nitrite-N (Aqueous) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 22:11	Janee
Oil & Grease 1664B	EPA 1664B	12/15/16	Ndoshi	EPA 1664B	12/16/16 00:00	Ndoshi
Phenols (Water) 420.1	EPA 420.1	12/15/16	JW	EPA 420.1	12/15/16 00:00	JW
Phosphorus-Total (SM4500-P E 19th ed)	SM4500-PE 19	12/15/16	BCT	SM4500-PE 19	12/15/16 00:00	BCT
PP Metals 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 19:05	SRB
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/14/16 13:59	PC
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/15/16 11:28	PC
Semivolatile Organics (no search) 625	EPA 625	12/14/16	jkr/jir	EPA 625	12/14/16 18:24	AH/JB
Settleable Solids (SM2540F-97)				SM2540F-97	12/12/16 10:25	EnviroTest Lab
Total Coliform				Subcontract	12/12/16 16:39	EnviroTest Lab
Total Dissolved Solids (SM2540C-11)		12/15/16	BCT	SM2540C-11	12/16/16 00:00	BCT
Total Kjeldahl Nitrogen EPA 351		12/19/16 07:15	EnviroTest	EPA 351	12/20/16 13:32	EnviroTest Lab
Total Suspended Solids (SM2540D-11)		12/14/16	BCT	SM2540D-11	12/15/16 00:00	BCT
Volatile Organics (no search) 624	EPA 624			EPA 624	12/14/16 09:42	SG

Laboratory Chronicle

6121303 0028

Client: PORT AUTHORITY OF NY & NJ

HC Project #: 6121303

Project: Stewart Stormwater

Lab#: AC95154-013

Sample ID: Outfall 013

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Ammonia (SM4500-NH3B/C)		12/19/16	JW	SM4500-NH3B	12/19/16 00:00	JW
Bacteriological				Subcontract	12/12/16 16:10	EnviroTest Lab
BOD-5 Day (SM5210 B-01)		12/14/16 07:00	BCT/SDL	SM5210 B-01	12/19/16 11:00	BCT
COD HACH 8000		12/13/16	BCT	HACH 8000	12/13/16 00:00	BCT
Cyanide-Water (EPA 335.4)	EPA 335.4	12/13/16	Anthony	EPA 335.4	12/13/16 16:55	JMP
Fecal Coliform				Subcontract	12/12/16 16:39	EnviroTest Lab
Glycols (GC/FID) 8015	H2O Extract	12/14/15	mahaliac	EPA 8015D	12/14/16 15:30	MS/MLC/ZM
Hardness 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 19:08	SRB
Mercury (Aqueous) 1631		12/20/16 07:30	ALS	EPA 1631	12/20/16 14:07	ALS
Nitrate-N (Water) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 22:37	Janee
Nitrite-N (Aqueous) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 22:37	Janee
Oil & Grease 1664B	EPA 1664B	12/15/16	Ndoshi	EPA 1664B	12/16/16 00:00	Ndoshi
Phenols (Water) 420.1	EPA 420.1	12/15/16	JW	EPA 420.1	12/15/16 00:00	JW
Phosphorus-Total (SM4500-P E 19th ed)	SM4500-PE 19	12/15/16	BCT	SM4500-PE 19	12/15/16 00:00	BCT
PP Metals 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 19:08	SRB
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/15/16 11:32	PC
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/14/16 14:02	PC
Semivolatile Organics (no search) 625	EPA 625	12/14/16	jkr/jir	EPA 625	12/14/16 18:47	AH/JB
Settleable Solids (SM2540F-97)				SM2540F-97	12/12/16 10:25	EnviroTest Lab
Total Coliform				Subcontract	12/12/16 16:39	EnviroTest Lab
Total Dissolved Solids (SM2540C-11)		12/15/16	BCT	SM2540C-11	12/16/16 00:00	BCT
Total Kjeldahl Nitrogen EPA 351		12/19/16 07:15	EnviroTest	EPA 351	12/20/16 13:33	EnviroTest Lab
Total Suspended Solids (SM2540D-11)		12/14/16	BCT	SM2540D-11	12/15/16 00:00	BCT
Volatile Organics (no search) 624	EPA 624			EPA 624	12/14/16 10:01	SG

Laboratory Chronicle

Client: PORT AUTHORITY OF NY & NJ

HC Project #: 6121303

Project: Stewart Stormwater

Lab#: AC95154-014

Sample ID: Outfall 014

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Ammonia (SM4500-NH3B/C)		12/19/16	JW	SM4500-NH3B	12/19/16 00:00	JW
Bacteriological				Subcontract	12/12/16 16:10	EnviroTest Lab
BOD-5 Day (SM5210 B-01)		12/14/16 07:00	BCT/SDL	SM5210 B-01	12/19/16 11:00	BCT
COD HACH 8000		12/13/16	BCT	HACH 8000	12/13/16 00:00	BCT
Cyanide-Water (EPA 335.4)	EPA 335.4	12/13/16	Anthony	EPA 335.4	12/13/16 16:57	JMP
Fecal Coliform				Subcontract	12/12/16 16:39	EnviroTest Lab
Glycols (GC/FID) 8015	H2O Extract	12/14/15	mahaliac	EPA 8015D	12/14/16 15:43	MS/MLC/ZM
Hardness 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 19:12	SRB
Mercury (Aqueous) 1631		12/20/16 07:30	ALS	EPA 1631	12/20/16 14:15	ALS
Nitrate-N (Water) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 23:02	Janee
Nitrite-N (Aqueous) 300.0		12/13/16	Janee	300.0 rev2.1	12/13/16 23:02	Janee
Oil & Grease 1664B	EPA 1664B	12/15/16	Ndoshi	EPA 1664B	12/16/16 00:00	Ndoshi
Phenols (Water) 420.1	EPA 420.1	12/15/16	JW	EPA 420.1	12/15/16 00:00	JW
Phosphorus-Total (SM4500-P E 19th ed)	SM4500-PE 19	12/15/16	BCT	SM4500-PE 19	12/15/16 00:00	BCT
PP Metals 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 19:12	SRB
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/15/16 11:35	PC
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/14/16 14:05	PC
Semivolatile Organics (no search) 625	EPA 625	12/14/16	jkr/jir	EPA 625	12/14/16 19:09	AH/JB
Settleable Solids (SM2540F-97)				SM2540F-97	12/12/16 10:25	EnviroTest Lab
Total Coliform				Subcontract	12/12/16 16:39	EnviroTest Lab
Total Dissolved Solids (SM2540C-11)		12/15/16	BCT	SM2540C-11	12/16/16 00:00	BCT
Total Kjeldahl Nitrogen EPA 351		12/19/16 07:15	EnviroTest	EPA 351	12/20/16 13:34	EnviroTest Lab
Total Suspended Solids (SM2540D-11)		12/14/16	BCT	SM2540D-11	12/15/16 00:00	BCT
Volatile Organics (no search) 624	EPA 624			EPA 624	12/14/16 10:20	SG

Laboratory Chronicle

Client: PORT AUTHORITY OF NY & NJ

HC Project #: 6121303

Project: Stewart Stormwater

Lab#: AC95154-015

Sample ID: Outfall 015

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Ammonia (SM4500-NH3B/C)		12/19/16	JW	SM4500-NH3B	12/19/16 00:00	JW
Bacteriological				Subcontract	12/12/16 16:10	EnviroTest Lab
BOD-5 Day (SM5210 B-01)		12/14/16 07:00	BCT/SDL	SM5210 B-01	12/19/16 11:00	BCT
COD HACH 8000		12/13/16	BCT	HACH 8000	12/13/16 00:00	BCT
Cyanide-Water (EPA 335.4)	EPA 335.4	12/13/16	Anthony	EPA 335.4	12/13/16 16:59	JMP
Fecal Coliform				Subcontract	12/12/16 16:39	EnviroTest Lab
Glycols (GC/FID) 8015	H2O Extract	12/14/15	inahaliac	EPA 8015D	12/14/16 15:57	MS/MLC/ZM
Hardness 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 19:15	SRB
Mercury (Aqueous) 1631		12/20/16 07:30	ALS	EPA 1631	12/20/16 14:23	ALS
Nitrate-N (Water) 300.0		12/13/16	Janee	300.0 rev2.1	12/14/16 00:43	Janee
Nitrite-N (Aqueous) 300.0		12/13/16	Janee	300.0 rev2.1	12/14/16 00:43	Janee
Oil & Grease 1664B	EPA 1664B	12/15/16	Ndoshi	EPA 1664B	12/16/16 00:00	Ndoshi
Phenols (Water) 420.1	EPA 420.1	12/15/16	JW	EPA 420.1	12/15/16 00:00	JW
Phosphorus-Total (SM4500-P E 19th ed)	SM4500-PE 19	12/15/16	BCT	SM4500-PE 19	12/15/16 00:00	BCT
PP Metals 200.7	EPA 200.2	12/14/16	snezana	EPA 200.7	12/14/16 19:15	SRB
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/15/16 11:38	PC
PP Metals 200.8	EPA 200.2	12/14/16	snezana	EPA 200.8	12/14/16 14:08	PC
Semivolatile Organics (no search) 625	EPA 625	12/14/16	jkr/jir	EPA 625	12/14/16 19:31	AH/JB
Settleable Solids (SM2540F-97)				SM2540F-97	12/12/16 15:45	EnviroTest Lab
Total Coliform				Subcontract	12/12/16 16:39	EnviroTest Lab
Total Dissolved Solids (SM2540C-11)		12/15/16	BCT	SM2540C-11	12/16/16 00:00	BCT
Total Kjeldahl Nitrogen EPA 351		12/19/16 07:15	EnviroTest	EPA 351	12/20/16 13:35	EnviroTest Lab
Total Suspended Solids (SM2540D-11)		12/14/16	BCT	SM2540D-11	12/15/16 00:00	BCT
Volatile Organics (no search) 624	EPA 624			EPA 624	12/14/16 10:39	SG

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

MDL = Method Detection Limit

RL* = Reporting Limit

ND = Not Detected

RT = Retention Time

NA = Not Applicable

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

- A-** Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.
- B-** Indicates analyte was present in the Method Blank and sample.
- d-** For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.
- E-** Indicates the concentration exceeded the upper calibration range of the instrument.
- J-** Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.
- R-** Retention Time is out.
- Y-** Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

HC Report of Analysis

Client: PORT AUTHORITY OF NY & NJ

HC Project #: 6121303

Project: Stewart Stormwater

Sample ID: Outfall 001
 Lab#: AC95154-001
 Matrix: Aqueous

Collection Date: 12/12/2016

Receipt Date: 12/13/2016

Ammonia (SM4500-NH3B/C).2

Analyte	DF	Units	RL	Result
Ammonia	1	mg/l	1.0	ND

Bacteriological

Analyte	DF	Units	RL	Result
Enterococci, Mpn	1	mpn/100 ml	1.00	39.5

BOD-5 Day (SM5210 B-01)

Analyte	DF	Units	RL	Result
Biochemical Oxygen Demand, 5 Day	1	mg/l	2.0	ND

COD HACH 8000

Analyte	DF	Units	RL	Result
Chemical Oxygen Demand	1	mg/l	10	ND

Cyanide (Water) EPA 335.4

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Fecal Coliform

Analyte	DF	Units	RL	Result
Fecal Coliform	1	cfu/100 ml	10.0	80.0

Glycols (GC/FID) 8015

Analyte	DF	Units	RL	Result
Ethylene Glycol	1	ug/l	50000	ND
Propylene Glycol	1	ug/l	50000	ND

Hardness 200.7

Analyte	DF	Units	RL	Result
Hardness	1	mg cac03/l	6.6	240

Mercury (Aqueous) 1631

Analyte	DF	Units	RL	Result
Mercury	1	ng/l	0.50	2.8

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	1.1

Nitrite-N (Aqueous) 300.0

Analyte	DF	Units	RL	Result
Nitrite	1	mg/l	1.0	ND

Oil & Grease 1664B

Analyte	DF	Units	RL	Result
Oil & Grease	1	mg/l	7.5	ND

Phenols (Water) 420.1

Analyte	DF	Units	RL	Result
Total Phenolics	1	mg/l	0.05	ND

Sample ID: Outfall 001
 Lab#: AC95154-001
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Phosphorus-Total (SM4500-P E 19th ed)

Analyte	DF	Units	RL	Result
Phosphorus (Total)	1	mg/l	0.1	ND

PP Metals 200.7

Analyte	DF	Units	RL	Result
Barium	1	ug/l	25	ND
Chromium	1	ug/l	25	ND
Copper	1	ug/l	25	ND
Nickel	1	ug/l	10	ND
Silver	1	ug/l	10	ND
Zinc	1	ug/l	25	ND

PP Metals 200.8

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.5	ND
Arsenic	1	ug/l	1.0	ND
Beryllium	1	ug/l	0.75	ND
Cadmium	1	ug/l	1.0	ND
Lead	1	ug/l	0.75	2.3
Selenium	1	ug/l	5.0	ND
Thallium	1	ug/l	1.5	ND

Semivolatile Organics (no search) 625

Analyte	DF	Units	RL	Result
1,2-Diphenylhydrazine	1	ug/l	2.1	ND
2,4,6-Trichlorophenol	1	ug/l	2.1	ND
2,4-Dichlorophenol	1	ug/l	0.84	ND
2,4-Dimethylphenol	1	ug/l	0.53	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.1	ND
2,6-Dinitrotoluene	1	ug/l	2.1	ND
2-Chloronaphthalene	1	ug/l	2.1	ND
2-Chlorophenol	1	ug/l	2.1	ND
2-Nitrophenol	1	ug/l	2.1	ND
3,3'-Dichlorobenzidine	1	ug/l	2.1	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.1	ND
4-Chloro-3-methylphenol	1	ug/l	2.1	ND
4-Chlorophenyl-phenylether	1	ug/l	2.1	ND
4-Nitrophenol	1	ug/l	2.1	ND
Acenaphthene	1	ug/l	2.1	ND
Acenaphthylene	1	ug/l	2.1	ND
Anthracene	1	ug/l	2.1	ND
Benzidine	1	ug/l	3.3	ND
Benzo[a]anthracene	1	ug/l	2.1	ND
Benzo[a]pyrene	1	ug/l	2.1	ND
Benzo[b]fluoranthene	1	ug/l	2.1	ND
Benzo[g,h,i]perylene	1	ug/l	2.1	ND
Benzo[k]fluoranthene	1	ug/l	2.1	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.1	ND
bis(2-Chloroethyl)ether	1	ug/l	0.53	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.1	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.1	ND
Butylbenzylphthalate	1	ug/l	2.1	ND
Chrysene	1	ug/l	2.1	ND
Dibenzo[a,h]anthracene	1	ug/l	2.1	ND

Sample ID: Outfall 001
 Lab#: AC95154-001
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Diethylphthalate	1	ug/l	2.1	ND
Dimethylphthalate	1	ug/l	2.1	ND
Di-n-butylphthalate	1	ug/l	0.53	ND
Di-n-octylphthalate	1	ug/l	2.1	ND
Fluoranthene	1	ug/l	2.1	ND
Fluorene	1	ug/l	2.1	ND
Hexachlorobenzene	1	ug/l	2.1	ND
Hexachlorobutadiene	1	ug/l	2.1	ND
Hexachlorocyclopentadiene	1	ug/l	2.1	ND
Hexachloroethane	1	ug/l	2.1	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.1	ND
Isophorone	1	ug/l	2.1	ND
Naphthalene	1	ug/l	0.53	ND
Nitrobenzene	1	ug/l	2.1	ND
N-Nitrosodimethylamine	1	ug/l	2.1	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.53	ND
N-Nitrosodiphenylamine	1	ug/l	2.1	ND
Pentachlorophenol	1	ug/l	11	ND
Phenanthrene	1	ug/l	2.1	ND
Phenol	1	ug/l	2.1	ND
Pyrene	1	ug/l	2.1	ND

Settleable Solids (SM2540F-97)

Analyte	DF	Units	RL	Result
Settleable Solids	1	1.00	mL/L	ND

Total Coliform

Analyte	DF	Units	RL	Result
Total Coliform	10	cfu/100 ml	10.0	110

Total Dissolved Solids (SM2540C-97)

Analyte	DF	Units	RL	Result
Total Dissolved Solids @ 180 C	1	mg/l	40	430

Total Kjeldahl Nitrogen EPA 351

Analyte	DF	Units	RL	Result
Total Kjeldahl Nitrogen	1	mg/l	1.00	ND

Total Suspended Solids (SM2540D-97)

Analyte	DF	Units	RL	Result
Total Suspended Solids @ 103-105 C	1	mg/l	4	ND

Volatile Organics (no search) 624

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Chloroethylvinylether	1	ug/l	1.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND

Sample ID: Outfall 001
 Lab#: AC95154-001
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: Outfall 002
 Lab#: AC95154-002
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Ammonia (SM4500-NH3B/C)

Analyte	DF	Units	RL	Result
Ammonia	1	mg/l	1.0	ND

Bacteriological

Analyte	DF	Units	RL	Result
Enterococci, Mpn	1	mpn/100 ml	1.00	ND

BOD-5 Day (SM5210 B-01)

Analyte	DF	Units	RL	Result
Biochemical Oxygen Demand, 5 Day	1	mg/l	2.0	ND

COD HACH 8000

Analyte	DF	Units	RL	Result
Chemical Oxygen Demand	1	mg/l	10	22

Cyanide-Water (EPA 335.4)

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Fecal Coliform

Analyte	DF	Units	RL	Result
Fecal Coliform	1	cfu/100 ml	10.0	30.0

Glycols (GC/FID) 8015

Analyte	DF	Units	RL	Result
Ethylene Glycol	1	ug/l	50000	ND
Propylene Glycol	1	ug/l	50000	ND

Hardness 200.7

Analyte	DF	Units	RL	Result
Hardness	1	mg cacO3/l	6.6	420

Mercury (Aqueous) 1631

Analyte	DF	Units	RL	Result
Mercury	1	ng/l	0.50	7.5

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	1.2

Nitrite-N (Aqueous) 300.0

Analyte	DF	Units	RL	Result
Nitrite	1	mg/l	1.0	ND

Oil & Grease 1664B

Analyte	DF	Units	RL	Result
Oil & Grease	1	mg/l	5.3	ND

Phenols (Water) 420.1

Analyte	DF	Units	RL	Result
Total Phenolics	1	mg/l	0.05	ND

Phosphorus-Total (SM4500-P E 19th ed)

Analyte	DF	Units	RL	Result
Phosphorus (Total)	1	mg/l	0.1	ND

PP Metals 200.7

Analyte	DF	Units	RL	Result
Barium	1	ug/l	25	42

Sample ID: Outfall 002
 Lab#: AC95154-002
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Chromium	1	ug/l	25	ND
Copper	1	ug/l	25	ND
Nickel	1	ug/l	10	ND
Silver	1	ug/l	10	ND
Zinc	1	ug/l	25	ND

PP Metals 200.8

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.5	ND
Arsenic	1	ug/l	1.0	ND
Beryllium	1	ug/l	0.75	ND
Cadmium	1	ug/l	1.0	ND
Lead	1	ug/l	0.75	ND
Selenium	1	ug/l	5.0	ND
Thallium	1	ug/l	1.5	ND

Semivolatile Organics (no search) 625

Analyte	DF	Units	RL	Result
1,2-Diphenylhydrazine	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	0.80	ND
2,4-Dimethylphenol	1	ug/l	0.50	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Nitrophenol	1	ug/l	2.0	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzidine	1	ug/l	3.1	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.50	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	0.50	ND
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND

Sample ID: Outfall 002
 Lab#: AC95154-002
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	2.0	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitrosodimethylamine	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.50	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Settleable Solids (SM2540F-97)

Analyte	DF	Units	RL	Result
Settleable Solids	1	1.00	mL/L	ND

Total Coliform

Analyte	DF	Units	RL	Result
Total Coliform	10	cfu/100 ml	10.0	50.0

Total Dissolved Solids (SM2540C-11)

Analyte	DF	Units	RL	Result
Total Dissolved Solids @ 180 C	1	mg/l	40	520

Total Kjeldahl Nitrogen EPA 351

Analyte	DF	Units	RL	Result
Total Kjeldahl Nitrogen	1	mg/l	1.00	ND

Total Suspended Solids (SM2540D-11)

Analyte	DF	Units	RL	Result
Total Suspended Solids @ 103-105 C	1	mg/l	4	ND

Volatile Organics (no search) 624

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Chloroethylvinylether	1	ug/l	1.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND

Sample ID: Outfall 002
Lab#: AC95154-002
Matrix: Aqueous

Collection Date: 12/12/2016
Receipt Date: 12/13/2016

Chloromethane	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: Outfall 003
 Lab#: AC95154-003
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Ammonia (SM4500-NH3B/C)

Analyte	DF	Units	RL	Result
Ammonia	1	mg/l	1.0	ND

Bacteriological

Analyte	DF	Units	RL	Result
Enterococci, Mpn	1	mpn/100 ml	1.00	66.3

BOD-5 Day (SM5210 B-01)

Analyte	DF	Units	RL	Result
Biochemical Oxygen Demand, 5 Day	1	mg/l	2.0	92

COD HACH 8000

Analyte	DF	Units	RL	Result
Chemical Oxygen Demand	10	mg/l	100	230

Cyanide-Water (EPA 335.4)

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Fecal Coliform

Analyte	DF	Units	RL	Result
Fecal Coliform	1	cfu/100 ml	10.0	270

Glycols (GC/FID) 8015

Analyte	DF	Units	RL	Result
Ethylene Glycol	1	ug/l	50000	ND
Propylene Glycol	1	ug/l	50000	ND

Hardness 200.7

Analyte	DF	Units	RL	Result
Hardness	1	mg cac03/l	6.6	150

Mercury (Aqueous) 1631

Analyte	DF	Units	RL	Result
Mercury	1	ng/l	1.0	3.6

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	ND

Nitrite-N (Aqueous) 300.0

Analyte	DF	Units	RL	Result
Nitrite	1	mg/l	1.0	ND

Oil & Grease 1664B

Analyte	DF	Units	RL	Result
Oil & Grease	1	mg/l	5.7	ND

Phenols (Water) 420.1

Analyte	DF	Units	RL	Result
Total Phenolics	1	mg/l	0.05	ND

Phosphorus-Total (SM4500-P E 19th ed)

Analyte	DF	Units	RL	Result
Phosphorus (Total)	1	mg/l	0.1	ND

PP Metals 200.7

Analyte	DF	Units	RL	Result
Barium	1	ug/l	25	ND

Sample ID: Outfall 003
 Lab#: AC95154-003
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Chromium	1	ug/l	25	ND
Copper	1	ug/l	25	ND
Nickel	1	ug/l	10	ND
Silver	1	ug/l	10	ND
Zinc	1	ug/l	25	ND

PP Metals 200.8

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.5	ND
Arsenic	1	ug/l	1.0	1.1
Beryllium	1	ug/l	0.75	ND
Cadmium	1	ug/l	1.0	ND
Lead	1	ug/l	0.75	ND
Selenium	1	ug/l	5.0	ND
Thallium	1	ug/l	1.5	ND

Semivolatile Organics (no search) 625

Analyte	DF	Units	RL	Result
1,2-Diphenylhydrazine	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	0.80	ND
2,4-Dimethylphenol	1	ug/l	0.50	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Nitrophenol	1	ug/l	2.0	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzidine	1	ug/l	3.1	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.50	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	2.6
Butylbenzylphthalate	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	0.50	ND
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND

Sample ID: Outfall 003
 Lab#: AC95154-003
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	2.0	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitrosodimethylamine	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.50	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Settleable Solids (SM2540F-97)

Analyte	DF	Units	RL	Result
Settleable Solids	1	1.00	mL/L	ND

Total Coliform

Analyte	DF	Units	RL	Result
Total Coliform	10	cfu/100 ml	10.0	370

Total Dissolved Solids (SM2540C-11)

Analyte	DF	Units	RL	Result
Total Dissolved Solids @ 180 C	1	mg/l	40	320

Total Kjeldahl Nitrogen EPA 351

Analyte	DF	Units	RL	Result
Total Kjeldahl Nitrogen	1	mg/l	1.00	ND

Total Suspended Solids (SM2540D-11)

Analyte	DF	Units	RL	Result
Total Suspended Solids @ 103-105 C	1	mg/l	4	ND

Volatile Organics (no search) 624

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Chloroethylvinylether	1	ug/l	1.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND

Sample ID: Outfall 003
Lab#: AC95154-003
Matrix: Aqueous

Collection Date: 12/12/2016
Receipt Date: 12/13/2016

Chloromethane	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: Outfall 004
 Lab#: AC95154-004
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Ammonia (SM4500-NH3B/C)

Analyte	DF	Units	RL	Result
Ammonia	1	mg/l	1.0	ND

Bacteriological

Analyte	DF	Units	RL	Result
Enterococci, Mpn	1	mpn/100 ml	1.00	23.8

BOD-5 Day (SM5210 B-01)

Analyte	DF	Units	RL	Result
Biochemical Oxygen Demand, 5 Day	1	mg/l	2.0	1800

COD HACH 8000

Analyte	DF	Units	RL	Result
Chemical Oxygen Demand	25	mg/l	250	2800

Cyanide-Water (EPA 335.4)

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Fecal Coliform

Analyte	DF	Units	RL	Result
Fecal Coliform	1	cfu/100 ml	10.0	190

Glycols (GC/FID) 8015

Analyte	DF	Units	RL	Result
Ethylene Glycol	2	ug/l	100000	ND
Propylene Glycol	2	ug/l	100000	1200000

Hardness 200.7

Analyte	DF	Units	RL	Result
Hardness	1	mg cac03/l	6.6	200

Mercury (Aqueous) 1631

Analyte	DF	Units	RL	Result
Mercury	1	ng/l	0.50	0.99

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	ND

Nitrite-N (Aqueous) 300.0

Analyte	DF	Units	RL	Result
Nitrite	1	mg/l	1.0	ND

Oil & Grease 1664B

Analyte	DF	Units	RL	Result
Oil & Grease	1	mg/l	5.3	ND

Phenols (Water) 420.1

Analyte	DF	Units	RL	Result
Total Phenolics	1	mg/l	0.05	ND

Phosphorus-Total (SM4500-P E 19th ed)

Analyte	DF	Units	RL	Result
Phosphorus (Total)	1	mg/l	0.1	0.27

PP Metals 200.7

Analyte	DF	Units	RL	Result
Barium	1	ug/l	25	79

Sample ID: Outfall 004
 Lab#: AC95154-004
 Matrix: Aqueous

Collection Date: 12/12/2016

Receipt Date: 12/13/2016

Chromium	1	ug/l	25	ND
Copper	1	ug/l	25	ND
Nickel	1	ug/l	10	ND
Silver	1	ug/l	10	ND
Zinc	1	ug/l	25	27

PP Metals 200.8

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.5	ND
Arsenic	1	ug/l	1.0	1.2
Beryllium	1	ug/l	0.75	ND
Cadmium	1	ug/l	1.0	ND
Lead	1	ug/l	0.75	ND
Selenium	1	ug/l	5.0	ND
Thallium	1	ug/l	1.5	ND

Semivolatile Organics (no search) 625

Analyte	DF	Units	RL	Result
1,2-Diphenylhydrazine	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	0.80	ND
2,4-Dimethylphenol	1	ug/l	0.50	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Nitrophenol	1	ug/l	2.0	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzidine	1	ug/l	3.1	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.50	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	0.50	1.9
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND

Sample ID: Outfall 004
 Lab#: AC95154-004
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	2.0	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitrosodimethylamine	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.50	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Settleable Solids (SM2540F-97)

Analyte	DF	Units	RL	Result
Settleable Solids	1	1.00	mL/L	ND

Total Coliform

Analyte	DF	Units	RL	Result
Total Coliform	10	cfu/100 ml	10.0	220

Total Dissolved Solids (SM2540C-11)

Analyte	DF	Units	RL	Result
Total Dissolved Solids @ 180 C	1	mg/l	40	360

Total Kjeldahl Nitrogen EPA 351

Analyte	DF	Units	RL	Result
Total Kjeldahl Nitrogen	1	mg/l	1.00	ND

Total Suspended Solids (SM2540D-11)

Analyte	DF	Units	RL	Result
Total Suspended Solids @ 103-105 C	1	mg/l	4	13

Volatile Organics (no search) 624

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Chloroethylvinylether	1	ug/l	1.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND

Sample ID: Outfall 004
 Lab#: AC95154-004
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Chloromethane	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Volatile Organics (no search) 624 Library Searches

Analyte	DF	Units	RT	Result
1,3-Propanediol	1	ug/l	2.951	6000J
Pentanal, 2-methyl-	1	ug/l	5.89	16J
1-Pentanol, 2-methyl-	1	ug/l	6.53	5.9J
2-Pentenal, 2-methyl-	1	ug/l	6.558	24J
TotalVolatileTic	1	ug/l	NA	6000J

Sample ID: Outfall 005
 Lab#: AC95154-005
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Ammonia (SM4500-NH3B/C)

Analyte	DF	Units	RL	Result
Ammonia	1	mg/l	1.0	ND

Bacteriological

Analyte	DF	Units	RL	Result
Enterococci, Mpn	1	mpn/100 ml	1.00	770

BOD-5 Day (SM5210 B-01)

Analyte	DF	Units	RL	Result
Biochemical Oxygen Demand, 5 Day	1	mg/l	2.0	9.8

COD HACH 8000

Analyte	DF	Units	RL	Result
Chemical Oxygen Demand	1	mg/l	10	29

Cyanide-Water (EPA 335.4)

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Fecal Coliform

Analyte	DF	Units	RL	Result
Fecal Coliform	1	cfu/100 ml	10.0	260

Glycols (GC/FID) 8015

Analyte	DF	Units	RL	Result
Ethylene Glycol	1	ug/l	50000	ND
Propylene Glycol	1	ug/l	50000	ND

Hardness 200.7

Analyte	DF	Units	RL	Result
Hardness	1	mg cac03/l	6.6	190

Mercury (Aqueous) 1631

Analyte	DF	Units	RL	Result
Mercury	1	ng/l	0.50	1.8

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	ND

Nitrite-N (Aqueous) 300.0

Analyte	DF	Units	RL	Result
Nitrite	1	mg/l	1.0	ND

Oil & Grease 1664B

Analyte	DF	Units	RL	Result
Oil & Grease	1	mg/l	5.7	ND

Phenols (Water) 420.1

Analyte	DF	Units	RL	Result
Total Phenolics	1	mg/l	0.05	ND

Phosphorus-Total (SM4500-P E 19th ed)

Analyte	DF	Units	RL	Result
Phosphorus (Total)	1	mg/l	0.1	0.18

PP Metals 200.7

Analyte	DF	Units	RL	Result
Barium	1	ug/l	25	ND

Sample ID: Outfall 005
 Lab#: AC95154-005
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Chromium	1	ug/l	25	ND
Copper	1	ug/l	25	ND
Nickel	1	ug/l	10	ND
Silver	1	ug/l	10	ND
Zinc	1	ug/l	25	ND

PP Metals 200.8

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.5	ND
Arsenic	1	ug/l	1.0	ND
Beryllium	1	ug/l	0.75	ND
Cadmium	1	ug/l	1.0	ND
Lead	1	ug/l	0.75	ND
Selenium	1	ug/l	5.0	ND
Thallium	1	ug/l	1.5	ND

Semivolatile Organics (no search) 625

Analyte	DF	Units	RL	Result
1,2-Diphenylhydrazine	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	0.80	ND
2,4-Dimethylphenol	1	ug/l	0.50	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Nitrophenol	1	ug/l	2.0	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzidine	1	ug/l	3.1	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.50	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	0.50	ND
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND

Sample ID: Outfall 005
 Lab#: AC95154-005
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	2.0	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitrosodimethylamine	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.50	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Settleable Solids (SM2540F-97)

Analyte	DF	Units	RL	Result
Settleable Solids	1	1.00	mL/L	ND

Total Coliform

Analyte	DF	Units	RL	Result
Total Coliform	10	cfu/100 ml	10.0	830

Total Dissolved Solids (SM2540C-11)

Analyte	DF	Units	RL	Result
Total Dissolved Solids @ 180 C	1	mg/l	40	290

Total Kjeldahl Nitrogen EPA 351

Analyte	DF	Units	RL	Result
Total Kjeldahl Nitrogen	1	mg/l	1.00	ND

Total Suspended Solids (SM2540D-11)

Analyte	DF	Units	RL	Result
Total Suspended Solids @ 103-105 C	1	mg/l	4	ND

Volatile Organics (no search) 624

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,1,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Chloroethylvinylether	1	ug/l	1.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND

Sample ID: Outfall 005
Lab#: AC95154-005
Matrix: Aqueous

Collection Date: 12/12/2016
Receipt Date: 12/13/2016

Chloromethane	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: Outfall 006
 Lab#: AC95154-006
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Ammonia (SM4500-NH3B/C)

Analyte	DF	Units	RL	Result
Ammonia	1	mg/l	1.0	ND

Bacteriological

Analyte	DF	Units	RL	Result
Enterococci, Mpn	1	mpn/100 ml	1.00	59.1

BOD-5 Day (SM5210 B-01)

Analyte	DF	Units	RL	Result
Biochemical Oxygen Demand, 5 Day	1	mg/l	2.0	ND

COD HACH 8000

Analyte	DF	Units	RL	Result
Chemical Oxygen Demand	1	mg/l	10	14

Cyanide-Water (EPA 335.4)

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Fecal Coliform

Analyte	DF	Units	RL	Result
Fecal Coliform	1	cfu/100 ml	10.0	40.0

Glycols (GC/FID) 8015

Analyte	DF	Units	RL	Result
Ethylene Glycol	1	ug/l	50000	ND
Propylene Glycol	1	ug/l	50000	ND

Hardness 200.7

Analyte	DF	Units	RL	Result
Hardness	1	mg cac03/l	6.6	390

Mercury (Aqueous) 1631

Analyte	DF	Units	RL	Result
Mercury	1	ng/l	0.50	2.1

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	ND

Nitrite-N (Aqueous) 300.0

Analyte	DF	Units	RL	Result
Nitrite	1	mg/l	1.0	ND

Oil & Grease 1664B

Analyte	DF	Units	RL	Result
Oil & Grease	1	mg/l	7.2	ND

Phenols (Water) 420.1

Analyte	DF	Units	RL	Result
Total Phenolics	1	mg/l	0.05	ND

Phosphorus-Total (SM4500-P E 19th ed)

Analyte	DF	Units	RL	Result
Phosphorus (Total)	1	mg/l	0.1	ND

PP Metals 200.7

Analyte	DF	Units	RL	Result
Barium	1	ug/l	25	36

Sample ID: Outfall 006
 Lab#: AC95154-006
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Chromium	1	ug/l	25	ND
Copper	1	ug/l	25	ND
Nickel	1	ug/l	10	ND
Silver	1	ug/l	10	ND
Zinc	1	ug/l	25	ND

PP Metals 200.8

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.5	ND
Arsenic	1	ug/l	1.0	ND
Beryllium	1	ug/l	0.75	ND
Cadmium	1	ug/l	1.0	ND
Lead	1	ug/l	0.75	ND
Selenium	1	ug/l	5.0	ND
Thallium	1	ug/l	1.5	ND

Semivolatile Organics (no search) 625

Analyte	DF	Units	RL	Result
1,2-Diphenylhydrazine	1	ug/l	1.2	ND
2,4,6-Trichlorophenol	1	ug/l	1.2	ND
2,4-Dichlorophenol	1	ug/l	0.50	ND
2,4-Dimethylphenol	1	ug/l	0.31	ND
2,4-Dinitrophenol	1	ug/l	6.2	ND
2,4-Dinitrotoluene	1	ug/l	1.2	ND
2,6-Dinitrotoluene	1	ug/l	1.2	ND
2-Chloronaphthalene	1	ug/l	1.2	ND
2-Chlorophenol	1	ug/l	1.2	ND
2-Nitrophenol	1	ug/l	1.2	ND
3,3'-Dichlorobenzidine	1	ug/l	1.2	ND
4,6-Dinitro-2-methylphenol	1	ug/l	6.2	ND
4-Bromophenyl-phenylether	1	ug/l	1.2	ND
4-Chloro-3-methylphenol	1	ug/l	1.2	ND
4-Chlorophenyl-phenylether	1	ug/l	1.2	ND
4-Nitrophenol	1	ug/l	1.2	ND
Acenaphthene	1	ug/l	1.2	ND
Acenaphthylene	1	ug/l	1.2	ND
Anthracene	1	ug/l	1.2	ND
Benzidine	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	1.2	ND
Benzo[a]pyrene	1	ug/l	1.2	ND
Benzo[b]fluoranthene	1	ug/l	1.2	ND
Benzo[g,h,i]perylene	1	ug/l	1.2	ND
Benzo[k]fluoranthene	1	ug/l	1.2	ND
bis(2-Chloroethoxy)methane	1	ug/l	1.2	ND
bis(2-Chloroethyl)ether	1	ug/l	0.31	ND
bis(2-Chloroisopropyl)ether	1	ug/l	1.2	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	1.2	ND
Butylbenzylphthalate	1	ug/l	1.2	ND
Chrysene	1	ug/l	1.2	ND
Dibenzo[a,h]anthracene	1	ug/l	1.2	ND
Diethylphthalate	1	ug/l	1.2	ND
Dimethylphthalate	1	ug/l	1.2	ND
Di-n-butylphthalate	1	ug/l	0.31	ND
Di-n-octylphthalate	1	ug/l	1.2	ND
Fluoranthene	1	ug/l	1.2	ND
Fluorene	1	ug/l	1.2	ND
Hexachlorobenzene	1	ug/l	1.2	ND

Sample ID: Outfall 006
 Lab#: AC95154-006
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Hexachlorobutadiene	1	ug/l	1.2	ND
Hexachlorocyclopentadiene	1	ug/l	1.2	ND
Hexachloroethane	1	ug/l	1.2	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	1.2	ND
Isophorone	1	ug/l	1.2	ND
Naphthalene	1	ug/l	0.31	ND
Nitrobenzene	1	ug/l	1.2	ND
N-Nitrosodimethylamine	1	ug/l	1.2	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.31	ND
N-Nitrosodiphenylamine	1	ug/l	1.2	ND
Pentachlorophenol	1	ug/l	6.2	ND
Phenanthrene	1	ug/l	1.2	ND
Phenol	1	ug/l	1.2	ND
Pyrene	1	ug/l	1.2	ND

Settleable Solids (SM2540F-97)

Analyte	DF	Units	RL	Result
Settleable Solids	1	1.00	mL/L	ND

Total Coliform

Analyte	DF	Units	RL	Result
Total Coliform	10	cfu/100 ml	10.0	150

Total Dissolved Solids (SM2540C-11)

Analyte	DF	Units	RL	Result
Total Dissolved Solids @ 180 C	1	mg/l	40	440

Total Kjeldahl Nitrogen EPA 351

Analyte	DF	Units	RL	Result
Total Kjeldahl Nitrogen	1	mg/l	1.00	ND

Total Suspended Solids (SM2540D-11)

Analyte	DF	Units	RL	Result
Total Suspended Solids @ 103-105 C	1	mg/l	4	ND

Volatile Organics (no search) 624

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Chloroethylvinylether	1	ug/l	1.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND

Sample ID: Outfall 006
Lab#: AC95154-006
Matrix: Aqueous

Collection Date: 12/12/2016
Receipt Date: 12/13/2016

Chloromethane	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: Outfall 007
 Lab#: AC95154-007
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Ammonia (SM4500-NH3B/C)

Analyte	DF	Units	RL	Result
Ammonia	1	mg/l	1.0	ND

Bacteriological

Analyte	DF	Units	RL	Result
Enterococci, Mpn	1	mpn/100 ml	1.00	2420

BOD-5 Day (SM5210 B-01)

Analyte	DF	Units	RL	Result
Biochemical Oxygen Demand, 5 Day	1	mg/l	2.0	34

COD HACH 8000

Analyte	DF	Units	RL	Result
Chemical Oxygen Demand	1	mg/l	10	62

Cyanide-Water (EPA 335.4)

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Fecal Coliform

Analyte	DF	Units	RL	Result
Fecal Coliform	1	cfu/100 ml	10.0	420

Glycols (GC/FID) 8015

Analyte	DF	Units	RL	Result
Ethylene Glycol	1	ug/l	50000	ND
Propylene Glycol	1	ug/l	50000	ND

Hardness 200.7

Analyte	DF	Units	RL	Result
Hardness	1	mg cacO ₃ /l	6.6	160

Mercury (Aqueous) 1631

Analyte	DF	Units	RL	Result
Mercury	1	ng/l	0.50	2.9

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	ND

Nitrite-N (Aqueous) 300.0

Analyte	DF	Units	RL	Result
Nitrite	1	mg/l	1.0	ND

Oil & Grease 1664B

Analyte	DF	Units	RL	Result
Oil & Grease	1	mg/l	7.8	ND

Phenols (Water) 420.1

Analyte	DF	Units	RL	Result
Total Phenolics	1	mg/l	0.05	ND

Phosphorus-Total (SM4500-P E 19th ed)

Analyte	DF	Units	RL	Result
Phosphorus (Total)	1	mg/l	0.1	0.1

PP Metals 200.7

Analyte	DF	Units	RL	Result
Barium	1	ug/l	25	ND

Sample ID: Outfall 007
 Lab#: AC95154-007
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Chromium	1	ug/l	25	ND
Copper	1	ug/l	25	ND
Nickel	1	ug/l	10	ND
Silver	1	ug/l	10	ND
Zinc	1	ug/l	25	ND

PP Metals 200.8

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.5	ND
Arsenic	1	ug/l	1.0	ND
Beryllium	1	ug/l	0.75	ND
Cadmium	1	ug/l	1.0	ND
Lead	1	ug/l	0.75	ND
Selenium	1	ug/l	5.0	ND
Thallium	1	ug/l	1.5	ND

Semivolatile Organics (no search) 625

Analyte	DF	Units	RL	Result
1,2-Diphenylhydrazine	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	0.80	ND
2,4-Dimethylphenol	1	ug/l	0.50	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Nitrophenol	1	ug/l	2.0	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzidine	1	ug/l	3.1	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.50	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	0.50	ND
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND

Sample ID: Outfall 007
 Lab#: AC95154-007
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	2.0	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitrosodimethylamine	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.50	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Settleable Solids (SM2540F-97)

Analyte	DF	Units	RL	Result
Settleable Solids	1	1.00	mL/L	ND

Total Coliform

Analyte	DF	Units	RL	Result
Total Coliform	100	cfu/100 ml	100	2200

Total Dissolved Solids (SM2540C-11)

Analyte	DF	Units	RL	Result
Total Dissolved Solids @ 180 C	1	mg/l	40	230

Total Kjeldahl Nitrogen EPA 351

Analyte	DF	Units	RL	Result
Total Kjeldahl Nitrogen	1	mg/l	1.00	ND

Total Suspended Solids (SM2540D-11)

Analyte	DF	Units	RL	Result
Total Suspended Solids @ 103-105 C	1	mg/l	4	7.2

Volatile Organics (no search) 624

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Chloroethylvinylether	1	ug/l	1.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND

Sample ID: Outfall 007
Lab#: AC95154-007
Matrix: Aqueous

Collection Date: 12/12/2016
Receipt Date: 12/13/2016

Chloromethane	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: Outfall 008
 Lab#: AC95154-008
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Ammonia (SM4500-NH3B/C)

Analyte	DF	Units	RL	Result
Ammonia	1	mg/l	1.0	ND

Bacteriological

Analyte	DF	Units	RL	Result
Enterococci, Mpn	1	mpn/100 ml	1.00	1300

BOD-5 Day (SM5210 B-01)

Analyte	DF	Units	RL	Result
Biochemical Oxygen Demand, 5 Day	1	mg/l	2.0	2.7

COD HACH 8000

Analyte	DF	Units	RL	Result
Chemical Oxygen Demand	1	mg/l	10	18

Cyanide-Water (EPA 335.4)

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Fecal Coliform

Analyte	DF	Units	RL	Result
Fecal Coliform	100	cfu/100 ml	100	1100

Glycols (GC/FID) 8015

Analyte	DF	Units	RL	Result
Ethylene Glycol	1	ug/l	50000	ND
Propylene Glycol	1	ug/l	50000	ND

Hardness 200.7

Analyte	DF	Units	RL	Result
Hardness	1	mg cac03/l	6.6	130

Mercury (Aqueous) 1631

Analyte	DF	Units	RL	Result
Mercury	1	ng/l	0.50	5.8

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	1.0

Nitrite-N (Aqueous) 300.0

Analyte	DF	Units	RL	Result
Nitrite	1	mg/l	1.0	ND

Oil & Grease 1664B

Analyte	DF	Units	RL	Result
Oil & Grease	1	mg/l	6.0	ND

Phenols (Water) 420.1

Analyte	DF	Units	RL	Result
Total Phenolics	1	mg/l	0.05	ND

Phosphorus-Total (SM4500-P E 19th ed)

Analyte	DF	Units	RL	Result
Phosphorus (Total)	1	mg/l	0.1	ND

PP Metals 200.7

Analyte	DF	Units	RL	Result
Barium	1	ug/l	25	36

Sample ID: Outfall 008
 Lab#: AC95154-008
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Chromium	1	ug/l	25	ND
Copper	1	ug/l	25	ND
Nickel	1	ug/l	10	ND
Silver	1	ug/l	10	ND
Zinc	1	ug/l	25	38

PP Metals 200.8

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.5	ND
Arsenic	1	ug/l	1.0	ND
Beryllium	1	ug/l	0.75	ND
Cadmium	1	ug/l	1.0	ND
Lead	1	ug/l	0.75	0.84
Selenium	1	ug/l	5.0	ND
Thallium	1	ug/l	1.5	ND

Semivolatile Organics (no search) 625

Analyte	DF	Units	RL	Result
1,2-Diphenylhydrazine	1	ug/l	1.2	ND
2,4,6-Trichlorophenol	1	ug/l	1.2	ND
2,4-Dichlorophenol	1	ug/l	0.50	ND
2,4-Dimethylphenol	1	ug/l	0.31	ND
2,4-Dinitrophenol	1	ug/l	6.2	ND
2,4-Dinitrotoluene	1	ug/l	1.2	ND
2,6-Dinitrotoluene	1	ug/l	1.2	ND
2-Chloronaphthalene	1	ug/l	1.2	ND
2-Chlorophenol	1	ug/l	1.2	ND
2-Nitrophenol	1	ug/l	1.2	ND
3,3'-Dichlorobenzidine	1	ug/l	1.2	ND
4,6-Dinitro-2-methylphenol	1	ug/l	6.2	ND
4-Bromophenyl-phenylether	1	ug/l	1.2	ND
4-Chloro-3-methylphenol	1	ug/l	1.2	ND
4-Chlorophenyl-phenylether	1	ug/l	1.2	ND
4-Nitrophenol	1	ug/l	1.2	ND
Acenaphthene	1	ug/l	1.2	ND
Acenaphthylene	1	ug/l	1.2	ND
Anthracene	1	ug/l	1.2	ND
Benzidine	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	1.2	ND
Benzo[a]pyrene	1	ug/l	1.2	ND
Benzo[b]fluoranthene	1	ug/l	1.2	ND
Benzo[g,h,i]perylene	1	ug/l	1.2	ND
Benzo[k]fluoranthene	1	ug/l	1.2	ND
bis(2-Chloroethoxy)methane	1	ug/l	1.2	ND
bis(2-Chloroethyl)ether	1	ug/l	0.31	ND
bis(2-Chloroisopropyl)ether	1	ug/l	1.2	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	1.2	ND
Butylbenzylphthalate	1	ug/l	1.2	ND
Chrysene	1	ug/l	1.2	ND
Dibenzo[a,h]anthracene	1	ug/l	1.2	ND
Diethylphthalate	1	ug/l	1.2	ND
Dimethylphthalate	1	ug/l	1.2	ND
Di-n-butylphthalate	1	ug/l	0.31	ND
Di-n-octylphthalate	1	ug/l	1.2	ND
Fluoranthene	1	ug/l	1.2	ND
Fluorene	1	ug/l	1.2	ND
Hexachlorobenzene	1	ug/l	1.2	ND

Sample ID: Outfall 008
 Lab#: AC95154-008
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Hexachlorobutadiene	1	ug/l	1.2	ND
Hexachlorocyclopentadiene	1	ug/l	1.2	ND
Hexachloroethane	1	ug/l	1.2	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	1.2	ND
Isophorone	1	ug/l	1.2	ND
Naphthalene	1	ug/l	0.31	ND
Nitrobenzene	1	ug/l	1.2	ND
N-Nitrosodimethylamine	1	ug/l	1.2	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.31	ND
N-Nitrosodiphenylamine	1	ug/l	1.2	ND
Pentachlorophenol	1	ug/l	6.2	ND
Phenanthrene	1	ug/l	1.2	ND
Phenol	1	ug/l	1.2	ND
Pyrene	1	ug/l	1.2	ND

Settleable Solids (SM2540F-97)

Analyte	DF	Units	RL	Result
Settleable Solids	1	1.00	mL/L	ND

Total Coliform

Analyte	DF	Units	RL	Result
Total Coliform	100	cfu/100 ml	100	1800

Total Dissolved Solids (SM2540C-11)

Analyte	DF	Units	RL	Result
Total Dissolved Solids @ 180 C	1	mg/l	40	1300

Total Kjeldahl Nitrogen EPA 351

Analyte	DF	Units	RL	Result
Total Kjeldahl Nitrogen	1	mg/l	1.00	ND

Total Suspended Solids (SM2540D-11)

Analyte	DF	Units	RL	Result
Total Suspended Solids @ 103-105 C	1	mg/l	4	18

Volatile Organics (no search) 624

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Chloroethylvinylether	1	ug/l	1.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND

Sample ID: Outfall 008
Lab#: AC95154-008
Matrix: Aqueous

Collection Date: 12/12/2016
Receipt Date: 12/13/2016

Chloromethane	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: Outfall 009
 Lab#: AC95154-009
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Ammonia (SM4500-NH3B/C)

Analyte	DF	Units	RL	Result
Ammonia	1	mg/l	1.0	ND

Bacteriological

Analyte	DF	Units	RL	Result
Enterococci, Mpn	1	mpn/100 ml	1.00	132

BOD-5 Day (SM5210 B-01)

Analyte	DF	Units	RL	Result
Biochemical Oxygen Demand, 5 Day	1	mg/l	2.0	ND

COD HACH 8000

Analyte	DF	Units	RL	Result
Chemical Oxygen Demand	1	mg/l	10	16

Cyanide-Water (EPA 335.4)

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Fecal Coliform

Analyte	DF	Units	RL	Result
Fecal Coliform	1	cfu/100 ml	10.0	290

Glycols (GC/FID) 8015

Analyte	DF	Units	RL	Result
Ethylene Glycol	1	ug/l	50000	ND
Propylene Glycol	1	ug/l	50000	ND

Hardness 200.7

Analyte	DF	Units	RL	Result
Hardness	1	mg cac03/l	6.6	260

Mercury (Aqueous) 1631

Analyte	DF	Units	RL	Result
Mercury	1	ng/l	0.50	2.1

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	ND

Nitrite-N (Aqueous) 300.0

Analyte	DF	Units	RL	Result
Nitrite	1	mg/l	1.0	ND

Oil & Grease 1664B

Analyte	DF	Units	RL	Result
Oil & Grease	1	mg/l	5.8	ND

Phenols (Water) 420.1

Analyte	DF	Units	RL	Result
Total Phenolics	1	mg/l	0.05	ND

Phosphorus-Total (SM4500-P E 19th ed)

Analyte	DF	Units	RL	Result
Phosphorus (Total)	1	mg/l	0.1	ND

PP Metals 200.7

Analyte	DF	Units	RL	Result
Barium	1	ug/l	25	43

Sample ID: Outfall 009
 Lab#: AC95154-009
 Matrix: Aqueous

Collection Date: 12/12/2016

Receipt Date: 12/13/2016

Chromium	1	ug/l	25	ND
Copper	1	ug/l	25	ND
Nickel	1	ug/l	10	ND
Silver	1	ug/l	10	ND
Zinc	1	ug/l	25	ND

PP Metals 200.8

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.5	ND
Arsenic	1	ug/l	1.0	ND
Beryllium	1	ug/l	0.75	ND
Cadmium	1	ug/l	1.0	ND
Lead	1	ug/l	0.75	ND
Selenium	1	ug/l	5.0	ND
Thallium	1	ug/l	1.5	ND

Semivolatile Organics (no search) 625

Analyte	DF	Units	RL	Result
1,2-Diphenylhydrazine	1	ug/l	2.1	ND
2,4,6-Trichlorophenol	1	ug/l	2.1	ND
2,4-Dichlorophenol	1	ug/l	0.83	ND
2,4-Dimethylphenol	1	ug/l	0.52	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.1	ND
2,6-Dinitrotoluene	1	ug/l	2.1	ND
2-Chloronaphthalene	1	ug/l	2.1	ND
2-Chlorophenol	1	ug/l	2.1	ND
2-Nitrophenol	1	ug/l	2.1	ND
3,3'-Dichlorobenzidine	1	ug/l	2.1	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.1	ND
4-Chloro-3-methylphenol	1	ug/l	2.1	ND
4-Chlorophenyl-phenylether	1	ug/l	2.1	ND
4-Nitrophenol	1	ug/l	2.1	ND
Acenaphthene	1	ug/l	2.1	ND
Acenaphthylene	1	ug/l	2.1	ND
Anthracene	1	ug/l	2.1	ND
Benzidine	1	ug/l	3.3	ND
Benzo[a]anthracene	1	ug/l	2.1	ND
Benzo[a]pyrene	1	ug/l	2.1	ND
Benzo[b]fluoranthene	1	ug/l	2.1	ND
Benzo[g,h,i]perylene	1	ug/l	2.1	ND
Benzo[k]fluoranthene	1	ug/l	2.1	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.1	ND
bis(2-Chloroethyl)ether	1	ug/l	0.52	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.1	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.1	ND
Butylbenzylphthalate	1	ug/l	2.1	ND
Chrysene	1	ug/l	2.1	ND
Dibenzo[a,h]anthracene	1	ug/l	2.1	ND
Diethylphthalate	1	ug/l	2.1	ND
Dimethylphthalate	1	ug/l	2.1	ND
Di-n-butylphthalate	1	ug/l	0.52	ND
Di-n-octylphthalate	1	ug/l	2.1	ND
Fluoranthene	1	ug/l	2.1	ND
Fluorene	1	ug/l	2.1	ND
Hexachlorobenzene	1	ug/l	2.1	ND

Sample ID: Outfall 009
 Lab#: AC95154-009
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Hexachlorobutadiene	1	ug/l	2.1	ND
Hexachlorocyclopentadiene	1	ug/l	2.1	ND
Hexachloroethane	1	ug/l	2.1	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.1	ND
Isophorone	1	ug/l	2.1	ND
Naphthalene	1	ug/l	0.52	ND
Nitrobenzene	1	ug/l	2.1	ND
N-Nitrosodimethylamine	1	ug/l	2.1	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.52	ND
N-Nitrosodiphenylamine	1	ug/l	2.1	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.1	ND
Phenol	1	ug/l	2.1	ND
Pyrene	1	ug/l	2.1	ND

Settleable Solids (SM2540F-97)

Analyte	DF	Units	RL	Result
Settleable Solids	1	1.00	mL/L	ND

Total Coliform

Analyte	DF	Units	RL	Result
Total Coliform	10	cfu/100 ml	10.0	330

Total Dissolved Solids (SM2540C-11)

Analyte	DF	Units	RL	Result
Total Dissolved Solids @ 180 C	1	mg/l	40	830

Total Kjeldahl Nitrogen EPA 351

Analyte	DF	Units	RL	Result
Total Kjeldahl Nitrogen	1	mg/l	1.00	ND

Total Suspended Solids (SM2540D-11)

Analyte	DF	Units	RL	Result
Total Suspended Solids @ 103-105 C	1	mg/l	4	6

Volatile Organics (no search) 624

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Chloroethylvinylether	1	ug/l	1.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND

Sample ID: Outfall 009
Lab#: AC95154-009
Matrix: Aqueous

Collection Date: 12/12/2016
Receipt Date: 12/13/2016

Chloromethane	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: Outfall 010
 Lab#: AC95154-010
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Ammonia (SM4500-NH3B/C)

Analyte	DF	Units	RL	Result
Ammonia	1	mg/l	1.0	ND

Bacteriological

Analyte	DF	Units	RL	Result
Enterococci, Mpn	1	mpn/100 ml	1.00	77.2

BOD-5 Day (SM5210 B-01)

Analyte	DF	Units	RL	Result
Biochemical Oxygen Demand, 5 Day	1	mg/l	2.0	ND

COD HACH 8000

Analyte	DF	Units	RL	Result
Chemical Oxygen Demand	1	mg/l	10	24

Cyanide-Water (EPA 335.4)

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	0.035

Fecal Coliform

Analyte	DF	Units	RL	Result
Fecal Coliform	1	cfu/100 ml	10.0	60.0

Glycols (GC/FID) 8015

Analyte	DF	Units	RL	Result
Ethylene Glycol	1	ug/l	50000	ND
Propylene Glycol	1	ug/l	50000	ND

Hardness 200.7

Analyte	DF	Units	RL	Result
Hardness	1	mg cacO ₃ /l	6.6	200

Mercury (Aqueous) 1631

Analyte	DF	Units	RL	Result
Mercury	1	ng/l	0.50	4.1

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	1.0

Nitrite-N (Aqueous) 300.0

Analyte	DF	Units	RL	Result
Nitrite	1	mg/l	1.0	ND

Oil & Grease 1664B

Analyte	DF	Units	RL	Result
Oil & Grease	1	mg/l	5.3	ND

Phenols (Water) 420.1

Analyte	DF	Units	RL	Result
Total Phenolics	1	mg/l	0.05	ND

Phosphorus-Total (SM4500-P E 19th ed)

Analyte	DF	Units	RL	Result
Phosphorus (Total)	1	mg/l	0.1	0.15

PP Metals 200.7

Analyte	DF	Units	RL	Result
Barium	1	ug/l	25	48

Sample ID: Outfall 010
 Lab#: AC95154-010
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Chromium	1	ug/l	25	ND
Copper	1	ug/l	25	ND
Nickel	1	ug/l	10	ND
Silver	1	ug/l	10	ND
Zinc	1	ug/l	25	36

PP Metals 200.8

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.5	ND
Arsenic	1	ug/l	1.0	1.5
Beryllium	1	ug/l	0.75	ND
Cadmium	1	ug/l	1.0	ND
Lead	1	ug/l	0.75	2.0
Selenium	1	ug/l	5.0	ND
Thallium	1	ug/l	1.5	ND

Semivolatile Organics (no search) 625

Analyte	DF	Units	RL	Result
1,2-Diphenylhydrazine	1	ug/l	1.3	ND
2,4,6-Trichlorophenol	1	ug/l	1.3	ND
2,4-Dichlorophenol	1	ug/l	0.53	ND
2,4-Dimethylphenol	1	ug/l	0.33	ND
2,4-Dinitrophenol	1	ug/l	6.7	ND
2,4-Dinitrotoluene	1	ug/l	1.3	ND
2,6-Dinitrotoluene	1	ug/l	1.3	ND
2-Chloronaphthalene	1	ug/l	1.3	ND
2-Chlorophenol	1	ug/l	1.3	ND
2-Nitrophenol	1	ug/l	1.3	ND
3,3'-Dichlorobenzidine	1	ug/l	1.3	ND
4,6-Dinitro-2-methylphenol	1	ug/l	6.7	ND
4-Bromophenyl-phenylether	1	ug/l	1.3	ND
4-Chloro-3-methylphenol	1	ug/l	1.3	ND
4-Chlorophenyl-phenylether	1	ug/l	1.3	ND
4-Nitrophenol	1	ug/l	1.3	ND
Acenaphthene	1	ug/l	1.3	ND
Acenaphthylene	1	ug/l	1.3	ND
Anthracene	1	ug/l	1.3	ND
Benzidine	1	ug/l	2.1	ND
Benzo[a]anthracene	1	ug/l	1.3	ND
Benzo[a]pyrene	1	ug/l	1.3	ND
Benzo[b]fluoranthene	1	ug/l	1.3	ND
Benzo[g,h,i]perylene	1	ug/l	1.3	ND
Benzo[k]fluoranthene	1	ug/l	1.3	ND
bis(2-Chloroethoxy)methane	1	ug/l	1.3	ND
bis(2-Chloroethyl)ether	1	ug/l	0.33	ND
bis(2-Chloroisopropyl)ether	1	ug/l	1.3	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	1.3	ND
Butylbenzylphthalate	1	ug/l	1.3	ND
Chrysene	1	ug/l	1.3	ND
Dibenzo[a,h]anthracene	1	ug/l	1.3	ND
Diethylphthalate	1	ug/l	1.3	ND
Dimethylphthalate	1	ug/l	1.3	ND
Di-n-butylphthalate	1	ug/l	0.33	ND
Di-n-octylphthalate	1	ug/l	1.3	ND
Fluoranthene	1	ug/l	1.3	ND
Fluorene	1	ug/l	1.3	ND
Hexachlorobenzene	1	ug/l	1.3	ND

Sample ID: Outfall 010
 Lab#: AC95154-010
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Hexachlorobutadiene	1	ug/l	1.3	ND
Hexachlorocyclopentadiene	1	ug/l	1.3	ND
Hexachloroethane	1	ug/l	1.3	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	1.3	ND
Isophorone	1	ug/l	1.3	ND
Naphthalene	1	ug/l	0.33	ND
Nitrobenzene	1	ug/l	1.3	ND
N-Nitrosodimethylamine	1	ug/l	1.3	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.33	ND
N-Nitrosodiphenylamine	1	ug/l	1.3	ND
Pentachlorophenol	1	ug/l	6.7	ND
Phenanthrene	1	ug/l	1.3	ND
Phenol	1	ug/l	1.3	ND
Pyrene	1	ug/l	1.3	ND

Settleable Solids (SM2540F-97)

Analyte	DF	Units	RL	Result
Settleable Solids	1	1.00	mL/L	ND

Total Coliform

Analyte	DF	Units	RL	Result
Total Coliform	10	cfu/100 ml	10.0	100

Total Dissolved Solids (SM2540C-11)

Analyte	DF	Units	RL	Result
Total Dissolved Solids @ 180 C	1	mg/l	40	3200

Total Kjeldahl Nitrogen EPA 351

Analyte	DF	Units	RL	Result
Total Kjeldahl Nitrogen	1	mg/l	1.00	ND

Total Suspended Solids (SM2540D-11)

Analyte	DF	Units	RL	Result
Total Suspended Solids @ 103-105 C	1	mg/l	4	47

Volatile Organics (no search) 624

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Chloroethylvinylether	1	ug/l	1.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	3.3

Sample ID: Outfall 010
Lab#: AC95154-010
Matrix: Aqueous

Collection Date: 12/12/2016
Receipt Date: 12/13/2016

Chloromethane	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: Outfall 011
 Lab#: AC95154-011
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Ammonia (SM4500-NH3B/C)

Analyte	DF	Units	RL	Result
Ammonia	1	mg/l	1.0	ND

Bacteriological

Analyte	DF	Units	RL	Result
Enterococci, Mpn	1	mpn/100 ml	1.00	6.00

BOD-5 Day (SM5210 B-01)

Analyte	DF	Units	RL	Result
Biochemical Oxygen Demand, 5 Day	1	mg/l	2.0	3.1

COD HACH 8000

Analyte	DF	Units	RL	Result
Chemical Oxygen Demand	1	mg/l	10	13

Cyanide-Water (EPA 335.4)

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Fecal Coliform

Analyte	DF	Units	RL	Result
Fecal Coliform	1	cfu/100 ml	10.0	10.0

Glycols (GC/FID) 8015

Analyte	DF	Units	RL	Result
Ethylene Glycol	1	ug/l	50000	ND
Propylene Glycol	1	ug/l	50000	ND

Hardness 200.7

Analyte	DF	Units	RL	Result
Hardness	1	mg cacO ₃ /l	6.6	57

Mercury (Aqueous) 1631

Analyte	DF	Units	RL	Result
Mercury	1	ng/l	0.50	1.5

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	ND

Nitrite-N (Aqueous) 300.0

Analyte	DF	Units	RL	Result
Nitrite	1	mg/l	1.0	ND

Oil & Grease 1664B

Analyte	DF	Units	RL	Result
Oil & Grease	1	mg/l	6.0	ND

Phenols (Water) 420.1

Analyte	DF	Units	RL	Result
Total Phenolics	1	mg/l	0.05	ND

Phosphorus-Total (SM4500-P E 19th ed)

Analyte	DF	Units	RL	Result
Phosphorus (Total)	1	mg/l	0.1	0.12

PP Metals 200.7

Analyte	DF	Units	RL	Result
Barium	1	ug/l	25	ND

Sample ID: Outfall 011
 Lab#: AC95154-011
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Chromium	1	ug/l	25	ND
Copper	1	ug/l	25	ND
Nickel	1	ug/l	10	ND
Silver	1	ug/l	10	ND
Zinc	1	ug/l	25	ND

PP Metals 200.8

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.5	ND
Arsenic	1	ug/l	1.0	ND
Beryllium	1	ug/l	0.75	ND
Cadmium	1	ug/l	1.0	ND
Lead	1	ug/l	0.75	ND
Selenium	1	ug/l	5.0	ND
Thallium	1	ug/l	1.5	ND

Semivolatile Organics (no search) 625

Analyte	DF	Units	RL	Result
1,2-Diphenylhydrazine	1	ug/l	2.1	ND
2,4,6-Trichlorophenol	1	ug/l	2.1	ND
2,4-Dichlorophenol	1	ug/l	0.83	ND
2,4-Dimethylphenol	1	ug/l	0.52	8.5
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.1	ND
2,6-Dinitrotoluene	1	ug/l	2.1	ND
2-Chloronaphthalene	1	ug/l	2.1	ND
2-Chlorophenol	1	ug/l	2.1	ND
2-Nitrophenol	1	ug/l	2.1	ND
3,3'-Dichlorobenzidine	1	ug/l	2.1	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.1	ND
4-Chloro-3-methylphenol	1	ug/l	2.1	ND
4-Chlorophenyl-phenylether	1	ug/l	2.1	ND
4-Nitrophenol	1	ug/l	2.1	ND
Acenaphthene	1	ug/l	2.1	ND
Acenaphthylene	1	ug/l	2.1	ND
Anthracene	1	ug/l	2.1	ND
Benzidine	1	ug/l	3.3	ND
Benzo[a]anthracene	1	ug/l	2.1	ND
Benzo[a]pyrene	1	ug/l	2.1	ND
Benzo[b]fluoranthene	1	ug/l	2.1	ND
Benzo[g,h,i]perylene	1	ug/l	2.1	ND
Benzo[k]fluoranthene	1	ug/l	2.1	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.1	ND
bis(2-Chloroethyl)ether	1	ug/l	0.52	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.1	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.1	ND
Butylbenzylphthalate	1	ug/l	2.1	ND
Chrysene	1	ug/l	2.1	ND
Dibenzo[a,h]anthracene	1	ug/l	2.1	ND
Diethylphthalate	1	ug/l	2.1	ND
Dimethylphthalate	1	ug/l	2.1	ND
Di-n-butylphthalate	1	ug/l	0.52	ND
Di-n-octylphthalate	1	ug/l	2.1	ND
Fluoranthene	1	ug/l	2.1	ND
Fluorene	1	ug/l	2.1	ND
Hexachlorobenzene	1	ug/l	2.1	ND

Sample ID: Outfall 011
 Lab#: AC95154-011
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Hexachlorobutadiene	1	ug/l	2.1	ND
Hexachlorocyclopentadiene	1	ug/l	2.1	ND
Hexachloroethane	1	ug/l	2.1	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.1	ND
Isophorone	1	ug/l	2.1	ND
Naphthalene	1	ug/l	0.52	13
Nitrobenzene	1	ug/l	2.1	ND
N-Nitrosodimethylamine	1	ug/l	2.1	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.52	ND
N-Nitrosodiphenylamine	1	ug/l	2.1	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.1	ND
Phenol	1	ug/l	2.1	ND
Pyrene	1	ug/l	2.1	ND

Settleable Solids (SM2540F-97)

Analyte	DF	Units	RL	Result
Settleable Solids	1	1.00	mL/L	ND

Total Coliform

Analyte	DF	Units	RL	Result
Total Coliform	10	cfu/100 ml	10.0	180

Total Dissolved Solids (SM2540C-11)

Analyte	DF	Units	RL	Result
Total Dissolved Solids @ 180 C	1	mg/l	40	68

Total Kjeldahl Nitrogen EPA 351

Analyte	DF	Units	RL	Result
Total Kjeldahl Nitrogen	1	mg/l	1.00	ND

Total Suspended Solids (SM2540D-11)

Analyte	DF	Units	RL	Result
Total Suspended Solids @ 103-105 C	1	mg/l	4	28

Volatile Organics (no search) 624

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Chloroethylvinylether	1	ug/l	1.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	0.94
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND

Sample ID: Outfall 011
 Lab#: AC95154-011
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Chloromethane	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	39
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	1.3
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	39

Sample ID: Outfall 012
 Lab#: AC95154-012
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Ammonia (SM4500-NH3B/C)

Analyte	DF	Units	RL	Result
Ammonia	1	mg/l	1.0	ND

Bacteriological

Analyte	DF	Units	RL	Result
Enterococci, Mpn	1	mpn/100 ml	1.00	1200

BOD-5 Day (SM5210 B-01)

Analyte	DF	Units	RL	Result
Biochemical Oxygen Demand, 5 Day	1	mg/l	2.0	49

COD HACH 8000

Analyte	DF	Units	RL	Result
Chemical Oxygen Demand	1	mg/l	10	69

Cyanide-Water (EPA 335.4)

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Fecal Coliform

Analyte	DF	Units	RL	Result
Fecal Coliform	1	cfu/100 ml	10.0	120

Glycols (GC/FID) 8015

Analyte	DF	Units	RL	Result
Ethylene Glycol	1	ug/l	50000	ND
Propylene Glycol	1	ug/l	50000	ND

Hardness 200.7

Analyte	DF	Units	RL	Result
Hardness	1	mg cac03/l	6.6	51

Mercury (Aqueous) 1631

Analyte	DF	Units	RL	Result
Mercury	1	ng/l	0.50	2.2

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	ND

Nitrite-N (Aqueous) 300.0

Analyte	DF	Units	RL	Result
Nitrite	1	mg/l	1.0	ND

Oil & Grease 1664B

Analyte	DF	Units	RL	Result
Oil & Grease	1	mg/l	5.6	ND

Phenols (Water) 420.1

Analyte	DF	Units	RL	Result
Total Phenolics	1	mg/l	0.05	ND

Phosphorus-Total (SM4500-P E 19th ed)

Analyte	DF	Units	RL	Result
Phosphorus (Total)	1	mg/l	0.1	ND

PP Metals 200.7

Analyte	DF	Units	RL	Result
Barium	1	ug/l	25	ND

Sample ID: Outfall 012
 Lab#: AC95154-012
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Chromium	1	ug/l	25	ND
Copper	1	ug/l	25	ND
Nickel	1	ug/l	10	ND
Silver	1	ug/l	10	ND
Zinc	1	ug/l	25	ND

PP Metals 200.8

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.5	ND
Arsenic	1	ug/l	1.0	1.2
Beryllium	1	ug/l	0.75	ND
Cadmium	1	ug/l	1.0	ND
Lead	1	ug/l	0.75	ND
Selenium	1	ug/l	5.0	ND
Thallium	1	ug/l	1.5	ND

Semivolatile Organics (no search) 625

Analyte	DF	Units	RL	Result
1,2-Diphenylhydrazine	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	0.81	ND
2,4-Dimethylphenol	1	ug/l	0.51	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Nitrophenol	1	ug/l	2.0	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzidine	1	ug/l	3.2	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.51	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	0.51	ND
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND

Sample ID: Outfall 012
 Lab#: AC95154-012
 Matrix: Aqueous

Collection Date: 12/12/2016

Receipt Date: 12/13/2016

Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	2.0	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.51	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitrosodimethylamine	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.51	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Settleable Solids (SM2540F-97)

Analyte	DF	Units	RL	Result
Settleable Solids	1	1.00	mL/L	ND

Total Coliform

Analyte	DF	Units	RL	Result
Total Coliform	10	cfu/100 ml	10.0	230

Total Dissolved Solids (SM2540C-11)

Analyte	DF	Units	RL	Result
Total Dissolved Solids @ 180 C	1	mg/l	40	120

Total Kjeldahl Nitrogen EPA 351

Analyte	DF	Units	RL	Result
Total Kjeldahl Nitrogen	1	mg/l	1.00	ND

Total Suspended Solids (SM2540D-11)

Analyte	DF	Units	RL	Result
Total Suspended Solids @ 103-105 C	1	mg/l	4	6

Volatile Organics (no search) 624

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Chloroethylvinylether	1	ug/l	1.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromofom	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND

Sample ID: Outfall 012
Lab#: AC95154-012
Matrix: Aqueous

Collection Date: 12/12/2016
Receipt Date: 12/13/2016

Chloromethane	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: Outfall 013
 Lab#: AC95154-013
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Ammonia (SM4500-NH3B/C)

Analyte	DF	Units	RL	Result
Ammonia	1	mg/l	1.0	ND

Bacteriological

Analyte	DF	Units	RL	Result
Enterococci, Mpn	1	mpn/100 ml	1.00	>2419.2

BOD-5 Day (SM5210 B-01)

Analyte	DF	Units	RL	Result
Biochemical Oxygen Demand, 5 Day	1	mg/l	2.0	230

COD HACH 8000

Analyte	DF	Units	RL	Result
Chemical Oxygen Demand	10	mg/l	100	310

Cyanide-Water (EPA 335.4)

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Fecal Coliform

Analyte	DF	Units	RL	Result
Fecal Coliform	1	cfu/100 ml	10.0	510

Glycols (GC/FID) 8015

Analyte	DF	Units	RL	Result
Ethylene Glycol	1	ug/l	50000	ND
Propylene Glycol	1	ug/l	50000	ND

Hardness 200.7

Analyte	DF	Units	RL	Result
Hardness	1	mg cac03/l	6.6	150

Mercury (Aqueous) 1631

Analyte	DF	Units	RL	Result
Mercury	1	ng/l	0.50	2.6

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	ND

Nitrite-N (Aqueous) 300.0

Analyte	DF	Units	RL	Result
Nitrite	1	mg/l	1.0	ND

Oil & Grease 1664B

Analyte	DF	Units	RL	Result
Oil & Grease	1	mg/l	6.0	ND

Phenols (Water) 420.1

Analyte	DF	Units	RL	Result
Total Phenolics	1	mg/l	0.05	ND

Phosphorus-Total (SM4500-P E 19th ed)

Analyte	DF	Units	RL	Result
Phosphorus (Total)	1	mg/l	0.1	0.18

PP Metals 200.7

Analyte	DF	Units	RL	Result
Barium	1	ug/l	25	ND

Sample ID: Outfall 013
 Lab#: AC95154-013
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Chromium	1	ug/l	25	ND
Copper	1	ug/l	25	ND
Nickel	1	ug/l	10	ND
Silver	1	ug/l	10	ND
Zinc	1	ug/l	25	ND

PP Metals 200.8

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.5	ND
Arsenic	1	ug/l	1.0	ND
Beryllium	1	ug/l	0.75	ND
Cadmium	1	ug/l	1.0	ND
Lead	1	ug/l	0.75	ND
Selenium	1	ug/l	5.0	ND
Thallium	1	ug/l	1.5	ND

Semivolatile Organics (no search) 625

Analyte	DF	Units	RL	Result
1,2-Diphenylhydrazine	1	ug/l	2.2	ND
2,4,6-Trichlorophenol	1	ug/l	2.2	ND
2,4-Dichlorophenol	1	ug/l	0.89	ND
2,4-Dimethylphenol	1	ug/l	0.56	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.2	ND
2,6-Dinitrotoluene	1	ug/l	2.2	ND
2-Chloronaphthalene	1	ug/l	2.2	ND
2-Chlorophenol	1	ug/l	2.2	ND
2-Nitrophenol	1	ug/l	2.2	ND
3,3'-Dichlorobenzidine	1	ug/l	2.2	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.2	ND
4-Chloro-3-methylphenol	1	ug/l	2.2	ND
4-Chlorophenyl-phenylether	1	ug/l	2.2	ND
4-Nitrophenol	1	ug/l	2.2	ND
Acenaphthene	1	ug/l	2.2	ND
Acenaphthylene	1	ug/l	2.2	ND
Anthracene	1	ug/l	2.2	ND
Benzidine	1	ug/l	3.5	ND
Benzo[a]anthracene	1	ug/l	2.2	ND
Benzo[a]pyrene	1	ug/l	2.2	ND
Benzo[b]fluoranthene	1	ug/l	2.2	ND
Benzo[g,h,i]perylene	1	ug/l	2.2	ND
Benzo[k]fluoranthene	1	ug/l	2.2	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.2	ND
bis(2-Chloroethyl)ether	1	ug/l	0.56	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.2	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.2	ND
Butylbenzylphthalate	1	ug/l	2.2	ND
Chrysene	1	ug/l	2.2	ND
Dibenzo[a,h]anthracene	1	ug/l	2.2	ND
Diethylphthalate	1	ug/l	2.2	ND
Dimethylphthalate	1	ug/l	2.2	ND
Di-n-butylphthalate	1	ug/l	0.56	ND
Di-n-octylphthalate	1	ug/l	2.2	ND
Fluoranthene	1	ug/l	2.2	ND
Fluorene	1	ug/l	2.2	ND
Hexachlorobenzene	1	ug/l	2.2	ND

Sample ID: Outfall 013
 Lab#: AC95154-013
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Hexachlorobutadiene	1	ug/l	2.2	ND
Hexachlorocyclopentadiene	1	ug/l	2.2	ND
Hexachloroethane	1	ug/l	2.2	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.2	ND
Isophorone	1	ug/l	2.2	ND
Naphthalene	1	ug/l	0.56	ND
Nitrobenzene	1	ug/l	2.2	ND
N-Nitrosodimethylamine	1	ug/l	2.2	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.56	ND
N-Nitrosodiphenylamine	1	ug/l	2.2	ND
Pentachlorophenol	1	ug/l	11	ND
Phenanthrene	1	ug/l	2.2	ND
Phenol	1	ug/l	2.2	ND
Pyrene	1	ug/l	2.2	ND

Settleable Solids (SM2540F-97)

Analyte	DF	Units	RL	Result
Settleable Solids	1	1.00	mL/L	ND

Total Coliform

Analyte	DF	Units	RL	Result
Total Coliform	100	cfu/100 ml	100	1500

Total Dissolved Solids (SM2540C-11)

Analyte	DF	Units	RL	Result
Total Dissolved Solids @ 180 C	1	mg/l	40	440

Total Kjeldahl Nitrogen EPA 351

Analyte	DF	Units	RL	Result
Total Kjeldahl Nitrogen	1	mg/l	1.00	ND

Total Suspended Solids (SM2540D-11)

Analyte	DF	Units	RL	Result
Total Suspended Solids @ 103-105 C	1	mg/l	4	16

Volatile Organics (no search) 624

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Chloroethylvinylether	1	ug/l	1.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND

Sample ID: Outfall 013
Lab#: AC95154-013
Matrix: Aqueous

Collection Date: 12/12/2016
Receipt Date: 12/13/2016

Chloromethane	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: Outfall 014
 Lab#: AC95154-014
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Ammonia (SM4500-NH3B/C)

Analyte	DF	Units	RL	Result
Ammonia	1	mg/l	1.0	ND

Bacteriological

Analyte	DF	Units	RL	Result
Enterococci, Mpn	1	mpn/100 ml	1.00	326

BOD-5 Day (SM5210 B-01)

Analyte	DF	Units	RL	Result
Biochemical Oxygen Demand, 5 Day	1	mg/l	2.0	15

COD HACH 8000

Analyte	DF	Units	RL	Result
Chemical Oxygen Demand	1	mg/l	10	30

Cyanide-Water (EPA 335.4)

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Fecal Coliform

Analyte	DF	Units	RL	Result
Fecal Coliform	1	cfu/100 ml	10.0	130

Glycols (GC/FID) 8015

Analyte	DF	Units	RL	Result
Ethylene Glycol	1	ug/l	50000	ND
Propylene Glycol	1	ug/l	50000	ND

Hardness 200.7

Analyte	DF	Units	RL	Result
Hardness	1	mg cac03/l	6.6	140

Mercury (Aqueous) 1631

Analyte	DF	Units	RL	Result
Mercury	1	ng/l	0.50	1.5

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	ND

Nitrite-N (Aqueous) 300.0

Analyte	DF	Units	RL	Result
Nitrite	1	mg/l	1.0	ND

Oil & Grease 1664B

Analyte	DF	Units	RL	Result
Oil & Grease	1	mg/l	5.6	ND

Phenols (Water) 420.1

Analyte	DF	Units	RL	Result
Total Phenolics	1	mg/l	0.05	ND

Phosphorus-Total (SM4500-P E 19th ed)

Analyte	DF	Units	RL	Result
Phosphorus (Total)	1	mg/l	0.1	ND

PP Metals 200.7

Analyte	DF	Units	RL	Result
Barium	1	ug/l	25	ND

Sample ID: Outfall 014
 Lab#: AC95154-014
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Chromium	1	ug/l	25	ND
Copper	1	ug/l	25	ND
Nickel	1	ug/l	10	ND
Silver	1	ug/l	10	ND
Zinc	1	ug/l	25	ND

PP Metals 200.8

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.5	ND
Arsenic	1	ug/l	1.0	ND
Beryllium	1	ug/l	0.75	ND
Cadmium	1	ug/l	1.0	ND
Lead	1	ug/l	0.75	ND
Selenium	1	ug/l	5.0	ND
Thallium	1	ug/l	1.5	ND

Semivolatile Organics (no search) 625

Analyte	DF	Units	RL	Result
1,2-Diphenylhydrazine	1	ug/l	2.1	ND
2,4,6-Trichlorophenol	1	ug/l	2.1	ND
2,4-Dichlorophenol	1	ug/l	0.84	ND
2,4-Dimethylphenol	1	ug/l	0.53	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.1	ND
2,6-Dinitrotoluene	1	ug/l	2.1	ND
2-Chloronaphthalene	1	ug/l	2.1	ND
2-Chlorophenol	1	ug/l	2.1	ND
2-Nitrophenol	1	ug/l	2.1	ND
3,3'-Dichlorobenzidine	1	ug/l	2.1	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.1	ND
4-Chloro-3-methylphenol	1	ug/l	2.1	ND
4-Chlorophenyl-phenylether	1	ug/l	2.1	ND
4-Nitrophenol	1	ug/l	2.1	ND
Acenaphthene	1	ug/l	2.1	ND
Acenaphthylene	1	ug/l	2.1	ND
Anthracene	1	ug/l	2.1	ND
Benzidine	1	ug/l	3.3	ND
Benzo[a]anthracene	1	ug/l	2.1	ND
Benzo[a]pyrene	1	ug/l	2.1	ND
Benzo[b]fluoranthene	1	ug/l	2.1	ND
Benzo[g,h,i]perylene	1	ug/l	2.1	ND
Benzo[k]fluoranthene	1	ug/l	2.1	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.1	ND
bis(2-Chloroethyl)ether	1	ug/l	0.53	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.1	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.1	ND
Butylbenzylphthalate	1	ug/l	2.1	ND
Chrysene	1	ug/l	2.1	ND
Dibenzo[a,h]anthracene	1	ug/l	2.1	ND
Diethylphthalate	1	ug/l	2.1	ND
Dimethylphthalate	1	ug/l	2.1	ND
Di-n-butylphthalate	1	ug/l	0.53	ND
Di-n-octylphthalate	1	ug/l	2.1	ND
Fluoranthene	1	ug/l	2.1	ND
Fluorene	1	ug/l	2.1	ND
Hexachlorobenzene	1	ug/l	2.1	ND

Sample ID: Outfall 014
 Lab#: AC95154-014
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Hexachlorobutadiene	1	ug/l	2.1	ND
Hexachlorocyclopentadiene	1	ug/l	2.1	ND
Hexachloroethane	1	ug/l	2.1	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.1	ND
Isophorone	1	ug/l	2.1	ND
Naphthalene	1	ug/l	0.53	ND
Nitrobenzene	1	ug/l	2.1	ND
N-Nitrosodimethylamine	1	ug/l	2.1	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.53	ND
N-Nitrosodiphenylamine	1	ug/l	2.1	ND
Pentachlorophenol	1	ug/l	11	ND
Phenanthrene	1	ug/l	2.1	ND
Phenol	1	ug/l	2.1	ND
Pyrene	1	ug/l	2.1	ND

Settleable Solids (SM2540F-97)

Analyte	DF	Units	RL	Result
Settleable Solids	1	1.00	mL/L	ND

Total Coliform

Analyte	DF	Units	RL	Result
Total Coliform	10	cfu/100 ml	10.0	240

Total Dissolved Solids (SM2540C-11)

Analyte	DF	Units	RL	Result
Total Dissolved Solids @ 180 C	1	mg/l	40	200

Total Kjeldahl Nitrogen EPA 351

Analyte	DF	Units	RL	Result
Total Kjeldahl Nitrogen	1	mg/l	1.00	ND

Total Suspended Solids (SM2540D-11)

Analyte	DF	Units	RL	Result
Total Suspended Solids @ 103-105 C	1	mg/l	4	ND

Volatile Organics (no search) 624

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Chloroethylvinylether	1	ug/l	1.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND

Sample ID: Outfall 014
Lab#: AC95154-014
Matrix: Aqueous

Collection Date: 12/12/2016
Receipt Date: 12/13/2016

Chloromethane	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: Outfall 015
 Lab#: AC95154-015
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Ammonia (SM4500-NH3B/C)

Analyte	DF	Units	RL	Result
Ammonia	1	mg/l	1.0	ND

Bacteriological

Analyte	DF	Units	RL	Result
Enterococci, Mpn	1	mpn/100 ml	1.00	74.3

BOD-5 Day (SM5210 B-01)

Analyte	DF	Units	RL	Result
Biochemical Oxygen Demand, 5 Day	1	mg/l	2.0	4.2

COD HACH 8000

Analyte	DF	Units	RL	Result
Chemical Oxygen Demand	1	mg/l	10	16

Cyanide-Water (EPA 335.4)

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Fecal Coliform

Analyte	DF	Units	RL	Result
Fecal Coliform	1	cfu/100 ml	10.0	270

Glycols (GC/FID) 8015

Analyte	DF	Units	RL	Result
Ethylene Glycol	1	ug/l	50000	ND
Propylene Glycol	1	ug/l	50000	ND

Hardness 200.7

Analyte	DF	Units	RL	Result
Hardness	1	mg cac03/l	6.6	52

Mercury (Aqueous) 1631

Analyte	DF	Units	RL	Result
Mercury	1	ng/l	0.50	3.4

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	ND

Nitrite-N (Aqueous) 300.0

Analyte	DF	Units	RL	Result
Nitrite	1	mg/l	1.0	ND

Oil & Grease 1664B

Analyte	DF	Units	RL	Result
Oil & Grease	1	mg/l	6.0	ND

Phenols (Water) 420.1

Analyte	DF	Units	RL	Result
Total Phenolics	1	mg/l	0.05	ND

Phosphorus-Total (SM4500-P E 19th ed)

Analyte	DF	Units	RL	Result
Phosphorus (Total)	1	mg/l	0.1	ND

PP Metals 200.7

Analyte	DF	Units	RL	Result
Barium	1	ug/l	25	ND

Sample ID: Outfall 015
 Lab#: AC95154-015
 Matrix: Aqueous

Collection Date: 12/12/2016

Receipt Date: 12/13/2016

Chromium	1	ug/l	25	ND
Copper	1	ug/l	25	ND
Nickel	1	ug/l	10	ND
Silver	1	ug/l	10	ND
Zinc	1	ug/l	25	42

PP Metals 200.8

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	2.5	ND
Arsenic	1	ug/l	1.0	ND
Beryllium	1	ug/l	0.75	ND
Cadmium	1	ug/l	1.0	ND
Lead	1	ug/l	0.75	1.2
Selenium	1	ug/l	5.0	ND
Thallium	1	ug/l	1.5	ND

Semivolatile Organics (no search) 625

Analyte	DF	Units	RL	Result
1,2-Diphenylhydrazine	1	ug/l	2.2	ND
2,4,6-Trichlorophenol	1	ug/l	2.2	ND
2,4-Dichlorophenol	1	ug/l	0.86	ND
2,4-Dimethylphenol	1	ug/l	0.54	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.2	ND
2,6-Dinitrotoluene	1	ug/l	2.2	ND
2-Chloronaphthalene	1	ug/l	2.2	ND
2-Chlorophenol	1	ug/l	2.2	ND
2-Nitrophenol	1	ug/l	2.2	ND
3,3'-Dichlorobenzidine	1	ug/l	2.2	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.2	ND
4-Chloro-3-methylphenol	1	ug/l	2.2	ND
4-Chlorophenyl-phenylether	1	ug/l	2.2	ND
4-Nitrophenol	1	ug/l	2.2	ND
Acenaphthene	1	ug/l	2.2	ND
Acenaphthylene	1	ug/l	2.2	ND
Anthracene	1	ug/l	2.2	ND
Benzidine	1	ug/l	3.4	ND
Benzo[a]anthracene	1	ug/l	2.2	ND
Benzo[a]pyrene	1	ug/l	2.2	ND
Benzo[b]fluoranthene	1	ug/l	2.2	ND
Benzo[g,h,i]perylene	1	ug/l	2.2	ND
Benzo[k]fluoranthene	1	ug/l	2.2	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.2	ND
bis(2-Chloroethyl)ether	1	ug/l	0.54	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.2	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.2	ND
Butylbenzylphthalate	1	ug/l	2.2	ND
Chrysene	1	ug/l	2.2	ND
Dibenzo[a,h]anthracene	1	ug/l	2.2	ND
Diethylphthalate	1	ug/l	2.2	ND
Dimethylphthalate	1	ug/l	2.2	ND
Di-n-butylphthalate	1	ug/l	0.54	ND
Di-n-octylphthalate	1	ug/l	2.2	ND
Fluoranthene	1	ug/l	2.2	ND
Fluorene	1	ug/l	2.2	ND
Hexachlorobenzene	1	ug/l	2.2	ND

Sample ID: Outfall 015
 Lab#: AC95154-015
 Matrix: Aqueous

Collection Date: 12/12/2016
 Receipt Date: 12/13/2016

Hexachlorobutadiene	1	ug/l	2.2	ND
Hexachlorocyclopentadiene	1	ug/l	2.2	ND
Hexachloroethane	1	ug/l	2.2	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.2	ND
Isophorone	1	ug/l	2.2	ND
Naphthalene	1	ug/l	0.54	ND
Nitrobenzene	1	ug/l	2.2	ND
N-Nitrosodimethylamine	1	ug/l	2.2	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.54	ND
N-Nitrosodiphenylamine	1	ug/l	2.2	ND
Pentachlorophenol	1	ug/l	11	ND
Phenanthrene	1	ug/l	2.2	ND
Phenol	1	ug/l	2.2	ND
Pyrene	1	ug/l	2.2	ND

Settleable Solids (SM2540F-97)

Analyte	DF	Units	RL	Result
Settleable Solids	1	1.00	mL/L	ND

Total Coliform

Analyte	DF	Units	RL	Result
Total Coliform	10	cfu/100 ml	10.0	320

Total Dissolved Solids (SM2540C-11)

Analyte	DF	Units	RL	Result
Total Dissolved Solids @ 180 C	1	mg/l	40	330

Total Kjeldahl Nitrogen EPA 351

Analyte	DF	Units	RL	Result
Total Kjeldahl Nitrogen	1	mg/l	1.00	ND

Total Suspended Solids (SM2540D-11)

Analyte	DF	Units	RL	Result
Total Suspended Solids @ 103-105 C	1	mg/l	4	6.4

Volatile Organics (no search) 624

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
2-Chloroethylvinylether	1	ug/l	1.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND

Sample ID: Outfall 015
Lab#: AC95154-015
Matrix: Aqueous

Collection Date: 12/12/2016
Receipt Date: 12/13/2016

Chloromethane	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Form1
ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 11M39100.D
Analysis Date: 12/13/16 13:03
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 624
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	100-41-4	Ethylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
110-75-8	2-Chloroethylvinylether	1.0	U	95-47-6	o-Xylene	1.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U				

Worksheet #: 407056

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.**B - Indicates the analyte was found in the blank as well as in the sample.**E - Indicates the analyte concentration exceeds the calibration range of the instrument.**R - Retention Time Out**J - Indicates an estimated value when a compound is detected at less than the specified detection limit.**d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a**Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.*

Form1
ORGANICS VOLATILE REPORT

Sample Number: AC95154-001
 Client Id: Outfall 001
 Data File: 11M39102.D
 Analysis Date: 12/13/16 13:42
 Date Rec/Extracted: 12/13/16-NA
 Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 624
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: NA
 Dilution: 1.00
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	100-41-4	Ethylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
110-75-8	2-Chloroethylvinylether	1.0	U	95-47-6	o-Xylene	1.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 407056

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.**B - Indicates the analyte was found in the blank as well as in the sample.**E - Indicates the analyte concentration exceeds the calibration range of the instrument.**R - Retention Time Out**J - Indicates an estimated value when a compound is detected at less than the specified detection limit.**d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a**Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Form1
ORGANICS VOLATILE REPORT

Sample Number: AC95154-002
 Client Id: Outfall 002
 Data File: 11M39106.D
 Analysis Date: 12/13/16 14:59
 Date Rec/Extracted: 12/13/16-NA
 Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 624
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: NA
 Dilution: 1.00
 Solids: 0

Units: ug/L							
Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	100-41-4	Ethylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
110-75-8	2-Chloroethylvinylether	1.0	U	95-47-6	o-Xylene	1.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 407056

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.**B - Indicates the analyte was found in the blank as well as in the sample.**E - Indicates the analyte concentration exceeds the calibration range of the instrument.**R - Retention Time Out**J - Indicates an estimated value when a compound is detected at less than the specified detection limit.**d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a**Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.*

Form1
ORGANICS VOLATILE REPORT

Sample Number: AC95154-003
 Client Id: Outfall 003
 Data File: 11M39147.D
 Analysis Date: 12/14/16 11:18
 Date Rec/Extracted: 12/13/16-NA
 Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 624
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: NA
 Dilution: 1.00
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	100-41-4	Ethylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
110-75-8	2-Chloroethylvinylether	1.0	U	95-47-6	o-Xylene	1.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 407056

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.**B - Indicates the analyte was found in the blank as well as in the sample.**E - Indicates the analyte concentration exceeds the calibration range of the instrument.**R - Retention Time Out**J - Indicates an estimated value when a compound is detected at less than the specified detection limit.**d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a**Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.*

Form1
ORGANICS VOLATILE REPORT

Sample Number: AC95154-004
 Client Id: Outfall 004
 Data File: 11M39134.D
 Analysis Date: 12/13/16 23:59
 Date Rec/Extracted: 12/13/16-NA
 Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 624
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: NA
 Dilution: 1.00
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	100-41-4	Ethylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
110-75-8	2-Chloroethylvinylether	1.0	U	95-47-6	o-Xylene	1.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 407056

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.**B - Indicates the analyte was found in the blank as well as in the sample.**E - Indicates the analyte concentration exceeds the calibration range of the instrument.**R - Retention Time Out**J - Indicates an estimated value when a compound is detected at less than the specified detection limit.**d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a**Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.*

Form1
ORGANICS VOLATILE REPORT

Sample Number: AC95154-005
 Client Id: Outfall 005
 Data File: 11M39135.D
 Analysis Date: 12/14/16 00:18
 Date Rec/Extracted: 12/13/16-NA
 Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 624
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: NA
 Dilution: 1.00
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	100-41-4	Ethylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
110-75-8	2-Chloroethylvinylether	1.0	U	95-47-6	o-Xylene	1.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 407056

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.**B - Indicates the analyte was found in the blank as well as in the sample.**E - Indicates the analyte concentration exceeds the calibration range of the instrument.**R - Retention Time Out**J - Indicates an estimated value when a compound is detected at less than the specified detection limit.**d - Pesticide %Diff>40% between columns due to coelution. Lower concentration uses**Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.*

Form1
ORGANICS VOLATILE REPORT

Sample Number: AC95154-006
 Client Id: Outfall 006
 Data File: 11M39136.D
 Analysis Date: 12/14/16 00:37
 Date Rec/Extracted: 12/13/16-NA
 Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 624
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: NA
 Dilution: 1.00
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	100-41-4	Ethylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
110-75-8	2-Chloroethylvinylether	1.0	U	95-47-6	o-Xylene	1.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 407056

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1
ORGANICS VOLATILE REPORT

Sample Number: AC95154-007
 Client Id: Outfall 007
 Data File: 11M39137.D
 Analysis Date: 12/14/16 00:57
 Date Rec/Extracted: 12/13/16-NA
 Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 624
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: NA
 Dilution: 1.00
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	100-41-4	Ethylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
110-75-8	2-Chloroethylvinylether	1.0	U	95-47-6	o-Xylene	1.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 407056

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.**B - Indicates the analyte was found in the blank as well as in the sample.**E - Indicates the analyte concentration exceeds the calibration range of the instrument.**R - Retention Time Out**J - Indicates an estimated value when a compound is detected at less than the specified detection limit.**d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a**Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Form1
ORGANICS VOLATILE REPORT

Sample Number: AC95154-008
 Client Id: Outfall 008
 Data File: 11M39139.D
 Analysis Date: 12/14/16 08:44
 Date Rec/Extracted: 12/13/16-NA
 Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 624
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: NA
 Dilution: 1.00
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	100-41-4	Ethylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
110-75-8	2-Chloroethylvinylether	1.0	U	95-47-6	o-Xylene	1.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 407056

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.**B - Indicates the analyte was found in the blank as well as in the sample.**E - Indicates the analyte concentration exceeds the calibration range of the instrument.**R - Retention Time Out**J - Indicates an estimated value when a compound is detected at less than the specified detection limit.**d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a**Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.*

Form1
ORGANICS VOLATILE REPORT

Sample Number: AC95154-009
 Client Id: Outfall 009
 Data File: 11M39140.D
 Analysis Date: 12/14/16 09:03
 Date Rec/Extracted: 12/13/16-NA
 Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 624
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: NA
 Dilution: 1.00
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	100-41-4	Ethylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
110-75-8	2-Chloroethylvinylether	1.0	U	95-47-6	o-Xylene	1.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 407056

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.*B* - Indicates the analyte was found in the blank as well as in the sample.*E* - Indicates the analyte concentration exceeds the calibration range of the instrument.*R* - Retention Time Out*J* - Indicates an estimated value when a compound is detected at less than the specified detection limit.*d* - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a*Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.*

Form1
ORGANICS VOLATILE REPORT

Sample Number: AC95154-010
 Client Id: Outfall 010
 Data File: 11M39141.D
 Analysis Date: 12/14/16 09:22
 Date Rec/Extracted: 12/13/16-NA
 Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 624
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: NA
 Dilution: 1.00
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	3.3
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	100-41-4	Ethylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
110-75-8	2-Chloroethylvinylether	1.0	U	95-47-6	o-Xylene	1.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 407056

Total Target Concentration 3.3

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.*B* - Indicates the analyte was found in the blank as well as in the sample.*E* - Indicates the analyte concentration exceeds the calibration range of the instrument.*R* - Retention Time Out*J* - Indicates an estimated value when a compound is detected at less than the specified detection limit.*d* - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a*Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.*

Form1
ORGANICS VOLATILE REPORT

Sample Number: AC95154-011
 Client Id: Outfall 011
 Data File: 11M39146.D
 Analysis Date: 12/14/16 10:59
 Date Rec/Extracted: 12/13/16-NA
 Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 624
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: NA
 Dilution: 1.00
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	100-41-4	Ethylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
110-75-8	2-Chloroethylvinylether	1.0	U	95-47-6	o-Xylene	1.0	39
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	1.3
71-43-2	Benzene	0.50	0.94	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	39

Worksheet #: 407056

Total Target Concentration 41

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.**B - Indicates the analyte was found in the blank as well as in the sample.**E - Indicates the analyte concentration exceeds the calibration range of the instrument.**R - Retention Time Out**J - Indicates an estimated value when a compound is detected at less than the specified detection limit.**d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a**Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Form1
ORGANICS VOLATILE REPORT

Sample Number: AC95154-012
 Client Id: Outfall 012
 Data File: 11M39142.D
 Analysis Date: 12/14/16 09:42
 Date Rec/Extracted: 12/13/16-NA
 Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 624
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: NA
 Dilution: 1.00
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	100-41-4	Ethylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
110-75-8	2-Chloroethylvinylether	1.0	U	95-47-6	o-Xylene	1.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 407056

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1
ORGANICS VOLATILE REPORT

Sample Number: AC95154-013
 Client Id: Outfall 013
 Data File: 11M39143.D
 Analysis Date: 12/14/16 10:01
 Date Rec/Extracted: 12/13/16-NA
 Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 624
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: NA
 Dilution: 1.00
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	100-41-4	Ethylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
110-75-8	2-Chloroethylvinylether	1.0	U	95-47-6	o-Xylene	1.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 407056

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a

Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.

Form1
ORGANICS VOLATILE REPORT

Sample Number: AC95154-014
 Client Id: Outfall 014
 Data File: 11M39144.D
 Analysis Date: 12/14/16 10:20
 Date Rec/Extracted: 12/13/16-NA
 Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 624
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: NA
 Dilution: 1.00
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	100-41-4	Ethylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
110-75-8	2-Chloroethylvinylether	1.0	U	95-47-6	o-Xylene	1.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 407056

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.**B - Indicates the analyte was found in the blank as well as in the sample.**E - Indicates the analyte concentration exceeds the calibration range of the instrument.**R - Retention Time Out**J - Indicates an estimated value when a compound is detected at less than the specified detection limit.**d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a**Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.*

Form1
ORGANICS VOLATILE REPORT

Sample Number: AC95154-015
 Client Id: Outfall 015
 Data File: 11M39145.D
 Analysis Date: 12/14/16 10:39
 Date Rec/Extracted: 12/13/16-NA
 Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 624
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: NA
 Dilution: 1.00
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	124-48-1	Dibromochloromethane	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	100-41-4	Ethylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	75-09-2	Methylene Chloride	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
110-75-8	2-Chloroethylvinylether	1.0	U	95-47-6	o-Xylene	1.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 407056

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration uses Chlordane (Total) is sum of *a*-Chlordane and *y*-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB55699

Client Id:

Data File: 5M97582.D

Analysis Date: 12/14/16 14:18

Date Rec/Extracted: NA-12/14/16

Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 625

Matrix: Aqueous

Initial Vol: 1000ml

Final Vol: 1ml

Dilution: 1

Solids: 0

Units: ug/L							
Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
122-66-7	1,2-Diphenylhydrazine	2.0	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
120-83-2	2,4-Dichlorophenol	0.80	U	85-68-7	Butylbenzylphthalate	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	218-01-9	Chrysene	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	84-66-2	Diethylphthalate	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	131-11-3	Dimethylphthalate	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
95-57-8	2-Chlorophenol	2.0	U	117-84-0	Di-n-octylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	206-44-0	Fluoranthene	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	67-72-1	Hexachloroethane	2.0	U
100-02-7	4-Nitrophenol	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
83-32-9	Acenaphthene	2.0	U	78-59-1	Isophorone	2.0	U
208-96-8	Acenaphthylene	2.0	U	91-20-3	Naphthalene	0.50	U
120-12-7	Anthracene	2.0	U	98-95-3	Nitrobenzene	2.0	U
92-87-5	Benzidine	3.1	U	62-75-9	N-Nitrosodimethylamine	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
50-32-8	Benzo[a]pyrene	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
205-99-2	Benzo[b]fluoranthene	2.0	U	87-86-5	Pentachlorophenol	10	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	85-01-8	Phenanthrene	2.0	U
207-08-9	Benzo[k]fluoranthene	2.0	U	108-95-2	Phenol	2.0	U
111-91-1	bis(2-Chloroethoxy)methan	2.0	U	129-00-0	Pyrene	2.0	U
111-44-4	bis(2-Chloroethyl)ether	0.50	U				

Worksheet #: 407415

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.**B - Indicates the analyte was found in the blank as well as in the sample.**E - Indicates the analyte concentration exceeds the calibration range of the instrument.**N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine**R - Retention Time Out**J - Indicates an estimated value when a compound is detected at less than the specified detection limit.**d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a**Chlordane (Total) is sum of a-Chlordane and γ-Chlordane.*

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC95154-001

Client Id: Outfall 001

Data File: 5M97589.D

Analysis Date: 12/14/16 18:19

Date Rec/Extracted: 12/13/16-12/14/16

Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 625

Matrix: Aqueous

Initial Vol: 950ml

Final Vol: 1ml

Dilution: 1

Solids: 0

Units: ug/L							
Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
122-66-7	1,2-Diphenylhydrazine	2.1	U	108-60-1	bis(2-chloroisopropyl)ether	2.1	U
88-06-2	2,4,6-Trichlorophenol	2.1	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.1	U
120-83-2	2,4-Dichlorophenol	0.84	U	85-68-7	Butylbenzylphthalate	2.1	U
105-67-9	2,4-Dimethylphenol	0.53	U	218-01-9	Chrysene	2.1	U
51-28-5	2,4-Dinitrophenol	11	U	53-70-3	Dibenzo[a,h]anthracene	2.1	U
121-14-2	2,4-Dinitrotoluene	2.1	U	84-66-2	Diethylphthalate	2.1	U
606-20-2	2,6-Dinitrotoluene	2.1	U	131-11-3	Dimethylphthalate	2.1	U
91-58-7	2-Chloronaphthalene	2.1	U	84-74-2	Di-n-butylphthalate	0.53	U
95-57-8	2-Chlorophenol	2.1	U	117-84-0	Di-n-octylphthalate	2.1	U
88-75-5	2-Nitrophenol	2.1	U	206-44-0	Fluoranthene	2.1	U
91-94-1	3,3'-Dichlorobenzidine	2.1	U	86-73-7	Fluorene	2.1	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.1	U
101-55-3	4-Bromophenyl-phenylether	2.1	U	87-68-3	Hexachlorobutadiene	2.1	U
59-50-7	4-Chloro-3-methylphenol	2.1	U	77-47-4	Hexachlorocyclopentadiene	2.1	U
7005-72-3	4-Chlorophenyl-phenylether	2.1	U	67-72-1	Hexachloroethane	2.1	U
100-02-7	4-Nitrophenol	2.1	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.1	U
83-32-9	Acenaphthene	2.1	U	78-59-1	Isophorone	2.1	U
208-96-8	Acenaphthylene	2.1	U	91-20-3	Naphthalene	0.53	U
120-12-7	Anthracene	2.1	U	98-95-3	Nitrobenzene	2.1	U
92-87-5	Benzidine	3.3	U	62-75-9	N-Nitrosodimethylamine	2.1	U
56-55-3	Benzo[a]anthracene	2.1	U	621-64-7	N-Nitroso-di-n-propylamine	0.53	U
50-32-8	Benzo[a]pyrene	2.1	U	86-30-6	n-Nitrosodiphenylamine	2.1	U
205-99-2	Benzo[b]fluoranthene	2.1	U	87-86-5	Pentachlorophenol	11	U
191-24-2	Benzo[g,h,i]perylene	2.1	U	85-01-8	Phenanthrene	2.1	U
207-08-9	Benzo[k]fluoranthene	2.1	U	108-95-2	Phenol	2.1	U
111-91-1	bis(2-Chloroethoxy)methan	2.1	U	129-00-0	Pyrene	2.1	U
111-44-4	bis(2-Chloroethyl)ether	0.53	U				

Worksheet #: 407415

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a

Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC95154-002

Client Id: Outfall 002

Data File: 10M60541.D

Analysis Date: 12/15/16 10:20

Date Rec/Extracted: 12/13/16-12/14/16

Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 625

Matrix: Aqueous

Initial Vol: 1000ml

Final Vol: 1ml

Dilution: 1

Solids: 0

Units: ug/L							
Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
122-66-7	1,2-Diphenylhydrazine	2.0	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
120-83-2	2,4-Dichlorophenol	0.80	U	85-68-7	Butylbenzylphthalate	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	218-01-9	Chrysene	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	84-66-2	Diethylphthalate	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	131-11-3	Dimethylphthalate	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
95-57-8	2-Chlorophenol	2.0	U	117-84-0	Di-n-octylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	206-44-0	Fluoranthene	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	67-72-1	Hexachloroethane	2.0	U
100-02-7	4-Nitrophenol	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
83-32-9	Acenaphthene	2.0	U	78-59-1	Isophorone	2.0	U
208-96-8	Acenaphthylene	2.0	U	91-20-3	Naphthalene	0.50	U
120-12-7	Anthracene	2.0	U	98-95-3	Nitrobenzene	2.0	U
92-87-5	Benzidine	3.1	U	62-75-9	N-Nitrosodimethylamine	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
50-32-8	Benzo[a]pyrene	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
205-99-2	Benzo[b]fluoranthene	2.0	U	87-86-5	Pentachlorophenol	10	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	85-01-8	Phenanthrene	2.0	U
207-08-9	Benzo[k]fluoranthene	2.0	U	108-95-2	Phenol	2.0	U
111-91-1	bis(2-Chloroethoxy)methan	2.0	U	129-00-0	Pyrene	2.0	U
111-44-4	bis(2-Chloroethyl)ether	0.50	U				

Worksheet #: 407415

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration uses

Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC95154-003

Client Id: Outfall 003

Data File: 10M60542.D

Analysis Date: 12/15/16 10:42

Date Rec/Extracted: 12/13/16-12/14/16

Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 625

Matrix: Aqueous

Initial Vol: 1000ml

Final Vol: 1ml

Dilution: 1

Solids: 0

		Units: ug/L					
Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
122-66-7	1,2-Diphenylhydrazine	2.0	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	2.6
120-83-2	2,4-Dichlorophenol	0.80	U	85-68-7	Butylbenzylphthalate	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	218-01-9	Chrysene	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	84-66-2	Diethylphthalate	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	131-11-3	Dimethylphthalate	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
95-57-8	2-Chlorophenol	2.0	U	117-84-0	Di-n-octylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	206-44-0	Fluoranthene	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	67-72-1	Hexachloroethane	2.0	U
100-02-7	4-Nitrophenol	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
83-32-9	Acenaphthene	2.0	U	78-59-1	Isophorone	2.0	U
208-96-8	Acenaphthylene	2.0	U	91-20-3	Naphthalene	0.50	U
120-12-7	Anthracene	2.0	U	98-95-3	Nitrobenzene	2.0	U
92-87-5	Benzidine	3.1	U	62-75-9	N-Nitrosodimethylamine	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
50-32-8	Benzo[a]pyrene	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
205-99-2	Benzo[b]fluoranthene	2.0	U	87-86-5	Pentachlorophenol	10	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	85-01-8	Phenanthrene	2.0	U
207-08-9	Benzo[k]fluoranthene	2.0	U	108-95-2	Phenol	2.0	U
111-91-1	bis(2-Chloroethoxy)methan	2.0	U	129-00-0	Pyrene	2.0	U
111-44-4	bis(2-Chloroethyl)ether	0.50	U				

Worksheet #: 407415

Total Target Concentration 2.6

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.*B* - Indicates the analyte was found in the blank as well as in the sample.*E* - Indicates the analyte concentration exceeds the calibration range of the instrument.*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine**R* - Retention Time Out*J* - Indicates an estimated value when a compound is detected at less than the specified detection limit.*d* - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a*Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.*

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC95154-004

Client Id: Outfall 004

Data File: 5M97592.D

Analysis Date: 12/14/16 19:30

Date Rec/Extracted: 12/13/16-12/14/16

Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 625

Matrix: Aqueous

Initial Vol: 1000ml

Final Vol: 1ml

Dilution: 1

Solids: 0

				Units: ug/L			
Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
122-66-7	1,2-Diphenylhydrazine	2.0	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
120-83-2	2,4-Dichlorophenol	0.80	U	85-68-7	Butylbenzylphthalate	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	218-01-9	Chrysene	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	84-66-2	Diethylphthalate	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	131-11-3	Dimethylphthalate	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	84-74-2	Di-n-butylphthalate	0.50	1.9
95-57-8	2-Chlorophenol	2.0	U	117-84-0	Di-n-octylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	206-44-0	Fluoranthene	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	67-72-1	Hexachloroethane	2.0	U
100-02-7	4-Nitrophenol	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
83-32-9	Acenaphthene	2.0	U	78-59-1	Isophorone	2.0	U
208-96-8	Acenaphthylene	2.0	U	91-20-3	Naphthalene	0.50	U
120-12-7	Anthracene	2.0	U	98-95-3	Nitrobenzene	2.0	U
92-87-5	Benzidine	3.1	U	62-75-9	N-Nitrosodimethylamine	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
50-32-8	Benzo[a]pyrene	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
205-99-2	Benzo[b]fluoranthene	2.0	U	87-86-5	Pentachlorophenol	10	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	85-01-8	Phenanthrene	2.0	U
207-08-9	Benzo[k]fluoranthene	2.0	U	108-95-2	Phenol	2.0	U
111-91-1	bis(2-Chloroethoxy)methan	2.0	U	129-00-0	Pyrene	2.0	U
111-44-4	bis(2-Chloroethyl)ether	0.50	U				

Worksheet #: 407415

Total Target Concentration 1.9

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.*B* - Indicates the analyte was found in the blank as well as in the sample.*E* - Indicates the analyte concentration exceeds the calibration range of the instrument.*N*-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*R* - Retention Time Out*J* - Indicates an estimated value when a compound is detected at less than the specified detection limit.*d* - Pesticide %Diff>40% between columns due to coelution. Lower concentration use aChlordane (Total) is sum of α -Chlordane and γ -Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC95154-005

Client Id: Outfall 005

Data File: 10M60543.D

Analysis Date: 12/15/16 11:04

Date Rec/Extracted: 12/13/16-12/14/16

Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 625

Matrix: Aqueous

Initial Vol: 1000ml

Final Vol: 1ml

Dilution: 1

Solids: 0

				Units: ug/L			
Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
122-66-7	1,2-Diphenylhydrazine	2.0	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
120-83-2	2,4-Dichlorophenol	0.80	U	85-68-7	Butylbenzylphthalate	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	218-01-9	Chrysene	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	84-66-2	Diethylphthalate	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	131-11-3	Dimethylphthalate	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
95-57-8	2-Chlorophenol	2.0	U	117-84-0	Di-n-octylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	206-44-0	Fluoranthene	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	67-72-1	Hexachloroethane	2.0	U
100-02-7	4-Nitrophenol	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
83-32-9	Acenaphthene	2.0	U	78-59-1	Isophorone	2.0	U
208-96-8	Acenaphthylene	2.0	U	91-20-3	Naphthalene	0.50	U
120-12-7	Anthracene	2.0	U	98-95-3	Nitrobenzene	2.0	U
92-87-5	Benzidine	3.1	U	62-75-9	N-Nitrosodimethylamine	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
50-32-8	Benzo[a]pyrene	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
205-99-2	Benzo[b]fluoranthene	2.0	U	87-86-5	Pentachlorophenol	10	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	85-01-8	Phenanthrene	2.0	U
207-08-9	Benzo[k]fluoranthene	2.0	U	108-95-2	Phenol	2.0	U
111-91-1	bis(2-Chloroethoxy)methan	2.0	U	129-00-0	Pyrene	2.0	U
111-44-4	bis(2-Chloroethyl)ether	0.50	U				

Worksheet #: 407415

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.**B - Indicates the analyte was found in the blank as well as in the sample.**E - Indicates the analyte concentration exceeds the calibration range of the instrument.**N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine**R - Retention Time Out**J - Indicates an estimated value when a compound is detected at less than the specified detection limit.**d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a**Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.*

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC95154-006

Client Id: Outfall 006

Data File: 10M60527.D

Analysis Date: 12/14/16 16:10

Date Rec/Extracted: 12/13/16-12/14/16

Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 625

Matrix: Aqueous

Initial Vol: 800ml

Final Vol: 0.5ml

Dilution: 1

Solids: 0

Cas #	Compound	RL	Units: ug/L		Cas #	Compound	RL	Conc
			Conc					
122-66-7	1,2-Diphenylhydrazine	1.2	U		108-60-1	bis(2-chloroisopropyl)ether	1.2	U
88-06-2	2,4,6-Trichlorophenol	1.2	U		117-81-7	bis(2-Ethylhexyl)phthalate	1.2	U
120-83-2	2,4-Dichlorophenol	0.50	U		85-68-7	Butylbenzylphthalate	1.2	U
105-67-9	2,4-Dimethylphenol	0.31	U		218-01-9	Chrysene	1.2	U
51-28-5	2,4-Dinitrophenol	6.2	U		53-70-3	Dibenzo[a,h]anthracene	1.2	U
121-14-2	2,4-Dinitrotoluene	1.2	U		84-66-2	Diethylphthalate	1.2	U
606-20-2	2,6-Dinitrotoluene	1.2	U		131-11-3	Dimethylphthalate	1.2	U
91-58-7	2-Chloronaphthalene	1.2	U		84-74-2	Di-n-butylphthalate	0.31	U
95-57-8	2-Chlorophenol	1.2	U		117-84-0	Di-n-octylphthalate	1.2	U
88-75-5	2-Nitrophenol	1.2	U		206-44-0	Fluoranthene	1.2	U
91-94-1	3,3'-Dichlorobenzidine	1.2	U		86-73-7	Fluorene	1.2	U
534-52-1	4,6-Dinitro-2-methylphenol	6.2	U		118-74-1	Hexachlorobenzene	1.2	U
101-55-3	4-Bromophenyl-phenylether	1.2	U		87-68-3	Hexachlorobutadiene	1.2	U
59-50-7	4-Chloro-3-methylphenol	1.2	U		77-47-4	Hexachlorocyclopentadiene	1.2	U
7005-72-3	4-Chlorophenyl-phenylether	1.2	U		67-72-1	Hexachloroethane	1.2	U
100-02-7	4-Nitrophenol	1.2	U		193-39-5	Indeno[1,2,3-cd]pyrene	1.2	U
83-32-9	Acenaphthene	1.2	U		78-59-1	Isophorone	1.2	U
208-96-8	Acenaphthylene	1.2	U		91-20-3	Naphthalene	0.31	U
120-12-7	Anthracene	1.2	U		98-95-3	Nitrobenzene	1.2	U
92-87-5	Benzdine	2.0	U		62-75-9	N-Nitrosodimethylamine	1.2	U
56-55-3	Benzo[a]anthracene	1.2	U		621-64-7	N-Nitroso-di-n-propylamine	0.31	U
50-32-8	Benzo[a]pyrene	1.2	U		86-30-6	n-Nitrosodiphenylamine	1.2	U
205-99-2	Benzo[b]fluoranthene	1.2	U		87-86-5	Pentachlorophenol	6.2	U
191-24-2	Benzo[g,h,i]perylene	1.2	U		85-01-8	Phenanthrene	1.2	U
207-08-9	Benzo[k]fluoranthene	1.2	U		108-95-2	Phenol	1.2	U
111-91-1	bis(2-Chloroethoxy)methan	1.2	U		129-00-0	Pyrene	1.2	U
111-44-4	bis(2-Chloroethyl)ether	0.31	U					

Worksheet #: 407415

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC95154-007

Client Id: Outfall 007

Data File: 10M60528.D

Analysis Date: 12/14/16 16:33

Date Rec/Extracted: 12/13/16-12/14/16

Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 625

Matrix: Aqueous

Initial Vol: 1000ml

Final Vol: 1ml

Dilution: 1

Solids: 0

Units: ug/L							
Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
122-66-7	1,2-Diphenylhydrazine	2.0	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
120-83-2	2,4-Dichlorophenol	0.80	U	85-68-7	Butylbenzylphthalate	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	218-01-9	Chrysene	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	84-66-2	Diethylphthalate	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	131-11-3	Dimethylphthalate	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
95-57-8	2-Chlorophenol	2.0	U	117-84-0	Di-n-octylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	206-44-0	Fluoranthene	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	67-72-1	Hexachloroethane	2.0	U
100-02-7	4-Nitrophenol	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
83-32-9	Acenaphthene	2.0	U	78-59-1	Isophorone	2.0	U
208-96-8	Acenaphthylene	2.0	U	91-20-3	Naphthalene	0.50	U
120-12-7	Anthracene	2.0	U	98-95-3	Nitrobenzene	2.0	U
92-87-5	Benzenidine	3.1	U	62-75-9	N-Nitrosodimethylamine	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
50-32-8	Benzo[a]pyrene	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
205-99-2	Benzo[b]fluoranthene	2.0	U	87-86-5	Pentachlorophenol	10	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	85-01-8	Phenanthrene	2.0	U
207-08-9	Benzo[k]fluoranthene	2.0	U	108-95-2	Phenol	2.0	U
111-91-1	bis(2-Chloroethoxy)methan	2.0	U	129-00-0	Pyrene	2.0	U
111-44-4	bis(2-Chloroethyl)ether	0.50	U				

Worksheet #: 407415

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC95154-008

Client Id: Outfall 008

Data File: 10M60529.D

Analysis Date: 12/14/16 16:55

Date Rec/Extracted: 12/13/16-12/14/16

Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 625

Matrix: Aqueous

Initial Vol: 800ml

Final Vol: 0.5ml

Dilution: 1

Solids: 0

Units: ug/L							
Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
122-66-7	1,2-Diphenylhydrazine	1.2	U	108-60-1	bis(2-chloroisopropyl)ether	1.2	U
88-06-2	2,4,6-Trichlorophenol	1.2	U	117-81-7	bis(2-Ethylhexyl)phthalate	1.2	U
120-83-2	2,4-Dichlorophenol	0.50	U	85-68-7	Butylbenzylphthalate	1.2	U
105-67-9	2,4-Dimethylphenol	0.31	U	218-01-9	Chrysene	1.2	U
51-28-5	2,4-Dinitrophenol	6.2	U	53-70-3	Dibenzo[a,h]anthracene	1.2	U
121-14-2	2,4-Dinitrotoluene	1.2	U	84-66-2	Diethylphthalate	1.2	U
606-20-2	2,6-Dinitrotoluene	1.2	U	131-11-3	Dimethylphthalate	1.2	U
91-58-7	2-Chloronaphthalene	1.2	U	84-74-2	Di-n-butylphthalate	0.31	U
95-57-8	2-Chlorophenol	1.2	U	117-84-0	Di-n-octylphthalate	1.2	U
88-75-5	2-Nitrophenol	1.2	U	206-44-0	Fluoranthene	1.2	U
91-94-1	3,3'-Dichlorobenzidine	1.2	U	86-73-7	Fluorene	1.2	U
534-52-1	4,6-Dinitro-2-methylphenol	6.2	U	118-74-1	Hexachlorobenzene	1.2	U
101-55-3	4-Bromophenyl-phenylether	1.2	U	87-68-3	Hexachlorobutadiene	1.2	U
59-50-7	4-Chloro-3-methylphenol	1.2	U	77-47-4	Hexachlorocyclopentadiene	1.2	U
7005-72-3	4-Chlorophenyl-phenylether	1.2	U	67-72-1	Hexachloroethane	1.2	U
100-02-7	4-Nitrophenol	1.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	1.2	U
83-32-9	Acenaphthene	1.2	U	78-59-1	Isophorone	1.2	U
208-96-8	Acenaphthylene	1.2	U	91-20-3	Naphthalene	0.31	U
120-12-7	Anthracene	1.2	U	98-95-3	Nitrobenzene	1.2	U
92-87-5	Benzidine	2.0	U	62-75-9	N-Nitrosodimethylamine	1.2	U
56-55-3	Benzo[a]anthracene	1.2	U	621-64-7	N-Nitroso-di-n-propylamine	0.31	U
50-32-8	Benzo[a]pyrene	1.2	U	86-30-6	n-Nitrosodiphenylamine	1.2	U
205-99-2	Benzo[b]fluoranthene	1.2	U	87-86-5	Pentachlorophenol	6.2	U
191-24-2	Benzo[g,h,i]perylene	1.2	U	85-01-8	Phenanthrene	1.2	U
207-08-9	Benzo[k]fluoranthene	1.2	U	108-95-2	Phenol	1.2	U
111-91-1	bis(2-Chloroethoxy)methan	1.2	U	129-00-0	Pyrene	1.2	U
111-44-4	bis(2-Chloroethyl)ether	0.31	U				

Worksheet #: 407415

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.*B* - Indicates the analyte was found in the blank as well as in the sample.*E* - Indicates the analyte concentration exceeds the calibration range of the instrument.*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine**R* - Retention Time Out*J* - Indicates an estimated value when a compound is detected at less than the specified detection limit.*d* - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a*Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.*

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC95154-009
 Client Id: Outfall 009
 Data File: 10M60530.D
 Analysis Date: 12/14/16 17:17
 Date Rec/Extracted: 12/13/16-12/14/16
 Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 625
 Matrix: Aqueous
 Initial Vol: 960ml
 Final Vol: 1ml
 Dilution: 1
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
122-66-7	1,2-Diphenylhydrazine	2.1	U	108-60-1	bis(2-chloroisopropyl)ether	2.1	U
88-06-2	2,4,6-Trichlorophenol	2.1	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.1	U
120-83-2	2,4-Dichlorophenol	0.83	U	85-68-7	Butylbenzylphthalate	2.1	U
105-67-9	2,4-Dimethylphenol	0.52	U	218-01-9	Chrysene	2.1	U
51-28-5	2,4-Dinitrophenol	10	U	53-70-3	Dibenzo[a,h]anthracene	2.1	U
121-14-2	2,4-Dinitrotoluene	2.1	U	84-66-2	Diethylphthalate	2.1	U
606-20-2	2,6-Dinitrotoluene	2.1	U	131-11-3	Dimethylphthalate	2.1	U
91-58-7	2-Chloronaphthalene	2.1	U	84-74-2	Di-n-butylphthalate	0.52	U
95-57-8	2-Chlorophenol	2.1	U	117-84-0	Di-n-octylphthalate	2.1	U
88-75-5	2-Nitrophenol	2.1	U	206-44-0	Fluoranthene	2.1	U
91-94-1	3,3'-Dichlorobenzidine	2.1	U	86-73-7	Fluorene	2.1	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.1	U
101-55-3	4-Bromophenyl-phenylether	2.1	U	87-68-3	Hexachlorobutadiene	2.1	U
59-50-7	4-Chloro-3-methylphenol	2.1	U	77-47-4	Hexachlorocyclopentadiene	2.1	U
7005-72-3	4-Chlorophenyl-phenylether	2.1	U	67-72-1	Hexachloroethane	2.1	U
100-02-7	4-Nitrophenol	2.1	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.1	U
83-32-9	Acenaphthene	2.1	U	78-59-1	Isophorone	2.1	U
208-96-8	Acenaphthylene	2.1	U	91-20-3	Naphthalene	0.52	U
120-12-7	Anthracene	2.1	U	98-95-3	Nitrobenzene	2.1	U
92-87-5	Benzidine	3.3	U	62-75-9	N-Nitrosodimethylamine	2.1	U
56-55-3	Benzo[a]anthracene	2.1	U	621-64-7	N-Nitroso-di-n-propylamine	0.52	U
50-32-8	Benzo[a]pyrene	2.1	U	86-30-6	n-Nitrosodiphenylamine	2.1	U
205-99-2	Benzo[b]fluoranthene	2.1	U	87-86-5	Pentachlorophenol	10	U
191-24-2	Benzo[g,h,i]perylene	2.1	U	85-01-8	Phenanthrene	2.1	U
207-08-9	Benzo[k]fluoranthene	2.1	U	108-95-2	Phenol	2.1	U
111-91-1	bis(2-Chloroethoxy)methan	2.1	U	129-00-0	Pyrene	2.1	U
111-44-4	bis(2-Chloroethyl)ether	0.52	U				

Worksheet #: 407415

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a

Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC95154-010

Client Id: Outfall 010

Data File: 10M60531.D

Analysis Date: 12/14/16 17:40

Date Rec/Extracted: 12/13/16-12/14/16

Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 625

Matrix: Aqueous

Initial Vol: 750ml

Final Vol: 0.5ml

Dilution: 1

Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
122-66-7	1,2-Diphenylhydrazine	1.3	U	108-60-1	bis(2-chloroisopropyl)ether	1.3	U
88-06-2	2,4,6-Trichlorophenol	1.3	U	117-81-7	bis(2-Ethylhexyl)phthalate	1.3	U
120-83-2	2,4-Dichlorophenol	0.53	U	85-68-7	Butylbenzylphthalate	1.3	U
105-67-9	2,4-Dimethylphenol	0.33	U	218-01-9	Chrysene	1.3	U
51-28-5	2,4-Dinitrophenol	6.7	U	53-70-3	Dibenzo[a,h]anthracene	1.3	U
121-14-2	2,4-Dinitrotoluene	1.3	U	84-66-2	Diethylphthalate	1.3	U
606-20-2	2,6-Dinitrotoluene	1.3	U	131-11-3	Dimethylphthalate	1.3	U
91-58-7	2-Chloronaphthalene	1.3	U	84-74-2	Di-n-butylphthalate	0.33	U
95-57-8	2-Chlorophenol	1.3	U	117-84-0	Di-n-octylphthalate	1.3	U
88-75-5	2-Nitrophenol	1.3	U	206-44-0	Fluoranthene	1.3	U
91-94-1	3,3'-Dichlorobenzidine	1.3	U	86-73-7	Fluorene	1.3	U
534-52-1	4,6-Dinitro-2-methylphenol	6.7	U	118-74-1	Hexachlorobenzene	1.3	U
101-55-3	4-Bromophenyl-phenylether	1.3	U	87-68-3	Hexachlorobutadiene	1.3	U
59-50-7	4-Chloro-3-methylphenol	1.3	U	77-47-4	Hexachlorocyclopentadiene	1.3	U
7005-72-3	4-Chlorophenyl-phenylether	1.3	U	67-72-1	Hexachloroethane	1.3	U
100-02-7	4-Nitrophenol	1.3	U	193-39-5	Indeno[1,2,3-cd]pyrene	1.3	U
83-32-9	Acenaphthene	1.3	U	78-59-1	Isophorone	1.3	U
208-96-8	Acenaphthylene	1.3	U	91-20-3	Naphthalene	0.33	U
120-12-7	Anthracene	1.3	U	98-95-3	Nitrobenzene	1.3	U
92-87-5	Benzidine	2.1	U	62-75-9	N-Nitrosodimethylamine	1.3	U
56-55-3	Benzo[a]anthracene	1.3	U	621-64-7	N-Nitroso-di-n-propylamine	0.33	U
50-32-8	Benzo[a]pyrene	1.3	U	86-30-6	n-Nitrosodiphenylamine	1.3	U
205-99-2	Benzo[b]fluoranthene	1.3	U	87-86-5	Pentachlorophenol	6.7	U
191-24-2	Benzo[g,h,i]perylene	1.3	U	85-01-8	Phenanthrene	1.3	U
207-08-9	Benzo[k]fluoranthene	1.3	U	108-95-2	Phenol	1.3	U
111-91-1	bis(2-Chloroethoxy)methan	1.3	U	129-00-0	Pyrene	1.3	U
111-44-4	bis(2-Chloroethyl)ether	0.33	U				

Worksheet #: 407415

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC95154-011

Client Id: Outfall 011

Data File: 10M60532.D

Analysis Date: 12/14/16 18:02

Date Rec/Extracted: 12/13/16-12/14/16

Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 625

Matrix: Aqueous

Initial Vol: 960ml

Final Vol: 1ml

Dilution: 1

Solids: 0

Cas #	Compound	RL	Units: ug/L		Cas #	Compound	RL	Conc
			Conc	U				
122-66-7	1,2-Diphenylhydrazine	2.1		U	108-60-1	bis(2-chloroisopropyl)ether	2.1	U
88-06-2	2,4,6-Trichlorophenol	2.1		U	117-81-7	bis(2-Ethylhexyl)phthalate	2.1	U
120-83-2	2,4-Dichlorophenol	0.83		U	85-68-7	Butylbenzylphthalate	2.1	U
105-67-9	2,4-Dimethylphenol	0.52		8.5	218-01-9	Chrysene	2.1	U
51-28-5	2,4-Dinitrophenol	10		U	53-70-3	Dibenzo[a,h]anthracene	2.1	U
121-14-2	2,4-Dinitrotoluene	2.1		U	84-66-2	Diethylphthalate	2.1	U
606-20-2	2,6-Dinitrotoluene	2.1		U	131-11-3	Dimethylphthalate	2.1	U
91-58-7	2-Chloronaphthalene	2.1		U	84-74-2	Di-n-butylphthalate	0.52	U
95-57-8	2-Chlorophenol	2.1		U	117-84-0	Di-n-octylphthalate	2.1	U
88-75-5	2-Nitrophenol	2.1		U	206-44-0	Fluoranthene	2.1	U
91-94-1	3,3'-Dichlorobenzidine	2.1		U	86-73-7	Fluorene	2.1	U
534-52-1	4,6-Dinitro-2-methylphenol	10		U	118-74-1	Hexachlorobenzene	2.1	U
101-55-3	4-Bromophenyl-phenylether	2.1		U	87-68-3	Hexachlorobutadiene	2.1	U
59-50-7	4-Chloro-3-methylphenol	2.1		U	77-47-4	Hexachlorocyclopentadiene	2.1	U
7005-72-3	4-Chlorophenyl-phenylether	2.1		U	67-72-1	Hexachloroethane	2.1	U
100-02-7	4-Nitrophenol	2.1		U	193-39-5	Indeno[1,2,3-cd]pyrene	2.1	U
83-32-9	Acenaphthene	2.1		U	78-59-1	Isophorone	2.1	U
208-96-8	Acenaphthylene	2.1		U	91-20-3	Naphthalene	0.52	13
120-12-7	Anthracene	2.1		U	98-95-3	Nitrobenzene	2.1	U
92-87-5	Benzo[e]pyrene	3.3		U	62-75-9	N-Nitrosodimethylamine	2.1	U
56-55-3	Benzo[a]anthracene	2.1		U	621-64-7	N-Nitroso-di-n-propylamine	0.52	U
50-32-8	Benzo[a]pyrene	2.1		U	86-30-6	n-Nitrosodiphenylamine	2.1	U
205-99-2	Benzo[b]fluoranthene	2.1		U	87-86-5	Pentachlorophenol	10	U
191-24-2	Benzo[g,h,i]perylene	2.1		U	85-01-8	Phenanthrene	2.1	U
207-08-9	Benzo[k]fluoranthene	2.1		U	108-95-2	Phenol	2.1	U
111-91-1	bis(2-Chloroethoxy)methan	2.1		U	129-00-0	Pyrene	2.1	U
111-44-4	bis(2-Chloroethyl)ether	0.52		U				

Worksheet #: 407415

Total Target Concentration 22

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC95154-012

Client Id: Outfall 012

Data File: 10M60533.D

Analysis Date: 12/14/16 18:24

Date Rec/Extracted: 12/13/16-12/14/16

Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 625

Matrix: Aqueous

Initial Vol: 980ml

Final Vol: 1ml

Dilution: 1

Solids: 0

		Units: ug/L					
Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
122-66-7	1,2-Diphenylhydrazine	2.0	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
120-83-2	2,4-Dichlorophenol	0.81	U	85-68-7	Butylbenzylphthalate	2.0	U
105-67-9	2,4-Dimethylphenol	0.51	U	218-01-9	Chrysene	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	84-66-2	Diethylphthalate	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	131-11-3	Dimethylphthalate	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	84-74-2	Di-n-butylphthalate	0.51	U
95-57-8	2-Chlorophenol	2.0	U	117-84-0	Di-n-octylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	206-44-0	Fluoranthene	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	67-72-1	Hexachloroethane	2.0	U
100-02-7	4-Nitrophenol	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
83-32-9	Acenaphthene	2.0	U	78-59-1	Isophorone	2.0	U
208-96-8	Acenaphthylene	2.0	U	91-20-3	Naphthalene	0.51	U
120-12-7	Anthracene	2.0	U	98-95-3	Nitrobenzene	2.0	U
92-87-5	Benzdine	3.2	U	62-75-9	N-Nitrosodimethylamine	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.51	U
50-32-8	Benzo[a]pyrene	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
205-99-2	Benzo[b]fluoranthene	2.0	U	87-86-5	Pentachlorophenol	10	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	85-01-8	Phenanthrene	2.0	U
207-08-9	Benzo[k]fluoranthene	2.0	U	108-95-2	Phenol	2.0	U
111-91-1	bis(2-Chloroethoxy)methan	2.0	U	129-00-0	Pyrene	2.0	U
111-44-4	bis(2-Chloroethyl)ether	0.51	U				

Worksheet #: 407415

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use g

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC95154-013

Client Id: Outfall 013

Data File: 10M60534.D

Analysis Date: 12/14/16 18:47

Date Rec/Extracted: 12/13/16-12/14/16

Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 625

Matrix: Aqueous

Initial Vol: 900ml

Final Vol: 1ml

Dilution: 1

Solids: 0

Units: ug/L							
Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
122-66-7	1,2-Diphenylhydrazine	2.2	U	108-60-1	bis(2-chloroisopropyl)ether	2.2	U
88-06-2	2,4,6-Trichlorophenol	2.2	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.2	U
120-83-2	2,4-Dichlorophenol	0.89	U	85-68-7	Butylbenzylphthalate	2.2	U
105-67-9	2,4-Dimethylphenol	0.56	U	218-01-9	Chrysene	2.2	U
51-28-5	2,4-Dinitrophenol	11	U	53-70-3	Dibenzo[a,h]anthracene	2.2	U
121-14-2	2,4-Dinitrotoluene	2.2	U	84-66-2	Diethylphthalate	2.2	U
606-20-2	2,6-Dinitrotoluene	2.2	U	131-11-3	Dimethylphthalate	2.2	U
91-58-7	2-Chloronaphthalene	2.2	U	84-74-2	Di-n-butylphthalate	0.56	U
95-57-8	2-Chlorophenol	2.2	U	117-84-0	Di-n-octylphthalate	2.2	U
88-75-5	2-Nitrophenol	2.2	U	206-44-0	Fluoranthene	2.2	U
91-94-1	3,3'-Dichlorobenzidine	2.2	U	86-73-7	Fluorene	2.2	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.2	U
101-55-3	4-Bromophenyl-phenylether	2.2	U	87-68-3	Hexachlorobutadiene	2.2	U
59-50-7	4-Chloro-3-methylphenol	2.2	U	77-47-4	Hexachlorocyclopentadiene	2.2	U
7005-72-3	4-Chlorophenyl-phenylether	2.2	U	67-72-1	Hexachloroethane	2.2	U
100-02-7	4-Nitrophenol	2.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.2	U
83-32-9	Acenaphthene	2.2	U	78-59-1	Isophorone	2.2	U
208-96-8	Acenaphthylene	2.2	U	91-20-3	Naphthalene	0.56	U
120-12-7	Anthracene	2.2	U	98-95-3	Nitrobenzene	2.2	U
92-87-5	Benzidine	3.5	U	62-75-9	N-Nitrosodimethylamine	2.2	U
56-55-3	Benzo[a]anthracene	2.2	U	621-64-7	N-Nitroso-di-n-propylamine	0.56	U
50-32-8	Benzo[a]pyrene	2.2	U	86-30-6	n-Nitrosodiphenylamine	2.2	U
205-99-2	Benzo[b]fluoranthene	2.2	U	87-86-5	Pentachlorophenol	11	U
191-24-2	Benzo[g,h,i]perylene	2.2	U	85-01-8	Phenanthrene	2.2	U
207-08-9	Benzo[k]fluoranthene	2.2	U	108-95-2	Phenol	2.2	U
111-91-1	bis(2-Chloroethoxy)methan	2.2	U	129-00-0	Pyrene	2.2	U
111-44-4	bis(2-Chloroethyl)ether	0.56	U				

Worksheet #: 407415

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.*B* - Indicates the analyte was found in the blank as well as in the sample.*E* - Indicates the analyte concentration exceeds the calibration range of the instrument.*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine**R* - Retention Time Out*J* - Indicates an estimated value when a compound is detected at less than the specified detection limit.*d* - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a*Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.*

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC95154-014

Client Id: Outfall 014

Data File: 10M60535.D

Analysis Date: 12/14/16 19:09

Date Rec/Extracted: 12/13/16-12/14/16

Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 625

Matrix: Aqueous

Initial Vol: 950ml

Final Vol: 1ml

Dilution: 1

Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
122-66-7	1,2-Diphenylhydrazine	2.1	U	108-60-1	bis(2-chloroisopropyl)ether	2.1	U
88-06-2	2,4,6-Trichlorophenol	2.1	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.1	U
120-83-2	2,4-Dichlorophenol	0.84	U	85-68-7	Butylbenzylphthalate	2.1	U
105-67-9	2,4-Dimethylphenol	0.53	U	218-01-9	Chrysene	2.1	U
51-28-5	2,4-Dinitrophenol	11	U	53-70-3	Dibenzo[a,h]anthracene	2.1	U
121-14-2	2,4-Dinitrotoluene	2.1	U	84-66-2	Diethylphthalate	2.1	U
606-20-2	2,6-Dinitrotoluene	2.1	U	131-11-3	Dimethylphthalate	2.1	U
91-58-7	2-Chloronaphthalene	2.1	U	84-74-2	Di-n-butylphthalate	0.53	U
95-57-8	2-Chlorophenol	2.1	U	117-84-0	Di-n-octylphthalate	2.1	U
88-75-5	2-Nitrophenol	2.1	U	206-44-0	Fluoranthene	2.1	U
91-94-1	3,3'-Dichlorobenzidine	2.1	U	86-73-7	Fluorene	2.1	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.1	U
101-55-3	4-Bromophenyl-phenylether	2.1	U	87-68-3	Hexachlorobutadiene	2.1	U
59-50-7	4-Chloro-3-methylphenol	2.1	U	77-47-4	Hexachlorocyclopentadiene	2.1	U
7005-72-3	4-Chlorophenyl-phenylether	2.1	U	67-72-1	Hexachloroethane	2.1	U
100-02-7	4-Nitrophenol	2.1	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.1	U
83-32-9	Acenaphthene	2.1	U	78-59-1	Isophorone	2.1	U
208-96-8	Acenaphthylene	2.1	U	91-20-3	Naphthalene	0.53	U
120-12-7	Anthracene	2.1	U	98-95-3	Nitrobenzene	2.1	U
92-87-5	Benzidine	3.3	U	62-75-9	N-Nitrosodimethylamine	2.1	U
56-55-3	Benzo[a]anthracene	2.1	U	621-64-7	N-Nitroso-di-n-propylamine	0.53	U
50-32-8	Benzo[a]pyrene	2.1	U	86-30-6	n-Nitrosodiphenylamine	2.1	U
205-99-2	Benzo[b]fluoranthene	2.1	U	87-86-5	Pentachlorophenol	11	U
191-24-2	Benzo[g,h,i]perylene	2.1	U	85-01-8	Phenanthrene	2.1	U
207-08-9	Benzo[k]fluoranthene	2.1	U	108-95-2	Phenol	2.1	U
111-91-1	bis(2-Chloroethoxy)methan	2.1	U	129-00-0	Pyrene	2.1	U
111-44-4	bis(2-Chloroethyl)ether	0.53	U				

Worksheet #: 407415

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC95154-015

Client Id: Outfall 015

Data File: 10M60536.D

Analysis Date: 12/14/16 19:31

Date Rec/Extracted: 12/13/16-12/14/16

Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 625

Matrix: Aqueous

Initial Vol: 930ml

Final Vol: 1ml

Dilution: 1

Solids: 0

				Units: ug/L			
Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
122-66-7	1,2-Diphenylhydrazine	2.2	U	108-60-1	bis(2-chloroisopropyl)ether	2.2	U
88-06-2	2,4,6-Trichlorophenol	2.2	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.2	U
120-83-2	2,4-Dichlorophenol	0.86	U	85-68-7	Butylbenzylphthalate	2.2	U
105-67-9	2,4-Dimethylphenol	0.54	U	218-01-9	Chrysene	2.2	U
51-28-5	2,4-Dinitrophenol	11	U	53-70-3	Dibenzo[a,h]anthracene	2.2	U
121-14-2	2,4-Dinitrotoluene	2.2	U	84-66-2	Diethylphthalate	2.2	U
606-20-2	2,6-Dinitrotoluene	2.2	U	131-11-3	Dimethylphthalate	2.2	U
91-58-7	2-Chloronaphthalene	2.2	U	84-74-2	Di-n-butylphthalate	0.54	U
95-57-8	2-Chlorophenol	2.2	U	117-84-0	Di-n-octylphthalate	2.2	U
88-75-5	2-Nitrophenol	2.2	U	206-44-0	Fluoranthene	2.2	U
91-94-1	3,3'-Dichlorobenzidine	2.2	U	86-73-7	Fluorene	2.2	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.2	U
101-55-3	4-Bromophenyl-phenylether	2.2	U	87-68-3	Hexachlorobutadiene	2.2	U
59-50-7	4-Chloro-3-methylphenol	2.2	U	77-47-4	Hexachlorocyclopentadiene	2.2	U
7005-72-3	4-Chlorophenyl-phenylether	2.2	U	67-72-1	Hexachloroethane	2.2	U
100-02-7	4-Nitrophenol	2.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.2	U
83-32-9	Acenaphthene	2.2	U	78-59-1	Isophorone	2.2	U
208-96-8	Acenaphthylene	2.2	U	91-20-3	Naphthalene	0.54	U
120-12-7	Anthracene	2.2	U	98-95-3	Nitrobenzene	2.2	U
92-87-5	Benzidine	3.4	U	62-75-9	N-Nitrosodimethylamine	2.2	U
56-55-3	Benzo[a]anthracene	2.2	U	621-64-7	N-Nitroso-di-n-propylamine	0.54	U
50-32-8	Benzo[a]pyrene	2.2	U	86-30-6	n-Nitrosodiphenylamine	2.2	U
205-99-2	Benzo[b]fluoranthene	2.2	U	87-86-5	Pentachlorophenol	11	U
191-24-2	Benzo[g,h,i]perylene	2.2	U	85-01-8	Phenanthrene	2.2	U
207-08-9	Benzo[k]fluoranthene	2.2	U	108-95-2	Phenol	2.2	U
111-91-1	bis(2-Chloroethoxy)methan	2.2	U	129-00-0	Pyrene	2.2	U
111-44-4	bis(2-Chloroethyl)ether	0.54	U				

Worksheet #: 407415

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a

Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.

FORM2

Surrogate Recovery

Method: EPA 625

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1	Column1	Column1	Column1	Column1	Column1
						S1 Recov	S2 Recov	S3 Recov	S4 Recov	S5 Recov	S6 Recov
5M97582.D	WMB55699	A	12/14/16 14:18	1		32	21*	108	94	98	116
7M81403.D	WMB55733	A	12/16/16 17:08	1		42	23	124	131*	110	143
5M97589.D	DAC95154-001	A	12/14/16 18:19	1		34	24*	83	89	91	114
10M60541.D	DAC95154-002	A	12/15/16 10:20	1		23*	13*	75	83	101	118
10M60542.D	DAC95154-003	A	12/15/16 10:42	1		27*	17*	79	84	81	109
7M81412.D	DAC95154-003(R)	A	12/16/16 20:40	1		21*	12*	59	64	48*	73
5M97592.D	DAC95154-004	A	12/14/16 19:30	1		40	21*	132	96	111	126
10M60543.D	DAC95154-005	A	12/15/16 11:04	1		32	19*	88	94	92	124
10M60527.D	DAC95154-006	A	12/14/16 16:10	1		45	29	100	110	94	120
10M60528.D	DAC95154-007	A	12/14/16 16:33	1		35	21*	98	107	93	116
10M60529.D	DAC95154-008	A	12/14/16 16:55	1		34	21*	83	96	88	106
10M60530.D	DAC95154-009	A	12/14/16 17:17	1		39	24*	102	109	102	122
10M60531.D	DAC95154-010	A	12/14/16 17:40	1		35	22*	85	91	87	101
10M60532.D	DAC95154-011	A	12/14/16 18:02	1		39	25*	108	109	111	122
10M60533.D	DAC95154-012	A	12/14/16 18:24	1		39	23*	106	111	103	121
10M60534.D	DAC95154-013	A	12/14/16 18:47	1		36	22*	103	100	99	116
10M60535.D	DAC95154-014	A	12/14/16 19:09	1		37	21*	101	102	96	122
10M60536.D	DAC95154-015	A	12/14/16 19:31	1		39	23*	107	106	102	124
7M81359.D	WMB55699(MS)	A	12/14/16 14:10	1		37	20*	114	115	115	119
7M81366.D	DAC95131-001(T)	A	12/14/16 16:55	1		68	55	93	96	96	122
7M81367.D	DAC95131-001(T)(MS)	A	12/14/16 17:18	1		54	37	106	78	110	120
7M81368.D	DAC95131-001(T)(MSD)	A	12/14/16 17:42	1		61	42	118	84	121	130
7M81399.D	WMB55733(MS)	A	12/16/16 15:34	1		59	40	102	100	106	104

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 625

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	29-113
S2=Phenol-d5	100	27-115
S3=Nitrobenzene-d5	50	51-139
S4=2-Fluorobiphenyl	50	53-129
S5=2,4,6-Tribromophenol	100	54-149
S6=Terphenyl-d14	50	55-146

Form3
RPD Data Laboratory Limits

QC Batch: WMB55699

Data File	Sample ID:	Analysis Date
Spike or Dup: 7M81368.D	AC95131-001(T)(MSD)	12/14/2016 5:42:00 PM
Duplicate(If applicable): 7M81367.D	AC95131-001(T)(MS)	12/14/2016 5:18:00 PM
Inst Blank(If applicable):		
Method: 625	Matrix: Aqueous	QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD		Sample/MS/MBS		RPD	Limit
		Conc	Conc	Conc	Conc		
N-Nitrosodimethylamine	1	70.2813	63.0456	11	17		
bis(2-Chloroethyl)ether	1	87.9327	77.0661	13*	12		
Phenol	1	44.4939	39.1699	13	27		
2-Chlorophenol	1	84.6602	74.6527	13	21		
bis(2-chloroisopropyl)ether	1	76.697	71.012	7.7	14		
Hexachloroethane	1	78.5749	73.4748	6.7	39		
N-Nitroso-di-n-propylamine	1	81.7532	74.3494	9.5	14		
Nitrobenzene	1	102.3238	94.9123	7.5	13		
Isophorone	1	76.6841	69.0005	11	12		
2-Nitrophenol	1	109.9376	99.3601	10	31		
2,4-Dimethylphenol	1	97.6801	89.905	8.3	18		
bis(2-Chloroethoxy)methane	1	94.0943	86.6842	8.2	12		
2,4-Dichlorophenol	1	103.7232	95.3534	8.4	21		
1,2,4-Trichlorobenzene	1	89.0682	82.0458	8.2	17		
Naphthalene	1	87.7961	81.8522	7	16		
Hexachlorobutadiene	1	91.1136	83.6344	8.6	24		
4-Chloro-3-methylphenol	1	101.8607	91.2931	11	16		
2,4,6-Trichlorophenol	1	109.1446	98.8043	9.9	24		
2-Chloronaphthalene	1	96.1029	90.2492	6.3	13		
Acenaphthylene	1	103.7755	97.4786	6.3	13		
Dimethylphthalate	1	101.6689	94.0158	7.8	12		
2,6-Dinitrotoluene	1	108.4041	100.4837	7.6	13		
Acenaphthene	1	93.8558	87.3596	7.2	14		
2,4-Dinitrophenol	1	107.4827	95.5086	12	37		
2,4-Dinitrotoluene	1	91.4699	84.1933	8.3	13		
4-Nitrophenol	1	48.4167	44.4303	8.6	41		
Fluorene	1	93.1828	88.6295	5	14		
4-Chlorophenyl-phenylether	1	94.6876	89.5521	5.6	13		
Diethylphthalate	1	97.6487	90.4216	7.7	12		
4,6-Dinitro-2-methylphenol	1	111.7266	101.3467	9.7	25		
4-Bromophenyl-phenylether	1	107.3177	100.8311	6.2	13		
Hexachlorobenzene	1	99.2333	91.8212	7.8	12		
Pentachlorophenol	1	119.518	110.9624	7.4	31		
Phenanthrene	1	94.9443	90.4711	4.8	12		
Anthracene	1	97.8168	92.5469	5.5	12		
Di-n-butylphthalate	1	105.849	98.9418	6.7	12		
Fluoranthene	1	94.0186	88.0654	6.5	13		
Pyrene	1	105.7028	96.4971	9.1	13		
Butylbenzylphthalate	1	101.3006	90.873	11	12		
3,3'-Dichlorobenzidine	1	85.5251	79.4845	7.3	40		
Benzo[a]anthracene	1	99.6826	92.6375	7.3	12		
Chrysene	1	104.3843	97.6892	6.6	12		
bis(2-Ethylhexyl)phthalate	1	110.4777	100.1386	9.8	14		
Di-n-octylphthalate	1	103.4673	93.9288	9.7	14		
Benzo[b]fluoranthene	1	100.266	100.0384	0.23	15		
Benzo[k]fluoranthene	1	102.6695	99.3446	3.3	14		
Benzo[a]pyrene	1	106.8294	101.5976	5	13		
Indeno[1,2,3-cd]pyrene	1	123.4753	119.3293	3.4	14		
Dibenzo[a,h]anthracene	1	122.6194	117.057	4.6	14		
Benzo[g,h,i]perylene	1	118.8927	115.0809	3.3	15		

* - Indicates outside of limits

NA - Both concentrations=0... no result can be calculated

Form1
ORGANICS REPORT

Sample Number: WMB55701

Client Id:

Data File: 1G11155.D

Analysis Date: 12/14/16 11:42

Date Rec/Extracted: NA-12/14/15

Column: HP-1 30m 0.530mm ID 2.65um film

Method: EPA 8015D

Matrix: Aqueous

Initial Vol: 5ml

Final Vol: 5ml

Dilution: 1

Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
107-21-1	ETHYLENE GLYCOL	50000	U	57-55-6	PROPYLENE GLYCOL	50000	U

Worksheet #: 407347

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.**B - Indicates the analyte was found in the blank as well as in the sample.**E - Indicates the analyte concentration exceeds the calibration range of the instrument.**R - Retention Time Out**J - Indicates an estimated value when a compound is detected at less than the specified detection limit.**d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a**Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Form1
ORGANICS REPORT

Sample Number: AC95154-001
 Client Id: Outfall 001
 Data File: 1G11160.D
 Analysis Date: 12/14/16 12:49
 Date Rec/Extracted: 12/13/16-12/14/15
 Column: HP-1 30m 0.530mm ID 2.65um film

Method: EPA 8015D
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: 5ml
 Dilution: 1
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
107-21-1	ETHYLENE GLYCOL	50000	U	57-55-6	PROPYLENE GLYCOL	50000	U

Worksheet #: 407347

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration uses

Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.

Form1
ORGANICS REPORT

Sample Number: AC95154-002
 Client Id: Outfall 002
 Data File: 1G11161.D
 Analysis Date: 12/14/16 13:03
 Date Rec/Extracted: 12/13/16-12/14/15
 Column: HP-1 30m 0.530mm ID 2.65um film

Method: EPA 8015D
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: 5ml
 Dilution: 1
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
107-21-1	ETHYLENE GLYCOL	50000	U	57-55-6	PROPYLENE GLYCOL	50000	U

Worksheet #: 407347

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration uses

Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.

Form1
ORGANICS REPORT

Sample Number: AC95154-003
 Client Id: Outfall 003
 Data File: 1G11162.D
 Analysis Date: 12/14/16 13:16
 Date Rec/Extracted: 12/13/16-12/14/15
 Column: HP-1 30m 0.530mm ID 2.65um film

Method: EPA 8015D
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: 5ml
 Dilution: 1
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
107-21-1	ETHYLENE GLYCOL	50000	U	57-55-6	PROPYLENE GLYCOL	50000	U

Worksheet #: 407347

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a

Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.

Form1
ORGANICS REPORT

Sample Number: AC95154-004(2X)
Client Id: Outfall 004
Data File: 1G11206.D
Analysis Date: 12/16/16 12:19
Date Rec/Extracted: 12/13/16-12/14/15
Column: HP-1 30m 0.530mm ID 2.65um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: 5ml
Dilution: 2
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
107-21-1	ETHYLENE GLYCOL	100000	U	57-55-6	PROPYLENE GLYCOL	100000	1200000

Worksheet #: 407347

Total Target Concentration 1200000

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration uses Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.

Form1
ORGANICS REPORT

Sample Number: AC95154-005

Client Id: Outfall 005

Data File: 1G11164.D

Analysis Date: 12/14/16 13:43

Date Rec/Extracted: 12/13/16-12/14/15

Column: HP-1 30m 0.530mm ID 2.65um film

Method: EPA 8015D

Matrix: Aqueous

Initial Vol: 5ml

Final Vol: 5ml

Dilution: 1

Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
107-21-1	ETHYLENE GLYCOL	50000	U	57-55-6	PROPYLENE GLYCOL	50000	U

Worksheet #: 407347

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.**B - Indicates the analyte was found in the blank as well as in the sample.**E - Indicates the analyte concentration exceeds the calibration range of the instrument.**R - Retention Time Out**J - Indicates an estimated value when a compound is detected at less than the specified detection limit.**d - Pesticide %Diff>40% between columns due to coelution. Lower concentration uses**Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.*

Form1
ORGANICS REPORT

Sample Number: AC95154-006	Method: EPA 8015D
Client Id: Outfall 006	Matrix: Aqueous
Data File: 1G11165.D	Initial Vol: 5ml
Analysis Date: 12/14/16 13:57	Final Vol: 5ml
Date Rec/Extracted: 12/13/16-12/14/15	Dilution: 1
Column: HP-1 30m 0.530mm ID 2.65um film	Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
107-21-1	ETHYLENE GLYCOL	50000	U	57-55-6	PROPYLENE GLYCOL	50000	U

Worksheet #: 407347

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration uses

Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.

Form1
ORGANICS REPORT

Sample Number: AC95154-007
 Client Id: Outfall 007
 Data File: 1G11166.D
 Analysis Date: 12/14/16 14:10
 Date Rec/Extracted: 12/13/16-12/14/15
 Column: HP-1 30m 0.530mm ID 2.65um film

Method: EPA 8015D
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: 5ml
 Dilution: 1
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
107-21-1	ETHYLENE GLYCOL	50000	U	57-55-6	PROPYLENE GLYCOL	50000	U

Worksheet #: 407347

Total Target Concentration ()

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration uses

Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.

Form1
ORGANICS REPORT

Sample Number: AC95154-008
 Client Id: Outfall 008
 Data File: 1G11167.D
 Analysis Date: 12/14/16 14:23
 Date Rec/Extracted: 12/13/16-12/14/15
 Column: HP-1 30m 0.530mm ID 2.65um film

Method: EPA 8015D
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: 5ml
 Dilution: 1
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
107-21-1	ETHYLENE GLYCOL	50000	U	57-55-6	PROPYLENE GLYCOL	50000	U

Worksheet #: 407347

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a

Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.

Form1
ORGANICS REPORT

Sample Number: AC95154-009
 Client Id: Outfall 009
 Data File: 1G11168.D
 Analysis Date: 12/14/16 14:37
 Date Rec/Extracted: 12/13/16-12/14/15
 Column: HP-1 30m 0.530mm ID 2.65um film

Method: EPA 8015D
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: 5ml
 Dilution: 1
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
107-21-1	ETHYLENE GLYCOL	50000	U	57-55-6	PROPYLENE GLYCOL	50000	U

Worksheet #: 407347

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration uses

Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.

Form1
ORGANICS REPORT

Sample Number: AC95154-010	Method: EPA 8015D
Client Id: Outfall 010	Matrix: Aqueous
Data File: 1G11169.D	Initial Vol: 5ml
Analysis Date: 12/14/16 14:50	Final Vol: 5ml
Date Rec/Extracted: 12/13/16-12/14/15	Dilution: 1
Column: HP-1 30m 0.530mm ID 2.65um film	Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
107-21-1	ETHYLENE GLYCOL	50000	U	57-55-6	PROPYLENE GLYCOL	50000	U

Worksheet #: 407347

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.**B - Indicates the analyte was found in the blank as well as in the sample.**E - Indicates the analyte concentration exceeds the calibration range of the instrument.**R - Retention Time Out**J - Indicates an estimated value when a compound is detected at less than the specified detection limit.**d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a**Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Form1
ORGANICS REPORT

Sample Number: AC95154-011
 Client Id: Outfall 011
 Data File: 1G11170.D
 Analysis Date: 12/14/16 15:04
 Date Rec/Extracted: 12/13/16-12/14/15
 Column: HP-1 30m 0.530mm ID 2.65um film

Method: EPA 8015D
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: 5ml
 Dilution: 1
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
107-21-1	ETHYLENE GLYCOL	50000	U	57-55-6	PROPYLENE GLYCOL	50000	U

Worksheet #: 407347

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration uses

Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.

Form1
ORGANICS REPORT

Sample Number: AC95154-012
 Client Id: Outfall 012
 Data File: 1G11171.D
 Analysis Date: 12/14/16 15:17
 Date Rec/Extracted: 12/13/16-12/14/15
 Column: HP-1 30m 0.530mm ID 2.65um film

Method: EPA 8015D
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: 5ml
 Dilution: 1
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
107-21-1	ETHYLENE GLYCOL	50000	U	57-55-6	PROPYLENE GLYCOL	50000	U

Worksheet #: 407347

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a

Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.

Form1
ORGANICS REPORT

Sample Number: AC95154-013
 Client Id: Outfall 013
 Data File: 1G11172.D
 Analysis Date: 12/14/16 15:30
 Date Rec/Extracted: 12/13/16-12/14/15
 Column: HP-1 30m 0.530mm ID 2.65um film

Method: EPA 8015D
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: 5ml
 Dilution: 1
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
107-21-1	ETHYLENE GLYCOL	50000	U	57-55-6	PROPYLENE GLYCOL	50000	U

Worksheet #: 407347

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a

Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.

Form1
ORGANICS REPORT

Sample Number: AC95154-014
 Client Id: Outfall 014
 Data File: 1G11173.D
 Analysis Date: 12/14/16 15:43
 Date Rec/Extracted: 12/13/16-12/14/15
 Column: HP-1 30m 0.530mm ID 2.65um film

Method: EPA 8015D
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: 5ml
 Dilution: 1
 Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
107-21-1	ETHYLENE GLYCOL	50000	U	57-55-6	PROPYLENE GLYCOL	50000	U

Worksheet #: 407347

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

d - Pesticide %Diff > 40% between columns due to coelution. Lower concentration uses

Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.

Form1
ORGANICS REPORT

Sample Number: AC95154-015	Method: EPA 8015D
Client Id: Outfall 015	Matrix: Aqueous
Data File: 1G11174.D	Initial Vol: 5ml
Analysis Date: 12/14/16 15:57	Final Vol: 5ml
Date Rec/Extracted: 12/13/16-12/14/15	Dilution: 1
Column: HP-1 30m 0.530mm ID 2.65um film	Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
107-21-1	ETHYLENE GLYCOL	50000	U	57-55-6	PROPYLENE GLYCOL	50000	U

Worksheet #: 407347

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.**B - Indicates the analyte was found in the blank as well as in the sample.**E - Indicates the analyte concentration exceeds the calibration range of the instrument.**R - Retention Time Out**J - Indicates an estimated value when a compound is detected at less than the specified detection limit.**d - Pesticide %Diff>40% between columns due to coelution. Lower concentration uses**Chlordane (Total) is sum of α -Chlordane and γ -Chlordane.*

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 57089
Client Id: MB 57089
Matrix: AQUEOUS
Level: LOW

% Solid: 0
Units: UG/L

Lab Name: Hampton-Clarke
Lab Code:

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File	Seq Num	M	Instr
7440-36-0	Antimony	2.5	ND	1	100	125	12/14/16	57089	1416BNEW	12	MS	MS3_7700AQA
7440-38-2	Arsenic	1.0	ND	1	100	125	12/14/16	57089	1416BNEW	12	MS	MS3_7700AQA
7440-41-7	Beryllium	0.75	ND	1	100	125	12/14/16	57089	1416BNEW	12	MS	MS3_7700AQA
7440-43-9	Cadmium	1.0	ND	1	100	125	12/14/16	57089	1416BNEW	12	MS	MS3_7700AQA
7439-92-1	Lead	0.75	ND	1	100	125	12/14/16	57089	1416BNEW	12	MS	MS3_7700AQA
7782-49-2	Selenium	5.0	ND	1	100	125	12/14/16	57089	1416BNEW	12	MS	MS3_7700AQA
7440-28-0	Thallium	1.5	ND	1	100	125	12/14/16	57089	1416BNEW	12	MS	MS3_7700AQA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 57089 (0.5)
Client Id: MB 57089 (0.5)
Matrix: AQUEOUS
Level: LOW

% Solid: 0
Units: UG/L

Lab Name: Hampton-Clarke
Lab Code:

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File	Seq Num	M	Instr
7429-90-5	Aluminum	100	ND	1	100	50	12/14/16	57089	A20316A2	13	P	PEICP2A
7440-39-3	Barium	25	ND	1	100	50	12/14/16	57089	A20316A2	13	P	PEICP2A
7440-43-9	Cadmium	2.0	ND	1	100	50	12/14/16	57089	A20316A2	13	P	PEICP2A
7440-70-2	Calcium	1000	ND	1	100	50	12/14/16	57089	A20316A2	13	P	PEICP2A
7440-47-3	Chromium	25	ND	1	100	50	12/14/16	57089	A20316A2	13	P	PEICP2A
7440-50-8	Copper	25	ND	1	100	50	12/14/16	57089	A20316A2	13	P	PEICP2A
7439-89-6	Iron	150	ND	1	100	50	12/14/16	57089	A20316A2	13	P	PEICP2A
7439-92-1	Lead	5.0	ND	1	100	50	12/14/16	57089	A20316A2	13	P	PEICP2A
7439-95-4	Magnesium	1000	ND	1	100	50	12/14/16	57089	A20316A2	13	P	PEICP2A
7439-96-5	Manganese	25	ND	1	100	50	12/14/16	57089	A20316A2	13	P	PEICP2A
7439-98-7	Molybdenum	10	ND	1	100	50	12/14/16	57089	A20316A2	13	P	PEICP2A
7440-02-0	Nickel	10	ND	1	100	50	12/14/16	57089	A20316A2	13	P	PEICP2A
7440-22-4	Silver	10	ND	1	100	50	12/14/16	57089	A20316A2	13	P	PEICP2A
7440-31-5	Tin	25	ND	1	100	50	12/14/16	57089	A20316A2	13	P	PEICP2A
7440-32-6	Titanium	25	ND	1	100	50	12/14/16	57089	A20316A2	13	P	PEICP2A
7440-62-2	Vanadium	25	ND	1	100	50	12/14/16	57089	A20316A2	13	P	PEICP2A
7440-66-6	Zinc	25	ND	1	100	50	12/14/16	57089	A20316A2	13	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV - ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-001	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 001	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File	Seq Num	M.	Instr
7440-39-3	Barium	25	ND	1	100	50	12/14/16	57089	A20316A2	26	P	PEICP2A
7440-47-3	Chromium	25	ND	1	100	50	12/14/16	57089	A20316A2	26	P	PEICP2A
7440-50-8	Copper	25	ND	1	100	50	12/14/16	57089	A20316A2	26	P	PEICP2A
7440-02-0	Nickel	10	ND	1	100	50	12/14/16	57089	A20316A2	26	P	PEICP2A
7440-22-4	Silver	10	ND	1	100	50	12/14/16	57089	A20316A2	26	P	PEICP2A
7440-66-6	Zinc	25	ND	1	100	50	12/14/16	57089	A20316A2	26	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form 1
Inorganic Analysis Data Sheet

Sample ID: AC95154-001	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 001	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File	Seq Num	M	Instr
7440-36-0	Antimony	2.5	ND	1	100	125	12/14/16	570891416BNEW		23		MSMS3_7700AQA
7440-38-2	Arsenic	1.0	ND	1	100	125	12/14/16	570891416BNEW		23		MSMS3_7700AQA
7440-41-7	Beryllium	0.75	ND	1	100	125	12/14/16	570891416BNEW		23		MSMS3_7700AQA
7440-43-9	Cadmium	1.0	ND	1	100	125	12/14/16	570891416BNEW		23		MSMS3_7700AQA
7439-92-1	Lead	0.75	2.3	1	100	125	12/14/16	570891416BNEW		23		MSMS3_7700AQA
7782-49-2	Selenium	5.0	ND	1	100	125	12/14/16	570891416BNEW		23		MSMS3_7700AQA
7440-28-0	Thallium	1.5	ND	1	100	125	12/14/16	570891416BNEW		23		MSMS3_7700AQA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit

P - ICP-AES

CV -ColdVapor

MS - ICP-MS

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke

Data File Name: A20316A2

Lab Code: 14622

Analysis Date: 12/14/2016

Matrix: Water

Lab Sample ID: AC95154-001

Client ID: PANYNJ

Level: low/med

Dilution: 1

Batch: 20316

% Solid: 0

Concentration Units: Mg CaCO₃/L

Cas No.	Analyte	RL	Concentration	M
	Hardness	6.6	240	P

U - Indicates compound not found above detection/reporting limit

* - Indicates compound above calibration range

P - Indicates analyzed by ICP

CV - Indicates analyzed by Cold Vapor

Comments:

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-002	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 002	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-39-3	Barium	25	42	1	100	50	12/14/16	57089	A20316A2	27	P	PEICP2A
7440-47-3	Chromium	25	ND	1	100	50	12/14/16	57089	A20316A2	27	P	PEICP2A
7440-50-8	Copper	25	ND	1	100	50	12/14/16	57089	A20316A2	27	P	PEICP2A
7440-02-0	Nickel	10	ND	1	100	50	12/14/16	57089	A20316A2	27	P	PEICP2A
7440-22-4	Silver	10	ND	1	100	50	12/14/16	57089	A20316A2	27	P	PEICP2A
7440-66-6	Zinc	25	ND	1	100	50	12/14/16	57089	A20316A2	27	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit

P - ICP-AES

CV - ColdVapor

MS - ICP-MS

Form 1
Inorganic Analysis Data Sheet

Sample ID: AC95154-002	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 002	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File	Seq Num	M	Instr
7440-36-0	Antimony	2.5	ND	1	100	125	12/14/16	570891416BNEW		24		MSMS3_7700AQA
7440-38-2	Arsenic	1.0	ND	1	100	125	12/14/16	570891416BNEW		24		MSMS3_7700AQA
7440-41-7	Beryllium	0.75	ND	1	100	125	12/14/16	570891416BNEW		24		MSMS3_7700AQA
7440-43-9	Cadmium	1.0	ND	1	100	125	12/14/16	570891416BNEW		24		MSMS3_7700AQA
7439-92-1	Lead	0.75	ND	1	100	125	12/14/16	570891416BNEW		24		MSMS3_7700AQA
7782-49-2	Selenium	5.0	ND	1	100	125	12/14/16	570891416BNEW		24		MSMS3_7700AQA
7440-28-0	Thallium	1.5	ND	1	100	125	12/14/16	570891416BNEW		24		MSMS3_7700AQA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit

P - ICP-AES

CV -ColdVapor

MS - ICP-MS

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke

Data File Name: A20316A2

Lab Code: 14622

Analysis Date: 12/14/2016

Matrix: Water

Lab Sample ID: AC95154-002

Client ID: PANYNJ

Level: low/med

Dilution: 1

Batch: 20316

% Solid: 0

Concentration Units: Mg CaCO₃/L

Cas No.	Analyte	RL	Concentration	M
	Hardness	6.6	420	P

U - Indicates compound not found above detection/reporting limit

* - Indicates compound above calibration range

P - Indicates analyzed by ICP

CV - Indicates analyzed by Cold Vapor

Comments: _____

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-003	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 003	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File	Seq Num	M	Instr
7440-39-3	Barium	25	ND	1	100	50	12/14/16	57089	A20316A2	32	P	PEICP2A
7440-47-3	Chromium	25	ND	1	100	50	12/14/16	57089	A20316A2	32	P	PEICP2A
7440-50-8	Copper	25	ND	1	100	50	12/14/16	57089	A20316A2	32	P	PEICP2A
7440-02-0	Nickel	10	ND	1	100	50	12/14/16	57089	A20316A2	32	P	PEICP2A
7440-22-4	Silver	10	ND	1	100	50	12/14/16	57089	A20316A2	32	P	PEICP2A
7440-66-6	Zinc	25	ND	1	100	50	12/14/16	57089	A20316A2	32	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit

P - ICP-AES

CV -ColdVapor

MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-003	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 003	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.5	ND	1	100	125	12/14/16	570891416BNEW		25	MS	MS3_7700AQA
7440-38-2	Arsenic	1.0	1.1	1	100	125	12/14/16	570891416BNEW		25	MS	MS3_7700AQA
7440-41-7	Beryllium	0.75	ND	1	100	125	12/14/16	570891416BNEW		25	MS	MS3_7700AQA
7440-43-9	Cadmium	1.0	ND	1	100	125	12/14/16	570891416BNEW		25	MS	MS3_7700AQA
7439-92-1	Lead	0.75	ND	1	100	125	12/14/16	570891416BNEW		25	MS	MS3_7700AQA
7782-49-2	Selenium	5.0	ND	1	100	125	12/14/16	570891416BNEW		25	MS	MS3_7700AQA
7440-28-0	Thallium	1.5	ND	1	100	125	12/14/16	570891416BNEW		25	MS	MS3_7700AQA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit

P - ICP-AES

CV -ColdVapor

MS - ICP-MS

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke

Data File Name: A20316A2

Lab Code: 14622

Analysis Date: 12/14/2016

Matrix: Water

Lab Sample ID: AC95154-003

Client ID: PANYNJ

Level: low/med

Dilution: 1

Batch: 20316

% Solid: 0

Concentration Units: Mg CaCO3/L

Cas No.	Analyte	RL	Concentration	M
	Hardness	6.6	150	P

U - Indicates compound not found above detection/reporting limit

* - Indicates compound above calibration range

P - Indicates analyzed by ICP

CV - Indicates analyzed by Cold Vapor

Comments: _____

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-004	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 004	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File	Seq Num	M	Instr
7440-39-3	Barium	25	79	1	100	50	12/14/16	57089	A20316A2	33	P	PEICP2A
7440-47-3	Chromium	25	ND	1	100	50	12/14/16	57089	A20316A2	33	P	PEICP2A
7440-50-8	Copper	25	ND	1	100	50	12/14/16	57089	A20316A2	33	P	PEICP2A
7440-02-0	Nickel	10	ND	1	100	50	12/14/16	57089	A20316A2	33	P	PEICP2A
7440-22-4	Silver	10	ND	1	100	50	12/14/16	57089	A20316A2	33	P	PEICP2A
7440-66-6	Zinc	25	27	1	100	50	12/14/16	57089	A20316A2	33	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV - ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-004	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 004	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M:	Instr
7440-36-0	Antimony	2.5	ND	1	100	125	12/14/16	570891416BNEW		26		MSMS3_7700AQA
7440-38-2	Arsenic	1.0	1.2	1	100	125	12/14/16	570891416BNEW		26		MSMS3_7700AQA
7440-41-7	Beryllium	0.75	ND	1	100	125	12/14/16	570891416BNEW		26		MSMS3_7700AQA
7440-43-9	Cadmium	1.0	ND	1	100	125	12/14/16	570891416BNEW		26		MSMS3_7700AQA
7439-92-1	Lead	0.75	ND	1	100	125	12/14/16	570891416BNEW		26		MSMS3_7700AQA
7782-49-2	Selenium	5.0	ND	1	100	125	12/14/16	570891416BNEW		26		MSMS3_7700AQA
7440-28-0	Thallium	1.5	ND	1	100	125	12/14/16	570891416BNEW		26		MSMS3_7700AQA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke

Data File Name: A20316A2

Lab Code: 14622

Analysis Date: 12/14/2016

Matrix: Water

Lab Sample ID: AC95154-004

Client ID: PANYNJ

Level: low/med

Dilution: 1

Batch: 20316

% Solid: 0

Concentration Units: Mg CaCO₃/L

Cas No.	Analyte	RL	Concentration	M
	Hardness	6.6	200	P

U - Indicates compound not found above detection/reporting limit

* - Indicates compound above calibration range

P - Indicates analyzed by ICP

CV - Indicates analyzed by Cold Vapor

Comments: _____

Form1 Inorganic Analysis Data Sheet

Sample ID: AC95154-005	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 005	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-39-3	Barium	25	ND	1	100	50	12/14/16	57089	A20316A2	34	P	PEICP2A
7440-47-3	Chromium	25	ND	1	100	50	12/14/16	57089	A20316A2	34	P	PEICP2A
7440-50-8	Copper	25	ND	1	100	50	12/14/16	57089	A20316A2	34	P	PEICP2A
7440-02-0	Nickel	10	ND	1	100	50	12/14/16	57089	A20316A2	34	P	PEICP2A
7440-22-4	Silver	10	ND	1	100	50	12/14/16	57089	A20316A2	34	P	PEICP2A
7440-66-6	Zinc	25	ND	1	100	50	12/14/16	57089	A20316A2	34	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form 1
Inorganic Analysis Data Sheet

Sample ID: AC95154-005	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 005	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File	Seq Num	M	Instr
7440-36-0	Antimony	2.5	ND	1	100	125	12/14/16	570891416BNEW	416BNEW	27		MSMS3_7700AQA
7440-38-2	Arsenic	1.0	ND	1	100	125	12/14/16	570891416BNEW	416BNEW	27		MSMS3_7700AQA
7440-41-7	Beryllium	0.75	ND	1	100	125	12/14/16	570891416BNEW	416BNEW	27		MSMS3_7700AQA
7440-43-9	Cadmium	1.0	ND	1	100	125	12/14/16	570891416BNEW	416BNEW	27		MSMS3_7700AQA
7439-92-1	Lead	0.75	ND	1	100	125	12/14/16	570891416BNEW	416BNEW	27		MSMS3_7700AQA
7782-49-2	Selenium	5.0	ND	1	100	125	12/14/16	570891416BNEW	416BNEW	27		MSMS3_7700AQA
7440-28-0	Thallium	1.5	ND	1	100	125	12/14/16	570891416BNEW	416BNEW	27		MSMS3_7700AQA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit

P - ICP-AES

CV -ColdVapor

MS - ICP-MS

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke

Data File Name: A20316A2

Lab Code: 14622

Analysis Date: 12/14/2016

Matrix: Water

Lab Sample ID: AC95154-005

Client ID: PANYNJ

Level: low/med

Dilution: 1

Batch: 20316

% Solid: 0

Concentration Units: Mg CaCO₃/L

Cas No.	Analyte	RL	Concentration	M
	Hardness	6.6	190	P

U - Indicates compound not found above detection/reporting limit

* - Indicates compound above calibration range

P - Indicates analyzed by ICP

CV - Indicates analyzed by Cold Vapor

Comments: _____

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-006
Client Id: Outfall 006
Matrix: AQUEOUS
Level: LOW

% Solid: 0
Units: UG/L
Date Rec: 12/13/2016

Lab Name: Hampton-Clarke
Lab Code:
Contract:

Nras No:
Sdg No:
Case No:

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-39-3	Barium	25	36	1	100	50	12/14/16	57089	A20316A2	35	P	PEICP2A
7440-47-3	Chromium	25	ND	1	100	50	12/14/16	57089	A20316A2	35	P	PEICP2A
7440-50-8	Copper	25	ND	1	100	50	12/14/16	57089	A20316A2	35	P	PEICP2A
7440-02-0	Nickel	10	ND	1	100	50	12/14/16	57089	A20316A2	35	P	PEICP2A
7440-22-4	Silver	10	ND	1	100	50	12/14/16	57089	A20316A2	35	P	PEICP2A
7440-66-6	Zinc	25	ND	1	100	50	12/14/16	57089	A20316A2	35	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-006	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 006	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File	Seq Num	M	Instr
7440-36-0	Antimony	2.5	ND	1	100	125	12/14/16	57089	416BNEW	28		MSMS3_7700AQA
7440-38-2	Arsenic	1.0	ND	1	100	125	12/14/16	57089	416BNEW	28		MSMS3_7700AQA
7440-41-7	Beryllium	0.75	ND	1	100	125	12/14/16	57089	416BNEW	28		MSMS3_7700AQA
7440-43-9	Cadmium	1.0	ND	1	100	125	12/14/16	57089	416BNEW	28		MSMS3_7700AQA
7439-92-1	Lead	0.75	ND	1	100	125	12/14/16	57089	416BNEW	28		MSMS3_7700AQA
7782-49-2	Selenium	5.0	ND	1	100	125	12/14/16	57089	416BNEW	28		MSMS3_7700AQA
7440-28-0	Thallium	1.5	ND	1	100	125	12/14/16	57089	416BNEW	28		MSMS3_7700AQA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV - Cold Vapor
MS - ICP-MS

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke

Data File Name: A20316A2

Lab Code: 14622

Analysis Date: 12/14/2016

Matrix: Water

Lab Sample ID: AC95154-006

Client ID: PANYNJ

Level: low/med

Dilution: 1

Batch: 20316

% Solid: 0

Concentration Units: Mg CaCO3/L

Cas No.	Analyte	RL	Concentration	M
	Hardness	6.6	390	P

U - Indicates compound not found above detection/reporting limit

* - Indicates compound above calibration range

P - Indicates analyzed by ICP

CV - Indicates analyzed by Cold Vapor

Comments: _____

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-007	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 007	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-39-3	Barium	25	ND	1	100	50	12/14/16	57089	A20316A2	36	P	PEICP2A
7440-47-3	Chromium	25	ND	1	100	50	12/14/16	57089	A20316A2	36	P	PEICP2A
7440-50-8	Copper	25	ND	1	100	50	12/14/16	57089	A20316A2	36	P	PEICP2A
7440-02-0	Nickel	10	ND	1	100	50	12/14/16	57089	A20316A2	36	P	PEICP2A
7440-22-4	Silver	10	ND	1	100	50	12/14/16	57089	A20316A2	36	P	PEICP2A
7440-66-6	Zinc	25	ND	1	100	50	12/14/16	57089	A20316A2	36	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV - Cold Vapor
MS - ICP-MS

Form 1
Inorganic Analysis Data Sheet

Sample ID: AC95154-007	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 007	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc.	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File	Seq Num	M	Instr
7440-36-0	Antimony	2.5	ND	1	100	125	12/14/16	570891416BNEW		29		MSMS3_7700AQA
7440-38-2	Arsenic	1.0	ND	1	100	125	12/14/16	570891416BNEW		29		MSMS3_7700AQA
7440-41-7	Beryllium	0.75	ND	1	100	125	12/14/16	570891416BNEW		29		MSMS3_7700AQA
7440-43-9	Cadmium	1.0	ND	1	100	125	12/14/16	570891416BNEW		29		MSMS3_7700AQA
7439-92-1	Lead	0.75	ND	1	100	125	12/14/16	570891416BNEW		29		MSMS3_7700AQA
7782-49-2	Selenium	5.0	ND	1	100	125	12/14/16	570891416BNEW		29		MSMS3_7700AQA
7440-28-0	Thallium	1.5	ND	1	100	125	12/14/16	570891416BNEW		29		MSMS3_7700AQA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV - ColdVapor
MS - ICP-MS

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke

Data File Name: A20316A2

Lab Code: 14622

Analysis Date: 12/14/2016

Matrix: Water

Lab Sample ID: AC95154-007

Client ID: PANYNJ

Level: low/med

Dilution: 1

Batch: 20316

% Solid: 0

Concentration Units: Mg CaCO₃/L

Cas No.	Analyte	RL	Concentration	M
	Hardness	6.6	160	P

U - Indicates compound not found above detection/reporting limit

* - Indicates compound above calibration range

P - Indicates analyzed by ICP

CV - Indicates analyzed by Cold Vapor

Comments: _____

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-008	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 008	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File	Seq Num	M	Instr
7440-39-3	Barium	25	36	1	100	50	12/14/16	57089	A20316A2	37	P	PEICP2A
7440-47-3	Chromium	25	ND	1	100	50	12/14/16	57089	A20316A2	37	P	PEICP2A
7440-50-8	Copper	25	ND	1	100	50	12/14/16	57089	A20316A2	37	P	PEICP2A
7440-02-0	Nickel	10	ND	1	100	50	12/14/16	57089	A20316A2	37	P	PEICP2A
7440-22-4	Silver	10	ND	1	100	50	12/14/16	57089	A20316A2	37	P	PEICP2A
7440-66-6	Zinc	25	38	1	100	50	12/14/16	57089	A20316A2	37	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-008	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 008	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.5	ND	1	100	125	12/14/16	570891416BNEW		30	MSMS3_7700AQA	
7440-38-2	Arsenic	1.0	ND	1	100	125	12/14/16	570891416BNEW		30	MSMS3_7700AQA	
7440-41-7	Beryllium	0.75	ND	1	100	125	12/14/16	570891416BNEW		30	MSMS3_7700AQA	
7440-43-9	Cadmium	1.0	ND	1	100	125	12/14/16	570891416BNEW		30	MSMS3_7700AQA	
7439-92-1	Lead	0.75	0.94	1	100	125	12/14/16	570891416BNEW		30	MSMS3_7700AQA	
7782-49-2	Selenium	5.0	ND	1	100	125	12/14/16	570891416BNEW		30	MSMS3_7700AQA	
7440-28-0	Thallium	1.5	ND	1	100	125	12/14/16	570891416BNEW		30	MSMS3_7700AQA	

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit

P - ICP-AES

CV -ColdVapor

MS - ICP-MS

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke

Data File Name: A20316A2

Lab Code: 14622

Analysis Date: 12/14/2016

Matrix: Water

Lab Sample ID: AC95154-008

Level: low/med

Client ID: PANYNJ

Batch: 20316

Dilution: 1

% Solid: 0

Concentration Units: Mg CaCO₃/L

Cas No.	Analyte	RL	Concentration	M
	Hardness	6.6	130	P

U - Indicates compound not found above detection/reporting limit

* - Indicates compound above calibration range

P - Indicates analyzed by ICP

CV - Indicates analyzed by Cold Vapor

Comments: _____

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-009
Client Id: Outfall 009
Matrix: AQUEOUS
Level: LOW

% Solid: 0
Units: UG/L
Date Rec: 12/13/2016

Lab Name: Hampton-Clarke
Lab Code:
Contract:

Nras No:
Sdg No:
Case No:

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-39-3	Barium	25	43	1	100	50	12/14/16	57089	A20316A2	38	P	PEICP2A
7440-47-3	Chromium	25	ND	1	100	50	12/14/16	57089	A20316A2	38	P	PEICP2A
7440-50-8	Copper	25	ND	1	100	50	12/14/16	57089	A20316A2	38	P	PEICP2A
7440-02-0	Nickel	10	ND	1	100	50	12/14/16	57089	A20316A2	38	P	PEICP2A
7440-22-4	Silver	10	ND	1	100	50	12/14/16	57089	A20316A2	38	P	PEICP2A
7440-66-6	Zinc	25	ND	1	100	50	12/14/16	57089	A20316A2	38	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-009	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 009	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.5	ND	1	100	125	12/14/16	570891416BNEW		31		MSMS3_7700AQA
7440-38-2	Arsenic	1.0	ND	1	100	125	12/14/16	570891416BNEW		31		MSMS3_7700AQA
7440-41-7	Beryllium	0.75	ND	1	100	125	12/14/16	570891416BNEW		31		MSMS3_7700AQA
7440-43-9	Cadmium	1.0	ND	1	100	125	12/14/16	570891416BNEW		31		MSMS3_7700AQA
7439-92-1	Lead	0.75	ND	1	100	125	12/14/16	570891416BNEW		31		MSMS3_7700AQA
7782-49-2	Selenium	5.0	ND	1	100	125	12/14/16	570891416BNEW		31		MSMS3_7700AQA
7440-28-0	Thallium	1.5	ND	1	100	125	12/14/16	570891416BNEW		31		MSMS3_7700AQA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke

Data File Name: A20316A2

Lab Code: 14622

Analysis Date: 12/14/2016

Matrix: Water

Lab Sample ID: AC95154-009

Client ID: PANYNJ

Level: low/med

Dilution: 1

Batch: 20316

% Solid: 0

Concentration Units: Mg CaCO3/L

Cas No.	Analyte	RL	Concentration	M
	Hardness	6.6	260	P

U - Indicates compound not found above detection/reporting limit

* - Indicates compound above calibration range

P - Indicates analyzed by ICP

CV - Indicates analyzed by Cold Vapor

Comments: _____

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-010	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 010	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-39-3	Barium	25	48	1	100	50	12/14/16	57089	A20316A2	41	P	PEICP2A
7440-47-3	Chromium	25	ND	1	100	50	12/14/16	57089	A20316A2	41	P	PEICP2A
7440-50-8	Copper	25	ND	1	100	50	12/14/16	57089	A20316A2	41	P	PEICP2A
7440-02-0	Nickel	10	ND	1	100	50	12/14/16	57089	A20316A2	41	P	PEICP2A
7440-22-4	Silver	10	ND	1	100	50	12/14/16	57089	A20316A2	41	P	PEICP2A
7440-66-6	Zinc	25	36	1	100	50	12/14/16	57089	A20316A2	41	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-010	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 010	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.5	ND	1	100	125	12/14/16	570891416BNEW		34		MSMS3_7700AQA
7440-38-2	Arsenic	1.0	1.5	1	100	125	12/14/16	570891416BNEW		34		MSMS3_7700AQA
7440-41-7	Beryllium	0.75	ND	1	100	125	12/15/16	570891516ANEW		12		MSMS3_7700AQA
7440-43-9	Cadmium	1.0	ND	1	100	125	12/14/16	570891416BNEW		34		MSMS3_7700AQA
7439-92-1	Lead	0.75	2.0	1	100	125	12/14/16	570891416BNEW		34		MSMS3_7700AQA
7782-49-2	Selenium	5.0	ND	1	100	125	12/14/16	570891416BNEW		34		MSMS3_7700AQA
7440-28-0	Thallium	1.5	ND	1	100	125	12/14/16	570891416BNEW		34		MSMS3_7700AQA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke

Data File Name: A20316A2

Lab Code: 14622

Analysis Date: 12/14/2016

Matrix: Water

Lab Sample ID: AC95154-010

Client ID: PANYNJ

Level: low/med

Dilution: 1

Batch: 20316

% Solid: 0

Concentration Units: Mg CaCO₃/L

Cas No.	Analyte	RL	Concentration	M
	Hardness	6.6	200	P

U - Indicates compound not found above detection/reporting limit

* - Indicates compound above calibration range

P - Indicates analyzed by ICP

CV - Indicates analyzed by Cold Vapor

Comments: _____

Form 1
Inorganic Analysis Data Sheet

Sample ID: AC95154-011	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 011	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File	Seq Num	M	Instr
7440-39-3	Barium	25	ND	1	100	50	12/14/16	57089	A20316A2	42	P	PEICP2A
7440-47-3	Chromium	25	ND	1	100	50	12/14/16	57089	A20316A2	42	P	PEICP2A
7440-50-8	Copper	25	ND	1	100	50	12/14/16	57089	A20316A2	42	P	PEICP2A
7440-02-0	Nickel	10	ND	1	100	50	12/14/16	57089	A20316A2	42	P	PEICP2A
7440-22-4	Silver	10	ND	1	100	50	12/14/16	57089	A20316A2	42	P	PEICP2A
7440-66-6	Zinc	25	ND	1	100	50	12/14/16	57089	A20316A2	42	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV - Cold Vapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-011	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 011	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.5	ND	1	100	125	12/14/16	570891416BNEW		35		MSMS3_7700AQA
7440-38-2	Arsenic	1.0	ND	1	100	125	12/14/16	570891416BNEW		35		MSMS3_7700AQA
7440-41-7	Beryllium	0.75	ND	1	100	125	12/15/16	570891516ANEW		13		MSMS3_7700AQA
7440-43-9	Cadmium	1.0	ND	1	100	125	12/14/16	570891416BNEW		35		MSMS3_7700AQA
7439-92-1	Lead	0.75	ND	1	100	125	12/14/16	570891416BNEW		35		MSMS3_7700AQA
7782-49-2	Selenium	5.0	ND	1	100	125	12/14/16	570891416BNEW		35		MSMS3_7700AQA
7440-28-0	Thallium	1.5	ND	1	100	125	12/14/16	570891416BNEW		35		MSMS3_7700AQA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit

P - ICP-AES

CV -ColdVapor

MS - ICP-MS

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke

Data File Name: A20316A2

Lab Code: 14622

Analysis Date: 12/14/2016

Matrix: Water

Lab Sample ID: AC95154-011

Client ID: PANYNJ

Level: low/med

Dilution: 1

Batch: 20316

% Solid: 0

Concentration Units: Mg CaCO₃/L

Cas No.	Analyte	RL	Concentration	M
	Hardness	6.6	57	P

U - Indicates compound not found above detection/reporting limit

* - Indicates compound above calibration range

P - Indicates analyzed by ICP

CV - Indicates analyzed by Cold Vapor

Comments: _____

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-012
Client Id: Outfall 012
Matrix: AQUEOUS
Level: LOW

% Solid: 0
Units: UG/L
Date Rec: 12/13/2016

Lab Name: Hampton-Clarke
Lab Code:
Contract:

Nras No:
Sdg No:
Case No:

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M:	Instr
7440-39-3	Barium	25	ND	1	100	50	12/14/16	57089	A20316A2	43	P	PEICP2A
7440-47-3	Chromium	25	ND	1	100	50	12/14/16	57089	A20316A2	43	P	PEICP2A
7440-50-8	Copper	25	ND	1	100	50	12/14/16	57089	A20316A2	43	P	PEICP2A
7440-02-0	Nickel	10	ND	1	100	50	12/14/16	57089	A20316A2	43	P	PEICP2A
7440-22-4	Silver	10	ND	1	100	50	12/14/16	57089	A20316A2	43	P	PEICP2A
7440-66-6	Zinc	25	ND	1	100	50	12/14/16	57089	A20316A2	43	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-012
Client Id: Outfall 012
Matrix: AQUEOUS
Level: LOW

% Solid: 0
Units: UG/L
Date Rec: 12/13/2016

Lab Name: Hampton-Clarke
Lab Code:
Contract:

Nras No:
Sdg No:
Case No:

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M:	Instr
7440-36-0	Antimony	2.5	ND	1	100	125	12/14/16	570891416BNEW		36		MSMS3_7700AQA
7440-38-2	Arsenic	1.0	1.2	1	100	125	12/14/16	570891416BNEW		36		MSMS3_7700AQA
7440-41-7	Beryllium	0.75	ND	1	100	125	12/15/16	570891516ANew		14		MSMS3_7700AQA
7440-43-9	Cadmium	1.0	ND	1	100	125	12/14/16	570891416BNEW		36		MSMS3_7700AQA
7439-92-1	Lead	0.75	ND	1	100	125	12/14/16	570891416BNEW		36		MSMS3_7700AQA
7782-49-2	Selenium	5.0	ND	1	100	125	12/14/16	570891416BNEW		36		MSMS3_7700AQA
7440-28-0	Thallium	1.5	ND	1	100	125	12/14/16	570891416BNEW		36		MSMS3_7700AQA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit

P - ICP-AES

CV -ColdVapor

MS - ICP-MS

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke

Data File Name: A20316A2

Lab Code: 14622

Analysis Date: 12/14/2016

Matrix: Water

Lab Sample ID: AC95154-012

Client ID: PANYNJ

Level: low/med

Dilution: 1

Batch: 20316

% Solid: 0

Concentration Units: Mg CaCO₃/L

Cas No.	Analyte	RL	Concentration	M
	Hardness	6.6	51	P

U - Indicates compound not found above detection/reporting limit

* - Indicates compound above calibration range

P - Indicates analyzed by ICP

CV - Indicates analyzed by Cold Vapor

Comments:

Form 1
Inorganic Analysis Data Sheet

Sample ID: AC95154-013	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 013	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File	Seq Num	M	Instr
7440-39-3	Barium	25	ND	1	100	50	12/14/16	57089	A20316A2	44	P	PEICP2A
7440-47-3	Chromium	25	ND	1	100	50	12/14/16	57089	A20316A2	44	P	PEICP2A
7440-50-8	Copper	25	ND	1	100	50	12/14/16	57089	A20316A2	44	P	PEICP2A
7440-02-0	Nickel	10	ND	1	100	50	12/14/16	57089	A20316A2	44	P	PEICP2A
7440-22-4	Silver	10	ND	1	100	50	12/14/16	57089	A20316A2	44	P	PEICP2A
7440-66-6	Zinc	25	ND	1	100	50	12/14/16	57089	A20316A2	44	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV - ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-013	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 013	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.5	ND	1	100	125	12/14/16	570891416BNEW		37		MSMS3_7700AQA
7440-38-2	Arsenic	1.0	ND	1	100	125	12/14/16	570891416BNEW		37		MSMS3_7700AQA
7440-41-7	Beryllium	0.75	ND	1	100	125	12/15/16	570891516ANEW		15		MSMS3_7700AQA
7440-43-9	Cadmium	1.0	ND	1	100	125	12/14/16	570891416BNEW		37		MSMS3_7700AQA
7439-92-1	Lead	0.75	ND	1	100	125	12/14/16	570891416BNEW		37		MSMS3_7700AQA
7782-49-2	Selenium	5.0	ND	1	100	125	12/14/16	570891416BNEW		37		MSMS3_7700AQA
7440-28-0	Thallium	1.5	ND	1	100	125	12/14/16	570891416BNEW		37		MSMS3_7700AQA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit

P - ICP-AES

CV -ColdVapor

MS - ICP-MS

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke

Data File Name: A20316A2

Lab Code: 14622

Analysis Date: 12/14/2016

Matrix: Water

Lab Sample ID: AC95154-013

Client ID: PANYNJ

Level: low/med

Dilution: 1

Batch: 20316

% Solid: 0

Concentration Units: Mg CaCO3/L

Cas No.	Analyte	RL	Concentration	M
	Hardness	6.6	150	P

U - Indicates compound not found above detection/reporting limit

* - Indicates compound above calibration range

P - Indicates analyzed by ICP

CV - Indicates analyzed by Cold Vapor

Comments: _____

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-014
Client Id: Outfall 014
Matrix: AQUEOUS
Level: LOW

% Solid: 0
Units: UG/L
Date Rec: 12/13/2016

Lab Name: Hampton-Clarke
Lab Code:
Contract:

Nras No:
Sdg No:
Case No:

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M:	Instr
7440-39-3	Barium	25	ND	1	100	50	12/14/16	57089	A20316A2	45	P	PEICP2A
7440-47-3	Chromium	25	ND	1	100	50	12/14/16	57089	A20316A2	45	P	PEICP2A
7440-50-8	Copper	25	ND	1	100	50	12/14/16	57089	A20316A2	45	P	PEICP2A
7440-02-0	Nickel	10	ND	1	100	50	12/14/16	57089	A20316A2	45	P	PEICP2A
7440-22-4	Silver	10	ND	1	100	50	12/14/16	57089	A20316A2	45	P	PEICP2A
7440-66-6	Zinc	25	ND	1	100	50	12/14/16	57089	A20316A2	45	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-014
Client Id: Outfall 014
Matrix: AQUEOUS
Level: LOW

% Solid: 0
Units: UG/L
Date Rec: 12/13/2016

Lab Name: Hampton-Clarke
Lab Code:
Contract:

Nras No:
Sdg No:
Case No:

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.5	ND	1	100	125	12/14/16	570891416BNEW		38		MSMS3_7700AQA
7440-38-2	Arsenic	1.0	ND	1	100	125	12/14/16	570891416BNEW		38		MSMS3_7700AQA
7440-41-7	Beryllium	0.75	ND	1	100	125	12/15/16	570891516ANEW		16		MSMS3_7700AQA
7440-43-9	Cadmium	1.0	ND	1	100	125	12/14/16	570891416BNEW		38		MSMS3_7700AQA
7439-92-1	Lead	0.75	ND	1	100	125	12/14/16	570891416BNEW		38		MSMS3_7700AQA
7782-49-2	Selenium	5.0	ND	1	100	125	12/14/16	570891416BNEW		38		MSMS3_7700AQA
7440-28-0	Thallium	1.5	ND	1	100	125	12/14/16	570891416BNEW		38		MSMS3_7700AQA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit

P - ICP-AES

CV -ColdVapor

MS - ICP-MS

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke

Data File Name: A20316A2

Lab Code: 14622

Analysis Date: 12/14/2016

Matrix: Water

Lab Sample ID: AC95154-014

Level: low/med

Client ID: PANYNJ

Batch: 20316

Dilution: 1

% Solid: 0

Concentration Units: Mg CaCO₃/L

Cas No.	Analyte	RL	Concentration	M
	Hardness	6.6	140	P

U - Indicates compound not found above detection/reporting limit

* - Indicates compound above calibration range

P - Indicates analyzed by ICP

CV - Indicates analyzed by Cold Vapor

Comments: _____

Form1
Inorganic Analysis Data Sheet

Sample ID: AC95154-015	% Solid: 0	Lab Name: Hampton-Clarke	Nras No:
Client Id: Outfall 015	Units: UG/L	Lab Code:	Sdg No:
Matrix: AQUEOUS	Date Rec: 12/13/2016	Contract:	Case No:
Level: LOW			

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File	Seq Num	M	Instr
7440-39-3	Barium	25	ND	1	100	50	12/14/16	57089	A20316A2	46	P	PEICP2A
7440-47-3	Chromium	25	ND	1	100	50	12/14/16	57089	A20316A2	46	P	PEICP2A
7440-50-8	Copper	25	ND	1	100	50	12/14/16	57089	A20316A2	46	P	PEICP2A
7440-02-0	Nickel	10	ND	1	100	50	12/14/16	57089	A20316A2	46	P	PEICP2A
7440-22-4	Silver	10	ND	1	100	50	12/14/16	57089	A20316A2	46	P	PEICP2A
7440-66-6	Zinc	25	42	1	100	50	12/14/16	57089	A20316A2	46	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV - ColdVapor
MS - ICP-MS

Form 1
Inorganic Analysis Data Sheet

Sample ID: AC95154-015
Client Id: Outfall 015
Matrix: AQUEOUS
Level: LOW

% Solid: 0
Units: UG/L
Date Rec: 12/13/2016

Lab Name: Hampton-Clarke
Lab Code:
Contract:

Nras No:
Sdg No:
Case No:

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	2.5	ND	1	100	125	12/14/16	570891416BNEW		39		MSMS3_7700AQA
7440-38-2	Arsenic	1.0	ND	1	100	125	12/14/16	570891416BNEW		39		MSMS3_7700AQA
7440-41-7	Beryllium	0.75	ND	1	100	125	12/15/16	570891516ANEW		17		MSMS3_7700AQA
7440-43-9	Cadmium	1.0	ND	1	100	125	12/14/16	570891416BNEW		39		MSMS3_7700AQA
7439-92-1	Lead	0.75	1.2	1	100	125	12/14/16	570891416BNEW		39		MSMS3_7700AQA
7782-49-2	Selenium	5.0	ND	1	100	125	12/14/16	570891416BNEW		39		MSMS3_7700AQA
7440-28-0	Thallium	1.5	ND	1	100	125	12/14/16	570891416BNEW		39		MSMS3_7700AQA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit

P - ICP-AES

CV -ColdVapor

MS - ICP-MS

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke

Data File Name: A20316A2

Lab Code: 14622

Analysis Date: 12/14/2016

Matrix: Water

Lab Sample ID: AC95154-015

Level: low/med

Client ID: PANYNJ

Batch: 20316

Dilution: 1

% Solid: 0

Concentration Units: Mg CaCO₃/L

Cas No.	Analyte	RL	Concentration	M
	Hardness	6.6	52	P

U - Indicates compound not found above detection/reporting limit

* - Indicates compound above calibration range

P - Indicates analyzed by ICP

CV - Indicates analyzed by Cold Vapor

Comments: _____

FORM 3 (ICB/CCB/MB Summary)

Date Analyzed: 12/14/16

Data File: A20316A2

Prep Batch: 57089

Reporting Limits Used: AQUEOUS,200.7(ICP)/200.8(ICPMS)/245.1(Hg)

Instrument: PEICP2A

Units: All units in ppm except Hg and icp-ms in ppb

Lab Name: Hampton-Clarke

Lab Code:

Contract:

Nras No:

Sdg No:

Case No:

Analyte	ICB V-246054-8	CCB-12	CCB-23	CCB-31	CCB-40	CCB-50	MB 57089 (0.5)-13
Aluminum	.2U	.2U	.2U	.2U	.2U	.2U	.1U
Antimony	.015U	.015U	.015U	.015U	.015U	.015U	.0075U
Arsenic	.04U	.04U	.04U	.04U	.04U	.04U	.02U
Barium	.05U	.05U	.05U	.05U	.05U	.05U	.025U
Beryllium	.008U	.008U	.008U	.008U	.008U	.008U	.004U
Cadmium	.004U	.004U	.004U	.004U	.004U	.004U	.002U
Calcium	2U	2U	2U	2U	2U	2U	1U
Chromium	.05U	.05U	.05U	.05U	.05U	.05U	.025U
Cobalt	.02U	.02U	.02U	.02U	.02U	.02U	.01U
Copper	.05U	.05U	.05U	.05U	.05U	.05U	.025U
Iron	.3U	.3U	.3U	.3U	.3U	.3U	.15U
Lead	.01U	.01U	.01U	.01U	.01U	.01U	.005U
Magnesium	2U	2U	2U	2U	2U	2U	1U
Manganese	.05U	.05U	.05U	.05U	.05U	.05U	.025U
Molybdenum	.02U	.02U	.02U	.02U	.02U	.02U	.01U
Nickel	.02U	.02U	.02U	.02U	.02U	.02U	.01U
Selenium	.05U	.05U	.05U	.05U	.05U	.05U	.025U
Silver	.02U	.02U	.02U	.02U	.02U	.02U	.01U
Thallium	.01U	.01U	.01U	.01U	.01U	.01U	.005U
Tin	.05U	.05U	.05U	.05U	.05U	.05U	.025U
Titanium	.05U	.05U	.05U	.05U	.05U	.05U	.025U
Vanadium	.05U	.05U	.05U	.05U	.05U	.05U	.025U
Zinc	.05U	.05U	.05U	.05U	.05U	.05U	.025U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3 (ICB/CCB/MB Summary)

Date Analyzed: 12/14/16

Data File: W121416BNEW

Prep Batch: 57089

Reporting Limits Used: AQUEOUS,200.7(ICP)/200.8(ICPMS)/245.1(Hg)

Instrument: MS3_7700AQA

Units: All units in ppm except Hg and icp-ms in ppb

Project Number: 6121303

Lab Name: Hampton-Clarke

Lab Code:

Contract:

Nras No:

Sdg No:

Case No:

Analyte	CCB V-246124-11	CCB V-246124-22	CCB V-246124-33	CCB V-246124-41	MB 57089-12
Antimony	2 U	2 U	2 U	2 U	2.5 U
Arsenic	.8 U	.8 U	.8 U	.8 U	1 U
Beryllium	.6 U	.6 U	.6 U	.6 U	.75 U
Cadmium	.8 U	.8 U	.8 U	.8 U	1 U
Lead	.6 U	.6 U	.6 U	.6 U	.75 U
Selenium	4 U	4 U	4 U	4 U	5 U
Thallium	1.2 U	1.2 U	1.2 U	1.2 U	1.5 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3 (ICB/CCB/MB Summary)

Date Analyzed: 12/15/16
 Data File: W121516ANEW
 Prep Batch: 57089
 Reporting Limits Used: AQUEOUS,200.7(ICP)/200.8(ICPMS)/245.1(Hg)
 Instrument: MS3_7700AQA
 Units: All units in ppm except Hg and icp-ms in ppb
 Project Number: 6121303

Lab Name: Hampton-Clarke
 Lab Code:
 Contract:
 Nras No:
 Sdg No:
 Case No:

Analyte	CCB V-246124-11	CCB V-246124-19						
Beryllium	.6 U	.6 U						

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
 u-indicates result below reporting limit

FORM5/FORM7
SPIKE RECOVERY DATA

6121303 0192

PREP BATCH: 57089

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MSD		Matrix: AQUEOUS		SampleID: AC95156-001								
Analyte	DF	Data File	Seq#	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Aluminum	1	A20316A2	19	A20316A2	16	5.2011	0.2U	5.0000	104	70	130	
Barium	1	A20316A2	19	A20316A2	16	0.5535	0.0688	0.5000	97	70	130	
Cadmium	1	A20316A2	19	A20316A2	16	0.4968	0.004U	0.5000	99	70	130	
Calcium	1	A20316A2	19	A20316A2	16	167.4380	125.9990	50.000	83	70	130	
Chromium	1	A20316A2	19	A20316A2	16	0.4845	0.05U	0.5000	97	70	130	
Copper	1	A20316A2	19	A20316A2	16	1.7951	1.3856	0.5000	82	70	130	
Iron	1	A20316A2	19	A20316A2	16	5.3477	0.5179	5.0000	97	70	130	
Lead	1	A20316A2	19	A20316A2	16	0.4889	0.01U	0.5000	98	70	130	
Magnesium	1	A20316A2	19	A20316A2	16	83.5034	36.0614	50.000	95	70	130	
Manganese	1	A20316A2	19	A20316A2	16	0.4936	0.05U	0.5000	99	70	130	
Molybdenum	1	A20316A2	19	A20316A2	16	0.4895	0.02U	0.5000	98	70	130	
Nickel	1	A20316A2	19	A20316A2	16	0.4886	0.02U	0.5000	98	70	130	
Silver	1	A20316A2	19	A20316A2	16	0.0986	0.02U	0.1000	99	70	130	
Tin	1	A20316A2	19	A20316A2	16	0.4863	0.05U	0.5000	97	70	130	
Titanium	1	A20316A2	19	A20316A2	16	0.4918	0.05U	0.5000	98	70	130	
Vanadium	1	A20316A2	19	A20316A2	16	0.4859	0.05U	0.5000	97	70	130	
Zinc	1	A20316A2	19	A20316A2	16	0.4990	0.05U	0.5000	100	70	130	

TxtQcType: PS		Matrix: AQUEOUS		SampleID: AC95156-001								
Analyte	DF	Data File	Seq#	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Aluminum	1	A20316A2	20	A20316A2	16	5.1071	0.2U	5.00	102	85	115	
Barium	1	A20316A2	20	A20316A2	16	0.5469	0.0688	0.500	96	85	115	
Cadmium	1	A20316A2	20	A20316A2	16	0.4839	0.004U	0.500	97	85	115	
Calcium	1	A20316A2	20	A20316A2	16	168.2450	125.9990	50	84	a 85	115	
Chromium	1	A20316A2	20	A20316A2	16	0.4742	0.05U	0.500	95	85	115	
Copper	1	A20316A2	20	A20316A2	16	1.8477	1.3856	0.500	92	85	115	
Iron	1	A20316A2	20	A20316A2	16	5.3397	0.5179	5.0	96	85	115	
Lead	1	A20316A2	20	A20316A2	16	0.4799	0.01U	0.500	96	85	115	
Magnesium	1	A20316A2	20	A20316A2	16	82.8616	36.0614	50	94	85	115	
Manganese	1	A20316A2	20	A20316A2	16	0.4841	0.05U	0.500	97	85	115	
Molybdenum	1	A20316A2	20	A20316A2	16	0.4825	0.02U	0.500	97	85	115	
Nickel	1	A20316A2	20	A20316A2	16	0.4794	0.02U	0.500	96	85	115	
Silver	1	A20316A2	20	A20316A2	16	0.0978	0.02U	.100	98	85	115	
Tin	1	A20316A2	20	A20316A2	16	0.4756	0.05U	0.500	95	85	115	
Titanium	1	A20316A2	20	A20316A2	16	0.4754	0.05U	0.500	95	85	115	
Vanadium	1	A20316A2	20	A20316A2	16	0.4759	0.05U	0.500	95	85	115	
Zinc	1	A20316A2	20	A20316A2	16	0.4902	0.05U	0.500	98	85	115	

a-Indicates Recovery Failed the criteria

b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

VERITECH Wet Chem Form1 Analysis Summary

Lab#: AC95154-001
 Matrix Aqueous
 Client SampleID: Outfall 001

Project Number: 6121303
 Received Date: 12/13/2016
 Collect Date: 12/12/2016

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Ammonia	AMMONIA-MUR	1	ND	MG/L	1.0	12/16/16	12/16/16
Biochemical Oxygen Demand, 5 Da	BOD-5-MUR	1	ND	MG/L	2.0	12/14/16	12/19/16
Cyanide	CN-WATER-MUR	1	ND	mg/L	0.020	12/13/16	12/13/16
Chemical Oxygen Demand	COD	1	ND	mg/l	10	12/13/16	12/13/16
Nitrite	NO2-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Nitrate	NO3-ICW	1	1.1	mg/L	1.0	12/13/16	12/13/16
Oil & Grease	O&G-1664	1	ND	MG/L	7.5	12/15/16	12/16/16
Total Phenolics	PHENOL-WATER	1	ND	mg/l	0.05	12/15/16	12/15/16
Phosphorus (Total)	PO4-TOT-MUR	1	ND	mg/l	0.1	12/15/16	12/15/16
Total Dissolved Solids @ 180 C	TDS-MUR	1	430	mg/l	40	12/15/16	12/16/16
Total Suspended Solids @ 103-105	TSS-MUR	1	ND	mg/l	4	12/14/16	12/15/16

Lab#: AC95154-002
 Matrix Aqueous
 Client SampleID: Outfall 002

Project Number: 6121303
 Received Date: 12/13/2016
 Collect Date: 12/12/2016

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Ammonia	AMMONIA-MUR	1	ND	MG/L	1.0	12/16/16	12/16/16
Biochemical Oxygen Demand, 5 Da	BOD-5-MUR	1	ND	MG/L	2.0	12/14/16	12/19/16
Cyanide	CN-WATER-MUR	1	ND	mg/L	0.020	12/13/16	12/13/16
Chemical Oxygen Demand	COD	1	22	mg/l	10	12/13/16	12/13/16
Nitrite	NO2-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Nitrate	NO3-ICW	1	1.2	mg/L	1.0	12/13/16	12/13/16
Oil & Grease	O&G-1664	1	ND	MG/L	5.3	12/15/16	12/16/16
Total Phenolics	PHENOL-WATER	1	ND	mg/l	0.05	12/15/16	12/15/16
Phosphorus (Total)	PO4-TOT-MUR	1	ND	mg/l	0.1	12/15/16	12/15/16
Total Dissolved Solids @ 180 C	TDS-MUR	1	520	mg/l	40	12/15/16	12/16/16
Total Suspended Solids @ 103-105	TSS-MUR	1	ND	mg/l	4	12/14/16	12/15/16

Lab#: AC95154-003
 Matrix Aqueous
 Client SampleID: Outfall 003

Project Number: 6121303
 Received Date: 12/13/2016
 Collect Date: 12/12/2016

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Ammonia	AMMONIA-MUR	1	ND	MG/L	1.0	12/16/16	12/16/16
Biochemical Oxygen Demand, 5 Da	BOD-5-MUR	1	92	MG/L	2.0	12/14/16	12/19/16
Cyanide	CN-WATER-MUR	1	ND	mg/L	0.020	12/13/16	12/13/16
Chemical Oxygen Demand	COD	10	230	mg/l	100	12/13/16	12/13/16
Nitrite	NO2-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Nitrate	NO3-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Oil & Grease	O&G-1664	1	ND	MG/L	5.7	12/15/16	12/16/16
Total Phenolics	PHENOL-WATER	1	ND	mg/l	0.05	12/15/16	12/15/16
Phosphorus (Total)	PO4-TOT-MUR	1	ND	mg/l	0.1	12/15/16	12/15/16
Total Dissolved Solids @ 180 C	TDS-MUR	1	320	mg/l	40	12/15/16	12/16/16
Total Suspended Solids @ 103-105	TSS-MUR	1	ND	mg/l	4	12/14/16	12/15/16

VERITECH Wet Chem Form1 Analysis Summary

Lab#: AC95154-004

Matrix Aqueous

Client SampleID: Outfall 004

Project Number: 6121303

Received Date: 12/13/2016

Collect Date: 12/12/2016

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Ammonia	AMMONIA-MUR	1	ND	MG/L	1.0	12/16/16	12/16/16
Biochemical Oxygen Demand, 5 Da	BOD-5-MUR	1	1800	MG/L	2.0	12/14/16	12/19/16
Cyanide	CN-WATER-MUR	1	ND	mg/L	0.020	12/13/16	12/13/16
Chemical Oxygen Demand	COD	25	2800	mg/l	250	12/13/16	12/13/16
Nitrite	NO2-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Nitrate	NO3-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Oil & Grease	O&G-1664	1	ND	MG/L	5.3	12/15/16	12/16/16
Total Phenolics	PHENOL-WATER	1	ND	mg/l	0.05	12/15/16	12/15/16
Phosphorus (Total)	PO4-TOT-MUR	1	0.27	mg/l	0.1	12/15/16	12/15/16
Total Dissolved Solids @ 180 C	TDS-MUR	1	360	mg/l	40	12/15/16	12/16/16
Total Suspended Solids @ 103-105	TSS-MUR	1	13	mg/l	4	12/14/16	12/15/16

Lab#: AC95154-005

Matrix Aqueous

Client SampleID: Outfall 005

Project Number: 6121303

Received Date: 12/13/2016

Collect Date: 12/12/2016

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Ammonia	AMMONIA-MUR	1	ND	MG/L	1.0	12/16/16	12/16/16
Biochemical Oxygen Demand, 5 Da	BOD-5-MUR	1	9.8	MG/L	2.0	12/14/16	12/19/16
Cyanide	CN-WATER-MUR	1	ND	mg/L	0.020	12/13/16	12/13/16
Chemical Oxygen Demand	COD	1	29	mg/l	10	12/13/16	12/13/16
Nitrite	NO2-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Nitrate	NO3-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Oil & Grease	O&G-1664	1	ND	MG/L	5.7	12/15/16	12/16/16
Total Phenolics	PHENOL-WATER	1	ND	mg/l	0.05	12/15/16	12/15/16
Phosphorus (Total)	PO4-TOT-MUR	1	0.18	mg/l	0.1	12/15/16	12/15/16
Total Dissolved Solids @ 180 C	TDS-MUR	1	290	mg/l	40	12/15/16	12/16/16
Total Suspended Solids @ 103-105	TSS-MUR	1	ND	mg/l	4	12/14/16	12/15/16

Lab#: AC95154-006

Matrix Aqueous

Client SampleID: Outfall 006

Project Number: 6121303

Received Date: 12/13/2016

Collect Date: 12/12/2016

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Ammonia	AMMONIA-MUR	1	ND	MG/L	1.0	12/16/16	12/16/16
Biochemical Oxygen Demand, 5 Da	BOD-5-MUR	1	ND	MG/L	2.0	12/14/16	12/19/16
Cyanide	CN-WATER-MUR	1	ND	mg/L	0.020	12/13/16	12/13/16
Chemical Oxygen Demand	COD	1	14	mg/l	10	12/13/16	12/13/16
Nitrite	NO2-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Nitrate	NO3-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Oil & Grease	O&G-1664	1	ND	MG/L	7.2	12/15/16	12/16/16
Total Phenolics	PHENOL-WATER	1	ND	mg/l	0.05	12/15/16	12/15/16
Phosphorus (Total)	PO4-TOT-MUR	1	ND	mg/l	0.1	12/15/16	12/15/16
Total Dissolved Solids @ 180 C	TDS-MUR	1	440	mg/l	40	12/15/16	12/16/16
Total Suspended Solids @ 103-105	TSS-MUR	1	ND	mg/l	4	12/14/16	12/15/16

VERITECH Wet Chem Form1 Analysis Summary

Lab#: AC95154-007
 Matrix Aqueous
 Client SampleID: Outfall 007

Project Number: 6121303
 Received Date: 12/13/2016
 Collect Date: 12/12/2016

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Ammonia	AMMONIA-MUR	1	ND	MG/L	1.0	12/16/16	12/16/16
Biochemical Oxygen Demand, 5 Da	BOD-5-MUR	1	34	MG/L	2.0	12/14/16	12/19/16
Cyanide	CN-WATER-MUR	1	ND	mg/L	0.020	12/13/16	12/13/16
Chemical Oxygen Demand	COD	1	62	mg/l	10	12/13/16	12/13/16
Nitrite	NO2-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Nitrate	NO3-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Oil & Grease	O&G-1664	1	ND	MG/L	7.8	12/15/16	12/16/16
Total Phenolics	PHENOL-WATER	1	ND	mg/l	0.05	12/15/16	12/15/16
Phosphorus (Total)	PO4-TOT-MUR	1	0.1	mg/l	0.1	12/15/16	12/15/16
Total Dissolved Solids @ 180 C	TDS-MUR	1	230	mg/l	40	12/15/16	12/16/16
Total Suspended Solids @ 103-105	TSS-MUR	1	7.2	mg/l	4	12/14/16	12/15/16

Lab#: AC95154-008
 Matrix Aqueous
 Client SampleID: Outfall 008

Project Number: 6121303
 Received Date: 12/13/2016
 Collect Date: 12/12/2016

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Ammonia	AMMONIA-MUR	1	ND	MG/L	1.0	12/16/16	12/16/16
Biochemical Oxygen Demand, 5 Da	BOD-5-MUR	1	2.7	MG/L	2.0	12/14/16	12/19/16
Cyanide	CN-WATER-MUR	1	ND	mg/L	0.020	12/13/16	12/13/16
Chemical Oxygen Demand	COD	1	18	mg/l	10	12/13/16	12/13/16
Nitrite	NO2-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Nitrate	NO3-ICW	1	1.0	mg/L	1.0	12/13/16	12/13/16
Oil & Grease	O&G-1664	1	ND	MG/L	6.0	12/15/16	12/16/16
Total Phenolics	PHENOL-WATER	1	ND	mg/l	0.05	12/15/16	12/15/16
Phosphorus (Total)	PO4-TOT-MUR	1	ND	mg/l	0.1	12/15/16	12/15/16
Total Dissolved Solids @ 180 C	TDS-MUR	1	1300	mg/l	40	12/15/16	12/16/16
Total Suspended Solids @ 103-105	TSS-MUR	1	18	mg/l	4	12/14/16	12/15/16

Lab#: AC95154-009
 Matrix Aqueous
 Client SampleID: Outfall 009

Project Number: 6121303
 Received Date: 12/13/2016
 Collect Date: 12/12/2016

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Ammonia	AMMONIA-MUR	1	ND	MG/L	1.0	12/16/16	12/16/16
Biochemical Oxygen Demand, 5 Da	BOD-5-MUR	1	ND	MG/L	2.0	12/14/16	12/19/16
Cyanide	CN-WATER-MUR	1	ND	mg/L	0.020	12/13/16	12/13/16
Chemical Oxygen Demand	COD	1	16	mg/l	10	12/13/16	12/13/16
Nitrite	NO2-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Nitrate	NO3-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Oil & Grease	O&G-1664	1	ND	MG/L	5.8	12/15/16	12/16/16
Total Phenolics	PHENOL-WATER	1	ND	mg/l	0.05	12/15/16	12/15/16
Phosphorus (Total)	PO4-TOT-MUR	1	ND	mg/l	0.1	12/15/16	12/15/16
Total Dissolved Solids @ 180 C	TDS-MUR	1	830	mg/l	40	12/15/16	12/16/16
Total Suspended Solids @ 103-105	TSS-MUR	1	6	mg/l	4	12/14/16	12/15/16

VERITECH Wet Chem Form1 Analysis Summary

Lab#: AC95154-010
 Matrix Aqueous
 Client SampleID: Outfall 010

Project Number: 6121303
 Received Date: 12/13/2016
 Collect Date: 12/12/2016

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Ammonia	AMMONIA-MUR	1	ND	MG/L	1.0	12/16/16	12/16/16
Biochemical Oxygen Demand, 5 Da	BOD-5-MUR	1	ND	MG/L	2.0	12/14/16	12/19/16
Cyanide	CN-WATER-MUR	1	0.035	mg/L	0.020	12/13/16	12/13/16
Chemical Oxygen Demand	COD	1	24	mg/l	10	12/13/16	12/13/16
Nitrite	NO2-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Nitrate	NO3-ICW	1	1.0	mg/L	1.0	12/13/16	12/13/16
Oil & Grease	O&G-1664	1	ND	MG/L	5.3	12/15/16	12/16/16
Total Phenolics	PHENOL-WATER	1	ND	mg/l	0.05	12/15/16	12/15/16
Phosphorus (Total)	PO4-TOT-MUR	1	0.15	mg/l	0.1	12/15/16	12/15/16
Total Dissolved Solids @ 180 C	TDS-MUR	1	3200	mg/l	40	12/15/16	12/16/16
Total Suspended Solids @ 103-105	TSS-MUR	1	47	mg/l	4	12/14/16	12/15/16

Lab#: AC95154-011
 Matrix Aqueous
 Client SampleID: Outfall 011

Project Number: 6121303
 Received Date: 12/13/2016
 Collect Date: 12/12/2016

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Ammonia	AMMONIA-MUR	1	ND	mg/L	1.0	12/19/16	12/19/16
Biochemical Oxygen Demand, 5 Da	BOD-5-MUR	1	3.1	MG/L	2.0	12/14/16	12/19/16
Cyanide	CN-WATER-MUR	1	ND	mg/L	0.020	12/13/16	12/13/16
Chemical Oxygen Demand	COD	1	13	mg/l	10	12/13/16	12/13/16
Nitrite	NO2-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Nitrate	NO3-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Oil & Grease	O&G-1664	1	ND	MG/L	6.0	12/15/16	12/16/16
Total Phenolics	PHENOL-WATER	1	ND	mg/l	0.05	12/15/16	12/15/16
Phosphorus (Total)	PO4-TOT-MUR	1	0.12	mg/l	0.1	12/15/16	12/15/16
Total Dissolved Solids @ 180 C	TDS-MUR	1	68	mg/l	40	12/15/16	12/16/16
Total Suspended Solids @ 103-105	TSS-MUR	1	28	mg/l	4	12/14/16	12/15/16

Lab#: AC95154-012
 Matrix Aqueous
 Client SampleID: Outfall 012

Project Number: 6121303
 Received Date: 12/13/2016
 Collect Date: 12/12/2016

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Ammonia	AMMONIA-MUR	1	ND	mg/L	1.0	12/19/16	12/19/16
Biochemical Oxygen Demand, 5 Da	BOD-5-MUR	1	49	MG/L	2.0	12/14/16	12/19/16
Cyanide	CN-WATER-MUR	1	ND	mg/L	0.020	12/13/16	12/13/16
Chemical Oxygen Demand	COD	1	69	mg/l	10	12/13/16	12/13/16
Nitrite	NO2-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Nitrate	NO3-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Oil & Grease	O&G-1664	1	ND	MG/L	5.6	12/15/16	12/16/16
Total Phenolics	PHENOL-WATER	1	ND	mg/l	0.05	12/15/16	12/15/16
Phosphorus (Total)	PO4-TOT-MUR	1	ND	mg/l	0.1	12/15/16	12/15/16
Total Dissolved Solids @ 180 C	TDS-MUR	1	120	mg/l	40	12/15/16	12/16/16
Total Suspended Solids @ 103-105	TSS-MUR	1	6	mg/l	4	12/14/16	12/15/16

VERITECH Wet Chem Form1 Analysis Summary

Lab#: AC95154-013

Matrix Aqueous

Client SampleID: Outfall 013

Project Number: 6121303

Received Date: 12/13/2016

Collect Date: 12/12/2016

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Ammonia	AMMONIA-MUR	1	ND	mg/L	1.0	12/19/16	12/19/16
Biochemical Oxygen Demand, 5 Da	BOD-5-MUR	1	230	MG/L	2.0	12/14/16	12/19/16
Cyanide	CN-WATER-MUR	1	ND	mg/L	0.020	12/13/16	12/13/16
Chemical Oxygen Demand	COD	10	310	mg/l	100	12/13/16	12/13/16
Nitrite	NO2-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Nitrate	NO3-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Oil & Grease	O&G-1664	1	ND	MG/L	6.0	12/15/16	12/16/16
Total Phenolics	PHENOL-WATER	1	ND	mg/l	0.05	12/15/16	12/15/16
Phosphorus (Total)	PO4-TOT-MUR	1	0.18	mg/l	0.1	12/15/16	12/15/16
Total Dissolved Solids @ 180 C	TDS-MUR	1	440	mg/l	40	12/15/16	12/16/16
Total Suspended Solids @ 103-105	TSS-MUR	1	16	mg/l	4	12/14/16	12/15/16

Lab#: AC95154-014

Matrix Aqueous

Client SampleID: Outfall 014

Project Number: 6121303

Received Date: 12/13/2016

Collect Date: 12/12/2016

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Ammonia	AMMONIA-MUR	1	ND	mg/L	1.0	12/19/16	12/19/16
Biochemical Oxygen Demand, 5 Da	BOD-5-MUR	1	15	MG/L	2.0	12/14/16	12/19/16
Cyanide	CN-WATER-MUR	1	ND	mg/L	0.020	12/13/16	12/13/16
Chemical Oxygen Demand	COD	1	30	mg/l	10	12/13/16	12/13/16
Nitrite	NO2-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Nitrate	NO3-ICW	1	ND	mg/L	1.0	12/13/16	12/13/16
Oil & Grease	O&G-1664	1	ND	MG/L	5.6	12/15/16	12/16/16
Total Phenolics	PHENOL-WATER	1	ND	mg/l	0.05	12/15/16	12/15/16
Phosphorus (Total)	PO4-TOT-MUR	1	ND	mg/l	0.1	12/15/16	12/15/16
Total Dissolved Solids @ 180 C	TDS-MUR	1	200	mg/l	40	12/15/16	12/16/16
Total Suspended Solids @ 103-105	TSS-MUR	1	ND	mg/l	4	12/14/16	12/15/16

Lab#: AC95154-015

Matrix Aqueous

Client SampleID: Outfall 015

Project Number: 6121303

Received Date: 12/13/2016

Collect Date: 12/12/2016

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Ammonia	AMMONIA-MUR	1	ND	mg/L	1.0	12/19/16	12/19/16
Biochemical Oxygen Demand, 5 Da	BOD-5-MUR	1	4.2	MG/L	2.0	12/14/16	12/19/16
Cyanide	CN-WATER-MUR	1	ND	mg/L	0.020	12/13/16	12/13/16
Chemical Oxygen Demand	COD	1	16	mg/l	10	12/13/16	12/13/16
Nitrite	NO2-ICW	1	ND	mg/L	1.0	12/13/16	12/14/16
Nitrate	NO3-ICW	1	ND	mg/L	1.0	12/13/16	12/14/16
Oil & Grease	O&G-1664	1	ND	MG/L	6.0	12/15/16	12/16/16
Total Phenolics	PHENOL-WATER	1	ND	mg/l	0.05	12/15/16	12/15/16
Phosphorus (Total)	PO4-TOT-MUR	1	ND	mg/l	0.1	12/15/16	12/15/16
Total Dissolved Solids @ 180 C	TDS-MUR	1	330	mg/l	40	12/15/16	12/16/16
Total Suspended Solids @ 103-105	TSS-MUR	1	6.4	mg/l	4	12/14/16	12/15/16

Analysis	Ammonia Water ISE						
Batch#	NH3-174						
Date	12/16/16						
Analyst	BCT						
Q.C. DATA							
	Spike Amount	Result	Adj Conc	% REC	Limits	RPD	Limits
	PPM	PPM	PPM				
LCS	50.00	54.7	54.7	109%	75-125%	NA	NA
LCSD	50.00	51.0	51.0	102%	75-125%	7.00%	20%
MS	50.00	56.9	56.9	114%	75-125%	NA	NA
MSD	50.00	57.4	57.4	115%	75-125%	0.87%	20%
Sample	NA	ND	NA	NA	NA	NA	NA
Sample Dup	NA	ND	NA	NA	NA	NA	20%

Samples #	mg/L NH3	Sample vol	DF	Final vol(mL)	NH3-N (ppm)	RL (PPM)	%REC
ICV	53.1	6	1	6	53.1	1	106%
ICB	0.0478	6	1	6	ND	1	
MB	0.041	6	1	6	ND	1	
LCS	54.7	6	1	6	54.7	1	
LCSD	51.0	6	1	6	51	1	
AC95154-001	0.255	6	1	6	ND	1	
AC95154-001 DUP	0.241	6	1	6	ND	1	
AC95154-001 MS	56.9	6	1	6	56.9	1	
AC95154-001 MSD	57.4	6	1	6	57.4	1	
AC95154-002	0.428	6	1	6	ND	1	
AC95154-003	0.2	6	1	6	ND	1	
CCV-1	45.5	6	1	6	45.5	1	91%
CCB-1	0.1660	6	1	6	ND	1	
AC95154-004	0.3590	6	1	6	ND	1	
AC95154-005	0.2890	6	1	6	ND	1	
AC95154-006	0.1820	6	1	6	ND	1	
AC95154-007	0.2210	6	1	6	ND	1	
AC95154-008	0.2100	6	1	6	ND	1	
AC95154-009	0.1690	6	1	6	ND	1	
AC95154-010	0.183	6	1	6	ND	1	
CCV-2	46.8	6	1	6	46.8	1	94%
CCB-2	0.041	6	1	6	ND	1	

12/16/16

JW
12/19/16

Analysis	Ammonia Water ISE						
Batch#	NH3-175						
Date	12/19/16						
Analyst	JW						
Q.C. DATA							
	Spike Amount	Result	Adj Conc	% REC	Limits	RPD	Limits
	PPM	PPM	PPM				
LCS	50.00	55.7	55.7	111%	75-125%	NA	NA
LCSD	50.00	54.0	54.0	108%	75-125%	3.10%	20%
MS	50.00	51.5	51.5	103%	75-125%	NA	NA
MSD	50.00	54.2	54.2	108%	75-125%	5.11%	20%
Sample	NA	ND	NA	NA	NA	NA	NA
Sample Dup	NA	ND	NA	NA	NA	NA	20%

Samples #	mg/L NH3	Sample vol	DF	Final vol(mL)	NH3-N (ppm)	RL (PPM)	%REC
ICV	51.5	6	1	6	51.5	1	103%
ICB	0.0592	6	1	6	ND	1	
MB	0.146	6	1	6	ND	1	
LCS	55.7	6	1	6	55.7	1	
LCSD	54.0	6	1	6	54	1	
AC95154-011	0.122	6	1	6	ND	1	
AC95154-011 DUP	0.0792	6	1	6	ND	1	
AC95154-011 MS	51.5	6	1	6	51.5	1	
AC95154-011 MSD	54.2	6	1	6	54.2	1	
AC95154-012	0.105	6	1	6	ND	1	
AC95154-013	0.0949	6	1	6	ND	1	
AC95154-014	0.0941	6	1	6	ND	1	
CCV-1	51.2	6	1	6	51.2	1	102%
CCB-1	0.0466	6	1	6	ND	1	
AC95154-015	0.0786	6	1	6	ND	1	
AC95207-001	15.4	6	1	6	15.4	1	
AC95212-001	3.33	6	1	6	3.33	1	
AC95131-003	0.0617	6	1	6	ND	1	
AC95132-003	0.0488	6	1	6	ND	1	
AC95133-003	0.0453	6	1	6	ND	1	
AC95134-003	0.0807	6	1	6	ND	1	
LB	0.0564	6	1	6	ND	1	
CCV-2	49.7	6	1	6	49.7	1	99%
CCB-2	0.0358	6	1	6	ND	1	

AF 12/20/16
 JW
 12/19/16

5-DAY BOD MUR

Batch # 1378
 Analyst: BCT
 Date/ Time Initial: 12/14/16 8:00
 Date/ Time Final: 12/19/16 11:00

* final DO must be greater than or equal to 1.0 mg/L
 ** Depletion must be at least 2.0 mg/L
 Note: GGA must be between 167.5-228.5
 Note: Blank w/o seed must have a depletion of <0.2 mg/l
 Note: Blank w/seed must be between 0.6 and 1.0 mg/L
 Rp :RPD failed specified QC

QC Bottles

Bottle #	Sample #	Vol (ml)	Seed vol (ml)	Initial DO mg/L	Final DO mg/l	Depletion mg/L	Depletion mg/L (ave)	Seed Corr
201	Blank w/o seed	300	0	8.20	8.11	0.09		
202	Blank w/o seed	300	0	8.18	8.08	0.1	0.095	
203	Blank w/ seed	300	2	8.25	7.36	0.89		
204	Blank w/ seed	300	2	8.26	7.40	0.86		0.875
205	Seed Control	300	6	8.30	5.85	2.45		
206	Seed Control	300	8	8.24	5.11	3.13		
207	Seed Control	300	10	8.20	4.24	3.96		0.797
	result(mg/L)	%RPD						
	sample	539.1625						
	sample dup	537.663	0.3					

Samples

Bottle #	Sample #	Vol (ml)	Seed Vol(ml)	Initial DO mg/L	Final DO* mg/l	Depletion** mg/L	Corrected Depl (mg/l)	Valid (Y/N)	Final BOD mg/L	Ave BOD mg/L
208	Hach GGA	6	2	8.26	3.69	4.57	3.773	Y	189	
209	Hach GGA	6	2	8.28	3.58	4.7	3.903	Y	195	
210	Hach GGA	6	2	8.30	3.73	4.57	3.773	Y	189	191
211	AC95157-001	1	2	8.26	5.13	3.13	2.333	Y	700	
212	AC95157-001	2	2	8.20	3.38	4.82	4.023	Y	603	
213	AC95157-001	5	2	8.17	0.31	NV	NV	N	NV	651.663
214	AC95157-002	1	2	8.25	5.73	2.52	1.723	Y	517	
215	AC95157-002	2	2	8.22	3.68	4.54	3.743	Y	561	
216	AC95157-002	5	2	8.14	0.16	NV	NV	N	NV	539.163
217	AC95157-002 DUP	1	2	8.26	5.56	2.7	1.903	Y	571	
218	AC95157-002 DUP	2	2	8.20	4.04	4.16	3.363	Y	504	
219	AC95157-002 DUP	5	2	8.11	0.24	NV	NV	N	NV	537.663
220	AC95154-001	50	2	8.70	7.54	1.16	0.363	N	NV	
221	AC95154-001	100	2	9.55	7.73	1.82	1.023	N	NV	
222	AC95154-001	300	2	10.13	8.39	1.74	0.943	N	NV	#DIV/0!
223	AC95154-002	50	2	8.41	7.63	0.78	-0.017	N	NV	
224	AC95154-002	100	2	8.73	7.71	1.02	0.223	N	NV	
225	AC95154-002	300	2	9.43	7.68	1.75	0.953	N	NV	#DIV/0!
226	AC95154-003	2	2	8.21	6.45	1.76	0.963	N	NV	
227	AC95154-003	5	2	8.17	5.80	2.37	1.573	Y	94	
228	AC95154-003	10	2	8.12	4.31	3.81	3.013	Y	90	92.383
229	AC95154-004	1	2	8.25	1.44	6.81	6.013	Y	1804	
230	AC95154-004	2	2	8.20	0.65	NV	NV	N	NV	
231	AC95154-004	5	2	8.16	0.08	NV	NV	N	NV	1803.883
232	AC95154-005	50	2	8.84	6.38	2.46	1.66294444	Y	10	
233	AC95154-005	100	2	10.30	5.27	5.03	4.23294444	Y	13	
234	AC95154-005	300	2	11.06	3.66	7.4	6.60294444	Y	7	9.760
235	AC95154-006	50	2	8.56	7.79	0.77	-0.02705556	N	NV	
236	AC95154-006	100	2	9.79	7.89	1.9	1.10294444	N	NV	
237	AC95154-006	300	2	10.30	9.00	1.3	0.50294444	N	NV	#DIV/0!
238	AC95154-007	25	2	8.33	4.70	3.63	2.83294444	Y	34	
239	AC95154-007	50	2	8.71	2.16	6.55	5.75294444	Y	35	
240	AC95154-007	100	2	8.99	0.12	NV	NV	N	NV	34.257

1 27/12/19/16
 JW
 12/19/16

5-DAY BOD MUR

Batch # 1378
 Analyst: BCT
 Date/ Time Initial: 12/14/16 8:00
 Date/ Time Final: 12/19/16 11:00

* final DO must be greater than or equal to 1.0 mg/L
 ** Depletion must be at least 2.0 mg/L
 Note: GGA must be between 167.5-228.5
 Note: Blank w/o seed must have a depletion of <0.2 mg/l
 Note : Blank w/seed must be between 0.6 and 1.0 mg/L
 Rp :RPD failed specified QC

QC Bottles

Bottle #	Sample #	Vol (ml)	Seed vol (ml)	Initial DO mg/L	Final DO mg/l	Depletion mg/L	Depletion mg/L (ave)	Seed Corr
201	Blank w/o seed	300	0	8.20	8.11	0.09		
202	Blank w/o seed	300	0	8.18	8.08	0.1	0.095	
203	Blank w/ seed	300	2	8.25	7.36	0.89		
204	Blank w/ seed	300	2	8.26	7.40	0.86		0.875
205	Seed Control	300	6	8.30	5.85	2.45		
206	Seed Control	300	8	8.24	5.11	3.13		
207	Seed Control	300	10	8.20	4.24	3.96		0.797
		result(mg/L)	%RPD					
	sample	539.1625						
	sample dup	537.663	0.3					

Samples

Bottle #	Sample #	Vol (ml)	Seed Vol(ml)	Initial DO mg/L	Final DO* mg/l	Depletion** mg/L	Corrected Depl (mg/l)	Valid (Y/N)	Final BOD mg/L	Ave BOD mg/L
208	Hach GGA	6	2	8.26	3.69	4.57	3.773	Y	189	
209	Hach GGA	6	2	8.28	3.58	4.7	3.903	Y	195	
210	Hach GGA	6	2	8.30	3.73	4.57	3.773	Y	189	191
241	AC95154-008	50	2	8.91	7.38	1.53	0.73294444	N	NV	
242	AC95154-008	100	2	9.33	7.64	1.69	0.89294444	N	NV	
243	AC95154-008	300	2	10.66	7.13	3.53	2.73294444	Y	3	2.733
244	AC95154-009	50	2	8.66	7.11	1.55	0.75294444	N	NV	
245	AC95154-009	100	2	9.12	7.38	1.74	0.94294444	N	NV	
246	AC95154-009	300	2	10.03	7.30	2.73	1.93294444	Y	2	1.933
247	AC95154-010	50	2	8.59	7.44	1.15	0.35294444	N	NV	
248	AC95154-010	100	2	9.26	7.48	1.78	0.98294444	N	NV	
249	AC95154-010	300	2	10.11	7.84	2.27	1.47294444	Y	1	1.473
250	AC95154-011	50	2	8.40	7.11	1.29	0.49294444	N	NV	
251	AC95154-011	100	2	8.79	6.93	1.86	1.06294444	N	NV	
252	AC95154-011	300	2	9.21	5.33	3.88	3.08294444	Y	3	3.083
253	AC95154-012	25	2	8.36	3.46	4.9	4.10294444	Y	49	
254	AC95154-012	50	2	8.51	0.38	NV	NV	N	NV	
255	AC95154-012	100	2	8.78	0.16	NV	NV	N	NV	49.235
256	AC95154-013	2	2	8.11	5.60	2.51	1.71294444	Y	257	
257	AC95154-013	5	2	8.08	3.77	4.31	3.51294444	Y	211	
258	AC95154-013	10	2	8.00	0.48	NV	NV	N	NV	233.859
259	AC95154-014	50	2	8.84	5.76	3.08	2.28294444	Y	14	
260	AC95154-014	100	2	9.51	3.54	5.97	5.17294444	Y	16	
261	AC95154-014	300	2	10.61	0.69	NV	NV	N	NV	14.608
262	AC95154-015	50	2	8.96	7.00	1.96	1.16294444	N	NV	
263	AC95154-015	100	2	9.85	7.48	2.37	1.57294444	Y	5	
264	AC95154-015	300	2	10.78	6.38	4.4	3.60294444	Y	4	4.161

DW
12/19/16

MS/MSD/DUP Recovery

6121303 0202

Prep Batch: W-1162	Sample ID: AC95083-002
Method: EPA 335.4	Matrix: Aqueous

Qc Type: DUP								MS/MSD/DUP			Non Spike		
Analyte	Limits		Dil	DUP Conc	Sample Conc	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
	Rpd	Dil											
Cyanide	20	1	0	0	0	NA		20161213153	15	12/13/16 16:06	20161213153	14	12/13/16 16:03

Qc Type: MS								MS/MSD/DUP			Non Spike			
Analyte	Amt	Limits		Dil	MS Conc	Sample Conc	% Rec	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
		Recov	Dil											
Cyanide	0.4	75-125		1	0.406	0	101		20161213153	16	12/13/16 16:08	20161213153	14	12/13/16 16:03

Qc Type: MSD										MS/MSD/DUP			Non Spike		
Analyte	Amt	Limits		Dil	MSD Conc	Sample Conc	% Rec	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
		Recov	Rpd												
Cyanide	0.4	75-125	20	1	0.4182	0	105	3		20161213153	17	12/13/16 16:10	20161213153	14	12/13/16 16:03

LCS Recoveries

BatchRunID/RunID: ====>		201612131533-12										
QcBatchID: ====>		LCSW-1162										
Date/Time: ====>		12/13/16 15:59										
Analytical Method: ====>		EPA 335.4										
Matrix: ====>		Aqueous		Soil	Soil	Soil	Soil					
EPA 335.4												
Analyte	Amt	Limits	Amt	Limits	% Rec	Flags	% Rec	Flags	% Rec	Flags	% Rec	Flags
Cyanide	0.4	90-110			97							

Calibration Summary:

Instrument: DA1

Analysis Meth: EPA 335.4

Analyte	Batch ID	Run#	Qc Type	Recov	Spk Amt	Limit
Cyanide	20161213153	9	ICV	103	0.4	90-110
Cyanide	20161213153	21	CCV	102	0.4	90-110
Cyanide	20161213153	33	CCV	99	0.4	90-110
Cyanide	20161213153	41	CCV	100	0.4	90-110

Blank Summary

Instrument: DA1

Qc Type: Method Blank Summary Prep Date: 12/13/16

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20161213153	12/13/16 15:56	MBW-1162	11	Cyanide	ND	0.020

Qc Type: CCB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20161213153	12/13/16 16:22	CCB	22	Cyanide	ND	0.020
20161213153	12/13/16 16:50	CCB	34	Cyanide	ND	0.020
20161213153	12/13/16 17:05	CCB	42	Cyanide	ND	0.020

MS/MSD/DUP Recovery

6121303 0206

Prep Batch: W-1162 Method: EPA 9012B	Sample ID: AC95083-002 Matrix: Aqueous
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Qc Type: DUP								MS/MSD/DUP			Non Spike		
Analyte	Limits		Dil	DUP Conc	Sample Conc	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide	35	1	0	0	0		NA	20161213153	15	12/13/16 16:06	20161213153	14	12/13/16 16:03

Qc Type: MS								MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Dil	MS Conc	Sample Conc	% Rec	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide	0.4	75-125	1	0.406	0	101		20161213153	16	12/13/16 16:08	20161213153	14	12/13/16 16:03

Qc Type: MSD										MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Rpd	Dil	MSD Conc	Sample Conc	% Rec	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide	0.4	75-125	20	1	0.4182	0	105	3		20161213153	17	12/13/16 16:10	20161213153	14	12/13/16 16:03

LCS Recoveries

BatchRunID/RunID: ====>		201612131533-12										
QcBatchID: ====>		LCSW-1162										
Date/Time: ====>		12/13/16 15:59										
Analytical Method: ====>		EPA 9012B										
Matrix: ====>		Aqueous		Soil	Soil	Soil	Soil					
EPA 9012B												
Analyte	Amt	Limits	Amt	Limits	% Rec	Flags	% Rec	Flags	% Rec	Flags	% Rec	Flags
Cyanide	0.4	80-120			97							

Calibration Summary:

6121303 0208

Instrument: DA1

Analysis Meth: EPA 9012B

Analyte	Batch ID	Run#	Qc Type	Recov	Spk Amt	Limit
Cyanide	20161213153	9	ICV	103	0.4	85-115
Cyanide	20161213153	21	CCV	102	0.4	85-115
Cyanide	20161213153	33	CCV	99	0.4	85-115
Cyanide	20161213153	41	CCV	100	0.4	85-115

Blank Summary

Instrument: DA1

Qc Type: Method Blank Summary Prep Date: 12/13/16

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20161213153	12/13/16 15:56	MBW-1162	11	Cyanide	ND	0.020

Qc Type: CCB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20161213153	12/13/16 16:22	CCB	22	Cyanide	ND	0.020
20161213153	12/13/16 16:50	CCB	34	Cyanide	ND	0.020
20161213153	12/13/16 17:05	CCB	42	Cyanide	ND	0.020

Batch Number: COD-509

Units: mg/l

Qc Summary Results

Qc Type	Qc Name	SpkAmt	Rec Lim	Rpd Lim	Raw Result	Recov	Rpd	Flags
CAL-01	CAL-01-12/13/16	50	90-110	NA	52.5895755	105	NA	
CAL-02	CAL-02-12/13/16	100	90-110	NA	107.1037533	107	NA	
CCV	CCV-3	50	90-110	NA	52.9260828	106	NA	
CCV	CCV-2	50	90-110	NA	52.5895755	105	NA	
CCV	CCV-1	50	90-110	NA	52.9260828	106	NA	
DUP	AC95154-001	0	NA	20	7.1610941	NA	NA	Nc
ICV	ICV-10/05/16	75	90-110	NA	75.4720699	101	NA	
LCS	LCS	50	75-125	NA	52.2530683	105	NA	
MS	AC95154-001	50	75-125	NA	57.9736919	116	NA	
MSD	AC95154-001	50	75-125	20	56.9641701	114	1.8	

Calibration Curve Information

Cal Curve Date: 10/05/16

Concentration:	Abs/Area	Slope: -0.00297170
0	0	Intercept: -0.00171935
10	-0.035	Rsquared: -0.9998612
30	-0.088	Date Performed: 10/05/16
50	-0.151	
80	-0.241	
100	-0.297	
120	-0.359	

Analytical Method(s)

HACH 8000

Sam #	Type	MB	Result	Per RL	Sol	Full Abs Result	Smp Vol	DF	Fin Vol	Prep Date	Prep By	Anal Date	Anal By
CAL-01-12/13/16	CAL-01		53	100		52.59	-0.158	1	1			12/13/16	BCT
CAL-02-12/13/16	CAL-02		110	100		107.1	-0.320	1	1			12/13/16	BCT
MB-1-12/13/16	MB	MB-1-12/13/16	ND	10	100	2.7865	-0.010	2	1	12/13/16	BCT	12/13/16	BCT
LCS	LCS	MB-1-12/13/16	52	10	100	52.253	-0.157	2	1	12/13/16	BCT	12/13/16	BCT
AC95154-001	Sample	MB-1-12/13/16	ND	10	100	9.5166	-0.030	2	1	12/13/16	BCT	12/13/16	BCT
AC95154-001	DUP	MB-1-12/13/16	ND	10	100	7.1611	-0.023	2	1	12/13/16	BCT	12/13/16	BCT
AC95154-001	MS	MB-1-12/13/16	58	10	100	57.974	-0.174	2	1	12/13/16	BCT	12/13/16	BCT
AC95154-001	MSD	MB-1-12/13/16	57	10	100	56.964	-0.171	2	1	12/13/16	BCT	12/13/16	BCT
AC95154-002	Sample	MB-1-12/13/16	22	10	100	22.304	-0.068	2	1	12/13/16	BCT	12/13/16	BCT
AC95154-003	Sample	MB-1-12/13/16	230	100	100	229.77	-0.070	2	10	12/13/16	BCT	12/13/16	BCT
CCV-1	CCV	MB-1-12/13/16	53	100	100	52.926	-0.159	1	1	12/13/16	BCT	12/13/16	BCT
CCB-1	CCB	MB-1-12/13/16	ND	10	100	-0.57857	0.0	1	1	12/13/16	BCT	12/13/16	BCT
AC95154-004	Sample	MB-1-12/13/16	2800	250	100	2787	-0.333	2	25	12/13/16	BCT	12/13/16	BCT
AC95154-005	Sample	MB-1-12/13/16	29	10	100	29.034	-0.088	1	2	12/13/16	BCT	12/13/16	BCT
AC95154-006	Sample	MB-1-12/13/16	14	10	100	13.555	-0.042	1	2	12/13/16	BCT	12/13/16	BCT
AC95154-007	Sample	MB-1-12/13/16	62	10	100	61.675	-0.185	1	2	12/13/16	BCT	12/13/16	BCT
AC95154-008	Sample	MB-1-12/13/16	18	10	100	17.593	-0.054	1	2	12/13/16	BCT	12/13/16	BCT
AC95154-009	Sample	MB-1-12/13/16	16	10	100	15.574	-0.048	2	1	12/13/16	BCT	12/13/16	BCT
AC95154-010	Sample	MB-1-12/13/16	24	10	100	23.65	-0.072	2	1	12/13/16	BCT	12/13/16	BCT
CCV-2	CCV	MB-1-12/13/16	53	100	100	52.59	-0.158	1	1	12/13/16	BCT	12/13/16	BCT
CCB-2	CCB	MB-1-12/13/16	ND	10	100	-0.57857	0.0	1	1	12/13/16	BCT	12/13/16	BCT
AC95154-011	Sample	MB-1-12/13/16	13	10	100	12.882	-0.040	2	1	12/13/16	BCT	12/13/16	BCT
AC95154-012	Sample	MB-1-12/13/16	69	10	100	68.742	-0.206	2	1	12/13/16	BCT	12/13/16	BCT
AC95154-013	Sample	MB-1-12/13/16	310	100	100	310.53	-0.094	2	10	12/13/16	BCT	12/13/16	BCT
AC95154-014	Sample	MB-1-12/13/16	30	10	100	30.044	-0.091	2	1	12/13/16	BCT	12/13/16	BCT
AC95154-015	Sample	MB-1-12/13/16	16	10	100	15.574	-0.048	2	1	12/13/16	BCT	12/13/16	BCT
CCV-3	CCV	MB-1-12/13/16	53	100	100	52.926	-0.159	1	1	12/13/16	BCT	12/13/16	BCT
CCB-3	CCB	MB-1-12/13/16	ND	10	100	-0.57857	0.0	1	1	12/13/16	BCT	12/13/16	BCT

187
12/13/16

OW
12/15/16

Flag Codes: Ra - Recovery failed specified criteria (PVS/LCS/MS/MSD/ICV/CAL)

Na - Not Applicable

Rp - RPD failed specified criteria.

Nc - Not Checked ..either one or both values =ND

MS/MSD/DUP Recovery

6121303 0211

Prep Batch: W-1924
Method: 300.0 rev2.1

Sample ID: AC95154-001
Matrix: Aqueous

Qc Type: MS		Limits		MS	Sample				MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Dil	Conc	Conc	% Rec	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date	
Nitrate	5	80-120	1	4.9916	1.053	79	Mw	20161209141	179	12/13/16 15:54	20161209141	178	12/13/16 15:28	
Nitrite	5	80-120	1	4.8326	0	97		20161209141	179	12/13/16 15:54	20161209141	178	12/13/16 15:28	

Qc Type: MSD		Limits		MSD	Sample				MS/MSD/DUP			Non Spike			
Analyte	Amt	Recov	Rpd	Dil	Conc	Conc	% Rec	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Nitrate	5	80-120	20	1	5.0339	1.053	80	0.8		20161209141	180	12/13/16 16:19	20161209141	178	12/13/16 15:28
Nitrite	5	80-120	20	1	4.9023	0	98	1.4		20161209141	180	12/13/16 16:19	20161209141	178	12/13/16 15:28

LCS Recoveries

BatchRunID/RunID:====> 201612091415-177
QcBatchID:====> LCSW-1924
Date/Time:====> 12/13/16 14:46
Analytical Method:====> 300.0 rev2.1
Matrix:====> Aqueous

Analyte	300.0 rev2.		Aqueous		Soil		Soil		Soil		Soil	
	Amt	Limits	Amt	Limits	% Rec	Flags	% Rec	Flags	% Rec	Flags	% Rec	Flags
Nitrate	5	90-110			100							
Nitrite	5	90-110			103							

Calibration Curve

Instrument: IC1
 Analysis Date: 12/09/16
 Analytical Methods: 300.0 rev2.1; EPA 9056; EPA 9056A

Batch ID:	Analyte:	Area Found						Concentration Amount						RSq
		Area1	Area2	Area3	Area4	Area5	Area6	Conc1	Conc2	Conc3	Conc4	Conc5	Conc6	
201612091415	Nitrate	0	0.485	2.592	5.428	12.303		0	1	5	10	20	50	99.621
201612091415	Nitrite	0	0.452	2.302	4.643	9.943		0	1	5	10	20	50	99.876

Calibration Summary:

6121303 0214

Instrument: IC1

Analysis Meth: 300.0 rev2.1

Analyte	Batch ID	Run#	Qc Type	Recov	Spk Amt	Limit
Nitrate	20161209141	8	ICV	99	10	90-110
Nitrate	20161209141	174	CCV	101	10	90-110
Nitrate	20161209141	186	CCV	101	10	90-110
Nitrate	20161209141	198	CCV	100	10	90-110
Nitrate	20161209141	205	CCV	100	10	90-110
Nitrite	20161209141	8	ICV	101	10	90-110
Nitrite	20161209141	174	CCV	102	10	90-110
Nitrite	20161209141	186	CCV	102	10	90-110
Nitrite	20161209141	198	CCV	101	10	90-110
Nitrite	20161209141	205	CCV	101	10	90-110

Blank Summary

Instrument: IC1

Qc Type: Method Blank Summary Prep Date: 12/13/16

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20161209141	12/13/16 14:20	MBW-1924	176	Nitrate	ND	1.0
20161209141	12/13/16 14:20	MBW-1924	176	Nitrite	ND	1.0

Qc Type: ICB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20161209141	12/9/16 19:19	ICB	9	Nitrate	ND	1.0
20161209141	12/9/16 19:19	ICB	9	Nitrite	ND	1.0

Qc Type: CCB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20161209141	12/13/16 13:55	CCB	175	Nitrate	ND	1.0
20161209141	12/13/16 19:15	CCB	187	Nitrate	ND	1.0
20161209141	12/14/16 00:18	CCB	199	Nitrate	ND	1.0
20161209141	12/14/16 03:14	CCB	206	Nitrate	ND	1.0
20161209141	12/13/16 13:55	CCB	175	Nitrite	ND	1.0
20161209141	12/13/16 19:15	CCB	187	Nitrite	ND	1.0
20161209141	12/14/16 00:18	CCB	199	Nitrite	ND	1.0
20161209141	12/14/16 03:14	CCB	206	Nitrite	ND	1.0

Oil And Grease (HEM)

Batch	682			Analyst	ND			
Date	12/16/2016							
				True value	Result	% REC	Limits	Flags
			LCS	40.0	33.8	84.5	78-114	
			LCSD	40.0	36.4	91.0	78-114	
					LCS RPD	7.4	20	
				Theoretical				
			MS	58.8	50.3	85.5	78-114	
			Blank Summary					
			Units	RL	Result			
			ppm	5.0	U			
Sample #	Sample vol. (ml)	Tare wt. (g)	Final wt. (g)	Net Weight (mg)		O&G ppm	RL ppm	Silica Gel Calc
MB	1000	6.3771	6.3777	0.6		0.60	5.0	0.0030
LCS	1000	6.4062	6.4400	33.8		33.80	5.0	1.0140
AC95090-002MS	680	6.3825	6.4167	34.2		50.29	7.4	1.5088
LCSD	1000	6.3576	6.3940	36.4		36.40	5.0	1.0920
AC95090-002	790	6.3955	6.3966	1.1		1.39	6.3	0.0418
AC95091-001	450	6.3913	6.3944	3.1		6.89	11.1	0.2067
AC95144-001	950	6.3980	6.3982	0.2		0.21	5.3	0.0063
AC95144-002	950	6.3300	6.3303	0.3		0.32	5.3	0.0095
AC94083-002	950	6.3651	6.3696	4.5		4.74	5.3	0.1421
AC95154-001	670	6.3902	6.3909	0.7		1.04	7.5	0.0313
AC95154-002	950	6.3727	6.3733	0.6		0.63	5.3	0.0189
AC95154-003	870	6.4052	6.4060	0.8		0.92	5.7	0.0276
AC95154-004	950	6.4018	6.4020	0.2		0.21	5.3	0.0063
AC95154-005	880	6.3997	6.4000	0.3		0.34	5.7	0.0102
AC95154-006	690	6.4137	6.4145	0.8		1.16	7.2	0.0348
AC95154-007	640	6.3897	6.3901	0.4		0.62	7.8	0.0187
AC95154-008	830	6.3892	6.3895	0.3		0.36	6.0	0.0108
AC95154-009	860	6.4058	6.4060	0.2		0.23	5.8	0.0070
AC95154-010	950	6.4433	6.4438	0.5		0.53	5.3	0.0158
AC95154-011	830	6.4027	6.4033	0.6		0.72	6.0	0.0217
AC95154-012	890	6.3891	6.3895	0.4		0.45	5.6	0.0135
AC95154-013	830	6.3797	6.3802	0.5		0.60	6.0	0.0181
AC95154-014	890	6.3380	6.3383	0.3		0.34	5.6	0.0101
AC95154-015	840	6.3505	6.3514	0.9		1.07	6.0	0.0321

MS
12/16/16GW
12/19/16

Analysis Type: PHENOL-W

Batch Number: PHENOL-W-362

Units: mg/l

Qc Summary Results

Calibration Curve Information

Cal Curve Date: 10/03/16

Concentration:	Abs/Area
0	0
0.05	0.009
0.1	0.018
0.2	0.034
0.3	0.056
0.4	0.074

Slope: 0.1854737
 Intercept: -0.00062457
 Rsquared: 0.9990497
 Date Performed: 10/03/16

Qc Type	Qc Name	SpkAmt	Rec Lim	Rpd Lim	Raw Result	Recov	Rpd	Flags
CAL-01	CAL-01-12/15/16	0.2	90-110	NA	0.197465	99	NA	
CAL-02	CAL-02-12/15/16	0.4	90-110	NA	0.3807794	95	NA	
CCV	CCV-2	0.2	90-110	NA	0.1920734	96	NA	
CCV	CCV	0.2	90-110	NA	0.197465	99	NA	
DUP	AC95154-001	0	NA	20	0.008759	NA	NA	Nc
ICV	ICV-10/03/16	0.2	90-110	NA	0.1920734	96	NA	
LCS	LCS	0.2	75-125	NA	0.1651154	83	NA	
MS	AC95154-001	0.2	75-125	NA	0.170507	85	NA	
MSD	AC95154-001	0.2	75-125	20	0.1758986	88	3.1	

Analytical Method(s)

EPA 420.1

Sam #	Type	MB	Result	RL	Per Sol	Full Abs Result	Smp Vol	DF	Dist Vol	Prep Date	Prep By	Anal Date	Anal By
CAL-01-12/15/16	CAL-01		0.2		100	0.19747	0.036	1	1			12/15/16	JW
CAL-02-12/15/16	CAL-02		0.38		100	0.38078	0.070	1	1			12/15/16	JW
MB-1-12/15/16	MB	MB-1-12/15/16	ND	0.05	100	0.0033674	0	10	1	10		12/15/16	JW
LCS	LCS	MB-1-12/15/16	0.17	0.05	100	0.16512	0.030	10	1	10		12/15/16	JW
AC95154-001	Sample	MB-1-12/15/16	ND	0.05	100	0.014151	0.002	10	1	10		12/15/16	JW
AC95154-001	DUP	MB-1-12/15/16	ND	0.05	100	0.008759	0.001	10	1	10		12/15/16	JW
AC95154-001	MS	MB-1-12/15/16	0.17	0.05	100	0.17051	0.031	10	1	10		12/15/16	JW
AC95154-001	MSD	MB-1-12/15/16	0.18	0.05	100	0.1759	0.032	10	1	10		12/15/16	JW
AC95154-002	Sample	MB-1-12/15/16	ND	0.05	100	-0.0020242	-0.001	10	1	10		12/15/16	JW
AC95154-003	Sample	MB-1-12/15/16	ND	0.05	100	-0.0020242	-0.001	10	1	10		12/15/16	JW
AC95154-004	Sample	MB-1-12/15/16	ND	0.05	100	0.0033674	0	10	1	10		12/15/16	JW
AC95154-005	Sample	MB-1-12/15/16	ND	0.05	100	0.0033674	0	10	1	10		12/15/16	JW
CCV	CCV	MB-1-12/15/16	0.2		100	0.19747	0.036	10	1	10		12/15/16	JW
CCB	CCB	MB-1-12/15/16	ND	0.05	100	0.0033674	0	10	1	10		12/15/16	JW
AC95154-006	Sample	MB-1-12/15/16	ND	0.05	100	-0.0020242	-0.001	10	1	10		12/15/16	JW
AC95154-007	Sample	MB-1-12/15/16	ND	0.05	100	0.0033674	0	10	1	10		12/15/16	JW
AC95154-008	Sample	MB-1-12/15/16	ND	0.05	100	0.0033674	0	10	1	10		12/15/16	JW
AC95154-009	Sample	MB-1-12/15/16	ND	0.05	100	0.014151	0.002	10	1	10		12/15/16	JW
AC95154-010	Sample	MB-1-12/15/16	ND	0.05	100	0.0033674	0	10	1	10		12/15/16	JW
CCV-2	CCV	MB-1-12/15/16	0.19		100	0.19207	0.035	10	1	10		12/15/16	JW
CCB-2	CCB	MB-1-12/15/16	ND	0.05	100	0.0033674	0	10	1	10		12/15/16	JW

AF 12/20/16
 JW 12/19/16

Flag Codes: Ra - Recovery failed specified criteria (PVS/LCS/MS/MSD/ICV/CAL)
 Na - Not Applicable

Rp - RPD failed specified criteria.
 Nc - Not Checked ..either one or both values =ND

Analysis Type: PHENOL-W

Batch Number: PHENOL-W-363

Units: mg/l

Qc Summary Results

Calibration Curve Information

Cal Curve Date: 10/03/16

Concentration:	Abs/Area
0	0
0.05	0.009
0.1	0.018
0.2	0.034
0.3	0.056
0.4	0.074

Slope: 0.1854737
 Intercept: -0.00062457
 Rsquared: 0.9990497
 Date Performed: 10/03/16

Qc Type	Qc Name	SpkAmt	Rec Lim	Rpd Lim	Raw Result	Recov	Rpd	Flags
CAL-01	CAL-01-12/15/16	0.2	90-110	NA	0.1920734	96	NA	
CAL-02	CAL-02-12/15/16	0.4	90-110	NA	0.3646046	91	NA	
CCV	CCV-2	0.2	90-110	NA	0.1920734	96	NA	
CCV	CCV	0.2	90-110	NA	0.1920734	96	NA	
DUP	AC95154-011	0	NA	20	0.0195422	NA	NA	Nc
ICV	ICV-10/03/16	0.2	90-110	NA	0.1920734	96	NA	
LCS	LCS	0.2	75-125	NA	0.170507	85	NA	
MS	AC95154-011	0.2	75-125	NA	0.170507	85	NA	
MSD	AC95154-011	0.2	75-125	20	0.1866818	93	9.1	

Analytical Method(s)

EPA 420.1

Sam #	Type	MB	Result	RL	Per Sol	Full Abs Result	Smp Vol	DF	Dist Vol	Prep Date	Prep By	Anal Date	Anal By
CAL-01-12/15/16	CAL-01		0.19		100	0.19207 0.035	1	1	1			12/15/16	JW
CAL-02-12/15/16	CAL-02		0.36		100	0.3646 0.067	1	1	1			12/15/16	JW
MB-2-12/15/16	MB	MB-2-12/15/16	ND	0.05	100	0.0033674 0	10	1	10	12/15/16	JW	12/15/16	JW
LCS	LCS	MB-2-12/15/16	0.17	0.05	100	0.17051 0.031	10	1	10	12/15/16	JW	12/15/16	JW
AC95154-011	Sample	MB-2-12/15/16	ND	0.05	100	0.019542 0.003	10	1	10	12/15/16	JW	12/15/16	JW
AC95154-011	DUP	MB-2-12/15/16	ND	0.05	100	0.019542 0.003	10	1	10	12/15/16	JW	12/15/16	JW
AC95154-011	MS	MB-2-12/15/16	0.17	0.05	100	0.17051 0.031	10	1	10	12/15/16	JW	12/15/16	JW
AC95154-011	MSD	MB-2-12/15/16	0.19	0.05	100	0.18668 0.034	10	1	10	12/15/16	JW	12/15/16	JW
AC95154-012	Sample	MB-2-12/15/16	ND	0.05	100	0.014151 0.002	10	1	10	12/15/16	JW	12/15/16	JW
AC95154-013	Sample	MB-2-12/15/16	ND	0.05	100	0.008759 0.001	10	1	10	12/15/16	JW	12/15/16	JW
AC95154-014	Sample	MB-2-12/15/16	ND	0.05	100	0.019542 0.003	10	1	10	12/15/16	JW	12/15/16	JW
AC95154-015	Sample	MB-2-12/15/16	ND	0.05	100	0.014151 0.002	10	1	10	12/15/16	JW	12/15/16	JW
CCV	CCV	MB-2-12/15/16	0.19		100	0.19207 0.035	10	1	10	12/15/16	JW	12/15/16	JW
CCB	CCB	MB-2-12/15/16	ND	0.05	100	0.0033674 0	10	1	10	12/15/16	JW	12/15/16	JW
AC95083-002	Sample	MB-2-12/15/16	ND	0.05	100	0.019542 0.003	10	1	10	12/15/16	JW	12/15/16	JW
AC95161-002	Sample	MB-2-12/15/16	ND	0.05	100	-0.0020242 -0.001	10	1	10	12/15/16	JW	12/15/16	JW
AC95161-003	Sample	MB-2-12/15/16	ND	0.05	100	-0.0020242 -0.001	10	1	10	12/15/16	JW	12/15/16	JW
CCV-2	CCV	MB-2-12/15/16	0.19		100	0.19207 0.035	10	1	10	12/15/16	JW	12/15/16	JW
CCB-2	CCB	MB-2-12/15/16	ND	0.05	100	0.0033674 0	10	1	10	12/15/16	JW	12/15/16	JW

AF 12/20/16
 JW 12/19/16

Flag Codes: Ra - Recovery failed specified criteria (PVS/LCS/MS/MSD/ICV/CAL)
 Na - Not Applicable

Rp - RPD failed specified criteria.
 Nc - Not Checked ..either one or both values =ND

Analysis Type: T-PHOSP

Batch Number: T-PHOSP-315

Units: mg/l

Qc Summary Results

Calibration Curve Information

Cal Curve Date: 11/09/16

Concentration:	Abs/Area
0	0.0052
0.05	0.0365
0.1	0.0734
0.2	0.1616
0.5	0.3531
1	0.7139

Slope: 0.7070609
 Intercept: 0.005939526
 Rsquared: 0.9996198
 Date Performed: 11/09/16

Qc Type	Qc Name	SpkAmt	Rec Lim	Rpd Lim	Raw Result	Recov	Rpd	Flags
CAL-01	CAL-01-12/15/16	0.1	90-110	NA	0.1065827	107	NA	
CAL-02	CAL-02-12/15/16	1	90-110	NA	1.0917878	109	NA	
CCV	CCV-3	0.5	90-110	NA	0.5015982	100	NA	
CCV	CCV-2	0.5	90-110	NA	0.5018811	100	NA	
CCV	CCV-1	0.5	90-110	NA	0.5018811	100	NA	
DUP	AC95154-001	0	NA	20	0.036943	NA	NA	Nc
ICV	ICV-11/09/16	0.5	90-110	NA	0.4826465	97	NA	
LCS	LCS	1	75-125	NA	1.006025	101	NA	
LCSD	LCSD	1	75-125	20	1.0498685	105	4.3	
MS	AC95154-001	1	75-125	NA	1.028371	103	NA	
MSD	AC95154-001	1	75-125	20	1.0484542	105	1.9	

Analytical Method(s)

SM4500-PE 19

Sam #	Type	MB	Result	RL	Per Sol	Full Abs Result	Smp Vol	DF	Fin Vol	Prep Date	Prep By	Anal Date	Anal By
CAL-01-12/15/16	CAL-01		0.11		100	0.10658	0.0813	1	1			12/15/16	BCT
CAL-02-12/15/16	CAL-02		1.1		100	1.0918	0.7779	1	1			12/15/16	BCT
MB-1-12/15/16	MB	MB-1-12/15/16	ND	0.1	100	0.011486	0.0100	50	1	100	12/15/16	BCT	BCT
LCS	LCS	MB-1-12/15/16	1	0.1	100	1.006	0.3616	50	1	100	12/15/16	BCT	BCT
LCSD	LCSD	MB-1-12/15/16	1	0.1	100	1.0499	0.3771	50	1	100	12/15/16	BCT	BCT
AC95154-001	Sample	MB-1-12/15/16	ND	0.1	100	0.038923	0.0197	50	1	100	12/15/16	BCT	BCT
AC95154-001	DUP	MB-1-12/15/16	ND	0.1	100	0.036943	0.0190	50	1	100	12/15/16	BCT	BCT
AC95154-001	MS	MB-1-12/15/16	1	0.1	100	1.0284	0.3695	50	1	100	12/15/16	BCT	BCT
AC95154-001	MSD	MB-1-12/15/16	1	0.1	100	1.0485	0.3766	50	1	100	12/15/16	BCT	BCT
CCV-1	CCV	MB-1-12/15/16	0.5		100	0.50188	0.3608	1	1	1	12/15/16	BCT	BCT
CCB-1	CCB	MB-1-12/15/16	ND	0.05	100	0.0053185	0.0097	1	1	1	12/15/16	BCT	BCT
AC95154-002	Sample	MB-1-12/15/16	ND	0.1	100	0.084747	0.0359	50	1	100	12/15/16	BCT	BCT
AC95154-003	Sample	MB-1-12/15/16	ND	0.1	100	0.046277	0.0223	50	1	100	12/15/16	BCT	BCT
AC95154-004	Sample	MB-1-12/15/16	0.27	0.1	100	0.27115	0.1018	50	1	100	12/15/16	BCT	BCT
AC95154-005	Sample	MB-1-12/15/16	0.18	0.1	100	0.17639	0.0683	50	1	100	12/15/16	BCT	BCT
AC95154-006	Sample	MB-1-12/15/16	ND	0.1	100	0.069472	0.0305	50	1	100	12/15/16	BCT	BCT
AC95154-007	Sample	MB-1-12/15/16	0.1	0.1	100	0.102	0.0420	50	1	100	12/15/16	BCT	BCT
AC95154-008	Sample	MB-1-12/15/16	ND	0.1	100	0.077675	0.0334	50	1	100	12/15/16	BCT	BCT
AC95154-009	Sample	MB-1-12/15/16	ND	0.1	100	0.075978	0.0328	50	1	100	12/15/16	BCT	BCT
AC95154-010	Sample	MB-1-12/15/16	0.15	0.1	100	0.14896	0.0586	50	1	100	12/15/16	BCT	BCT
AC95154-011	Sample	MB-1-12/15/16	0.12	0.1	100	0.12095	0.0487	50	1	100	12/15/16	BCT	BCT
CCV-2	CCV	MB-1-12/15/16	0.5		100	0.50188	0.3608	1	1	1	12/15/16	BCT	BCT
CCB-2	CCB	MB-1-12/15/16	ND	0.05	100	0.0039042	0.0087	1	1	1	12/15/16	BCT	BCT
AC95154-012	Sample	MB-1-12/15/16	ND	0.1	100	0.097475	0.0404	50	1	100	12/15/16	BCT	BCT
AC95154-013	Sample	MB-1-12/15/16	0.18	0.1	100	0.18262	0.0705	50	1	100	12/15/16	BCT	BCT
AC95154-014	Sample	MB-1-12/15/16	ND	0.1	100	0.062118	0.0279	50	1	100	12/15/16	BCT	BCT
AC95154-015	Sample	MB-1-12/15/16	ND	0.1	100	0.051652	0.0242	50	1	100	12/15/16	BCT	BCT
AC95083-001	Sample	MB-1-12/15/16	1.5	0.1	100	1.4911	0.5331	50	1	100	12/15/16	BCT	BCT
AC94829-015	Sample	MB-1-12/15/16	ND	0.1	100	0.0032825	0.0071	50	1	100	12/15/16	BCT	BCT
CCV-3	CCV	MB-1-12/15/16	0.5		100	0.5016	0.3606	1	1	1	12/15/16	BCT	BCT
CCB-3	CCB	MB-1-12/15/16	ND	0.05	100	0.0003684	0.0062	1	1	1	12/15/16	BCT	BCT

BD
12/15/16

JW
12/15/16

Flag Codes: Ra - Recovery failed specified criteria (PVS/LCS/MS/MSD/ICV/CAL)

Rp - RPD failed specified criteria.

Na - Not Applicable

Nc - Not Checked ..either one or both values =ND

Analysis Type: TSS

Batch Number: TSS-1352

Units: mg/l

Calibration Curve Information

Qc Summary Results

Qc Type	Qc Name	SpkAmt	Rec Lim	Rpd Lim	Raw Result	Recov	Rpd	Flags
DUP	AC95154-001	0	NA	5	1.2	NA	NA	Nc
LCS	LCS	600	80-120	NA	584.8	97	NA	
LCSD	LCSD	600	80-120	5	562.4	94	3.9	

Analytical Method(s)

SM2540D-11

Sam #	Type	MB	Result	RL	Per Sol	Full Tare Result	Tare Wt (g)	Fin Wt (g)	Sam Vol (ml)	Prep Date	Prep By	Anal Date	Anal By
MB-1-12/14/16	MB	MB-1-12/14/16	ND	4	100	0	1.4225	1.4225	250	12/14/16	BCT	12/15/16	BCT
LCS	LCS	MB-1-12/14/16	580	4	100	584.8	1.4210	1.5672	250	12/14/16	BCT	12/15/16	BCT
LCSD	LCSD	MB-1-12/14/16	560	4	100	562.4	1.4221	1.5627	250	12/14/16	BCT	12/15/16	BCT
AC95154-001	DUP	MB-1-12/14/16	ND	4	100	1.2	1.4400	1.4403	250	12/14/16	BCT	12/15/16	BCT
AC95154-001	Sample	MB-1-12/14/16	ND	4	100	1.6	1.4123	1.4127	250	12/14/16	BCT	12/15/16	BCT
AC95154-002	Sample	MB-1-12/14/16	ND	4	100	0.4	1.4247	1.4248	250	12/14/16	BCT	12/15/16	BCT
AC95154-003	Sample	MB-1-12/14/16	ND	4	100	0	1.4273	1.4273	250	12/14/16	BCT	12/15/16	BCT
AC95154-004	Sample	MB-1-12/14/16	13	4	100	13.2	1.4118	1.4151	250	12/14/16	BCT	12/15/16	BCT
AC95154-005	Sample	MB-1-12/14/16	ND	4	100	1.6	1.4295	1.4299	250	12/14/16	BCT	12/15/16	BCT
AC95154-006	Sample	MB-1-12/14/16	ND	4	100	0.4	1.4056	1.4057	250	12/14/16	BCT	12/15/16	BCT
AC95154-007	Sample	MB-1-12/14/16	7.2	4	100	7.2	1.4223	1.4241	250	12/14/16	BCT	12/15/16	BCT
AC95154-008	Sample	MB-1-12/14/16	18	4	100	18	1.4266	1.4311	250	12/14/16	BCT	12/15/16	BCT
AC95154-009	Sample	MB-1-12/14/16	6	4	100	6	1.4072	1.4087	250	12/14/16	BCT	12/15/16	BCT
AC95154-010	Sample	MB-1-12/14/16	47	4	100	47.2	1.4172	1.4290	250	12/14/16	BCT	12/15/16	BCT
AC95154-011 D	Sample	MB-1-12/14/16	29	4	100	28.8	1.4054	1.4126	250	12/14/16	BCT	12/15/16	BCT
AC95154-011	Sample	MB-1-12/14/16	28	4	100	28	1.4097	1.4167	250	12/14/16	BCT	12/15/16	BCT
AC95154-012	Sample	MB-1-12/14/16	6	4	100	6	1.4126	1.4141	250	12/14/16	BCT	12/15/16	BCT
AC95154-013	Sample	MB-1-12/14/16	16	4	100	16	1.4113	1.4153	250	12/14/16	BCT	12/15/16	BCT
AC95154-014	Sample	MB-1-12/14/16	ND	4	100	1.6	1.4123	1.4127	250	12/14/16	BCT	12/15/16	BCT
AC95154-015	Sample	MB-1-12/14/16	6.4	4	100	6.4	1.4121	1.4137	250	12/14/16	BCT	12/15/16	BCT
AC95144-001	Sample	MB-1-12/14/16	160	40	100	156	1.4205	1.4244	25	12/14/16	BCT	12/15/16	BCT
AC95144-002	Sample	MB-1-12/14/16	32	4	100	31.6	1.4087	1.4166	250	12/14/16	BCT	12/15/16	BCT
AC95161-002	Sample	MB-1-12/14/16	8.8	4	100	8.8	1.4092	1.4114	250	12/14/16	BCT	12/15/16	BCT
AC95161-003	Sample	MB-1-12/14/16	230	20	100	234	1.4102	1.4219	50	12/14/16	BCT	12/15/16	BCT
AC95166-001	Sample	MB-1-12/14/16	270	40	100	272	1.4274	1.4342	25	12/14/16	BCT	12/15/16	BCT

Handwritten: BCT 12/15/16

Handwritten: JW 12/15/16

Flag Codes: Ra - Recovery failed specified criteria (PVS/LCS/MS/MSD/ICV/CAL)

Rp - RPD failed specified criteria.

Na - Not Applicable

Nc - Not Checked ..either one or both values =ND

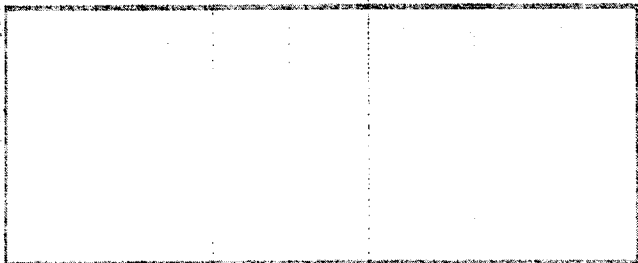
Batch Number: TDS-775

Units: mg/l

Qc Summary Results

Qc Type	Qc Name	SpkAmt	Rec Lim	Rpd Lim	Raw Result	Recov	Rpd	Flags
DUP	AC95154-001	0	NA	5	416	NA	2.8	
LCS	LCS	300	80-120	NA	292	97	NA	
LCSD	LCSD	300	80-120	5	296	99	1.4	

Calibration Curve Information



Analytical Method(s)

SM2540C-11

Sam #	Type	MB	Result	RL	Per Sol	Full Tare Result	Tare Wt (g)	Fin Wt (g)	Sam Vol	Prep Date	Prep By	Anal Date	Anal By
MB-1-12/15/16	MB	MB-1-12/15/16	ND	40	100	4	34.1589	34.1590	25	12/15/16	BCT	12/16/16	BCT
LCS	LCS	MB-1-12/15/16	290	40	100	292	39.1385	39.1458	25	12/15/16	BCT	12/16/16	BCT
LCSD	LCSD	MB-1-12/15/16	300	40	100	296	30.7907	30.7981	25	12/15/16	BCT	12/16/16	BCT
AC95154-001	DUP	MB-1-12/15/16	420	40	100	416	32.3098	32.3202	25	12/15/16	BCT	12/16/16	BCT
AC95154-001	Sample	MB-1-12/15/16	430	40	100	428	33.9962	34.0069	25	12/15/16	BCT	12/16/16	BCT
AC95154-002	Sample	MB-1-12/15/16	520	40	100	524	40.4248	40.4379	25	12/15/16	BCT	12/16/16	BCT
AC95154-003	Sample	MB-1-12/15/16	320	40	100	320	31.2146	31.2226	25	12/15/16	BCT	12/16/16	BCT
AC95154-004	Sample	MB-1-12/15/16	360	40	100	360	36.4750	36.4840	25	12/15/16	BCT	12/16/16	BCT
AC95154-005	Sample	MB-1-12/15/16	290	40	100	292	32.0370	32.0443	25	12/15/16	BCT	12/16/16	BCT
AC95154-006	Sample	MB-1-12/15/16	440	40	100	440	36.3631	36.3741	25	12/15/16	BCT	12/16/16	BCT
AC95154-007	Sample	MB-1-12/15/16	230	40	100	228	31.5242	31.5299	25	12/15/16	BCT	12/16/16	BCT
AC95154-008	Sample	MB-1-12/15/16	1300	40	100	1300	37.7063	37.7388	25	12/15/16	BCT	12/16/16	BCT
AC95154-009	Sample	MB-1-12/15/16	830	40	100	832	38.3154	38.3362	25	12/15/16	BCT	12/16/16	BCT
AC95154-010	Sample	MB-1-12/15/16	3200	40	100	3156	36.1250	36.2039	25	12/15/16	BCT	12/16/16	BCT
AC95154-011D	Sample	MB-1-12/15/16	68	40	100	68	37.1848	37.1865	25	12/15/16	BCT	12/16/16	BCT
AC95154-011	Sample	MB-1-12/15/16	68	40	100	68	36.0292	36.0309	25	12/15/16	BCT	12/16/16	BCT
AC95154-012	Sample	MB-1-12/15/16	120	40	100	124	35.9636	35.9667	25	12/15/16	BCT	12/16/16	BCT
AC95154-013	Sample	MB-1-12/15/16	440	40	100	444	33.8745	33.8856	25	12/15/16	BCT	12/16/16	BCT
AC95154-014	Sample	MB-1-12/15/16	200	40	100	204	38.5319	38.5370	25	12/15/16	BCT	12/16/16	BCT
AC95154-015	Sample	MB-1-12/15/16	330	40	100	332	32.9607	32.9690	25	12/15/16	BCT	12/16/16	BCT
AC95115-001	Sample	MB-1-12/15/16	110	40	100	108	34.4541	34.4568	25	12/15/16	BCT	12/16/16	BCT
AC95115-003	Sample	MB-1-12/15/16	ND	40	100	8	32.6850	32.6852	25	12/15/16	BCT	12/16/16	BCT
AC95115-005	Sample	MB-1-12/15/16	350	40	100	352	33.0050	33.0138	25	12/15/16	BCT	12/16/16	BCT
AC95144-001	Sample	MB-1-12/15/16	210	40	100	212	40.2025	40.2078	25	12/15/16	BCT	12/16/16	BCT
AC95144-002	Sample	MB-1-12/15/16	240	40	100	236	28.6641	28.6700	25	12/15/16	BCT	12/16/16	BCT

Handwritten: MB 12/16/16

Handwritten: DW 12/19/16

Subcontracted Data

This is the last page of the data generated by Hampton-Clarke.
The following pages were submitted to HC by subcontracted laboratories.



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: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

December 22, 2016

Work Order: 2195739
SDG: HFT073

Ms. Melissa D'Almeida
HamptonClarke-Veritech
175 Route 46 West
Fairfield, NJ 07004

Laboratory Results for: 2014-LL HG BY 1631 - NY SITE

Dear Ms. Melissa D'Almeida:

Enclosed are the analytical results for samples received by the laboratory starting on December 14, 2016.

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. Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads. This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental. Any events, such as QC failures, are explained in the report narrative.

If you have any questions regarding this certificate of analysis, please contact Ms. Jennifer M Stanhope Lamoreux (Reporting Manager) at (717) 944-5541. You may also contact me via email at jennifer.lamoreux@ALSglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Jennifer M Stanhope Lamoreux
Reporting Manager

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Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
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Table of Contents

Chain-of-Custody Records.....	3
Methodology Summaries.....	6
Certificate of Analysis.....	8
Total Mercury by Method 1631E Conformance/Non-Conformance Summary.....	28

Chain-of-Custody Records

CHAIN OF CUSTODY RECORD

Hampton-Clarke, Inc.
175 US Hwy 46 West
Fairfield, New Jersey, 07004
Ph: 800-426-9992 Fax: 973-439-1458



U.S. PA 171-920

Report To:
Hampton-Clarke, Inc.
Attn: Reporting
175 Route 46 West
Fairfield, New Jersey 07004

Project #:
6121303

Invoice To:
Hampton-Clarke, Inc.
Attn: Accounting
175 Route 46 West
Fairfield, New Jersey 07004

Report To:
Hampton-Clarke, Inc.
Attn: Reporting
175 Route 46 West
Fairfield, New Jersey 07004

FINAL RESULTS TO: subresults@hcvlab.com
PRELIM/VERBAL RESULTS TO: subresults@hcvlab.com

EDD: NEW JERSEY HAZRESULT OR EQUIS EZEDD REQUIRED FOR ALL DATA SUBMITTALS!

Turn Around Time: 1-week *Reduced* Preliminary Due Date: 12/21/2016
Report Type: NYDOH-GATA ~~STAND~~ Hard Copy Due Date: 12/28/2016
NO 12/16/16

Sample Number	Client ID	Matrix	Collected: Date	Time	Collected: Time	Analysis Requested
AC95154-001	Outfall 001	Aqueous	12/12/2016	10:35:00 AM	HG-1631	
AC95154-002	Outfall 002	Aqueous	12/12/2016	9:30:00 AM	HG-1631	
AC95154-003	Outfall 003	Aqueous	12/12/2016	9:45:00 AM	HG-1631	
AC95154-004	Outfall 004	Aqueous	12/12/2016	10:00:00 AM	HG-1631	
AC95154-005	Outfall 005	Aqueous	12/12/2016	10:40:00 AM	HG-1631	
AC95154-006	Outfall 006	Aqueous	12/12/2016	10:50:00 AM	HG-1631	
AC95154-007	Outfall 007	Aqueous	12/12/2016	11:35:00 AM	HG-1631	
AC95154-008	Outfall 008	Aqueous	12/12/2016	8:35:00 AM	HG-1631	
AC95154-009	Outfall 009	Aqueous	12/12/2016	8:40:00 AM	HG-1631	
AC95154-010	Outfall 010	Aqueous	12/12/2016	8:45:00 AM	HG-1631	

Y # _____ Ship's Cooler Temp: _____
Cooler # _____
T *25.0*
Ship Carrier: _____
FedEx: _____ UPS: _____
DHL: _____

Custody Seals Present? _____
(if present: Seals Intact? _____
Received on ice? _____
COC/Lab Complete _____
Com in Good Cont? _____
Correct Containers? _____
Correct Temp Vol? _____
Correct Preservation? _____
Headspace/Volatiles? _____
Tracking # _____

Relinquished By: *B. Schaefer* Accepted By: *ATG* Date: *12/13/16* Time: *10:09*
12/14/16 Time: *10:09*
Comments, Notes, Special Requirements, HAZARDS: *Needs 100C*
W 12/14
Cooler Temp: _____

CHAIN OF CUSTODY RECORD

Hampton-Clarke, Inc.
175 US Hwy 46 West
Fairfield, New Jersey, 07004
Ph: 800-426-9992 Fax: 973-439-1458

Report To:

Hampton-Clarke, Inc.
Attn: Reporting
175 Route 46 West
Fairfield, New Jersey 07004

Invoice To:

Hampton-Clarke, Inc.
Attn: Accounting
175 Route 46 West
Fairfield, New Jersey 07004

Project #:



6121303

CocID#:



5285

FINAL RESULTS TO: subresults@hcvlab.com
PRELIM/VERBAL RESULTS TO: subresults@hcvlab.com

EDD: NEW JERSEY HAZRESULT OR EQUIS EZEDD REQUIRED FOR ALL DATA SUBMITTALS!

Turn Around Time: 1-week Reduced Preliminary Due Date: 12/21/2016
Report Type: NYDOH-GATA (STAND) Hard Copy Due Date: 12/28/2016

Sample Number:	Client ID	Date	Matrix:	Collected:	Time	Analysis Requested
AC95154-011	Outfall 011	12/12/2016	Aqueous	10:25:00 AM	10:25:00 AM	HG-1631
AC95154-012	Outfall 012	12/12/2016	Aqueous	11:10:00 AM	11:10:00 AM	HG-1631
AC95154-013	Outfall 013	12/12/2016	Aqueous	11:45:00 AM	11:45:00 AM	HG-1631
AC95154-014	Outfall 014	12/12/2016	Aqueous	12:30:00 PM	12:30:00 PM	HG-1631
AC95154-015	Outfall 015	12/12/2016	Aqueous	11:00:00 AM	11:00:00 AM	HG-1631

Turn Around Time: 1-week *Reduced* **Preliminary Due Date:** 12/21/2016
Report Type: NYDOH-GATA (STAND) **Hard Copy Due Date:** 12/28/2016

Y N **Cooler Temp: °C**
Cooler # 352

Custody Seals Present? (If present) Seals Intact?
 Received on Ice?
 COC/Lbls Complete
 Cont in Good Cont?
 Correct Containers?
 Correct Samp Vol?
 Correct Preservation?
 Headspace/Volatiles?
Tracking #:

Ship Carrier: UPS
FedEx
DHL

Reinquired By:	Accepted By:	Date:	Time:	Comments, Notes, Special Requirements, HAZARDS
<i>Maxwell B Schaffer</i>	<i>MS</i>	12/13/16	10:09	
		12/14/16	10:09	<i>Needs 100c</i>

Cooler Temp: _____

739
0° DAVL
OPS # 171-920

Methodology Summaries

Mercury by EPA 1631/245.7

This method is adapted from EPA Method 1631, Revision E, August 2002; and EPA Method 245.7, Revision 2.0, February 2005. A 100 to 2000 mL sample is collected following proper sample handling techniques using Sampling Method 1669; the sample is filtered, if required, prior to preservation and then it is preserved by either adding 12 N HCl or Bromine Monochloride (BrCl) solution. Prior to analysis, all Hg, inorganic and organic, in a 100-mL sample aliquot is oxidized to Hg (II) with BrCl, typically done in the sample bottles at room temperature for at least 12 hours. After oxidation, the sample is sequentially reduced with $\text{NH}_2\text{OH} \cdot \text{HCl}$ to destroy the free Halogens, then reduced with stannous chloride (SnCl_2) to convert Hg (II) to volatile HG (0). The volatile Hg is then separated from solution by purging with high purity Argon which then flows through the first gold trap where the Hg is collected. The Hg is thermally desorbed from the gold trap into an inert gas stream that carries it to a second gold trap. The Hg is again thermally desorbed from this trap into a gas stream that carries the Hg as a slug into two separate drying tubes (a Soda Lime drying tube and a Nafion drying tube) to remove acid gases, free Halogens and moisture; then the gas stream flows into the cell of a cold-vapor atomic fluorescence spectrometer for detection. (Method 245.7 skips the gold traps after the Hg is purged with high purity Argon; the gas stream goes directly into the Soda Lime drying tube and continues to follow the same path as Method 1631.) Samples to be analyzed for total or dissolved Hg only may be shipped to the laboratory unpreserved and unrefrigerated if they are collected in fluoropolymer or glass bottles and capped tightly. Samples must be either preserved or analyzed within 48 hours of collection. If a sample is oxidized in the sample bottle, the time to preservation can be extended to 28 days.

For method 1631, samples are preserved by adding 5 mL/L of pretested 12 N HCl or 5 mL/L BrCl solution to the bottle. For method 245.7, samples are preserved by adding 5 mL/L of pretested 12 N HCl to the bottle. Preservation should be done in the original sample bottle. Preserved samples are stable for up to 90 days.

Certificate of Analysis

December 20, 2016

Ms. Melissa D'Almeida
HamptonClarke-Veritech
175 Route 46 West
Fairfield, NJ 07004

Certificate of Analysis

Project Name:	2014-LL HG BY 1631 - NY SITE	Workorder:	2195739
Purchase Order:		Workorder ID:	HFT073 6121303/AC95154

Dear Ms. D'Almeida:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, December 14, 2016.

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 Ms. Amy K Borden (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

Ms. Amy K Borden
Project Coordinator

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

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SAMPLE SUMMARY

Workorder: 2195739 HFT073|6121303/AC95154

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2195739001	AC95154-001	NY Non-Potable Water	12/12/2016 10:35	12/14/2016 10:09	Collected by Client
2195739002	AC95154-002	NY Non-Potable Water	12/12/2016 09:30	12/14/2016 10:09	Collected by Client
2195739003	AC95154-003	NY Non-Potable Water	12/12/2016 09:45	12/14/2016 10:09	Collected by Client
2195739004	AC95154-004	NY Non-Potable Water	12/12/2016 10:00	12/14/2016 10:09	Collected by Client
2195739005	AC95154-005	NY Non-Potable Water	12/12/2016 10:40	12/14/2016 10:09	Collected by Client
2195739006	AC95154-006	NY Non-Potable Water	12/12/2016 10:50	12/14/2016 10:09	Collected by Client
2195739007	AC95154-007	NY Non-Potable Water	12/12/2016 11:35	12/14/2016 10:09	Collected by Client
2195739008	AC95154-008	NY Non-Potable Water	12/12/2016 08:35	12/14/2016 10:09	Collected by Client
2195739009	AC95154-009	NY Non-Potable Water	12/12/2016 08:40	12/14/2016 10:09	Collected by Client
2195739010	AC95154-010	NY Non-Potable Water	12/12/2016 08:45	12/14/2016 10:09	Collected by Client
2195739011	AC95154-011	NY Non-Potable Water	12/12/2016 10:25	12/14/2016 10:09	Collected by Client
2195739012	AC95154-012	NY Non-Potable Water	12/12/2016 11:10	12/14/2016 10:09	Collected by Client
2195739013	AC95154-013	NY Non-Potable Water	12/12/2016 11:45	12/14/2016 10:09	Collected by Client
2195739014	AC95154-014	NY Non-Potable Water	12/12/2016 12:30	12/14/2016 10:09	Collected by Client
2195739015	AC95154-015	NY Non-Potable Water	12/12/2016 11:00	12/14/2016 10:09	Collected by Client

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SAMPLE SUMMARY

Workorder: 2195739 HFT073|6121303/AC95154

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.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	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
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 2195739 HFT073|6121303/AC95154

Lab ID: **2195739001** Date Collected: 12/12/2016 10:35 Matrix: NY Non-Potable Water
Sample ID: **AC95154-001** Date Received: 12/14/2016 10:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	2.8	1	ng/L	0.50	0.17	EPA 1631E	12/20/16 07:30 MNP	12/20/16 10:58	MNP	A1



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ANALYTICAL RESULTS

Workorder: 2195739 HFT073|6121303/AC95154

Lab ID: **2195739002** Date Collected: 12/12/2016 09:30 Matrix: NY Non-Potable Water
Sample ID: **AC95154-002** Date Received: 12/14/2016 10:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	7.5	1	ng/L	0.50	0.17	EPA 1631E	12/20/16 07:30 MNP	12/20/16 11:05	MNP	A1



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ANALYTICAL RESULTS

Workorder: 2195739 HFT073|6121303/AC95154

Lab ID: **2195739003**
Sample ID: **AC95154-003**

Date Collected: 12/12/2016 09:45 Matrix: NY Non-Potable Water
Date Received: 12/14/2016 10:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	3.6	1,2	ng/L	1.0	0.33	EPA 1631E	12/20/16 07:30 MNP	12/20/16 13:21	MNP	A1

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ANALYTICAL RESULTS

Workorder: 2195739 HFT073|6121303/AC95154

Lab ID: **2195739004** Date Collected: 12/12/2016 10:00 Matrix: NY Non-Potable Water
Sample ID: **AC95154-004** Date Received: 12/14/2016 10:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	0.99	1	ng/L	0.50	0.17	EPA 1631E	12/20/16 07:30 MNP	12/20/16 12:05	MNP	A1



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ANALYTICAL RESULTS

Workorder: 2195739 HFT073|6121303/AC95154

 Lab ID: **2195739005** Date Collected: 12/12/2016 10:40 Matrix: NY Non-Potable Water
 Sample ID: **AC95154-005** Date Received: 12/14/2016 10:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	1.8	1	ng/L	0.50	0.17	EPA 1631E	12/20/16 07:30 MNP	12/20/16 12:13	MNP	A1



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ANALYTICAL RESULTS

Workorder: 2195739 HFT073|6121303/AC95154

Lab ID: **2195739006** Date Collected: 12/12/2016 10:50 Matrix: NY Non-Potable Water
Sample ID: **AC95154-006** Date Received: 12/14/2016 10:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	2.1	1	ng/L	0.50	0.17	EPA 1631E	12/20/16 07:30 MNP	12/20/16 12:20	MNP	A1



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ANALYTICAL RESULTS

Workorder: 2195739 HFT073|6121303/AC95154

Lab ID: **2195739007**
Sample ID: **AC95154-007**

Date Collected: 12/12/2016 11:35 Matrix: NY Non-Potable Water
Date Received: 12/14/2016 10:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	2.9	1	ng/L	0.50	0.17	EPA 1631E	12/20/16 07:30 MNP	12/20/16 12:28	MNP	A1

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ANALYTICAL RESULTS

Workorder: 2195739 HFT073|6121303/AC95154

Lab ID: **2195739008** Date Collected: 12/12/2016 08:35 Matrix: NY Non-Potable Water
 Sample ID: **AC95154-008** Date Received: 12/14/2016 10:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	5.8	1	ng/L	0.50	0.17	EPA 1631E	12/20/16 07:30 MNP	12/20/16 12:36 MNP	A1	



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ANALYTICAL RESULTS

Workorder: 2195739 HFT073|6121303/AC95154

Lab ID: **2195739009**
Sample ID: **AC95154-009**

Date Collected: 12/12/2016 08:40 Matrix: NY Non-Potable Water
Date Received: 12/14/2016 10:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	2.1	1	ng/L	0.50	0.17	EPA 1631E	12/20/16 07:30 MNP	12/20/16 12:43	MNP	A1

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ANALYTICAL RESULTS

Workorder: 2195739 HFT073|6121303/AC95154

 Lab ID: **2195739010** Date Collected: 12/12/2016 08:45 Matrix: NY Non-Potable Water
 Sample ID: **AC95154-010** Date Received: 12/14/2016 10:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	4.1	1	ng/L	0.50	0.17	EPA 1631E	12/20/16 07:30 MNP	12/20/16 13:44	MNP	A1



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ANALYTICAL RESULTS

Workorder: 2195739 HFT073|6121303/AC95154

Lab ID: **2195739011**
Sample ID: **AC95154-011**

Date Collected: 12/12/2016 10:25 Matrix: NY Non-Potable Water
Date Received: 12/14/2016 10:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	1.5	1	ng/L	0.50	0.17	EPA 1631E	12/20/16 07:30 MNP	12/20/16 13:52	MNP	A1

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ANALYTICAL RESULTS

Workorder: 2195739 HFT073|6121303/AC95154

Lab ID: **2195739012** Date Collected: 12/12/2016 11:10 Matrix: NY Non-Potable Water
Sample ID: **AC95154-012** Date Received: 12/14/2016 10:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	2.2	1	ng/L	0.50	0.17	EPA 1631E	12/20/16 07:30 MNP	12/20/16 14:00	MNP	A1



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ANALYTICAL RESULTS

Workorder: 2195739 HFT073|6121303/AC95154

Lab ID: **2195739013** Date Collected: 12/12/2016 11:45 Matrix: NY Non-Potable Water
Sample ID: **AC95154-013** Date Received: 12/14/2016 10:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	2.6	1	ng/L	0.50	0.17	EPA 1631E	12/20/16 07:30 MNP	12/20/16 14:07	MNP	A1



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ANALYTICAL RESULTS

Workorder: 2195739 HFT073|6121303/AC95154

Lab ID: **2195739014** Date Collected: 12/12/2016 12:30 Matrix: NY Non-Potable Water
Sample ID: **AC95154-014** Date Received: 12/14/2016 10:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	1.5	1	ng/L	0.50	0.17	EPA 1631E	12/20/16 07:30 MNP	12/20/16 14:15	MNP	A1



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ANALYTICAL RESULTS

Workorder: 2195739 HFT073|6121303/AC95154

Lab ID: **2195739015** Date Collected: 12/12/2016 11:00 Matrix: NY Non-Potable Water
Sample ID: **AC95154-015** Date Received: 12/14/2016 10:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Mercury, Total	3.4	1	ng/L	0.50	0.17	EPA 1631E	12/20/16 07:30 MNP	12/20/16 14:23	MNP	A1



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PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2195739001	1	AC95154-001	EPA 1631E	Mercury, Total
The Method Blank was ND at 0.5ng/L. 12/20/16 MNP				
2195739002	1	AC95154-002	EPA 1631E	Mercury, Total
The Method Blank was ND at 0.5ng/L. 12/20/16 MNP				
2195739003	1	AC95154-003	EPA 1631E	Mercury, Total
The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. A matrix interference is the probable cause. 12/20/16 MNP				
2195739003	2	AC95154-003	EPA 1631E	Mercury, Total
The Method Blank was ND at 0.5ng/L. 12/20/16 MNP				
2195739004	1	AC95154-004	EPA 1631E	Mercury, Total
The Method Blank was ND at 0.5ng/L. 12/20/16 MNP				
2195739005	1	AC95154-005	EPA 1631E	Mercury, Total
The Method Blank was ND at 0.5ng/L. 12/20/16 MNP				
2195739006	1	AC95154-006	EPA 1631E	Mercury, Total
The Method Blank was ND at 0.5ng/L. 12/20/16 MNP				
2195739007	1	AC95154-007	EPA 1631E	Mercury, Total
The Method Blank was ND at 0.5ng/L. 12/20/16 MNP				
2195739008	1	AC95154-008	EPA 1631E	Mercury, Total
The Method Blank was ND at 0.5ng/L. 12/20/16 MNP				
2195739009	1	AC95154-009	EPA 1631E	Mercury, Total
The Method Blank was ND at 0.5ng/L. 12/20/16 MNP				
2195739010	1	AC95154-010	EPA 1631E	Mercury, Total
The Method Blank was ND at 0.5ng/L. 12/20/16 MNP				
2195739011	1	AC95154-011	EPA 1631E	Mercury, Total
The Method Blank was ND at 0.5ng/L. 12/20/16 MNP				
2195739012	1	AC95154-012	EPA 1631E	Mercury, Total
The Method Blank was ND at 0.5ng/L. 12/20/16 MNP				
2195739013	1	AC95154-013	EPA 1631E	Mercury, Total
The Method Blank was ND at 0.5ng/L. 12/20/16 MNP				
2195739014	1	AC95154-014	EPA 1631E	Mercury, Total
The Method Blank was ND at 0.5ng/L. 12/20/16 MNP				
2195739015	1	AC95154-015	EPA 1631E	Mercury, Total
The Method Blank was ND at 0.5ng/L. 12/20/16 MNP				

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Total Mercury by Method 1631E Conformance/Non- Conformance Summary

ALS Environmental

MERCURY ANALYSIS BY 245.1/7470/7471

CONFORMANCE/NON-CONFORMANCE SUMMARY

		NO	YES
1	Calibration Blank (ICB/CCB) Analyzed after every ICV/CCV and after every 10 samples	_____	_____ X _____
2	Method Blank One digested/analyzed with each batch of 20 or less samples < Reporting Limit	_____	_____ X _____ _____ X _____
3	Laboratory Control sample (LCS) or Laboratory Fortified Blank (LFB) One digested/analyzed with each batch of 20 or less samples 85-115% recovery	_____	_____ X _____ _____ X _____
4	Matrix Spikes Two digested with every batch of 10 or more samples One digested with less than 10 in batch 80-120% recovery / 50-150% for TCLP & SPLP	_____	_____ X _____ _____ NA _____ _____ X _____
5	Matrix Spike Duplicate/Duplicate Sample Two digested with every batch of 10 or more samples One digested with less than 10 in batch <20%RPD	_____	_____ X _____ _____ NA _____ _____ X _____
6	Initial Calibration Verification Standard (ICV) (Second Source) Immediately after calibration $\pm 5\%$ Recovery (245.1) $\pm 10\%$ recovery (7470/7471)	_____	_____ NA _____ _____ X _____
7	Continuing Calibration Verification Standard (CCV) (Same Source) $\pm 10\%$ recovery	_____	_____ X _____
8	Holding Time 28 days	_____	_____ X _____

Additional Comments: A matrix spike / matrix spike duplicate was performed on non-project sample 2195272002. The RPD and MS/MSD recoveries were within established control limits for this method.
A matrix spike / matrix spike duplicate was performed on sample 2195739003 in this deliverable group. The RPD and MS/MSD recoveries were outside of the established control limits for this method. A matrix interference is the probable cause. The sample was commented accordingly. 12/22/16 MNP

QC Review Signature: Meghan N. Pettis

Date: 12/22/2016

1631E
- COVER PAGE -
INORGANIC ANALYSIS DATA PACKAGE

Client: HamptonClarke-Veritech

SDG No.: HFT-073 Method Type: 1631E SOW No.: _____

Contract: HFT073 | 6121303/AC951 Lab Code: CAS Case No.: _____ SAS No.: _____

Lab Sample ID	Client Sample ID	QC Description
2195272002S	Finished Table 8BS	<u>Matrix Spike</u>
2195272002SD	Finished Table 8BSD	<u>Matrix Spike Duplicate</u>
2195739001	AC95154-001	
2195739002	AC95154-002	
2195739003	AC95154-003	
2195739003S	AC95154-003S	<u>Matrix Spike</u>
2195739003SD	AC95154-003SD	<u>Matrix Spike Duplicate</u>
2195739004	AC95154-004	
2195739005	AC95154-005	
2195739006	AC95154-006	
2195739007	AC95154-007	
2195739008	AC95154-008	
2195739009	AC95154-009	
2195739010	AC95154-010	

Were ICP interelement corrections applied? Yes/No Yes _____

Were ICP background corrections applied? Yes/No Yes _____

If yes - were raw data generated before applications of background corrections? Yes/No No _____

Comments: _____

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____

Name: _____

Date: _____

Title: Metals Manager

1631E
- COVER PAGE -
INORGANIC ANALYSIS DATA PACKAGE

Client: HamptonClarke-Veritech

SDG No.: HFT-073 Method Type: 1631E SOW No.: _____

Contract: HFT073 | 6121303/AC951 Lab Code: CAS Case No.: _____ SAS No.: _____

Lab Sample ID	Client Sample ID	QC Description
2195739011	AC95154-011	
2195739012	AC95154-012	
2195739013	AC95154-013	
2195739014	AC95154-014	
2195739015	AC95154-015	

Were ICP interelement corrections applied? Yes/No Yes _____

Were ICP background corrections applied? Yes/No Yes _____

If yes - were raw data generated before applications of background corrections? Yes/No No _____

Comments: _____

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____

Name: _____

Date: _____

Title: Metals Manager

1631E

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: HamptonClarke-Veritech SDG No.: HFT-073 Method Type: 1631E

Sample ID: 2195739001

Client ID: AC95154-001

Matrix: NY NON-POTABLE WATER

Date Received: 12/14/2016

Level: LOW

% Solids:

Sample Wt/Vol: 50.00

Final Vol: 50.0

Prep Batch ID: 184429

Prep Date: 12/20/2016

Total/Dissolved: TOTAL

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical	
									Date	Time
Mercury	7439-97-6	2.8	ng/L			CV	0.50	1.00	12/20/2016	10:58:12

Comments: _____

1631E

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: HamptonClarke-Veritech SDG No.: HFT-073 Method Type: 1631E

Sample ID: 2195739002

Client ID: AC95154-002

Matrix: NY NON-POTABLE WATER

Date Received: 12/14/2016

Level: LOW

% Solids:

Sample Wt/Vol: 50.00

Final Vol: 50.0

Prep Batch ID: 184429

Prep Date: 12/20/2016

Total/Dissolved: TOTAL

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical	
									Date	Time
Mercury	7439-97-6	7.5	ng/L			CV	0.50	1.00	12/20/2016	11:05:55

Comments: _____

1631E

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: HamptonClarke-Veritech SDG No.: HFT-073 Method Type: 1631E

Sample ID: 2195739003

Client ID: AC95154-003

Matrix: NY NON-POTABLE WATER

Date Received: 12/14/2016

Level: LOW

% Solids:

Sample Wt/Vol: 25.00

Final Vol: 50.0

Prep Batch ID: 184429

Prep Date: 12/20/2016

Total/Dissolved: TOTAL

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical	
									Date	Time
Mercury	7439-97-6	3.6	ng/L			CV	1.0	1.00	12/20/2016	13:21:36

Comments: _____

1631E

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: HamptonClarke-Veritech SDG No.: HFT-073 Method Type: 1631E

Sample ID: 2195739004

Client ID: AC95154-004

Matrix: NY NON-POTABLE WATER

Date Received: 12/14/2016

Level: LOW

% Solids:

Sample Wt/Vol: 50.00

Final Vol: 50.0

Prep Batch ID: 184429

Prep Date: 12/20/2016

Total/Dissolved: TOTAL

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical	
									Date	Time
Mercury	7439-97-6	0.99	ng/L			CV	0.50	1.00	12/20/2016	12:05:24

Comments: _____

1631E

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: HamptonClarke-Veritech SDG No.: HFT-073 Method Type: 1631E

Sample ID: 2195739005

Client ID: AC95154-005

Matrix: NY NON-POTABLE WATER

Date Received: 12/14/2016

Level: LOW

% Solids:

Sample Wt/Vol: 50.00

Final Vol: 50.0

Prep Batch ID: 184429

Prep Date: 12/20/2016

Total/Dissolved: TOTAL

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical	
									Date	Time
Mercury	7439-97-6	1.8	ng/L			CV	0.50	1.00	12/20/2016	12:13:07

Comments: _____

1631E

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: HamptonClarke-Veritech SDG No.: HFT-073 Method Type: 1631E

Sample ID: 2195739006

Client ID: AC95154-006

Matrix: NY NON-POTABLE WATER

Date Received: 12/14/2016

Level: LOW

% Solids:

Sample Wt/Vol: 50.00

Final Vol: 50.0

Prep Batch ID: 184429

Prep Date: 12/20/2016

Total/Dissolved: TOTAL

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical	
									Date	Time
Mercury	7439-97-6	2.1	ng/L			CV	0.50	1.00	12/20/2016	12:20:50

Comments: _____

1631E

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: HamptonClarke-Veritech SDG No.: HFT-073 Method Type: 1631E

Sample ID: 2195739007

Client ID: AC95154-007

Matrix: NY NON-POTABLE WATER

Date Received: 12/14/2016

Level: LOW

% Solids:

Sample Wt/Vol: 50.00

Final Vol: 50.0

Prep Batch ID: 184429

Prep Date: 12/20/2016

Total/Dissolved: TOTAL

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical	
									Date	Time
Mercury	7439-97-6	2.9	ng/L			CV	0.50	1.00	12/20/2016	12:28:33

Comments: _____

1631E

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: HamptonClarke-Veritech SDG No.: HFT-073 Method Type: 1631E

Sample ID: 2195739008

Client ID: AC95154-008

Matrix: NY NON-POTABLE WATER

Date Received: 12/14/2016

Level: LOW

% Solids:

Sample Wt/Vol: 50.00

Final Vol: 50.0

Prep Batch ID: 184429

Prep Date: 12/20/2016

Total/Dissolved: TOTAL

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical	
									Date	Time
Mercury	7439-97-6	5.8	ng/L			CV	0.50	1.00	12/20/2016	12:36:16

Comments: _____

1631E

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: HamptonClarke-Veritech SDG No.: HFT-073 Method Type: 1631E

Sample ID: 2195739009

Client ID: AC95154-009

Matrix: NY NON-POTABLE WATER

Date Received: 12/14/2016

Level: LOW

% Solids:

Sample Wt/Vol: 50.00

Final Vol: 50.0

Prep Batch ID: 184429

Prep Date: 12/20/2016

Total/Dissolved: TOTAL

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical	
									Date	Time
Mercury	7439-97-6	2.1	ng/L			CV	0.50	1.00	12/20/2016	12:43:59

Comments: _____

1631E

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: HamptonClarke-Veritech SDG No.: HFT-073 Method Type: 1631E

Sample ID: 2195739010

Client ID: AC95154-010

Matrix: NY NON-POTABLE WATER

Date Received: 12/14/2016

Level: LOW

% Solids:

Sample Wt/Vol: 50.00

Final Vol: 50.0

Prep Batch ID: 184429

Prep Date: 12/20/2016

Total/Dissolved: TOTAL

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical	
									Date	Time
Mercury	7439-97-6	4.1	ng/L			CV	0.50	1.00	12/20/2016	13:44:42

Comments: _____

1631E

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: HamptonClarke-Veritech SDG No.: HFT-073 Method Type: 1631E

Sample ID: 2195739011

Client ID: AC95154-011

Matrix: NY NON-POTABLE WATER

Date Received: 12/14/2016

Level: LOW

% Solids:

Sample Wt/Vol: 50.00

Final Vol: 50.0

Prep Batch ID: 184429

Prep Date: 12/20/2016

Total/Dissolved: TOTAL

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical	
									Date	Time
Mercury	7439-97-6	1.5	ng/L			CV	0.50	1.00	12/20/2016	13:52:25

Comments: _____

1631E

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: HamptonClarke-Veritech SDG No.: HFT-073 Method Type: 1631E

Sample ID: 2195739012

Client ID: AC95154-012

Matrix: NY NON-POTABLE WATER

Date Received: 12/14/2016

Level: LOW

% Solids:

Sample Wt/Vol: 50.00

Final Vol: 50.0

Prep Batch ID: 184429

Prep Date: 12/20/2016

Total/Dissolved: TOTAL

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical	
									Date	Time
Mercury	7439-97-6	2.2	ng/L			CV	0.50	1.00	12/20/2016	14:00:08

Comments: _____

1631E

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: HamptonClarke-Veritech SDG No.: HFT-073 Method Type: 1631E

Sample ID: 2195739013

Client ID: AC95154-013

Matrix: NY NON-POTABLE WATER

Date Received: 12/14/2016

Level: LOW

% Solids:

Sample Wt/Vol: 50.00

Final Vol: 50.0

Prep Batch ID: 184429

Prep Date: 12/20/2016

Total/Dissolved: TOTAL

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical	
									Date	Time
Mercury	7439-97-6	2.6	ng/L			CV	0.50	1.00	12/20/2016	14:07:51

Comments: _____

1631E

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: HamptonClarke-Veritech SDG No.: HFT-073 Method Type: 1631E

Sample ID: 2195739014

Client ID: AC95154-014

Matrix: NY NON-POTABLE WATER

Date Received: 12/14/2016

Level: LOW

% Solids:

Sample Wt/Vol: 50.00

Final Vol: 50.0

Prep Batch ID: 184429

Prep Date: 12/20/2016

Total/Dissolved: TOTAL

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical	
									Date	Time
Mercury	7439-97-6	1.5	ng/L			CV	0.50	1.00	12/20/2016	14:15:33

Comments: _____

1631E

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: HamptonClarke-Veritech SDG No.: HFT-073 Method Type: 1631E

Sample ID: 2195739015

Client ID: AC95154-015

Matrix: NY NON-POTABLE WATER

Date Received: 12/14/2016

Level: LOW

% Solids:

Sample Wt/Vol: 50.00

Final Vol: 50.0

Prep Batch ID: 184429

Prep Date: 12/20/2016

Total/Dissolved: TOTAL

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Dil	Analytical	
									Date	Time
Mercury	7439-97-6	3.4	ng/L			CV	0.50	1.00	12/20/2016	14:23:15

Comments: _____

1631E

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HamptonClarke-Veritech

SDG No.: HFT-073

Contract: HFT073|6121303/AC95154 **Lab Code:** CAS

Case No.: _____ **SAS No.:** _____

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: CAS MIXED

Sample ID	Analyte	Result ng/L	True Value ng/L	% Recovery	Q	QC Criteria	M	Analysis Date	Analysis Time	Run Number
ICV	Mercury	4.5400	5.00000	91		77 - 123	CV	12/20/2016	09:28	122016
CCV	Mercury	5.1800	5.00000	104		77 - 123	CV	12/20/2016	11:13	122016
CCV	Mercury	4.5400	5.00000	91		77 - 123	CV	12/20/2016	12:51	122016
CCV	Mercury	3.4900	5.00000	70	*	77 - 123	CV	12/20/2016	14:30	122016
CCV	Mercury	5.9800	5.00000	120		77 - 123	CV	12/20/2016	14:45	122016

1631E

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HamptonClarke-Veritech

SDG No.: HFT-073

Contract: HFT073|6121303/AC95154

Lab Code: CAS

Case No.: _____

SAS No.: _____

Sample ID	Analyte	Result ng/L	Conc Qual	QC Criteria	MDL	LOQ	M	Analysis Date	Analysis Time	Run
ICB	Mercury	0.39600	J	0.50000	0.16700	0.50000	CV	12/20/2016	09:36	122016
CCB	Mercury	0.50000	U	0.50000	0.16700	0.50000	CV	12/20/2016	11:21	122016
CCB	Mercury	0.50000	U	0.50000	0.16700	0.50000	CV	12/20/2016	12:59	122016
CCB	Mercury	0.40100	J	0.50000	0.16700	0.50000	CV	12/20/2016	14:53	122016

1631E

- 3b -

PREPARATION BLANK SUMMARY

Client: HamptonClarke-Veritech

SDG No.: HFT-073

Contract: HFT073|6121303/AC95154

Lab Code: CAS

Case No.: _____

SAS No.: _____

Sample ID	Analyte	Result (ng/L)	Conc Qual	Q	QC Criteria	MDL	LOQ	M	Analysis Date	Analysis Time	Run
2456421					QC-WATER						
	Mercury	0.5000	U		0.5000	0.1670	0.5000	CV	12/20/2016	09:56	122016

1631E

- 5a -

MATRIX SPIKE SUMMARY

Client: HamptonClarke-Veritech Level: LOW SDG No.: HFT-073

Contract: HFT073|6121303/AC95154 Lab Code: CAS Case No.: _____ SAS No.: _____

Matrix: WATER Sample ID: 2195272002 Client ID: Finished Table 8BS LIMS ID: 2456423

Percent Solids for Sample: 0.00 Spiked ID: 2195272002S Percent Solids for Spike Sample: 0.00

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ng/L	71 - 125	10.2000		0.5000	U	10.0000	102		CV

1631E

- 5a -

MATRIX SPIKE DUPLICATE SUMMARY

Client: HamptonClarke-Veritech Level: LOW SDG No.: HFT-073

Contract: HFT073|6121303/AC95154 Lab Code: CAS Case No.: _____ SAS No.: _____

Matrix: WATER Sample ID: 2195272002 Client ID: Finished Table 8BSD LIMS ID: 2456424

Percent Solids for Sample: 0.00 Spiked ID: 2195272002SD Percent Solids for Spike Sample: 0.00

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ng/L	71 - 125	10.2000		0.5000	U	10.0000	102		CV

1631E

- 5a -

MATRIX SPIKE SUMMARY

Client: HamptonClarke-Veritech Level: LOW SDG No.: HFT-073

Contract: HFT073|6121303/AC95154 Lab Code: CAS Case No.: _____ SAS No.: _____

Matrix: NY Sample ID: 2195739003 Client ID: AC95154-003S LIMS ID: 2456425

NON-POTABLE WATER
Percent Solids for Sample: 0.00

Spiked ID: 2195739003S

Percent Solids for Spike Sample: 0.00

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ng/L	71 - 125	15.5400		3.5600		20.0000	60	*	CV

1631E

- 5a -

MATRIX SPIKE DUPLICATE SUMMARY

Client: HamptonClarke-Veritech Level: LOW SDG No.: HFT-073

Contract: HFT073|6121303/AC95154 Lab Code: CAS Case No.: _____ SAS No.: _____

Matrix: NY Sample ID: 2195739003 Client ID: AC95154-003SD LIMS ID: 2456426

NON-POTABLE WATER
Percent Solids for Sample: 0.00 Spiked ID: 2195739003SD Percent Solids for Spike Sample: 0.00

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ng/L	71 - 125	13.2800		3.5600		20.0000	49	*	CV

1631E

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: HamptonClarke-Veritech **Level:** LOW **SDG No.:** HFT-073
Contract: HFT073|6121303/AC95154 **Lab Code:** CAS **Case No.:** _____ **SAS No.:** _____
Matrix: NY NON-POTABLE WATER **Sample ID:** 2195739003S **Client ID:** AC95154-003SD **LIMS ID:** 2456426
Percent Solids for Sample: 0.00 **Duplicate ID:** 2195739003SD **Percent Solids for Duplicate:** 0.00

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ng/L	0 - 20	15.5400		13.2800		15.7		CV

1631E

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: HamptonClarke-Veritech Level: LOW SDG No.: HFT-073

Contract: HFT073|6121303/AC95154 Lab Code: CAS Case No.: _____ SAS No.: _____

Matrix: WATER Sample ID: 2195272002S Client ID: Finished Table 8BSD LIMS ID: 2456424

Percent Solids for Sample: 0.00 Duplicate ID: 2195272002SD Percent Solids for Duplicate: 0.00

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ng/L	0 - 20	10.2000		10.2000		0.0		CV

1631E

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: HamptonClarke-Veritech

SDG No.: HFT-073

Contract: HFT073|6121303/AC95154

Lab Code: CAS

Case No.: _____

SAS No.: _____

Aqueous LCS Source: CAS MIXED

Solid LCS Source: _____

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Q	QC Criteria	M
2456422	Mercury	ng/L	5.0000	5.8200		116		77 - 123	CV

1631E
- 13 -
SAMPLE PREPARATION SUMMARY

Client: HamptonClarke-Veritech

SDG No.: HFT-073

Contract: HFT073|6121303/AC95154 **Lab Code:** CAS

Method: P

Case No.: _____ **SAS No.:** _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	184429						
2456421	MB for HBN 184429 [MDIG/6148	MB	QC-WAT	12/20/16	50.0	50.0	
2456422	LCS for HBN 184429 [MDIG/6148	LCS	QC-WAT	12/20/16	50.0	50.0	
2195272002S	Finished Table 8BS	MS	WATER	12/20/16	50.0	50.0	
2195272002SD	Finished Table 8BSD	MSD	WATER	12/20/16	50.0	50.0	
2195739001	AC95154-001	SAM	NY NON	12/20/16	50.0	50.0	
2195739002	AC95154-002	SAM	NY NON	12/20/16	50.0	50.0	
2195739004	AC95154-004	SAM	NY NON	12/20/16	50.0	50.0	
2195739005	AC95154-005	SAM	NY NON	12/20/16	50.0	50.0	
2195739006	AC95154-006	SAM	NY NON	12/20/16	50.0	50.0	
2195739007	AC95154-007	SAM	NY NON	12/20/16	50.0	50.0	
2195739008	AC95154-008	SAM	NY NON	12/20/16	50.0	50.0	
2195739009	AC95154-009	SAM	NY NON	12/20/16	50.0	50.0	
2195739003	AC95154-003	SAM	NY NON	12/20/16	25.0	50.0	
2195739003S	AC95154-003S	MS	NY NON	12/20/16	25.0	50.0	
2195739003SD	AC95154-003SD	MSD	NY NON	12/20/16	25.0	50.0	
2195739010	AC95154-010	SAM	NY NON	12/20/16	50.0	50.0	
2195739011	AC95154-011	SAM	NY NON	12/20/16	50.0	50.0	
2195739012	AC95154-012	SAM	NY NON	12/20/16	50.0	50.0	
2195739013	AC95154-013	SAM	NY NON	12/20/16	50.0	50.0	
2195739014	AC95154-014	SAM	NY NON	12/20/16	50.0	50.0	
2195739015	AC95154-015	SAM	NY NON	12/20/16	50.0	50.0	

1631E
14
ANALYSIS RUN LOG

Client: HamptonClarke-Veritech Contract: HFT073|6121303/AC95154

Lab Code: CAS Case No.: _____ SAS No.: _____ SDG No.: HFT-073

Instrument ID Number: HYDRA Method: CV Run Number: 122016

Start Date: 12/20/2016 End Date: 12/20/2016

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S G	A G	N A	T L	V L	Z N	C N		
Std01Rep1	1.00	0816																									X		
Std01Rep2	1.00	0823																									X		
Std01Rep3	1.00	0831																									X		
Std02Rep1	1.00	0844																									X		
Std03Rep1	1.00	0852																									X		
Std04Rep1	1.00	0900																									X		
Std05Rep1	1.00	0907																									X		
Std06Rep1	1.00	0915																									X		
ICV1	1.00	0928																									X		
ICB1	1.00	0936																									X		
2456421	1.00	0956																									X		
2456422	1.00	1004																									X		
ZZZZZ	1.00	1011																											
ZZZZZ	1.00	1019																											
ZZZZZ	1.00	1027																											
2195272002S	1.00	1035																									X		
2195272002SD	1.00	1042																									X		
ZZZZZ	1.00	1050																											
2195739001	1.00	1058																									X		
2195739002	1.00	1105																									X		
CCV1	1.00	1113																									X		
CCB1	1.00	1121																									X		
ZZZZZ	1.00	1134																											
ZZZZZ	1.00	1142																											
ZZZZZ	1.00	1150																											
ZZZZZ	1.00	1157																											
2195739004	1.00	1205																									X		
2195739005	1.00	1213																									X		
2195739006	1.00	1220																									X		
2195739007	1.00	1228																									X		
2195739008	1.00	1236																									X		
2195739009	1.00	1243																									X		
CCV2	1.00	1251																									X		
CCB2	1.00	1259																									X		
2195739003	1.00	1321																									X		
2195739003S	1.00	1329																									X		

1631E
14
ANALYSIS RUN LOG

Client: HamptonClarke-Veritech Contract: HFT073|6121303/AC95154

Lab Code: CAS Case No.: _____ SAS No.: _____ SDG No.: HFT-073

Instrument ID Number: HYDRA Method: CV Run Number: 122016

Start Date: 12/20/2016 End Date: 12/20/2016

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
2195739003SD	1.00	1337																										X	
2195739010	1.00	1344																										X	
2195739011	1.00	1352																										X	
2195739012	1.00	1400																										X	
2195739013	1.00	1407																										X	
2195739014	1.00	1415																										X	
2195739015	1.00	1423																										X	
CCV3	1.00	1430																										X	
CCV4	1.00	1445																										X	
CCB3	1.00	1453																										X	

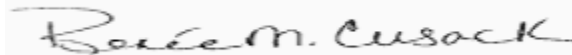
ANALYTICAL REPORT

Job Number: 420-114375-1

Job Description: Port Authority Storm Water

For:
Hampton Clarke
175 W. Route 46, Unit D
Fairfield, NJ 07004

Attention: Mr. David T Wickliffe



Renee Cusack
Lab Director
rcusack@envirotestlaboratories.com
12/22/2016

The test results in this report meet all NELAC requirements unless specified within the case narrative. Pursuant to NELAC, this report may not be reproduced, except in full, without the written approval of the laboratory. EnviroTest Laboratories Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative.

EnviroTest Laboratories, Inc. Certifications and Approvals: NYSDOH 10142, NJDEP NY015, CTDOH PH-0554, EPA NY00049

METHOD SUMMARY

Client: Hampton Clarke

Job Number: 420-114375-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Enterococcus	EnvTest	IDEXX ENTEROLERT	
Nitrogen, Total Kjeldahl (Colorimetric, Semi-Automated Block Digester, AAll)	EnvTest	MCAWW EPA 351.2	
Nitrogen, Total Kjeldahl (Colorimetric, Semi-Automated	EnvTest		MCAWW 351.2
Membrane Filter Technique - Standard Total Coliform Procedure	EnvTest	SM18 SM 9222B-97	
Membrane Filter Technique - Fecal Coliform Procedure	EnvTest	SM18 SM 9222D-97	
Settleable Solids	EnvTest	SM21 SM2540F-97,11	

Lab References:

EnvTest = EnviroTest

Method References:

IDEXX =

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SM21 = "Standard Methods For The Examination Of Water And Wastewater", 21st Edition

METHOD / ANALYST SUMMARY

Client: Hampton Clarke

Job Number: 420-114375-1

Method	Analyst	Analyst ID
IDEXX ENTEROLERT	O'Driscoll, Kate	KO
MCAWW EPA 351.2	Osborne, Amy	AO
SM18 SM 9222B-97	O'Driscoll, Kate	KO
SM18 SM 9222D-97	O'Driscoll, Kate	KO
SM21 SM2540F-97,11	Tramantano, Matt	MT

SAMPLE SUMMARY

Client: Hampton Clarke

Job Number: 420-114375-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
420-114375-1	Outfall 002	Water	12/12/2016 0940	12/12/2016 1600
420-114375-2	Outfall 003	Water	12/12/2016 0950	12/12/2016 1600
420-114375-3	Outfall 005	Water	12/12/2016 1045	12/12/2016 1600
420-114375-4	Outfall 006	Water	12/12/2016 1055	12/12/2016 1600
420-114375-5	Outfall 010	Water	12/12/2016 0855	12/12/2016 1600
420-114375-6	Outfall 001	Water	12/12/2016 1035	12/12/2016 1600
420-114375-7	Outfall 004	Water	12/12/2016 1000	12/12/2016 1600
420-114375-8	Outfall 007	Water	12/12/2016 1135	12/12/2016 1600
420-114375-9	Outfall 008	Water	12/12/2016 0835	12/12/2016 1600
420-114375-10	Outfall 009	Water	12/12/2016 0840	12/12/2016 1600
420-114375-11	Outfall 011	Water	12/12/2016 1025	12/12/2016 1600
420-114375-12	Outfall 012	Water	12/12/2016 1110	12/12/2016 1600
420-114375-13	Outfall 013	Water	12/12/2016 1145	12/12/2016 1600
420-114375-14	Outfall 014	Water	12/12/2016 1230	12/12/2016 1600
420-114375-15	Outfall 015	Water	12/12/2016 1100	12/12/2016 1600

SAMPLE RESULTS

Mr. David T Wickliffe
 Hampton Clarke
 175 W. Route 46, Unit D
 Fairfield, NJ 07004

Job Number: 420-114375-1

Client Sample ID: Outfall 002
Lab Sample ID: 420-114375-1

Date Sampled: 12/12/2016 0940
 Date Received: 12/12/2016 1600
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: ENTEROLERT Enterococcus group bacteria	<1.00	MPN/100mL	1.00	1.0
Method: EPA 351.2 Prep Method: 351.2 TKN as N	<1.00	mg/L	1.00	1.0
Method: SM2540F-97,11 Settleable Solids	<0.100	mL/L	0.100	1.0
Method: SM 9222B-97 Coliform, Total	50.0	CFU/100mL	10.0	10
Method: SM 9222D-97 Coliform, Fecal	30.0	CFU/100mL	10.0	10

Mr. David T Wickliffe
 Hampton Clarke
 175 W. Route 46, Unit D
 Fairfield, NJ 07004

Job Number: 420-114375-1

Client Sample ID: Outfall 003
Lab Sample ID: 420-114375-2

Date Sampled: 12/12/2016 0950
 Date Received: 12/12/2016 1600
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: ENTEROLERT Enterococcus group bacteria	66.3	MPN/100mL	1.00	1.0
Method: EPA 351.2 Prep Method: 351.2 TKN as N	<1.00	mg/L	1.00	1.0
Method: SM2540F-97,11 Settleable Solids	<0.100	mL/L	0.100	1.0
Method: SM 9222B-97 Coliform, Total	370	CFU/100mL	10.0	10
Method: SM 9222D-97 Coliform, Fecal	270	CFU/100mL	10.0	10

Mr. David T Wickliffe
 Hampton Clarke
 175 W. Route 46, Unit D
 Fairfield, NJ 07004

Job Number: 420-114375-1

Client Sample ID: Outfall 005
Lab Sample ID: 420-114375-3

Date Sampled: 12/12/2016 1045
 Date Received: 12/12/2016 1600
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: ENTEROLERT Enterococcus group bacteria	770	MPN/100mL	1.00	1.0
Method: EPA 351.2 Prep Method: 351.2 TKN as N	<1.00	mg/L	1.00	1.0
Method: SM2540F-97,11 Settleable Solids	<0.100	mL/L	0.100	1.0
Method: SM 9222B-97 Coliform, Total	830	CFU/100mL	10.0	10
Method: SM 9222D-97 Coliform, Fecal	260	CFU/100mL	10.0	10

Mr. David T Wickliffe
 Hampton Clarke
 175 W. Route 46, Unit D
 Fairfield, NJ 07004

Job Number: 420-114375-1

Client Sample ID: Outfall 006
Lab Sample ID: 420-114375-4

Date Sampled: 12/12/2016 1055
 Date Received: 12/12/2016 1600
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: ENTEROLERT Enterococcus group bacteria	59.1	MPN/100mL	1.00	1.0
Method: EPA 351.2 Prep Method: 351.2 TKN as N	<1.00	mg/L	1.00	1.0
Method: SM2540F-97,11 Settleable Solids	<0.100	mL/L	0.100	1.0
Method: SM 9222B-97 Coliform, Total	150	CFU/100mL	10.0	10
Method: SM 9222D-97 Coliform, Fecal	40.0	CFU/100mL	10.0	10

Mr. David T Wickliffe
 Hampton Clarke
 175 W. Route 46, Unit D
 Fairfield, NJ 07004

Job Number: 420-114375-1

Client Sample ID: Outfall 010
Lab Sample ID: 420-114375-5

Date Sampled: 12/12/2016 0855
 Date Received: 12/12/2016 1600
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: ENTEROLERT Enterococcus group bacteria	77.2	MPN/100mL	1.00	1.0
Method: EPA 351.2 Prep Method: 351.2 TKN as N	<1.00	mg/L	1.00	1.0
Method: SM2540F-97,11 Settleable Solids	<0.100	mL/L	0.100	1.0
Method: SM 9222B-97 Coliform, Total	100	CFU/100mL	10.0	10
Method: SM 9222D-97 Coliform, Fecal	60.0	CFU/100mL	10.0	10

Mr. David T Wickliffe
 Hampton Clarke
 175 W. Route 46, Unit D
 Fairfield, NJ 07004

Job Number: 420-114375-1

Client Sample ID: Outfall 001
Lab Sample ID: 420-114375-6

Date Sampled: 12/12/2016 1035
 Date Received: 12/12/2016 1600
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: ENTEROLERT Enterococcus group bacteria	39.5	MPN/100mL	1.00	1.0
Method: EPA 351.2 Prep Method: 351.2 TKN as N	<1.00	mg/L	1.00	1.0
Method: SM2540F-97,11 Settleable Solids	<0.100	mL/L	0.100	1.0
Method: SM 9222B-97 Coliform, Total	110	CFU/100mL	10.0	10
Method: SM 9222D-97 Coliform, Fecal	80.0	CFU/100mL	10.0	10

Mr. David T Wickliffe
 Hampton Clarke
 175 W. Route 46, Unit D
 Fairfield, NJ 07004

Job Number: 420-114375-1

Client Sample ID: Outfall 004
Lab Sample ID: 420-114375-7

Date Sampled: 12/12/2016 1000
 Date Received: 12/12/2016 1600
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: ENTEROLERT Enterococcus group bacteria	23.8	MPN/100mL	12/12/2016 1610 1.00	1.0
Method: EPA 351.2 Prep Method: 351.2 TKN as N	<1.00	mg/L	Date Analyzed: 12/20/2016 1327 Date Prepared: 12/19/2016 0715 1.00	1.0
Method: SM2540F-97,11 Settleable Solids	<0.100	mL/L	Date Analyzed: 12/13/2016 1025 0.100	1.0
Method: SM 9222B-97 Coliform, Total	220	CFU/100mL	Date Analyzed: 12/12/2016 1620 10.0	10
Method: SM 9222D-97 Coliform, Fecal	190	CFU/100mL	Date Analyzed: 12/12/2016 1620 10.0	10

Mr. David T Wickliffe
 Hampton Clarke
 175 W. Route 46, Unit D
 Fairfield, NJ 07004

Job Number: 420-114375-1

Client Sample ID: Outfall 007
Lab Sample ID: 420-114375-8

Date Sampled: 12/12/2016 1135
 Date Received: 12/12/2016 1600
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: ENTEROLERT Enterococcus group bacteria	2420	MPN/100mL	12/12/2016 1610 1.00	1.0
Method: EPA 351.2 Prep Method: 351.2 TKN as N	<1.00	mg/L	Date Analyzed: 12/20/2016 1328 Date Prepared: 12/19/2016 0715 1.00	1.0
Method: SM2540F-97,11 Settleable Solids	<0.100	mL/L	Date Analyzed: 12/13/2016 1025 0.100	1.0
Method: SM 9222B-97 Coliform, Total	2200	CFU/100mL	Date Analyzed: 12/12/2016 1620 100	100
Method: SM 9222D-97 Coliform, Fecal	420	CFU/100mL	Date Analyzed: 12/12/2016 1620 10.0	10

Mr. David T Wickliffe
 Hampton Clarke
 175 W. Route 46, Unit D
 Fairfield, NJ 07004

Job Number: 420-114375-1

Client Sample ID: Outfall 008
Lab Sample ID: 420-114375-9

Date Sampled: 12/12/2016 0835
 Date Received: 12/12/2016 1600
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: ENTEROLERT Enterococcus group bacteria	1300	MPN/100mL	1.00	1.0
Method: EPA 351.2 Prep Method: 351.2 TKN as N	<1.00	mg/L	1.00	1.0
Method: SM2540F-97,11 Settleable Solids	<0.100	mL/L	0.100	1.0
Method: SM 9222B-97 Coliform, Total	1800	CFU/100mL	100	100
Method: SM 9222D-97 Coliform, Fecal	1100	CFU/100mL	100	100

Mr. David T Wickliffe
 Hampton Clarke
 175 W. Route 46, Unit D
 Fairfield, NJ 07004

Job Number: 420-114375-1

Client Sample ID: Outfall 009
Lab Sample ID: 420-114375-10

Date Sampled: 12/12/2016 0840
 Date Received: 12/12/2016 1600
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: ENTEROLERT Enterococcus group bacteria	132	MPN/100mL	1.00	1.0
Method: EPA 351.2 Prep Method: 351.2 TKN as N	<1.00	mg/L	1.00	1.0
Method: SM2540F-97,11 Settleable Solids	<0.100	mL/L	0.100	1.0
Method: SM 9222B-97 Coliform, Total	330	CFU/100mL	10.0	10
Method: SM 9222D-97 Coliform, Fecal	290	CFU/100mL	10.0	10

Mr. David T Wickliffe
 Hampton Clarke
 175 W. Route 46, Unit D
 Fairfield, NJ 07004

Job Number: 420-114375-1

Client Sample ID: Outfall 011
Lab Sample ID: 420-114375-11

Date Sampled: 12/12/2016 1025
 Date Received: 12/12/2016 1600
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: ENTEROLERT Enterococcus group bacteria	6.00	MPN/100mL	Date Analyzed: 12/12/2016 1610 1.00	1.0
Method: EPA 351.2 Prep Method: 351.2 TKN as N	<1.00	mg/L	Date Analyzed: 12/20/2016 1331 Date Prepared: 12/19/2016 0715 1.00	1.0
Method: SM2540F-97,11 Settleable Solids	<0.100	mL/L	Date Analyzed: 12/13/2016 1025 0.100	1.0
Method: SM 9222B-97 Coliform, Total	180	CFU/100mL	Date Analyzed: 12/12/2016 1639 10.0	10
Method: SM 9222D-97 Coliform, Fecal	10.0	CFU/100mL	Date Analyzed: 12/12/2016 1639 10.0	10

Mr. David T Wickliffe
 Hampton Clarke
 175 W. Route 46, Unit D
 Fairfield, NJ 07004

Job Number: 420-114375-1

Client Sample ID: Outfall 012
Lab Sample ID: 420-114375-12

Date Sampled: 12/12/2016 1110
 Date Received: 12/12/2016 1600
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: ENTEROLERT Enterococcus group bacteria	1200	MPN/100mL	1.00	1.0
Method: EPA 351.2 Prep Method: 351.2 TKN as N	<1.00	mg/L	1.00	1.0
Method: SM2540F-97,11 Settleable Solids	<0.100	mL/L	0.100	1.0
Method: SM 9222B-97 Coliform, Total	230	CFU/100mL	10.0	10
Method: SM 9222D-97 Coliform, Fecal	120	CFU/100mL	10.0	10

Mr. David T Wickliffe
 Hampton Clarke
 175 W. Route 46, Unit D
 Fairfield, NJ 07004

Job Number: 420-114375-1

Client Sample ID: Outfall 013
Lab Sample ID: 420-114375-13

Date Sampled: 12/12/2016 1145
 Date Received: 12/12/2016 1600
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: ENTEROLERT Enterococcus group bacteria	>2419.2	MPN/100mL	12/12/2016 1610 1.00	1.0
Method: EPA 351.2 Prep Method: 351.2 TKN as N	<1.00	mg/L	Date Analyzed: 12/20/2016 1333 Date Prepared: 12/19/2016 0715 1.00	1.0
Method: SM2540F-97,11 Settleable Solids	<0.100	mL/L	Date Analyzed: 12/13/2016 1025 0.100	1.0
Method: SM 9222B-97 Coliform, Total	1500	CFU/100mL	Date Analyzed: 12/12/2016 1639 100	100
Method: SM 9222D-97 Coliform, Fecal	510	CFU/100mL	Date Analyzed: 12/12/2016 1639 10.0	10

Mr. David T Wickliffe
 Hampton Clarke
 175 W. Route 46, Unit D
 Fairfield, NJ 07004

Job Number: 420-114375-1

Client Sample ID: Outfall 014
Lab Sample ID: 420-114375-14

Date Sampled: 12/12/2016 1230
 Date Received: 12/12/2016 1600
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: ENTEROLERT Enterococcus group bacteria	326	MPN/100mL	1.00	1.0
Method: EPA 351.2 Prep Method: 351.2 TKN as N	<1.00	mg/L	1.00	1.0
Method: SM2540F-97,11 Settleable Solids	<0.100	mL/L	0.100	1.0
Method: SM 9222B-97 Coliform, Total	240	CFU/100mL	10.0	10
Method: SM 9222D-97 Coliform, Fecal	130	CFU/100mL	10.0	10

Mr. David T Wickliffe
 Hampton Clarke
 175 W. Route 46, Unit D
 Fairfield, NJ 07004

Job Number: 420-114375-1

Client Sample ID: Outfall 015
Lab Sample ID: 420-114375-15

Date Sampled: 12/12/2016 1100
 Date Received: 12/12/2016 1600
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: ENTEROLERT Enterococcus group bacteria	74.3	MPN/100mL	1.00	1.0
Method: EPA 351.2 Prep Method: 351.2 TKN as N	<1.00	mg/L	1.00	1.0
Method: SM2540F-97,11 Settleable Solids	<0.100	mL/L	0.100	1.0
Method: SM 9222B-97 Coliform, Total	320	CFU/100mL	10.0	10
Method: SM 9222D-97 Coliform, Fecal	270	CFU/100mL	10.0	10

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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Definitions and Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%R	Percent Recovery
DL, RA, RE	Indicates a Dilution, Reanalysis or Reextraction.
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND	Not detected at the reporting limit (or MDL if shown).
QC	Quality Control
RL	Reporting Limit - the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD	Relative Percent Difference - a measure of the relative difference between two points.

QUALITY CONTROL RESULTS

Quality Control Results

Client: Hampton Clarke

Job Number: 420-114375-1

Method Blank - Batch: 420-106331

Method: EPA 351.2
Preparation: 351.2

Lab Sample ID: MB 420-106331/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/20/2016 1312
Date Prepared: 12/19/2016 0715

Analysis Batch: 420-106361
Prep Batch: 420-106331
Units: mg/L

Instrument ID: Lachat Quikchem 8500 FIA
Lab File ID: OM_12-20-2016_12-57-41PM
Initial Weight/Volume: mL
Final Weight/Volume: 25 mL

Analyte	Result	Qual	RL
TKN as N	<1.00		1.00

Lab Control Spike - Batch: 420-106331

Method: EPA 351.2
Preparation: 351.2

Lab Sample ID: LCS 420-106331/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/20/2016 1313
Date Prepared: 12/19/2016 0715

Analysis Batch: 420-106361
Prep Batch: 420-106331
Units: mg/L

Instrument ID: Lachat Quikchem 8500 FIA
Lab File ID: OM_12-20-2016_12-57-41PM
Initial Weight/Volume: mL
Final Weight/Volume: 25 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
TKN as N	10.0	10.7	107	66 - 139	

Matrix Spike/

Method: EPA 351.2
Preparation: 351.2

Matrix Spike Duplicate Recovery Report - Batch: 420-106331

MS Lab Sample ID: 420-114375-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/20/2016 1317
Date Prepared: 12/19/2016 0715

Analysis Batch: 420-106361
Prep Batch: 420-106331

Instrument ID: Lachat Quikchem 8500 FIA
Lab File ID: OM_12-20-2016_12-57-41P
Initial Weight/Volume: mL
Final Weight/Volume: 25 mL

MSD Lab Sample ID: 420-114375-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/20/2016 1318
Date Prepared: 12/19/2016 0715

Analysis Batch: 420-106361
Prep Batch: 420-106331

Instrument ID: Lachat Quikchem 8500 FIA
Lab File ID: OM_12-20-2016_12-57-41PM
Initial Weight/Volume: mL
Final Weight/Volume: 25 mL

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
TKN as N	124	127	50 - 150	3	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Hampton Clarke

Job Number: 420-114375-1

Method Blank - Batch: 420-106173

Lab Sample ID: MB 420-106173/1
Client Matrix: Water
Dilution: 10
Date Analyzed: 12/12/2016 1600
Date Prepared: N/A

Analysis Batch: 420-106173
Prep Batch: N/A
Units: CFU/100mL

Method: SM 9222B-97 Preparation: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:
Injection Volume:

Analyte	Result	Qual	RL
Coliform, Total	<10.0		10.0

Method Blank - Batch: 420-106173

Lab Sample ID: MB 420-106173/9
Client Matrix: Water
Dilution: 10
Date Analyzed: 12/12/2016 1620
Date Prepared: N/A

Analysis Batch: 420-106173
Prep Batch: N/A
Units: CFU/100mL

Method: SM 9222B-97 Preparation: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: mL
Final Weight/Volume: mL
Injection Volume:

Analyte	Result	Qual	RL
Coliform, Total	<10.0		10.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Hampton Clarke

Job Number: 420-114375-1

Method Blank - Batch: 420-106175

Lab Sample ID: MB 420-106175/1
Client Matrix: Water
Dilution: 10
Date Analyzed: 12/12/2016 1600
Date Prepared: N/A

Analysis Batch: 420-106175
Prep Batch: N/A
Units: CFU/100mL

Method: SM 9222D-97
Preparation: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:
Injection Volume:

Analyte	Result	Qual	RL
Coliform, Fecal	<10.0		10.0

Method Blank - Batch: 420-106175

Lab Sample ID: MB 420-106175/11
Client Matrix: Water
Dilution: 10
Date Analyzed: 12/12/2016 1620
Date Prepared: N/A

Analysis Batch: 420-106175
Prep Batch: N/A
Units: CFU/100mL

Method: SM 9222D-97
Preparation: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: mL
Final Weight/Volume: mL
Injection Volume:

Analyte	Result	Qual	RL
Coliform, Fecal	<10.0		10.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client Information		Lab PM: Renee Cusack		Deliverable Type: Level I, Level II, NYS ASP Cat B EDD (Specify):					
Company: Hampton Clarke	Address: 175 W. Route 46, Unit D	Sampler: Renee Cusack	Job #: <i>1072</i>	Page: <i>1 of 2</i>	Client ID (Lab ID): <i>RM</i>				
City: Fairfield	State, Zip: New Jersey, 07004	Phone:	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - H2SO4 F - MeOH G - NH4CL H - Ascorbic Acid I - Ice J - DI Water K - Sodium Thiosulfate Other:						
PO #:	PWS #:	Project #:	Analysis Requested						
Additional Contacts:		Due Date Requested:	Total Number of containers						
Sample Identification	Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (DW=drinking water, W=water, S=solid, O=waste/oil)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Special Instructions/Note:
OUTFALL 002		12/12/16	0940	G	W			SEMI-SOLUBLE SOLIDS	
OUTFALL 003			0950					TKN	
OUTFALL 005			1040	1045				ENTIRE AREA	
OUTFALL 006			1055					ENTIRE AREA	
OUTFALL 010			0855					ENTIRE AREA	
OUTFALL 001			1035					ENTIRE AREA	
OUTFALL 004			1000					ENTIRE AREA	
OUTFALL 007			1135					ENTIRE AREA	
OUTFALL 008			0835					ENTIRE AREA	
OUTFALL 009			0840					ENTIRE AREA	
OUTFALL 011			1015					ENTIRE AREA	

Container Code: P=Plastic, A=Amber, V=Vial, G=Glass, B=Bacteria, C=Cube, O=Other, E=Encore, D=BOD Bottle
 Size Code: 1=Liter, 2=250 mL, 3=125 mL, 4=40 mL, 5=Gallon, 6=Half Gallon, 7=Other
 Preservation Added Upon Receipt: _____ Date: _____
 Manufacturer/Lot #: _____

Relinquished by: *Renee Cusack* Date/Time: 12/12/16 @ 1400 Company: TRC
 Relinquished by: *Renee Cusack* Date/Time: 12/12/16 13:00 Company: FTR
 Relinquished by: _____ Date/Time: _____ Company: _____
 Received by: *[Signature]* Date/Time: 12/12/16 18:45 Company: _____
 Received by: *[Signature]* Date/Time: 12/12/16 13:00 Company: _____
 Received by: *[Signature]* Date/Time: 12/12/16 13:00 Company: _____
 Cooler Temperature(s) °C/IR GUN #: 1.6 °C / 3

114375

2 of 2

Client Information Company: Hampton Clarke Address: 175 W. Route 46, Unit D City: Fairfield State, Zip: New Jersey, 07004 PO #: _____ PWS #: _____ Project Name: _____ Site: _____		Lab PM: Renee Cusack E-Mail: _____ Deliverable Type: Level I, Level II, NYS ASP Cat B EDD (Specify): _____		JOB #: Page: _____ of _____	
Due Date Requested: TAT Requested (days): Additional Contacts:		Analysis Requested			
Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (DW=drinking water, W=water, S=solid, O=waste/oil)	Preservation Code:
OUTFALL 012	12/12/16	1110	G	W	W
OUTFALL 013		1145	G		
OUTFALL 014		1230	G		
OUTFALL 015		1100	G		
Perform MS/MSD (Yes or No)		Field Filtered Sample (Yes or No)		Total Number of Containers	
X		X		X	
Special Instructions/Note:		Other:			
Container Code: P=Plastic, A=Amber, V=Vial, G=Glass, B=Bacteria, C=Cube, O=Other, E=Encore, D=BOD Bottle		Size Code: 1=Liter, 2=250 mL, 3=125 mL, 4=40 mL, 5=Gallon, 6=Half Gallon, 7=Other			
Relinquished by: _____ Date/Time: 12/12/16		Relinquished by: _____ Date/Time: 12/12/16		Relinquished by: _____ Date/Time: 12/12/16	
Relinquished by: _____ Date/Time: 12/12/16		Relinquished by: _____ Date/Time: 12/12/16		Relinquished by: _____ Date/Time: 12/12/16	
Relinquished by: _____ Date/Time: 12/12/16		Relinquished by: _____ Date/Time: 12/12/16		Relinquished by: _____ Date/Time: 12/12/16	
Custody Seal No.: _____ A Yes Δ No		Custody Seals Intact: _____ Yes Δ No		Cooler Temperature(s) °C/IR GUN #: 1.6°C / 3	

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Hampton Clarke

Job Number: 420-114375-1

Login Number: 114375

Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	1.6 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C	True	
If false, was sample received on ice within 6 hours of collection.	NA	
Based on above criteria cooler temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	NA	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

TestAmerica Job ID: 320-24317-1
Client Project/Site: NY Outfall Sampling (PFAS)

For:
TRC Environmental Corporation
1430 Broadway, 10th FL
New York, New York 10018-3308

Attn: Ms. Brianne Francese



Authorized for release by:
1/4/2017 10:33:57 AM

David Alltucker, Project Manager I
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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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3

4

5

6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	9
Isotope Dilution Summary	17
QC Sample Results	18
QC Association Summary	20
Lab Chronicle	22
Certification Summary	27
Method Summary	28
Sample Summary	29
Chain of Custody	30
Receipt Checklists	33

Definitions/Glossary

Client: TRC Environmental Corporation
Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: TRC Environmental Corporation
Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Job ID: 320-24317-1

Laboratory: TestAmerica Sacramento

Narrative

Job Narrative 320-24317-1

Receipt

The samples were received on 12/13/2016 10:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.8° C.

Receipt Exceptions

None of the sample labels for the following samples included sample dates or sample times on the client labels: OUTFALL 001 (320-24317-1), OUTFALL 002 (320-24317-2), OUTFALL 003 (320-24317-3), OUTFALL 004 (320-24317-4), OUTFALL 005 (320-24317-5), OUTFALL 006 (320-24317-6), OUTFALL 007 (320-24317-7), OUTFALL 008 (320-24317-8), OUTFALL 009 (320-24317-9), OUTFALL 010 (320-24317-10), OUTFALL 011 (320-24317-11), OUTFALL 012 (320-24317-12), OUTFALL 013 (320-24317-13), OUTFALL 014 (320-24317-14), OUTFALL 015 (320-24317-15), STREAM #7 (320-24317-16), STREAM #8 (320-24317-17), STREAM #9 (320-24317-18), STREAM #10 (320-24317-19), MANHOLE #1 (320-24317-20), MANHOLE #2 (320-24317-21), MANHOLE #3 (320-24317-22), MANHOLE #4 (320-24317-23) and MANHOLE #6 (320-24317-24).

LCMS

Method(s) 537 (modified): The following sample was diluted to bring the concentration of target analytes within the calibration range: MANHOLE #3 (320-24317-22) and MANHOLE #6 (320-24317-24). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-143247.

Method(s) 3535: Due to the excessive amount of sediment in the sample bottles, the aqueous portion of these samples was decanted to new bottles prior to spiking and the extraction. OUTFALL 001 (320-24317-1), OUTFALL 004 (320-24317-4), OUTFALL 007 (320-24317-7), OUTFALL 008 (320-24317-8), OUTFALL 009 (320-24317-9), OUTFALL 010 (320-24317-10), OUTFALL 011 (320-24317-11) and OUTFALL 012 (320-24317-12)

Method(s) 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-143405.

Method(s) 3535: The aqueous portion of the following samples was decanted prior to spiking and extraction due to excess sediment: OUTFALL 013 (320-24317-13), OUTFALL 014 (320-24317-14), OUTFALL 015 (320-24317-15), STREAM #7 (320-24317-16), STREAM #8 (320-24317-17), STREAM #9 (320-24317-18), STREAM #10 (320-24317-19), MANHOLE #1 (320-24317-20), MANHOLE #2 (320-24317-21), MANHOLE #3 (320-24317-22), MANHOLE #4 (320-24317-23) and MANHOLE #6 (320-24317-24)

Method(s) 3535: The following samples were centrifuged prior to spiking and extraction: OUTFALL 013 (320-24317-13), OUTFALL 015 (320-24317-15), STREAM #8 (320-24317-17), STREAM #9 (320-24317-18) and STREAM #10 (320-24317-19)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation
Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Client Sample ID: OUTFALL 001

Lab Sample ID: 320-24317-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	260		2.0	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.5		2.0	0.86	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.0		2.0	1.3	ng/L	1		537 (modified)	Total/NA

Client Sample ID: OUTFALL 002

Lab Sample ID: 320-24317-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	87		2.0	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	150		2.0	0.86	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	160		2.0	1.3	ng/L	1		537 (modified)	Total/NA

Client Sample ID: OUTFALL 003

Lab Sample ID: 320-24317-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	18		2.1	0.77	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	41		2.1	0.90	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	110		2.1	1.3	ng/L	1		537 (modified)	Total/NA

Client Sample ID: OUTFALL 004

Lab Sample ID: 320-24317-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	8.4		1.9	0.71	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	17		1.9	0.83	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	31		1.9	1.2	ng/L	1		537 (modified)	Total/NA

Client Sample ID: OUTFALL 005

Lab Sample ID: 320-24317-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	6.0		1.9	0.72	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	17		1.9	0.84	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	7.5		1.9	1.2	ng/L	1		537 (modified)	Total/NA

Client Sample ID: OUTFALL 006

Lab Sample ID: 320-24317-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	53		1.9	0.71	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	54		1.9	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	12		1.9	1.2	ng/L	1		537 (modified)	Total/NA

Client Sample ID: OUTFALL 007

Lab Sample ID: 320-24317-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	15		1.9	0.72	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	39		1.9	0.83	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	170		1.9	1.2	ng/L	1		537 (modified)	Total/NA

Client Sample ID: OUTFALL 008

Lab Sample ID: 320-24317-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	14		2.1	0.77	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

Detection Summary

Client: TRC Environmental Corporation
 Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Client Sample ID: OUTFALL 008 (Continued)

Lab Sample ID: 320-24317-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	89		2.1	0.89	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	280		2.1	1.3	ng/L	1		537 (modified)	Total/NA

Client Sample ID: OUTFALL 009

Lab Sample ID: 320-24317-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	15		2.0	0.73	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	37		2.0	0.85	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	100		2.0	1.2	ng/L	1		537 (modified)	Total/NA

Client Sample ID: OUTFALL 010

Lab Sample ID: 320-24317-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	220		2.1	0.77	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1500		41	18	ng/L	20		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3300		41	26	ng/L	20		537 (modified)	Total/NA

Client Sample ID: OUTFALL 011

Lab Sample ID: 320-24317-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	3.6		2.0	0.76	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	5.2		2.0	0.88	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.5		2.0	1.3	ng/L	1		537 (modified)	Total/NA

Client Sample ID: OUTFALL 012

Lab Sample ID: 320-24317-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	11		2.0	0.76	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	26		2.0	0.89	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	84		2.0	1.3	ng/L	1		537 (modified)	Total/NA

Client Sample ID: OUTFALL 013

Lab Sample ID: 320-24317-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	27		2.0	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	78		2.0	0.86	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	120		2.0	1.3	ng/L	1		537 (modified)	Total/NA

Client Sample ID: OUTFALL 014

Lab Sample ID: 320-24317-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	41		2.2	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	180		2.2	0.96	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	690		11	7.0	ng/L	5		537 (modified)	Total/NA

Client Sample ID: OUTFALL 015

Lab Sample ID: 320-24317-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	9.0		2.0	0.73	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.7		2.0	1.3	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

Detection Summary

Client: TRC Environmental Corporation
 Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Client Sample ID: STREAM #7

Lab Sample ID: 320-24317-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	2.2		2.0	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.3	J	2.0	0.86	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.1		2.0	1.3	ng/L	1		537 (modified)	Total/NA

Client Sample ID: STREAM #8

Lab Sample ID: 320-24317-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	2.1		2.0	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.3	J	2.0	0.86	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.1		2.0	1.3	ng/L	1		537 (modified)	Total/NA

Client Sample ID: STREAM #9

Lab Sample ID: 320-24317-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	2.6		2.0	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.3	J	2.0	0.86	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.7	J	2.0	1.3	ng/L	1		537 (modified)	Total/NA

Client Sample ID: STREAM #10

Lab Sample ID: 320-24317-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	12		2.0	0.75	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	6.6		2.0	0.87	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	9.0		2.0	1.3	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MANHOLE #1

Lab Sample ID: 320-24317-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	1.4	J	2.0	0.73	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.5		2.0	0.85	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	11		2.0	1.3	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MANHOLE #2

Lab Sample ID: 320-24317-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	4.9		2.0	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	36		2.0	0.86	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	49		2.0	1.3	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MANHOLE #3

Lab Sample ID: 320-24317-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	62		2.4	0.89	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	140		2.4	1.0	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	530		12	7.6	ng/L	5		537 (modified)	Total/NA

Client Sample ID: MANHOLE #4

Lab Sample ID: 320-24317-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	15		2.2	0.81	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

Detection Summary

Client: TRC Environmental Corporation
Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Client Sample ID: MANHOLE #4 (Continued)

Lab Sample ID: 320-24317-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	34		2.2	0.94	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	54		2.2	1.4	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MANHOLE #6

Lab Sample ID: 320-24317-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	300		2.0	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - DL	1300		39	17	ng/L	20		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	3300		39	25	ng/L	20		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Client Sample ID: OUTFALL 001

Date Collected: 12/12/16 10:30

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-1

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	260		2.0	0.74	ng/L		12/21/16 08:38	12/28/16 21:36	1
Perfluorohexanesulfonic acid (PFHxS)	2.5		2.0	0.86	ng/L		12/21/16 08:38	12/28/16 21:36	1
Perfluorooctanesulfonic acid (PFOS)	6.0		2.0	1.3	ng/L		12/21/16 08:38	12/28/16 21:36	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	46		25 - 150				12/21/16 08:38	12/28/16 21:36	1
18O2 PFHxS	98		25 - 150				12/21/16 08:38	12/28/16 21:36	1
13C4 PFOS	121		25 - 150				12/21/16 08:38	12/28/16 21:36	1

Client Sample ID: OUTFALL 002

Date Collected: 12/12/16 09:30

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-2

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	87		2.0	0.74	ng/L		12/21/16 08:38	12/28/16 21:44	1
Perfluorohexanesulfonic acid (PFHxS)	150		2.0	0.86	ng/L		12/21/16 08:38	12/28/16 21:44	1
Perfluorooctanesulfonic acid (PFOS)	160		2.0	1.3	ng/L		12/21/16 08:38	12/28/16 21:44	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	66		25 - 150				12/21/16 08:38	12/28/16 21:44	1
18O2 PFHxS	97		25 - 150				12/21/16 08:38	12/28/16 21:44	1
13C4 PFOS	108		25 - 150				12/21/16 08:38	12/28/16 21:44	1

Client Sample ID: OUTFALL 003

Date Collected: 12/12/16 09:45

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-3

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	18		2.1	0.77	ng/L		12/21/16 08:38	12/28/16 21:51	1
Perfluorohexanesulfonic acid (PFHxS)	41		2.1	0.90	ng/L		12/21/16 08:38	12/28/16 21:51	1
Perfluorooctanesulfonic acid (PFOS)	110		2.1	1.3	ng/L		12/21/16 08:38	12/28/16 21:51	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	100		25 - 150				12/21/16 08:38	12/28/16 21:51	1
18O2 PFHxS	109		25 - 150				12/21/16 08:38	12/28/16 21:51	1
13C4 PFOS	120		25 - 150				12/21/16 08:38	12/28/16 21:51	1

Client Sample ID: OUTFALL 004

Date Collected: 12/12/16 09:55

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-4

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	8.4		1.9	0.71	ng/L		12/21/16 08:38	12/28/16 21:59	1
Perfluorohexanesulfonic acid (PFHxS)	17		1.9	0.83	ng/L		12/21/16 08:38	12/28/16 21:59	1

TestAmerica Sacramento

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Client Sample ID: OUTFALL 004

Date Collected: 12/12/16 09:55

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-4

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	31		1.9	1.2	ng/L		12/21/16 08:38	12/28/16 21:59	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	90		25 - 150				12/21/16 08:38	12/28/16 21:59	1
18O2 PFHxS	117		25 - 150				12/21/16 08:38	12/28/16 21:59	1
13C4 PFOS	122		25 - 150				12/21/16 08:38	12/28/16 21:59	1

Client Sample ID: OUTFALL 005

Date Collected: 12/12/16 10:40

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-5

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	6.0		1.9	0.72	ng/L		12/21/16 08:38	12/28/16 22:06	1
Perfluorohexanesulfonic acid (PFHxS)	17		1.9	0.84	ng/L		12/21/16 08:38	12/28/16 22:06	1
Perfluorooctanesulfonic acid (PFOS)	7.5		1.9	1.2	ng/L		12/21/16 08:38	12/28/16 22:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	108		25 - 150				12/21/16 08:38	12/28/16 22:06	1
18O2 PFHxS	113		25 - 150				12/21/16 08:38	12/28/16 22:06	1
13C4 PFOS	123		25 - 150				12/21/16 08:38	12/28/16 22:06	1

Client Sample ID: OUTFALL 006

Date Collected: 12/12/16 10:50

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-6

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	53		1.9	0.71	ng/L		12/21/16 08:38	12/28/16 22:14	1
Perfluorohexanesulfonic acid (PFHxS)	54		1.9	0.82	ng/L		12/21/16 08:38	12/28/16 22:14	1
Perfluorooctanesulfonic acid (PFOS)	12		1.9	1.2	ng/L		12/21/16 08:38	12/28/16 22:14	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	95		25 - 150				12/21/16 08:38	12/28/16 22:14	1
18O2 PFHxS	119		25 - 150				12/21/16 08:38	12/28/16 22:14	1
13C4 PFOS	131		25 - 150				12/21/16 08:38	12/28/16 22:14	1

Client Sample ID: OUTFALL 007

Date Collected: 12/12/16 11:30

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-7

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	15		1.9	0.72	ng/L		12/21/16 08:38	12/28/16 22:36	1
Perfluorohexanesulfonic acid (PFHxS)	39		1.9	0.83	ng/L		12/21/16 08:38	12/28/16 22:36	1
Perfluorooctanesulfonic acid (PFOS)	170		1.9	1.2	ng/L		12/21/16 08:38	12/28/16 22:36	1

TestAmerica Sacramento

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Client Sample ID: OUTFALL 007

Date Collected: 12/12/16 11:30

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-7

Matrix: Water

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	104		25 - 150	12/21/16 08:38	12/28/16 22:36	1
18O2 PFHxS	105		25 - 150	12/21/16 08:38	12/28/16 22:36	1
13C4 PFOS	110		25 - 150	12/21/16 08:38	12/28/16 22:36	1

Client Sample ID: OUTFALL 008

Date Collected: 12/12/16 08:35

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-8

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	14		2.1	0.77	ng/L		12/21/16 08:38	12/28/16 22:44	1
Perfluorohexanesulfonic acid (PFHxS)	89		2.1	0.89	ng/L		12/21/16 08:38	12/28/16 22:44	1
Perfluorooctanesulfonic acid (PFOS)	280		2.1	1.3	ng/L		12/21/16 08:38	12/28/16 22:44	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	100		25 - 150	12/21/16 08:38	12/28/16 22:44	1
18O2 PFHxS	116		25 - 150	12/21/16 08:38	12/28/16 22:44	1
13C4 PFOS	113		25 - 150	12/21/16 08:38	12/28/16 22:44	1

Client Sample ID: OUTFALL 009

Date Collected: 12/12/16 08:40

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-9

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	15		2.0	0.73	ng/L		12/21/16 08:38	12/28/16 22:51	1
Perfluorohexanesulfonic acid (PFHxS)	37		2.0	0.85	ng/L		12/21/16 08:38	12/28/16 22:51	1
Perfluorooctanesulfonic acid (PFOS)	100		2.0	1.2	ng/L		12/21/16 08:38	12/28/16 22:51	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	96		25 - 150	12/21/16 08:38	12/28/16 22:51	1
18O2 PFHxS	116		25 - 150	12/21/16 08:38	12/28/16 22:51	1
13C4 PFOS	121		25 - 150	12/21/16 08:38	12/28/16 22:51	1

Client Sample ID: OUTFALL 010

Date Collected: 12/12/16 08:30

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-10

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	220		2.1	0.77	ng/L		12/21/16 08:38	12/28/16 22:59	1
Perfluorohexanesulfonic acid (PFHxS)	1500		41	18	ng/L		12/21/16 08:38	12/30/16 18:56	20
Perfluorooctanesulfonic acid (PFOS)	3300		41	26	ng/L		12/21/16 08:38	12/30/16 18:56	20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	96		25 - 150	12/21/16 08:38	12/28/16 22:59	1
13C4 PFOA	116		25 - 150	12/21/16 08:38	12/30/16 18:56	20
18O2 PFHxS	74		25 - 150	12/21/16 08:38	12/28/16 22:59	1
18O2 PFHxS	124		25 - 150	12/21/16 08:38	12/30/16 18:56	20

TestAmerica Sacramento

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Client Sample ID: OUTFALL 010

Date Collected: 12/12/16 08:30

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-10

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	62		25 - 150	12/21/16 08:38	12/28/16 22:59	1
13C4 PFOS	118		25 - 150	12/21/16 08:38	12/30/16 18:56	20

Client Sample ID: OUTFALL 011

Date Collected: 12/12/16 10:25

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-11

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	3.6		2.0	0.76	ng/L		12/21/16 08:38	12/28/16 23:06	1
Perfluorohexanesulfonic acid (PFHxS)	5.2		2.0	0.88	ng/L		12/21/16 08:38	12/28/16 23:06	1
Perfluorooctanesulfonic acid (PFOS)	3.5		2.0	1.3	ng/L		12/21/16 08:38	12/28/16 23:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	84		25 - 150	12/21/16 08:38	12/28/16 23:06	1
18O2 PFHxS	126		25 - 150	12/21/16 08:38	12/28/16 23:06	1
13C4 PFOS	127		25 - 150	12/21/16 08:38	12/28/16 23:06	1

Client Sample ID: OUTFALL 012

Date Collected: 12/12/16 11:10

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-12

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	11		2.0	0.76	ng/L		12/21/16 08:38	12/28/16 23:14	1
Perfluorohexanesulfonic acid (PFHxS)	26		2.0	0.89	ng/L		12/21/16 08:38	12/28/16 23:14	1
Perfluorooctanesulfonic acid (PFOS)	84		2.0	1.3	ng/L		12/21/16 08:38	12/28/16 23:14	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	110		25 - 150	12/21/16 08:38	12/28/16 23:14	1
18O2 PFHxS	117		25 - 150	12/21/16 08:38	12/28/16 23:14	1
13C4 PFOS	118		25 - 150	12/21/16 08:38	12/28/16 23:14	1

Client Sample ID: OUTFALL 013

Date Collected: 12/12/16 11:45

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-13

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	27		2.0	0.74	ng/L		12/21/16 15:24	12/29/16 23:04	1
Perfluorohexanesulfonic acid (PFHxS)	78		2.0	0.86	ng/L		12/21/16 15:24	12/29/16 23:04	1
Perfluorooctanesulfonic acid (PFOS)	120		2.0	1.3	ng/L		12/21/16 15:24	12/29/16 23:04	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	111		25 - 150	12/21/16 15:24	12/29/16 23:04	1
18O2 PFHxS	116		25 - 150	12/21/16 15:24	12/29/16 23:04	1
13C4 PFOS	120		25 - 150	12/21/16 15:24	12/29/16 23:04	1

TestAmerica Sacramento

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Client Sample ID: OUTFALL 014

Date Collected: 12/12/16 12:30

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-14

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	41		2.2	0.82	ng/L		12/21/16 15:24	12/29/16 23:11	1
Perfluorohexanesulfonic acid (PFHxS)	180		2.2	0.96	ng/L		12/21/16 15:24	12/29/16 23:11	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	110		25 - 150				12/21/16 15:24	12/29/16 23:11	1
18O2 PFHxS	113		25 - 150				12/21/16 15:24	12/29/16 23:11	1

Method: 537 (modified) - Perfluorinated Hydrocarbons - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	690		11	7.0	ng/L		12/21/16 15:24	12/30/16 20:49	5
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOS	117		25 - 150				12/21/16 15:24	12/30/16 20:49	5

Client Sample ID: OUTFALL 015

Date Collected: 12/12/16 10:56

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-15

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	9.0		2.0	0.73	ng/L		12/21/16 15:24	12/29/16 23:19	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.85	ng/L		12/21/16 15:24	12/29/16 23:19	1
Perfluorooctanesulfonic acid (PFOS)	3.7		2.0	1.3	ng/L		12/21/16 15:24	12/29/16 23:19	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	95		25 - 150				12/21/16 15:24	12/29/16 23:19	1
18O2 PFHxS	127		25 - 150				12/21/16 15:24	12/29/16 23:19	1
13C4 PFOS	132		25 - 150				12/21/16 15:24	12/29/16 23:19	1

Client Sample ID: STREAM #7

Date Collected: 12/12/16 09:10

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-16

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	2.2		2.0	0.74	ng/L		12/21/16 15:24	12/29/16 23:26	1
Perfluorohexanesulfonic acid (PFHxS)	1.3	J	2.0	0.86	ng/L		12/21/16 15:24	12/29/16 23:26	1
Perfluorooctanesulfonic acid (PFOS)	5.1		2.0	1.3	ng/L		12/21/16 15:24	12/29/16 23:26	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	80		25 - 150				12/21/16 15:24	12/29/16 23:26	1
18O2 PFHxS	98		25 - 150				12/21/16 15:24	12/29/16 23:26	1
13C4 PFOS	105		25 - 150				12/21/16 15:24	12/29/16 23:26	1

TestAmerica Sacramento

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Client Sample ID: STREAM #8

Date Collected: 12/12/16 09:18

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-17

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	2.1		2.0	0.74	ng/L		12/21/16 15:24	12/29/16 23:34	1
Perfluorohexanesulfonic acid (PFHxS)	1.3	J	2.0	0.86	ng/L		12/21/16 15:24	12/29/16 23:34	1
Perfluorooctanesulfonic acid (PFOS)	4.1		2.0	1.3	ng/L		12/21/16 15:24	12/29/16 23:34	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	102		25 - 150				12/21/16 15:24	12/29/16 23:34	1
18O2 PFHxS	126		25 - 150				12/21/16 15:24	12/29/16 23:34	1
13C4 PFOS	135		25 - 150				12/21/16 15:24	12/29/16 23:34	1

Client Sample ID: STREAM #9

Date Collected: 12/12/16 09:30

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-18

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	2.6		2.0	0.74	ng/L		12/21/16 15:24	12/29/16 23:41	1
Perfluorohexanesulfonic acid (PFHxS)	1.3	J	2.0	0.86	ng/L		12/21/16 15:24	12/29/16 23:41	1
Perfluorooctanesulfonic acid (PFOS)	1.7	J	2.0	1.3	ng/L		12/21/16 15:24	12/29/16 23:41	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	90		25 - 150				12/21/16 15:24	12/29/16 23:41	1
18O2 PFHxS	118		25 - 150				12/21/16 15:24	12/29/16 23:41	1
13C4 PFOS	128		25 - 150				12/21/16 15:24	12/29/16 23:41	1

Client Sample ID: STREAM #10

Date Collected: 12/12/16 09:45

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-19

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	12		2.0	0.75	ng/L		12/21/16 15:24	12/29/16 23:49	1
Perfluorohexanesulfonic acid (PFHxS)	6.6		2.0	0.87	ng/L		12/21/16 15:24	12/29/16 23:49	1
Perfluorooctanesulfonic acid (PFOS)	9.0		2.0	1.3	ng/L		12/21/16 15:24	12/29/16 23:49	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	93		25 - 150				12/21/16 15:24	12/29/16 23:49	1
18O2 PFHxS	124		25 - 150				12/21/16 15:24	12/29/16 23:49	1
13C4 PFOS	131		25 - 150				12/21/16 15:24	12/29/16 23:49	1

Client Sample ID: MANHOLE #1

Date Collected: 12/12/16 12:15

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-20

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	1.4	J	2.0	0.73	ng/L		12/21/16 15:24	12/30/16 00:19	1
Perfluorohexanesulfonic acid (PFHxS)	2.5		2.0	0.85	ng/L		12/21/16 15:24	12/30/16 00:19	1

TestAmerica Sacramento

Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Client Sample ID: MANHOLE #1

Date Collected: 12/12/16 12:15

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-20

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	11		2.0	1.3	ng/L		12/21/16 15:24	12/30/16 00:19	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	117		25 - 150				12/21/16 15:24	12/30/16 00:19	1
18O2 PFHxS	125		25 - 150				12/21/16 15:24	12/30/16 00:19	1
13C4 PFOS	130		25 - 150				12/21/16 15:24	12/30/16 00:19	1

Client Sample ID: MANHOLE #2

Date Collected: 12/12/16 12:25

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-21

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	4.9		2.0	0.74	ng/L		12/21/16 15:24	12/30/16 00:26	1
Perfluorohexanesulfonic acid (PFHxS)	36		2.0	0.86	ng/L		12/21/16 15:24	12/30/16 00:26	1
Perfluorooctanesulfonic acid (PFOS)	49		2.0	1.3	ng/L		12/21/16 15:24	12/30/16 00:26	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	108		25 - 150				12/21/16 15:24	12/30/16 00:26	1
18O2 PFHxS	125		25 - 150				12/21/16 15:24	12/30/16 00:26	1
13C4 PFOS	130		25 - 150				12/21/16 15:24	12/30/16 00:26	1

Client Sample ID: MANHOLE #3

Date Collected: 12/12/16 12:35

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-22

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	62		2.4	0.89	ng/L		12/21/16 15:24	12/30/16 00:34	1
Perfluorohexanesulfonic acid (PFHxS)	140		2.4	1.0	ng/L		12/21/16 15:24	12/30/16 00:34	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	112		25 - 150				12/21/16 15:24	12/30/16 00:34	1
18O2 PFHxS	119		25 - 150				12/21/16 15:24	12/30/16 00:34	1

Method: 537 (modified) - Perfluorinated Hydrocarbons - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	530		12	7.6	ng/L		12/21/16 15:24	01/03/17 12:25	5
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOS	111		25 - 150				12/21/16 15:24	01/03/17 12:25	5

Client Sample ID: MANHOLE #4

Date Collected: 12/12/16 12:45

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-23

Matrix: Water

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	15		2.2	0.81	ng/L		12/21/16 15:24	12/30/16 00:41	1

TestAmerica Sacramento

Client Sample Results

Client: TRC Environmental Corporation
 Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Client Sample ID: MANHOLE #4

Lab Sample ID: 320-24317-23

Date Collected: 12/12/16 12:45

Matrix: Water

Date Received: 12/13/16 10:05

Method: 537 (modified) - Perfluorinated Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	34		2.2	0.94	ng/L		12/21/16 15:24	12/30/16 00:41	1
Perfluorooctanesulfonic acid (PFOS)	54		2.2	1.4	ng/L		12/21/16 15:24	12/30/16 00:41	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	110		25 - 150				12/21/16 15:24	12/30/16 00:41	1
18O2 PFHxS	120		25 - 150				12/21/16 15:24	12/30/16 00:41	1
13C4 PFOS	124		25 - 150				12/21/16 15:24	12/30/16 00:41	1

Client Sample ID: MANHOLE #6

Lab Sample ID: 320-24317-24

Date Collected: 12/12/16 11:58

Matrix: Water

Date Received: 12/13/16 10:05

Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	300		2.0	0.74	ng/L		12/21/16 15:24	12/30/16 00:49	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	94		25 - 150				12/21/16 15:24	12/30/16 00:49	1

Method: 537 (modified) - Perfluorinated Hydrocarbons - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	1300		39	17	ng/L		12/21/16 15:24	01/03/17 12:32	20
Perfluorooctanesulfonic acid (PFOS)	3300		39	25	ng/L		12/21/16 15:24	01/03/17 12:32	20
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	133		25 - 150				12/21/16 15:24	01/03/17 12:32	20
13C4 PFOS	129		25 - 150				12/21/16 15:24	01/03/17 12:32	20

Isotope Dilution Summary

Client: TRC Environmental Corporation
 Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Method: 537 (modified) - Perfluorinated Hydrocarbons

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)		
		13C4 PFOA (25-150)	18O2 PFHxS (25-150)	13C4 PFOS (25-150)
320-24317-1	OUTFALL 001	46	98	121
320-24317-2	OUTFALL 002	66	97	108
320-24317-3	OUTFALL 003	100	109	120
320-24317-4	OUTFALL 004	90	117	122
320-24317-5	OUTFALL 005	108	113	123
320-24317-6	OUTFALL 006	95	119	131
320-24317-7	OUTFALL 007	104	105	110
320-24317-8	OUTFALL 008	100	116	113
320-24317-9	OUTFALL 009	96	116	121
320-24317-10	OUTFALL 010	96	74	62
320-24317-10	OUTFALL 010	116	124	118
320-24317-11	OUTFALL 011	84	126	127
320-24317-12	OUTFALL 012	110	117	118
320-24317-13	OUTFALL 013	111	116	120
320-24317-14	OUTFALL 014	110	113	
320-24317-14 - DL	OUTFALL 014			117
320-24317-15	OUTFALL 015	95	127	132
320-24317-16	STREAM #7	80	98	105
320-24317-17	STREAM #8	102	126	135
320-24317-18	STREAM #9	90	118	128
320-24317-19	STREAM #10	93	124	131
320-24317-20	MANHOLE #1	117	125	130
320-24317-21	MANHOLE #2	108	125	130
320-24317-22	MANHOLE #3	112	119	
320-24317-22 - DL	MANHOLE #3			111
320-24317-23	MANHOLE #4	110	120	124
320-24317-24	MANHOLE #6	94		
320-24317-24 - DL	MANHOLE #6		133	129
LCS 320-143247/2-A	Lab Control Sample	127	126	127
LCS 320-143405/2-A	Lab Control Sample	135	129	129
LCSD 320-143247/3-A	Lab Control Sample Dup	126	121	123
LCSD 320-143405/3-A	Lab Control Sample Dup	112	108	106
MB 320-143247/1-A	Method Blank	128	124	125
MB 320-143405/1-A	Method Blank	140	130	131

Surrogate Legend

- 13C4 PFOA = 13C4 PFOA
- 18O2 PFHxS = 18O2 PFHxS
- 13C4 PFOS = 13C4 PFOS

QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Method: 537 (modified) - Perfluorinated Hydrocarbons

Lab Sample ID: MB 320-143247/1-A

Matrix: Water

Analysis Batch: 144217

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 143247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	ND		2.0	0.75	ng/L		12/21/16 08:38	12/28/16 21:14	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.87	ng/L		12/21/16 08:38	12/28/16 21:14	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	1.3	ng/L		12/21/16 08:38	12/28/16 21:14	1
Isotope Dilution	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	128		25 - 150				12/21/16 08:38	12/28/16 21:14	1
18O2 PFHxS	124		25 - 150				12/21/16 08:38	12/28/16 21:14	1
13C4 PFOS	125		25 - 150				12/21/16 08:38	12/28/16 21:14	1

Lab Sample ID: LCS 320-143247/2-A

Matrix: Water

Analysis Batch: 144217

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 143247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorooctanoic acid (PFOA)	40.0	41.7		ng/L		104	60 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.4	40.1		ng/L		110	60 - 140
Perfluorooctanesulfonic acid (PFOS)	37.1	41.3		ng/L		111	60 - 140
Isotope Dilution	%Recovery	LCS Qualifier	Limits				
13C4 PFOA	127		25 - 150				
18O2 PFHxS	126		25 - 150				
13C4 PFOS	127		25 - 150				

Lab Sample ID: LCSD 320-143247/3-A

Matrix: Water

Analysis Batch: 144217

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 143247

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Perfluorooctanoic acid (PFOA)	40.0	38.1		ng/L		95	60 - 140	9	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	38.2		ng/L		105	60 - 140	5	30
Perfluorooctanesulfonic acid (PFOS)	37.1	38.9		ng/L		105	60 - 140	6	30
Isotope Dilution	%Recovery	LCSD Qualifier	Limits						
13C4 PFOA	126		25 - 150						
18O2 PFHxS	121		25 - 150						
13C4 PFOS	123		25 - 150						

Lab Sample ID: MB 320-143405/1-A

Matrix: Water

Analysis Batch: 144430

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 143405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	ND		2.0	0.75	ng/L		12/21/16 15:24	12/29/16 22:41	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.87	ng/L		12/21/16 15:24	12/29/16 22:41	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	1.3	ng/L		12/21/16 15:24	12/29/16 22:41	1

TestAmerica Sacramento

QC Sample Results

Client: TRC Environmental Corporation
 Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFOA	140		25 - 150	12/21/16 15:24	12/29/16 22:41	1
18O2 PFHxS	130		25 - 150	12/21/16 15:24	12/29/16 22:41	1
13C4 PFOS	131		25 - 150	12/21/16 15:24	12/29/16 22:41	1

Lab Sample ID: LCS 320-143405/2-A
Matrix: Water
Analysis Batch: 144430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanesulfonic acid (PFHxS)	36.4	38.3		ng/L		105	60 - 140
Perfluorooctanesulfonic acid (PFOS)	37.1	40.2		ng/L		108	60 - 140

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFOA	135		25 - 150
18O2 PFHxS	129		25 - 150
13C4 PFOS	129		25 - 150

Lab Sample ID: LCSD 320-143405/3-A
Matrix: Water
Analysis Batch: 144430

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 143405

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Perfluorooctanoic acid (PFOA)	40.0	43.4		ng/L		109	60 - 140	10	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	40.9		ng/L		112	60 - 140	7	30
Perfluorooctanesulfonic acid (PFOS)	37.1	43.7		ng/L		118	60 - 140	8	30

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
13C4 PFOA	112		25 - 150
18O2 PFHxS	108		25 - 150
13C4 PFOS	106		25 - 150

QC Association Summary

Client: TRC Environmental Corporation
 Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

LCMS

Prep Batch: 143247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-24317-1	OUTFALL 001	Total/NA	Water	3535	
320-24317-2	OUTFALL 002	Total/NA	Water	3535	
320-24317-3	OUTFALL 003	Total/NA	Water	3535	
320-24317-4	OUTFALL 004	Total/NA	Water	3535	
320-24317-5	OUTFALL 005	Total/NA	Water	3535	
320-24317-6	OUTFALL 006	Total/NA	Water	3535	
320-24317-7	OUTFALL 007	Total/NA	Water	3535	
320-24317-8	OUTFALL 008	Total/NA	Water	3535	
320-24317-9	OUTFALL 009	Total/NA	Water	3535	
320-24317-10	OUTFALL 010	Total/NA	Water	3535	
320-24317-11	OUTFALL 011	Total/NA	Water	3535	
320-24317-12	OUTFALL 012	Total/NA	Water	3535	
MB 320-143247/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-143247/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-143247/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Prep Batch: 143405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-24317-13	OUTFALL 013	Total/NA	Water	3535	
320-24317-14	OUTFALL 014	Total/NA	Water	3535	
320-24317-14 - DL	OUTFALL 014	Total/NA	Water	3535	
320-24317-15	OUTFALL 015	Total/NA	Water	3535	
320-24317-16	STREAM #7	Total/NA	Water	3535	
320-24317-17	STREAM #8	Total/NA	Water	3535	
320-24317-18	STREAM #9	Total/NA	Water	3535	
320-24317-19	STREAM #10	Total/NA	Water	3535	
320-24317-20	MANHOLE #1	Total/NA	Water	3535	
320-24317-21	MANHOLE #2	Total/NA	Water	3535	
320-24317-22 - DL	MANHOLE #3	Total/NA	Water	3535	
320-24317-22	MANHOLE #3	Total/NA	Water	3535	
320-24317-23	MANHOLE #4	Total/NA	Water	3535	
320-24317-24 - DL	MANHOLE #6	Total/NA	Water	3535	
320-24317-24	MANHOLE #6	Total/NA	Water	3535	
MB 320-143405/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-143405/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-143405/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 144217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-24317-1	OUTFALL 001	Total/NA	Water	537 (modified)	143247
320-24317-2	OUTFALL 002	Total/NA	Water	537 (modified)	143247
320-24317-3	OUTFALL 003	Total/NA	Water	537 (modified)	143247
320-24317-4	OUTFALL 004	Total/NA	Water	537 (modified)	143247
320-24317-5	OUTFALL 005	Total/NA	Water	537 (modified)	143247
320-24317-6	OUTFALL 006	Total/NA	Water	537 (modified)	143247
320-24317-7	OUTFALL 007	Total/NA	Water	537 (modified)	143247
320-24317-8	OUTFALL 008	Total/NA	Water	537 (modified)	143247
320-24317-9	OUTFALL 009	Total/NA	Water	537 (modified)	143247
320-24317-10	OUTFALL 010	Total/NA	Water	537 (modified)	143247
320-24317-11	OUTFALL 011	Total/NA	Water	537 (modified)	143247
320-24317-12	OUTFALL 012	Total/NA	Water	537 (modified)	143247

TestAmerica Sacramento

QC Association Summary

Client: TRC Environmental Corporation
 Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

LCMS (Continued)

Analysis Batch: 144217 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-143247/1-A	Method Blank	Total/NA	Water	537 (modified)	143247
LCS 320-143247/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	143247
LCSD 320-143247/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	143247

Analysis Batch: 144430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-24317-13	OUTFALL 013	Total/NA	Water	537 (modified)	143405
320-24317-14	OUTFALL 014	Total/NA	Water	537 (modified)	143405
320-24317-15	OUTFALL 015	Total/NA	Water	537 (modified)	143405
320-24317-16	STREAM #7	Total/NA	Water	537 (modified)	143405
320-24317-17	STREAM #8	Total/NA	Water	537 (modified)	143405
320-24317-18	STREAM #9	Total/NA	Water	537 (modified)	143405
320-24317-19	STREAM #10	Total/NA	Water	537 (modified)	143405
320-24317-20	MANHOLE #1	Total/NA	Water	537 (modified)	143405
320-24317-21	MANHOLE #2	Total/NA	Water	537 (modified)	143405
320-24317-22	MANHOLE #3	Total/NA	Water	537 (modified)	143405
320-24317-23	MANHOLE #4	Total/NA	Water	537 (modified)	143405
320-24317-24	MANHOLE #6	Total/NA	Water	537 (modified)	143405
MB 320-143405/1-A	Method Blank	Total/NA	Water	537 (modified)	143405
LCS 320-143405/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	143405
LCSD 320-143405/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	143405

Analysis Batch: 144579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-24317-10	OUTFALL 010	Total/NA	Water	537 (modified)	143247
320-24317-14 - DL	OUTFALL 014	Total/NA	Water	537 (modified)	143405

Analysis Batch: 144785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-24317-22 - DL	MANHOLE #3	Total/NA	Water	537 (modified)	143405
320-24317-24 - DL	MANHOLE #6	Total/NA	Water	537 (modified)	143405

Lab Chronicle

Client: TRC Environmental Corporation
 Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Client Sample ID: OUTFALL 001

Date Collected: 12/12/16 10:30

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			252.3 mL	0.5 mL	143247	12/21/16 08:38	NS1	TAL SAC
Total/NA	Analysis	537 (modified)		1			144217	12/28/16 21:36	SBC	TAL SAC

Client Sample ID: OUTFALL 002

Date Collected: 12/12/16 09:30

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			252.7 mL	0.5 mL	143247	12/21/16 08:38	NS1	TAL SAC
Total/NA	Analysis	537 (modified)		1			144217	12/28/16 21:44	SBC	TAL SAC

Client Sample ID: OUTFALL 003

Date Collected: 12/12/16 09:45

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			242.1 mL	0.5 mL	143247	12/21/16 08:38	NS1	TAL SAC
Total/NA	Analysis	537 (modified)		1			144217	12/28/16 21:51	SBC	TAL SAC

Client Sample ID: OUTFALL 004

Date Collected: 12/12/16 09:55

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			262.9 mL	0.5 mL	143247	12/21/16 08:38	NS1	TAL SAC
Total/NA	Analysis	537 (modified)		1			144217	12/28/16 21:59	SBC	TAL SAC

Client Sample ID: OUTFALL 005

Date Collected: 12/12/16 10:40

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			258.8 mL	0.5 mL	143247	12/21/16 08:38	NS1	TAL SAC
Total/NA	Analysis	537 (modified)		1			144217	12/28/16 22:06	SBC	TAL SAC

Client Sample ID: OUTFALL 006

Date Collected: 12/12/16 10:50

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			264.6 mL	0.5 mL	143247	12/21/16 08:38	NS1	TAL SAC
Total/NA	Analysis	537 (modified)		1			144217	12/28/16 22:14	SBC	TAL SAC

TestAmerica Sacramento

Lab Chronicle

Client: TRC Environmental Corporation
 Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Client Sample ID: OUTFALL 007

Lab Sample ID: 320-24317-7

Date Collected: 12/12/16 11:30

Matrix: Water

Date Received: 12/13/16 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			260.7 mL	0.5 mL	143247	12/21/16 08:38	NS1	TAL SAC
Total/NA	Analysis	537 (modified)		1			144217	12/28/16 22:36	SBC	TAL SAC

Client Sample ID: OUTFALL 008

Lab Sample ID: 320-24317-8

Date Collected: 12/12/16 08:35

Matrix: Water

Date Received: 12/13/16 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			243.8 mL	0.5 mL	143247	12/21/16 08:38	NS1	TAL SAC
Total/NA	Analysis	537 (modified)		1			144217	12/28/16 22:44	SBC	TAL SAC

Client Sample ID: OUTFALL 009

Lab Sample ID: 320-24317-9

Date Collected: 12/12/16 08:40

Matrix: Water

Date Received: 12/13/16 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			255.5 mL	0.5 mL	143247	12/21/16 08:38	NS1	TAL SAC
Total/NA	Analysis	537 (modified)		1			144217	12/28/16 22:51	SBC	TAL SAC

Client Sample ID: OUTFALL 010

Lab Sample ID: 320-24317-10

Date Collected: 12/12/16 08:30

Matrix: Water

Date Received: 12/13/16 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			242.6 mL	0.5 mL	143247	12/21/16 08:38	NS1	TAL SAC
Total/NA	Analysis	537 (modified)		1			144217	12/28/16 22:59	SBC	TAL SAC
Total/NA	Prep	3535			242.6 mL	0.5 mL	143247	12/21/16 08:38	NS1	TAL SAC
Total/NA	Analysis	537 (modified)		20			144579	12/30/16 18:56	SBC	TAL SAC

Client Sample ID: OUTFALL 011

Lab Sample ID: 320-24317-11

Date Collected: 12/12/16 10:25

Matrix: Water

Date Received: 12/13/16 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			246.4 mL	0.5 mL	143247	12/21/16 08:38	NS1	TAL SAC
Total/NA	Analysis	537 (modified)		1			144217	12/28/16 23:06	SBC	TAL SAC

Client Sample ID: OUTFALL 012

Lab Sample ID: 320-24317-12

Date Collected: 12/12/16 11:10

Matrix: Water

Date Received: 12/13/16 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			245.2 mL	0.5 mL	143247	12/21/16 08:38	NS1	TAL SAC

TestAmerica Sacramento

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Client Sample ID: OUTFALL 012

Date Collected: 12/12/16 11:10
Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	537 (modified)		1			144217	12/28/16 23:14	SBC	TAL SAC

Client Sample ID: OUTFALL 013

Date Collected: 12/12/16 11:45
Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			253.3 mL	0.5 mL	143405	12/21/16 15:24	KMK	TAL SAC
Total/NA	Analysis	537 (modified)		1			144430	12/29/16 23:04	SBC	TAL SAC

Client Sample ID: OUTFALL 014

Date Collected: 12/12/16 12:30
Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			227.6 mL	0.5 mL	143405	12/21/16 15:24	KMK	TAL SAC
Total/NA	Analysis	537 (modified)		1			144430	12/29/16 23:11	SBC	TAL SAC
Total/NA	Prep	3535	DL		227.6 mL	0.5 mL	143405	12/21/16 15:24	KMK	TAL SAC
Total/NA	Analysis	537 (modified)	DL	5			144579	12/30/16 20:49	SBC	TAL SAC

Client Sample ID: OUTFALL 015

Date Collected: 12/12/16 10:56
Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			254.7 mL	0.5 mL	143405	12/21/16 15:24	KMK	TAL SAC
Total/NA	Analysis	537 (modified)		1			144430	12/29/16 23:19	SBC	TAL SAC

Client Sample ID: STREAM #7

Date Collected: 12/12/16 09:10
Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			252.8 mL	0.5 mL	143405	12/21/16 15:24	KMK	TAL SAC
Total/NA	Analysis	537 (modified)		1			144430	12/29/16 23:26	SBC	TAL SAC

Client Sample ID: STREAM #8

Date Collected: 12/12/16 09:18
Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			252.6 mL	0.5 mL	143405	12/21/16 15:24	KMK	TAL SAC
Total/NA	Analysis	537 (modified)		1			144430	12/29/16 23:34	SBC	TAL SAC

TestAmerica Sacramento

Lab Chronicle

Client: TRC Environmental Corporation
 Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Client Sample ID: STREAM #9

Date Collected: 12/12/16 09:30

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			253.8 mL	0.5 mL	143405	12/21/16 15:24	KMK	TAL SAC
Total/NA	Analysis	537 (modified)		1			144430	12/29/16 23:41	SBC	TAL SAC

Client Sample ID: STREAM #10

Date Collected: 12/12/16 09:45

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250.5 mL	0.5 mL	143405	12/21/16 15:24	KMK	TAL SAC
Total/NA	Analysis	537 (modified)		1			144430	12/29/16 23:49	SBC	TAL SAC

Client Sample ID: MANHOLE #1

Date Collected: 12/12/16 12:15

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			255.2 mL	0.5 mL	143405	12/21/16 15:24	KMK	TAL SAC
Total/NA	Analysis	537 (modified)		1			144430	12/30/16 00:19	SBC	TAL SAC

Client Sample ID: MANHOLE #2

Date Collected: 12/12/16 12:25

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			253.6 mL	0.5 mL	143405	12/21/16 15:24	KMK	TAL SAC
Total/NA	Analysis	537 (modified)		1			144430	12/30/16 00:26	SBC	TAL SAC

Client Sample ID: MANHOLE #3

Date Collected: 12/12/16 12:35

Date Received: 12/13/16 10:05

Lab Sample ID: 320-24317-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			211 mL	0.5 mL	143405	12/21/16 15:24	KMK	TAL SAC
Total/NA	Analysis	537 (modified)		1			144430	12/30/16 00:34	SBC	TAL SAC
Total/NA	Prep	3535	DL		211 mL	0.5 mL	143405	12/21/16 15:24	KMK	TAL SAC
Total/NA	Analysis	537 (modified)	DL	5			144785	01/03/17 12:25	SBC	TAL SAC

Lab Chronicle

Client: TRC Environmental Corporation
 Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Client Sample ID: MANHOLE #4

Lab Sample ID: 320-24317-23

Date Collected: 12/12/16 12:45

Matrix: Water

Date Received: 12/13/16 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			230.6 mL	0.5 mL	143405	12/21/16 15:24	KMK	TAL SAC
Total/NA	Analysis	537 (modified)		1			144430	12/30/16 00:41	SBC	TAL SAC

Client Sample ID: MANHOLE #6

Lab Sample ID: 320-24317-24

Date Collected: 12/12/16 11:58

Matrix: Water

Date Received: 12/13/16 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			254.3 mL	0.5 mL	143405	12/21/16 15:24	KMK	TAL SAC
Total/NA	Analysis	537 (modified)		1			144430	12/30/16 00:49	SBC	TAL SAC
Total/NA	Prep	3535	DL		254.3 mL	0.5 mL	143405	12/21/16 15:24	KMK	TAL SAC
Total/NA	Analysis	537 (modified)	DL	20			144785	01/03/17 12:32	SBC	TAL SAC

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Certification Summary

Client: TRC Environmental Corporation
 Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-17
Alaska (UST)	State Program	10	UST-055	12-18-17
Arizona	State Program	9	AZ0708	08-11-17
Arkansas DEQ	State Program	6	88-0691	06-17-17
California	State Program	9	2897	01-31-18
Colorado	State Program	8	CA00044	08-31-17
Connecticut	State Program	1	PH-0691	06-30-17
Florida	NELAP	4	E87570	06-30-17
Hawaii	State Program	9	N/A	01-31-17
Illinois	NELAP	5	200060	03-17-17
Kansas	NELAP	7	E-10375	10-31-17
Louisiana	NELAP	6	30612	06-30-17
Maine	State Program	1	CA0004	04-18-18
Michigan	State Program	5	9947	01-31-18
Nevada	State Program	9	CA00044	07-31-17
New Jersey	NELAP	2	CA005	06-30-17
New York	NELAP	2	11666	04-01-17
Oregon	NELAP	10	4040	01-29-17
Pennsylvania	NELAP	3	68-01272	03-31-17
Texas	NELAP	6	T104704399	07-31-17
US Fish & Wildlife	Federal		LE148388-0	10-31-17
USDA	Federal		P330-11-00436	12-30-17
USEPA UCMR	Federal	1	CA00044	11-06-18
Utah	NELAP	8	CA00044	02-28-17
Virginia	NELAP	3	460278	03-14-17
Washington	State Program	10	C581	05-05-17
West Virginia (DW)	State Program	3	9930C	12-31-16 *
Wyoming	State Program	8	8TMS-L	01-29-17

* Certification renewal pending - certification considered valid.

Method Summary

Client: TRC Environmental Corporation
Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Perfluorinated Hydrocarbons	EPA	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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Sample Summary

Client: TRC Environmental Corporation
Project/Site: NY Outfall Sampling (PFAS)

TestAmerica Job ID: 320-24317-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-24317-1	OUTFALL 001	Water	12/12/16 10:30	12/13/16 10:05
320-24317-2	OUTFALL 002	Water	12/12/16 09:30	12/13/16 10:05
320-24317-3	OUTFALL 003	Water	12/12/16 09:45	12/13/16 10:05
320-24317-4	OUTFALL 004	Water	12/12/16 09:55	12/13/16 10:05
320-24317-5	OUTFALL 005	Water	12/12/16 10:40	12/13/16 10:05
320-24317-6	OUTFALL 006	Water	12/12/16 10:50	12/13/16 10:05
320-24317-7	OUTFALL 007	Water	12/12/16 11:30	12/13/16 10:05
320-24317-8	OUTFALL 008	Water	12/12/16 08:35	12/13/16 10:05
320-24317-9	OUTFALL 009	Water	12/12/16 08:40	12/13/16 10:05
320-24317-10	OUTFALL 010	Water	12/12/16 08:30	12/13/16 10:05
320-24317-11	OUTFALL 011	Water	12/12/16 10:25	12/13/16 10:05
320-24317-12	OUTFALL 012	Water	12/12/16 11:10	12/13/16 10:05
320-24317-13	OUTFALL 013	Water	12/12/16 11:45	12/13/16 10:05
320-24317-14	OUTFALL 014	Water	12/12/16 12:30	12/13/16 10:05
320-24317-15	OUTFALL 015	Water	12/12/16 10:56	12/13/16 10:05
320-24317-16	STREAM #7	Water	12/12/16 09:10	12/13/16 10:05
320-24317-17	STREAM #8	Water	12/12/16 09:18	12/13/16 10:05
320-24317-18	STREAM #9	Water	12/12/16 09:30	12/13/16 10:05
320-24317-19	STREAM #10	Water	12/12/16 09:45	12/13/16 10:05
320-24317-20	MANHOLE #1	Water	12/12/16 12:15	12/13/16 10:05
320-24317-21	MANHOLE #2	Water	12/12/16 12:25	12/13/16 10:05
320-24317-22	MANHOLE #3	Water	12/12/16 12:35	12/13/16 10:05
320-24317-23	MANHOLE #4	Water	12/12/16 12:45	12/13/16 10:05
320-24317-24	MANHOLE #6	Water	12/12/16 11:58	12/13/16 10:05

Chain of Custody Record

Client Information Company: TRC Environmental Corporation Address: 1430 Broadway, 10th FL City: New York State/Zip: NY, 10018-3308 Phone: 212-221-7822 (Tel) Email: bfrance@trcsolutions.com Project Name: NY Outfall Sampling (PFAS) Site:		Lab PM: Alltucker, David R E-Mail: david.alltucker@testamericainc.com Phone: 212-221-7822 Sampler: KMV		Carrier Tracking No(s): 320-13545-3103.1 Page: 3 of 8 Page 1 of 8 Job #:	
Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #:		Analysis Requested  320-24317 Chain of Custody		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDA Z - other (specify) Other:	
Sample Identification OUTFALL 001 OUTFALL 002 OUTFALL 003 OUTFALL 004 OUTFALL 005 OUTFALL 006 OUTFALL 007 OUTFALL 008 OUTFALL 009 OUTFALL 010 OUTFALL 011		Sample Date 12/12 12/12 12/12 12/12 12/12 12/12 12/12 12/12 12/12 12/12		Sample Time 1030 930 945 955 1040 1050 1130 0835 0840 830 1025	
Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air) Water Water Water Water Water Water Water Water Water Water		Sample Type (C=Comp, G=grab) G G G G G G G G G G		Preservation Code: Water Water Water Water Water Water Water Water Water Water	
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers	
Special Instructions/Note:		PFC, IDA - PFAS, UCMR List		Special Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by:		Date/Time: 12/12/16 @ 1500		Date/Time: 12/13/16 10:05 Company: JAS Company: JAS Company: JAS	



Client Information Client Contact: Ms. Brienne Francese Company: TRC Environmental Corporation Address: 1430 Broadway, 10th FL City: New York State, Zip: NY, 10018-3308 Phone: 212-221-7822(Tel) Email: bfrancese@trcsolutions.com Project Name: NY Outfall Sampling (PFAS) Site:		Lab PM: Alltucker, David R E-Mail: david.alltucker@testamericainc.com Phone:		Sampler: KM Camera Tracking No(s):		COC No: 320-13652-3103.1 Page: 2 Page # of 2 Job #									
Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #: Project #: 32008775 SSOV#:		Analysis Requested		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Antchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)		Total Number of Containers									
Sample Identification OUTFALL 012 OUTFALL 013 OUTFALL 014 OUTFALL 015 Stream #7 Stream #8 Stream #9 Stream #10		Sample Date 12/12 ↓ ↓ ↓ ↓		Sample Time 1110 1145 1230 1056 0910 0918 0930 0945		Sample Type (C=Comp, G=grab) Preservation Code G ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓		Matrix (Water, Soil, Oil, Other) Water Water Water Water Water Water Water Water Water Water		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) PFC, IDA - PFAS, UCMR List N Y ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓		Special Instructions/Note: Special Instructions/OC Requirements: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Date:		Date/Time:		Date/Time:		Date/Time:		Date/Time:		Date/Time:		Date/Time:	
Empty Kit Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:	
Custody Seals Intact Δ Yes Δ No		Custody Seal No.:		Received by: Troy G. Turpan Date/Time: 12/13/16		Received by:		Received by:		Received by:		Received by:		Received by:	
Cooler Temperature(s) °C and Other Remarks:		Company: THS Date/Time: 12/13/16 Date/Time:		Company:		Company:		Company:		Company:		Company:		Company:	



Chain of Custody Record

Client Information Client Contact: Ms. Brienne Francese Company: TRC Environmental Corporation Address: 1430 Broadway, 10th FL City: New York State, Zip: NY, 10018-3308 Phone: 212-221-7822(Tel) Email: bfrancese@trcsolutions.com Project #: 32008775 NY Outfall Sampling (PFAS) Site:		Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #: Project #: 32008775 SSOW#:		Lab PM: Alltucker, David R E-Mail: david.alltucker@testamericainc.com Carrier Tracking No(s): COC No: 320-13545-3103.1 Page: 3 Page 1 of 3 Job #	
Sample Identification Manhole #1 Manhole #2 Manhole #3 Manhole #4 Manhole #6		Sample Date: 12/2/16 Sample Time: 1215, 1225, 1235, 1245, 1158 Sample Type (C=Comp, G=grab): F Preservation Code: Water		Field Filtered Sample (Yes or No): X Perform MS/MSD (Yes or No): X PFC, IDA - PFAS, UCMR List: N Total Number of Containers:	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Analysis Requested:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Z - other (specify)	
Empty Kit Relinquished by: Relinquished by: Date/Time: Company: Relinquished by: Date/Time: Company: Relinquished by: Date/Time: Company:		Special Instructions/QC Requirements:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Received by: [Signature] Date/Time: 12/13/16 Company: [Signature] 4.8.16 Received by: Date/Time: Company: Received by: Date/Time: Company:		Method of Shipment:		Special Instructions/QC Requirements:	



Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 320-24317-1

Login Number: 24317

List Source: TestAmerica Sacramento

List Number: 1

Creator: Nelson, Kym D

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

