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March 30, 2018

New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Section C
Remedial Bureau B
625 Broadway 12th Floor
Albany, New York 112233-7013

Attention: Mr. John Grathwol

Re: Site Status Update Report
November 2017 through December 2017
Former Pratt Oil Works
Long Island City, New York
Consent Order Case No. D2-1002-12-07AM-2
NYSDEC Site No. S241115

Dear Mr. Grathwol:

Enclosed is the Site Status Update Report (SSUR) for the Former Pratt Oil Works site located in Long Island City, New York. This report summarizes the quarterly progress completed during the period from November 2017 through December 2017. This report has been prepared in accordance with the Investigation Consent Order between the State of New York and ExxonMobil, filed on July 15, 2008 (D2-1002-12-07AM), and the Remedial Consent Order between the State of New York and ExxonMobil, filed on April 12, 2016 (D2-1002-12-07AM-2). This report has been prepared by Roux Environmental Engineering and Geology, D.P.C. on behalf of ExxonMobil.

Should there be any questions or comments on this submission, please do not hesitate to contact me at (718) 404-0652.

Sincerely,

Frank J. Messina
Project Manager

Attachment

cc: Livio Forte, A&L Cesspool Ser./Co. (Electronic File Only)
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Site Status Update Report

November and December 2017

ExxonMobil Former Pratt Oil Works (FPOW)
Long Island City, Queens, New York

March 30, 2018

Consent Order Case No. D2-1002-12-07AM-2

NYSDEC Site No. S241115

Parcel	NYSDEC Case Number
A	07-07418
B	08-13060
C	07-07417
D	09-04539
E	09-03356
F	12-02509
G	09-03488
H	09-03616
I	09-03287

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List of Acronyms

AST	Aboveground Storage Tank
AWQSGVs	Ambient Water Quality Standards and Guidance Values
CVOC	Chlorinated Volatile Organic Compound
EDD	Electronic Data Deliverable
FPOW	Former Pratt Oil Works
GWE	Groundwater Elevation
IRM	Interim Remedial Measure
LNAPL	Light Non-Aqueous Phase Liquid
µg/L	Micrograms Per Liter
NYSDEC	New York State Department of Environmental Conservation
O&M	Operations and Maintenance
PAH	Polyaromatic Hydrocarbon
PVC	Polyvinyl Chloride
SSUR	Site Status Update Report
SVOC	Semivolatile Organic Compound
TCL	Target Compound List
VOC	Volatile Organic Compound

1. Introduction

This Site Status Update Report (SSUR) presents a summary of activities performed by Roux Environmental Engineering and Geology, D.P.C. (Roux) for ExxonMobil Environmental Services Company, on behalf of ExxonMobil Oil Corporation (collectively, ExxonMobil), as part of the ExxonMobil Former Pratt Oil Works (FPOW) Project during the months of November and December 2017. The site, as defined in the Remedial Consent Order (Case No. D2-1002-12-07AM-2) between the State of New York and ExxonMobil filed on April 12, 2016 (Remedial Consent Order), is shown on Figure 1 (Site). Previously, ExxonMobil voluntarily entered into an Investigation Consent Order with the State of New York on July 15, 2008 (Case No. D2-1002-12-07AM) to complete investigation activities within the Upland and Waterfront project areas, known as Tracts I and II, respectively (hereby referred to in this SSUR as the "Former Site boundary"), and to perform interim remedial measures (IRMs), as necessary, based on the results of the investigations. The activities described in this SSUR were conducted in accordance with the Remedial Consent Order and the Investigation Consent Order.

In accordance with NYSDEC approval received on January 25, 2018 via email correspondence, this SSUR covers a two-month time period (November and December 2017). Moving forward, the reporting periods of the SSURs will follow the standard calendar quarters and reports will be submitted 45 days after the last day of the reporting period or 30 days following receipt of the sampling results.

This SSUR describes the IRMs, operations and maintenance (O&M) activities, and groundwater monitoring and sampling activities completed from November 1, 2017 through December 31, 2017 at the Site, as well as anticipated goals and activities planned for the next reporting period. This SSUR is separated into the following sections:

- Section 2.0: Provides a description of the Site and IRMs;
- Section 3.0: Provides a summary of the IRM light non-aqueous phase liquid (LNAPL) recovery and O&M activities;
- Section 4.0: Provides a summary of the groundwater monitoring and sampling activities; and
- Section 5.0: Provides a summary of the activities completed during this reporting period and presents a summary of goals and potential activities that are anticipated for the next reporting period.

Tables, figures, appendices, and plates documenting and summarizing the activities are attached at the end of this SSUR.

2. Site and IRM Descriptions

The following sections describe the FPOW Site and IRMs operating within the Site.

2.1 Site Description

The Site is a former wax refinery that was operated by a predecessor of ExxonMobil from approximately 1892 to 1949, in the Long Island City section of Queens, New York (Figure 1). The Site covers an area of approximately 18 acres and is located within a major industrial sector. The Site currently consists of 13 lots along Review Avenue and Railroad Avenue, and is divided into 10 parcels (designated "A" through "K") based on property owner (Plate 1). Please note that the property located at 38-40 Railroad Avenue (Parcel A – Block 312, Lot 1367) was sold to Forte Brothers Realty LLC by Waste Management of New York, LLC on September 26, 2016, and, therefore, does not have its own, separate parcel designation. Although Parcel J, as identified in Plate 1, was included in the Former Site boundary, it is not included in the Site boundary as defined by the Remedial Consent Order. In addition, the Long Island Rail Road, which runs through the Site and was previously excluded from the Former Site boundary, is now incorporated into the Site as defined by the Remedial Consent Order. ExxonMobil has not owned any of the properties within the Site for approximately 65 years. The Site is bordered by Review Avenue and First Calvary Cemetery (north); Newtown Creek (south); Parcel J (currently being used as a warehouse) and Quanta Resources State Superfund Site (northwest); asphalt recycling and manufacturing facility (southwest); and a former concrete facility (east).

Current uses of the properties within the Site include, but are not limited to, the following: The City of New York Department of Sanitation waste transfer station, warehouse and/or office space, vehicle storage, cesspool services, valve manufacturing, lumber and building materials distributer, commercial refrigeration supply distributer, and cleaning products manufacturing. The current parcel addresses and Block/Lot numbers are as follows:

Parcel	Address	Block/Lot
Parcel A	38-34 Review Avenue 38-40 Railroad Avenue	312 / 300 312 / 1367
Parcel B	38-42 Review Avenue 39-14 Review Avenue	312 / 309 312 / 315
Parcel C	38-70 Review Avenue	312 / 348
Parcel D	38-84 Railroad Avenue	312 / 1362
Parcel E	38-50 Review Avenue 38-54 Railroad Avenue	312 / 362 312 / 500
Parcel F	38-98 Review Avenue	312 / 343
Parcel G	38-78 Review Avenue	312 / 349
Parcel H	39-30 Review Avenue	312 / 330
Parcel I	38-20 Review Avenue	312 / 89
Parcel K	38-60 Review Avenue	312 / 350

2.2 IRM Descriptions

This section provides a description of the IRMs currently being conducted at the Site. A summary of the O&M and performance of these IRMs is provided in Section 3.0.

Spill Buster™ Systems

There are currently four LNAPL recovery IRM systems. These IRM systems are located at monitoring wells MW-5 (Parcel A), MW-9 (Parcel B), MW-14 (Parcel D), and MW-24 (Parcel D). They each consist of an LNAPL skimmer system (Clean Earth Magnum Spill Buster™), 250-gallon above-ground LNAPL storage tank (Lube Cube AST), and auto-dialer. The location of each LNAPL IRM is shown on Plate 1.

Additional LNAPL Recovery Methods

Representative monitoring wells within the Site were gauged on a weekly basis and LNAPL observed at a thickness greater than approximately one foot was removed using a hand-held, portable LNAPL skimming tool (Clean Earth Spill Buddy). Passive, non-disposable bailers (Geotech Product Recovery Canister Passive Skimmer) were installed at monitoring wells MW-2, MW-16, MW-22, MW-54, and MW-56 as an alternative to absorbent socks. Absorbent socks were installed in monitoring wells observed with LNAPL thicknesses too low to be recovered using the Spill Buddy and passive bailer.

Bulkhead Sheen Area

In response to a sheen observed on Newtown Creek in the vicinity of Parcels A and B on April 7, 2011, approximately 85 feet of 24-inch high polyvinyl chloride (PVC) belted black boom (hard boom) and 30 feet of absorbent boom were voluntarily installed. The absorbent boom continues to be inspected on a weekly basis and replaced, as necessary.

On November 12, 2016, a separate and unconnected sheen was observed emanating from the timber bulkhead along Parcel A, west of the original sheen identified above. ExxonMobil became aware of this on November 14, 2016 and initiated an immediate proactive response to contain and address the sheen with plastic temporary boom and absorbent boom. ExxonMobil voluntarily addressed the sheen in a good faith effort to mitigate its potential effect, if any. The source of the sheen is currently unclear. The plastic temporary boom was replaced with approximately 300 feet of 24-inch PVC hard boom on February 6, 2017. The absorbent boom is inspected on a weekly basis and replaced, as needed.

The approximate locations of both PVC hard boom areas within the vicinity of Parcel A and Parcel B are shown on Plate 1. Photographic documentation of the inspections is provided in Appendix A.

3. Remedial and O&M Activities Summary

The following section summarizes and describes IRM operations, maintenance, and monitoring activities completed during this reporting period. In addition, a summary of the on-going feasibility study, pre-design, and remedial planning for the project is summarized.

3.1 IRM System Performance and LNAPL Recovery

As part of the O&M activities, the Spill Buster™ IRM performance is monitored on a continual basis. The combined volume of LNAPL recovered from the Spill Buster™ IRMs during the reporting period is approximately 2,749 gallons, as shown in Table 1 below. A brief summary of the system performance and LNAPL recovery for each IRM follows.

MW-5 IRM

The Spill Buster™ IRM located at MW-5 was operational during the reporting period and recovered a total of approximately 1,079 gallons of LNAPL (average 18 gallons per day).

MW-9 IRM

The Spill Buster™ IRM located at MW-9 was operational during the reporting period and recovered a total of approximately 1,269 gallons of LNAPL (average 23 gallons per day).

MW-14 IRM

The Spill Buster™ IRM located at MW-14 was operational during the reporting period and recovered a total of approximately 12 gallons of LNAPL (average 0.2 gallons per day).

MW-24 IRM

The Spill Buster™ IRM located at MW-24 was operational during the reporting period and recovered a total of approximately 389 gallons of LNAPL (average 6 gallons per day).

The combined volume of LNAPL recovered from the Spill Buster™ IRMs since start-up in 2012 is approximately 95,664 gallons.

TABLE 1: SUMMARY OF IRM LNAPL RECOVERY

Monitoring Well ID	November to December 2017 LNAPL Recovery (gallons)	Cumulative LNAPL Recovery (gallons)
MW-5	1,079	24,020
MW-9	1,269	43,930
MW-14	12	762
MW-24	389	26,952
IRM Total	**2,749**	**95,664**

Recovered LNAPL was temporarily stored in ASTs within the IRM compounds, and then transported off-Site by Auchter Industrial Vac Services, Inc. (Auchter) of Linden, New Jersey, via vacuum truck, to 400 Kingsland Avenue prior to being transported to New Jersey for recycling. Auchter conducted pump-outs on November 8, November 13, November 20, November 27, December 4, December 11, December 18, and December 27. Documentation from the LNAPL transport by Auchter is provided in Appendix B.

3.2 Monitoring Well LNAPL Recovery

As previously discussed, select monitoring wells within the Site were gauged on a weekly basis and LNAPL observed greater than approximately one foot was removed using a hand-held, portable LNAPL skimming tool (Clean Earth Spill Buddy) or peristaltic pump fitted with polyethylene tubing. As shown below on Table 2, a total of approximately 429 gallons of LNAPL was recovered from monitoring wells MW-42, MW-48D, MW-49S, MW-49M, MW-50, MW-55, MW-57, and MW-61 using the Spill Buddy during this reporting period. In addition, approximately four gallons of LNAPL was recovered from piezometer well PZ-6 using a peristaltic pump during the reporting period months of November and December 2017.

TABLE 2: SUMMARY OF SPILL BUDDY RECOVERY

Monitoring Well ID	November to December 2017 LNAPL Recovery (gallons)	Cumulative LNAPL Recovery (gallons)
MW-42	146	3,217
MW-48D	78	2,463
MW-49S	3	49
MW-49M	104	1,838
MW-50	79	1,409
MW-55	8	471
MW-57	8	390
MW-61	4	91
Total	**429**	**9,927**

Hydrographs were prepared for the four monitoring wells that account for approximately 95 percent of this reporting period's recovery and more than half of the cumulative LNAPL recovery at the Site (not including the IRMs). These figures (2 through 5) show historic groundwater elevations (GWE), apparent LNAPL thicknesses, and cumulative LNAPL recovery for monitoring wells MW-42, MW-48D, MW-49M, and MW-50. LNAPL recovery at these wells remains generally consistent since recovery efforts began in 2012.

Recovered LNAPL from monitoring wells was temporarily stored within the IRM compounds in 55-gallon drums, and then transported off-Site by Auchter, via vacuum truck, to 400 Kingsland Avenue for recycling on November 8. Documentation from the LNAPL transport by Auchter is provided in Appendix B.

Passive skimmers were installed in a portion of the monitoring wells with apparent LNAPL thicknesses too low to be recovered using the Spill Buddy. The skimmers were inspected on a regular basis and re-installed as necessary. Passive skimmers were placed in the following monitoring wells during this reporting period: MW-2, MW-16, MW-22, MW-54, and MW-56. Less than one gallon of LNAPL was recovered from these

monitoring wells with the passive skimmers during this reporting period. During the next reporting period, Roux will discontinue the use of passive bailers and will evaluate the potential use of an alternate recovery method (i.e., absorbent sock, portable Spill Buddy, and peristaltic pump) for these wells.

Absorbent socks were installed in a portion of the monitoring wells observed with LNAPL thicknesses too low to be recovered using the Spill Buddy. The socks were inspected on a regular basis and replaced as necessary. Absorbent socks were placed in the following monitoring wells during this reporting period: MW-2, MW-12R, MW-16, MW-19, MW-22, MW-27, MW-30, MW-33, MW-44, MW-55, MW-67, and MW-68. Approximately 3.5 gallons of LNAPL was recovered from these monitoring wells with absorbent socks during this reporting period.

A summary of monitoring well LNAPL recovery to date is provided in Table 3. The total cumulative LNAPL recovery for all monitoring wells, since recovery efforts began in 2009, is approximately 107,359 gallons.

3.3 Boom Inspection and Maintenance

The absorbent boom voluntarily installed in the vicinity of Parcels A and B along Newtown Creek in April 2011, as described above in Section 2.2, was inspected on a weekly basis and replaced bi-weekly during this reporting period, with a few exceptions due to inaccessibility caused by adverse weather conditions. Photographic documentation of the inspections is provided in Appendix A. There were minimal sheens observed within this area during the inspections for this reporting period. The boom area appears to be providing containment and recovery. The boom area will continue to be inspected on a weekly basis.

3.4 Remedial Activities

In addition to the on-going O&M and monitoring activities, ExxonMobil is progressing the overall plans for the remedial approach to the Site and intends to implement remedial measures upon approval from the New York State Department of Environmental Conservation (NYSDEC). ExxonMobil submitted the draft Remedial Work Plan: Feasibility Study Report to the NYSDEC on July 21, 2017 to address NYSDEC comments previously provided and awaits further direction from the NYSDEC. The NYSDEC accepted written comments from the public on the Remedial Work Plan: Feasibility Study Report from July 21, 2017 through September 5, 2017. Upon approval of the Remedial Work Plan: Feasibility Study Report, a Remedial Action Work Plan will be submitted to the NYSDEC within 60 days. The Decision Document is anticipated to be submitted by the NYSDEC during the second quarter of 2018.

In preparation for the remedial design, Roux conducted pre-design investigation activities within Parcel E between December 18 and 21, 2017 in an effort to determine the practicability of enhanced LNAPL recovery trenches at this location. This investigation consisted of a structural inspection, geophysical survey, and completion of test pits. The structural inspection of the building located at 38-45 Railroad Avenue on December 12, 2017 was completed to ensure building stability during test pitting activities. Following the building inspection, a geophysical survey was completed on December 13, 2017 to ascertain the existence of subsurface features. Two test pits were completed to approximately 10 feet below grade surface.

In accordance with NYSDEC approval received on January 25, 2018 via email correspondence, LNAPL transmissivity testing will be conducted in an effort to further identify and define areas potentially suitable for additional LNAPL recovery efforts and to supplement and update existing transmissivity data. According to the Interstate Technology and Regulatory Council, LNAPL transmissivity is directly proportional to LNAPL

recoverability. LANPL transmissivity testing at select wells across the Site is anticipated to occur in March/April of 2018.

3.5 Other Activities

The absorbent boom voluntarily installed along Parcel A in February 2017, associated with the sheen initially observed on November 12, 2016, also described above in Section 2.2, was inspected and replaced weekly during this reporting period, with a few exceptions due to inaccessibility caused by adverse weather conditions. Updates on this area, including photographs, were provided, and will continue to be provided, to the NYSDEC via email on a bi-weekly basis. Inspections and absorbent boom replacement will continue as needed. Although the source of the sheen remains unclear and is observed sporadically, the hard boom and absorbent boom are providing containment and recovery. This work is being conducted outside of the Investigation Consent Order and Remediation Consent Order.

4. Groundwater Monitoring

This section provides a description of Site-wide groundwater monitoring performed during this reporting period. This work included monitoring well gauging for water level and LNAPL thickness.

The methods and results of these activities are described below.

4.1 Groundwater Monitoring

Roux collected Site-wide, fluid-level measurements on November 14, 2017 using an electronic interface probe in an attempt to characterize groundwater flow and potential LNAPL conditions. Fluid-level data collected on November 14, 2017 are provided in Table 4. These data were used to update the GWE contour map (Plate 2). Subsequent GWE contour maps will not display bulkhead well gauging results as they are not representative of regional aquifer groundwater elevations.

A total of 57 of the 62 on-Site monitoring wells, and all 12 bulkhead wells were gauged for groundwater elevation and LNAPL thickness. Note that all of these wells are on third-party owned properties. Monitoring well MW-64 was covered by piles of debris, and MW-65 (located in Parcel E) was not accessible due to overhead hazards. MW-15 and MW-54 were covered by vehicles. Parcel F has no current access agreement during this reporting period and, as such, MW-68 could not be gauged; access negotiations are on-going with the Parcel F property owner. A summary of the monitoring wells that were not accessible is provided in Table 4.

Each quarter, measurements are taken to assess any potential changes in average GWE and apparent LNAPL thickness. GWE was calculated using the monitoring well top of casing elevation and depth to water detected in the monitoring well. For monitoring wells with LNAPL, the GWE was corrected using the apparent LNAPL thickness and specific gravity. Below is an evaluation of the fluid levels across the Site during the reporting period.

Based on a review of the existing soil boring logs, fluid elevations, and historic tidal surveys, a distinct low permeability hydrogeologic layer has been identified that is located along the shoreline extending into Parcels A and B. The areal extent of this layer is assumed to be associated with an intertidal zone that historically existed along Newtown Creek prior to industrial development. There are many monitoring wells that are screened above the intertidal deposits and, therefore, the water elevation measured in these monitoring wells is indicative of shallow unconfined conditions and not the regional unconfined/semi-confined aquifer. GWEs obtained from monitoring wells that are not screened in the regional aquifer were not considered for purposes of illustrating the regional groundwater flow field presented on Plate 2. The shallow water-bearing zone demonstrates higher GWEs and typically has relatively thinner apparent LNAPL thicknesses. The general groundwater flow direction within the regional aquifer is towards the south. A more detailed summary of these hydrogeologic conditions is provided in the Remedial Work Plan: Feasibility Study Report submitted to the NYSDEC on July 21, 2017.

Of the 57 monitoring wells gauged during this reporting period, 29 had detections of LNAPL, with the apparent LNAPL thicknesses ranging from approximately 0.02 feet (MW-27) to approximately 13.52 feet (MW-42). It should be noted that some monitoring wells (e.g., MW-42 and MW-49M) are under semi-confined conditions and, as such, the LNAPL thicknesses observed in those monitoring wells are not representative of thickness in the surrounding formation and have exaggerated thicknesses of LNAPL. Regional aquifer

GWE ranged from approximately -0.94 feet to approximately 7.09 feet relative to North American Vertical Datum of 1988 in monitoring wells MW-48D and MW-59, respectively. Monitoring wells that do not correspond to the regional aquifer were not considered. As shown on Plate 2, while there may be subtle variations, groundwater flow across the Site is generally south.

4.2 Groundwater Sampling

The Site-wide groundwater sampling activities were completed from November 13 through November 17. In an effort to characterize groundwater quality, groundwater samples were collected from all accessible monitoring wells with no LNAPL detected. A total of 21 monitoring wells out of the 62 monitoring wells on-Site were sampled during this reporting period. Further details on the wells that could not be sampled are provided below.

Monitoring wells MW-4S, MW-5S, MW-6S, MW-63, and MW-67 had sheen observed or LNAPL detected with the probe during sampling preparations, and, therefore, were not sampled during the groundwater sampling event. MW-65, located in Parcel E, was within proximity to overhead hazards and, therefore, was not sampled during the groundwater sampling event. As mentioned above, Parcel F has no current access agreement and, as such, MW-68 could not be gauged.

Monitoring wells that had detections of LNAPL, and, therefore, were not sampled during the groundwater sampling event, are shown in green on Plates 3 through 5.

Groundwater samples were collected using the methods described in Low Stress Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells (United States Environmental Protection Agency, 2010), and in accordance with correspondence from the NYSDEC, dated April 8, 2010 (sampling analysis reduction) and February 22, 2012 (sampling frequency reduction).

During groundwater sampling, an in-line, water quality measurement device was used in an effort to monitor water quality indicator parameters such as pH, hydraulic conductivity, dissolved oxygen, oxygen reduction potential, temperature, and turbidity. The field parameters were recorded on well sampling data forms, which are included as Appendix C.

Groundwater samples were submitted to Eurofins Lancaster Laboratories Environmental, LLC of Lancaster, Pennsylvania for analyses of volatile organic compounds (VOCs) Target Compound List (TCL) using Method 8260C, semivolatile organic compounds (SVOCs) TCL using Method 8270D, and Target Analyte List metals using Method 6010C and 7470A (mercury). The groundwater laboratory analytical data reports are provided in Appendix D. Laboratory analytical data packages for all data collected during groundwater monitoring have been provided to the NYSDEC in the electronic data deliverable (EDD) format.

As an additional quality assurance method, two blind duplicate samples were collected. Duplicate samples were collected from monitoring wells MW-29 and MW-37. The duplicate samples were collected from the monitoring wells immediately following collection of the original samples. The analytical results for blind duplicates and all samples collected are discussed later in this SSUR, and presented in Tables 5 through 7. The summary of the frequency of exceedances are presented in Table 8.

4.3 Groundwater Sampling Results

The following sections summarize the groundwater quality based on groundwater samples that were collected during this reporting period. Laboratory analytical data packages are provided to the NYSDEC in the EDD format, and summary analytical data tables are provided in Tables 5 through 7. Analytical data were compared to NYSDEC Ambient Water Quality Standards and Guidance Values (AWQSGVs), where available. These criteria are for protection of groundwater as a potential drinking water supply. Plates 3 through 5 provide a summary of the most recent groundwater quality exceedances within the Site, as well as historic groundwater sample results from the previous two sampling rounds. Generally, groundwater sampling results during this reporting period were consistent with previous sampling periods.

The discussion of groundwater quality is divided into the following sections:

- Petroleum-related dissolved contaminants;
- Metals; and
- Chlorinated volatile organic compounds (CVOCs).

4.3.1 Petroleum-Related Dissolved Contaminants

Although monitoring wells with LNAPL detections were not sampled, analytical data collected from monitoring wells screened across the water table indicate that groundwater immediately beneath the potential LNAPL accumulations contains dissolved petroleum constituents at concentrations exceeding NYSDEC AWQSGVs for Class GA groundwater. A summary of the results is provided below.

A summary of laboratory analytical data for VOCs in groundwater is presented in Table 5. A distribution of VOC exceedances in groundwater is summarized in Plate 3. Table 8 summarizes the frequency of exceedances for each compound, as well as minimum and maximum concentrations.

As summarized in Table 5, only one petroleum-related VOC exceeded the AWQSGVs. Benzene exceedances were present in four samples, with the highest concentration at 27 micrograms per liter (µg/L), at MW-37.

The laboratory analytical data for SVOCs are provided in Table 6 and are summarized on Plate 4. Analytical data for SVOCs indicate detections exceeding NYSDEC AWQSGVs were polyaromatic hydrocarbons (PAHs). Table 8 summarizes the frequency of exceedances for each compound, as well as minimum and maximum concentrations.

As summarized in Table 6, the SVOCs exceeding the AWQSGVs consisted of six different PAH compounds. Benzo(a)anthracene exceedances were present in seven monitoring wells, with a maximum concentration of 3 µg/L, at MW-46 and three occurrences of a minimum concentration of 0.1 J µg/L at MW-4D, MW-15, and MW-37. There were four exceedances of benzo(a)pyrene, with a maximum concentration of 3 µg/L and a minimum concentration of 0.2 J µg/L at monitoring wells MW-46 and MW-4D, respectively. Benzo(b)fluoranthene exceedances were present in three monitoring wells, with a maximum concentration of 2 µg/L and a minimum concentration of 0.4 J µg/L at monitoring wells MW-46 and MW-28D, respectively. There were two exceedances of benzo(k)fluoranthene, with a maximum concentration of 0.4 J µg/L and a minimum concentration of 0.1 J µg/L at monitoring wells MW-46 and MW-28, respectively. There were seven exceedances of chrysene, with a maximum concentration of 4 µg/L at monitoring well MW-46 and three occurrences of a minimum concentration of 0.1 J µg/L at monitoring wells MW-15, MW-28D, and MW-29.

There were four exceedance of indeno(1,2,3-CD)Pyrene, with a maximum concentration of 1 µg/L and a minimum concentration of 0.1 J µg/L at monitoring wells MW-46 and MW-20, respectively. The "J" qualifier on the concentration signifies the concentration is an estimated value. Samples collected from MW-46 had the most frequent number, and highest concentrations, of SVOC exceedances during this sampling round.

4.3.2 Metals

A summary of laboratory analytical data for metals in groundwater is presented in Table 7. A summary of metals data exceeding NYSDEC criteria is presented in Table 8 and is shown on Plate 5. Samples collected from monitoring wells with field turbidity measurements exceeding 50 Nephelometric Turbidity Unit during groundwater sampling are filtered by the laboratory prior to metals analysis to remove particulates, and analyzed for dissolved metals. There were no lab-filtered samples for dissolved metals collected during this reporting period.

Review of Table 8 suggests the majority of metals detections exceeding NYSDEC AWQSGVs are limited to four compounds (sodium, iron, magnesium, and manganese), which naturally occur in an environment next to a body of salt water. The metals and concentrations detected are consistent with the groundwater sampling results from the previous two sampling events.

In addition, antimony, barium, cadmium, and thallium were each detected in concentrations exceeding the AWQSGVs.

4.3.3 Chlorinated Volatile Organic Compounds

A summary of laboratory analytical data for CVOCs in groundwater is presented in Table 5. A distribution of CVOC exceedances in groundwater is summarized in Plate 3. Table 8 summarizes the frequency of exceedances for each compound, as well as minimum and maximum concentrations.

CVOCs exceeded criteria at monitoring wells MW-4D, MW-28, MW-28D, and MW-37, located in Parcel A, which consists of Lot 300. As summarized in Table 5, the CVOCs exceeding the AWQSGVs consisted of four CVOC compounds: chlorobenzene, chloroethane, cis-1,2-Dichloroethylenen and vinyl chloride. Chloroethane had the highest CVOC concentration during this sampling round at 70 µg/L at MW-4D (located in Parcel A/Lot 300).

Please note that, as stated in the Remedial Consent Order: "Nothing contained in this [Remedial Consent] Order shall be construed as requiring [ExxonMobil] to conduct any investigation and/or remedial action(s) relating to chlorinated volatile organic compounds... including any daughter compound-related contaminants, in, on, or emanating from Lot 300 within the Site, which is currently owned and operated by Waste Management of New York, LLC."

4.3.4 Groundwater Data Validation Summary

As part of the quality assurance procedures outlined in the Quality Assurance Project Plan, a number of quality assurance and control samples were collected as a part of the field sampling activities. Two blind field duplicates and two matrix spike/matrix spike duplicate samples were collected during groundwater sampling activities. Sample analyses were found generally compliant with the method requirements, except as noted above.

5. Summary of Activities for This Reporting Period and Anticipated Site-Wide Activities for the Next Reporting Period

The following section summarizes the key IRM, O&M, and groundwater monitoring activities completed from November and December 2017 at the Site, as well as anticipated activities planned for the next reporting period (January 1, 2018 through March 31, 2018).

The following items were completed during this reporting period:

- Continued O&M activities at the IRMs, including, but not limited to, tracking and optimization of Spill Buster™ LNAPL recovery, and adjustment and maintenance of associated equipment;
- Manual LNAPL recovery at monitoring wells on a weekly basis using a hand-held Spill Buddy and traditional bailers;
- Inspection and re-installation of passive skimmers and absorbent socks (if necessary) in monitoring wells with LNAPL thicknesses too low to recover with the Spill Buddy;
- Bulkhead absorbent boom inspections and replacement, to the extent necessary;
- Collection of fluid-level measurements from the Site monitoring wells;
- Groundwater sampling of the Site monitoring wells for volatile organic compounds, semivolatile organic compounds, and metals; and
- Parcel E pre-design investigation (building inspection, geophysical survey, pre-design test pits, surveying) for upcoming, proposed remedial activities.

The following items are on-going, Site-wide activities that are anticipated to occur during the next reporting period:

- Continued O&M activities at the IRMs, including, but not limited to, tracking and optimization of Spill Buster™ LNAPL recovery, and adjustment and maintenance of associated equipment;
- Manual LNAPL recovery at monitoring wells on a weekly basis using a hand-held Spill Buddy and traditional bailers;
- Inspection and re-installation of absorbent socks (if necessary) in monitoring wells with LNAPL thicknesses too low to recover with the Spill Buddy;
- Bulkhead absorbent boom inspections and replacement, to the extent necessary;
- Collection of fluid-level measurements from the Site monitoring wells; and
- Completion of LNAPL transmissivity tests at select wells across the Site.

On behalf of ExxonMobil, Roux will continue to pursue the overall project goals of the Site and inform the NYSDEC of completed and upcoming activities pursuant to the requirements of the Remedial Consent Order and Investigation Consent Order.

Respectfully submitted,

ROUX ENVIRONMENTAL ENGINEERING AND GEOLOGY, D.P.C.



Thalassa Sodre
Project Engineer/
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Christopher Proce
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TABLES

1. Summary of IRM LNAPL Recovery *(embedded)*
2. Summary of Spill Buddy LNAPL Recovery *(embedded*)
3. LNAPL Recovery for All Monitoring Wells
4. Monitoring Well Gauging Data
5. Summary of Volatile Organic Compounds in Groundwater
6. Summary of Semivolatile Organic Compounds in Groundwater
7. Summary of Metals in Groundwater
8. Summary of the Frequency of Exceedances in Groundwater

Table 3

LNAPL Recovery for All Monitoring Wells
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	Cumulative Recovery (gallons)
MW-2	25
MW-4S	430
MW-5	24,020
MW-6	71
MW-7	19
MW-9	43,930
MW-12R	1
MW-14	762
MW-16	78
MW-17	237
MW-18	18
MW-19	27
MW-22	2
MW-23	219
MW-24	26,952
MW-27	2
MW-28	7
MW-29	1
MW-30	65
MW-31	1
MW-32	2
MW-33	75
MW-42	3,217
MW-48S	2
MW-48D	2,436
MW-49S	49
MW-49M	1,838
MW-49D	12
MW-50	1,409
MW-54	41
MW-55	471
MW-56	15
MW-57	390
MW-58	1
MW-61	91
MW-64	127
MW-65	181
MW-66	116
MW-67	3
MW-68	8
PZ-6	4

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-1	7-Apr-09	ND	9.51	--	13.49	3.98	
MW-1	17-Apr-09	ND	9.43	--	13.49	4.06	
MW-1	29-Jul-09	ND	8.56	--	13.49	4.93	
MW-1	26-Oct-09	ND	8.08	--	13.49	5.41	
MW-1	22-Jan-10	ND	8.36	--	13.49	5.13	
MW-1	21-Apr-10	ND	8.30	--	13.49	5.19	
MW-1	19-Jul-10	ND	8.11	--	13.49	5.38	
MW-1	15-Oct-10	ND	7.69	--	13.49	5.80	
MW-1	11-Jan-11	ND	10.74	--	13.49	2.75	
MW-1	25-Apr-11	ND	9.81	--	13.49	3.68	
MW-1	22-Jul-11	ND	10.55	--	13.49	2.94	
MW-1	18-Oct-11	ND	10.03	--	13.49	3.46	
MW-1	16-Jan-12	ND	10.42	--	13.49	3.07	
MW-1	12-Apr-12	ND	11.11	--	13.49	2.38	
MW-1	11-Jul-12	ND	10.26	--	13.49	3.23	
MW-1	23-Oct-12	ND	10.60	--	13.49	2.89	
MW-1	18-Jan-13	ND	10.86	--	13.49	2.63	
MW-1	18-Apr-13	ND	10.88	--	13.49	2.61	
MW-1	15-Jul-13	ND	10.49	--	13.49	3.00	
MW-1	28-Oct-13	NM	NM	NM	13.49	NM	Well inaccessible
MW-1	27-Jan-14	NM	NM	NM	13.49	NM	Well inaccessible
MW-1	7-Apr-14	NM	NM	NM	13.49	NM	Unable to locate
MW-1	18-Jul-14	NM	NM	NM	13.49	NM	Well inaccessible
MW-1	15-Oct-14	NM	NM	NM	13.49	NM	Under asphalt
MW-1	4-Feb-15	NM	NM	NM	13.49	NM	Unable to locate
MW-1	29-Apr-15	NM	NM	NM	13.49	NM	Unable to locate
MW-1	14-Jul-15	NM	NM	NM	12.54	NM	Unable to locate
MW-1	13-Oct-15	ND	8.90	--	12.54	3.64	
MW-1	9-Nov-15	ND	9.97	--	12.54	2.57	
MW-1	4-Feb-16	ND	9.68	--	12.54	2.86	
MW-1	11-May-16	ND	9.78	--	12.54	2.76	
MW-1	23-Aug-16	ND	9.91	--	12.54	2.63	
MW-1	10-Nov-16	ND	9.52	--	12.54	3.02	
MW-1	24-Feb-17	ND	9.73	--	12.54	2.81	
MW-1	1-May-17	ND	9.27	--	12.54	3.27	
MW-1	14-Aug-17	ND	9.15	--	12.54	3.39	
MW-1	14-Nov-17	ND	9.76	--	12.54	2.78	
MW-2	7-Apr-09	ND	5.45	--	6.56	1.11	
MW-2	17-Apr-09	7.72	7.81	0.09	6.56	-1.17	
MW-2	29-Jul-09	7.78	8.88	1.10	6.56	-1.32	
MW-2	26-Oct-09	6.72	8.09	1.37	6.56	-0.29	
MW-2	22-Jan-10	8.19	9.93	1.74	6.56	-1.80	
MW-2	21-Apr-10	7.54	8.04	0.50	6.56	-1.03	
MW-2	19-Jul-10	7.49	7.73	0.24	6.56	-0.95	
MW-2	15-Oct-10	7.13	7.57	0.44	6.56	-0.61	
MW-2	11-Jan-11	6.86	7.18	0.32	6.56	-0.33	
MW-2	25-Apr-11	7.90	8.10	0.20	6.56	-1.36	
MW-2	22-Jul-11	7.84	7.99	0.15	6.56	-1.29	
MW-2	18-Oct-11	7.05	7.19	0.14	6.56	-0.50	
MW-2	16-Jan-12	7.88	8.00	0.12	6.56	-1.33	
MW-2	12-Apr-12	7.80	7.87	0.07	6.56	-1.25	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-2	11-Jul-12	7.75	8.05	0.30	6.56	-1.22	
MW-2	23-Oct-12	6.55	6.69	0.14	6.56	0.00	
MW-2	18-Jan-13	7.70	7.80	0.10	6.56	-1.15	
MW-2	18-Apr-13	7.84	8.02	0.18	6.56	-1.30	
MW-2	15-Jul-13	8.12	8.31	0.19	6.56	-1.58	
MW-2	28-Oct-13	7.38	7.58	0.20	6.56	-0.84	
MW-2	27-Jan-14	NM	NM	NM	6.56	NM	Well inaccessible
MW-2	7-Apr-14	7.65	7.84	0.19	6.56	-1.11	
MW-2	18-Jul-14	8.20	8.4	0.20	6.56	-1.66	
MW-2	15-Oct-14	NM	NM	NM	6.56	NM	Under asphalt
MW-2	4-Feb-15	NM	NM	NM	6.56	NM	Unable to locate
MW-2	29-Apr-15	11.01	11.50	0.49	NM	NM	Top of casing not measured
MW-2	14-Jul-15	11.12	11.57	0.45	10.24	-0.92	Well damaged
MW-2	13-Oct-15	NM	NM	NM	10.24	NM	Under asphalt
MW-2	9-Nov-15	NM	NM	NM	10.24	NM	Under asphalt
MW-2	4-Feb-16	NM	NM	NM	10.24	NM	Flooded
MW-2	11-May-16	12.71	12.72	0.01	10.24	-2.47	
MW-2	23-Aug-16	14.19	15.35	1.16	10.24	-4.06	
MW-2	10-Nov-16	12.49	14.55	2.06	10.24	-2.45	
MW-2	24-Feb-17	11.88	13.00	1.12	10.24	-1.75	
MW-2	1-May-17	13.78	14.56	0.78	10.24	-3.61	
MW-2	14-Aug-17	12.69	13.61	0.92	10.24	-2.54	
MW-2	14-Nov-17	10.95	12.60	1.65	10.24	-0.87	
MW-3	7-Apr-09	NM	NM	NM	7.95	NM	
MW-3	17-Apr-09	NM	NM	NM	7.95	NM	
MW-3	29-Jul-09	NM	NM	NM	7.95	NM	
MW-3	26-Oct-09	8.15	9.70	1.55	7.95	-0.27	
MW-3	22-Jan-10	8.20	8.22	0.02	7.95	-0.25	
MW-3	21-Apr-10	8.95	9.05	0.10	7.95	-1.00	
MW-3	19-Jul-10	8.80	9.55	0.75	7.95	-0.88	
MW-3	15-Oct-10	7.55	11.04	3.49	7.95	0.25	
MW-3	11-Jan-11	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	25-Apr-11	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	22-Jul-11	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	18-Oct-11	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	16-Jan-12	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	12-Apr-12	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	11-Jul-12	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	23-Oct-12	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	18-Jan-13	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	18-Apr-13	NM	NM	NM	7.95	NM	Unable to open
MW-3	15-Jul-13	5.60	8.75	3.15	7.95	2.22	
MW-3	28-Oct-13	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	27-Jan-14	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	7-Apr-14	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	18-Jul-14	NM	NM	NM	7.95	NM	LNAPL too viscous
MW-3	15-Oct-14	NM	NM	NM	7.95	NM	Under asphalt
MW-3	4-Feb-15	NM	NM	NM	7.95	NM	Well removed by WM
MW-4	7-Apr-09	6.59	9.65	3.06	8.87	1.92	
MW-4	17-Apr-09	6.52	11.55	5.03	8.87	1.76	

Table 4
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ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-4	29-Jul-09	6.00	10.95	4.95	8.87	2.29	Well abandoned
MW-4S	26-Oct-09	6.31	7.20	0.89	8.81	2.41	
MW-4S	22-Jan-10	6.50	7.27	0.77	8.81	2.23	
MW-4S	21-Apr-10	5.81	6.43	0.62	8.81	2.93	
MW-4S	19-Jul-10	6.34	7.22	0.88	8.81	2.38	
MW-4S	15-Oct-10	6.34	7.42	1.08	8.81	2.36	
MW-4S	11-Jan-11	7.41	8.15	0.74	8.81	1.32	
MW-4S	25-Apr-11	6.50	7.27	0.77	8.81	2.23	
MW-4S	22-Jul-11	6.39	7.05	0.66	8.81	2.35	
MW-4S	18-Oct-11	5.92	6.40	0.48	8.81	2.84	
MW-4S	16-Jan-12	7.18	7.90	0.72	8.81	1.55	
MW-4S	12-Apr-12	7.30	7.95	0.65	8.81	1.44	
MW-4S	11-Jul-12	6.72	7.40	0.68	8.81	2.02	
MW-4S	23-Oct-12	7.12	7.75	0.63	8.81	1.62	
MW-4S	18-Jan-13	7.00	7.42	0.42	8.81	1.77	
MW-4S	18-Apr-13	7.18	7.7	0.52	8.81	1.58	
MW-4S	15-Jul-13	6.92	7.6	0.68	8.81	1.82	
MW-4S	28-Oct-13	7.20	7.81	0.61	8.81	1.55	
MW-4S	27-Jan-14	7.28	7.6	0.32	8.81	1.50	
MW-4S	7-Apr-14	6.80	7.14	0.34	8.81	1.97	
MW-4S	18-Jul-14	6.59	7.08	0.49	8.81	2.17	
MW-4S	15-Oct-14	6.84	7.35	0.51	8.81	1.92	
MW-4S	4-Feb-15	NM	NM	NM	8.81	NM	Submerged in water
MW-4S	29-Apr-15	5.34	5.83	0.49	8.81	3.42	
MW-4S	14-Jul-15	7.81	7.86	0.05	11.28	3.46	
MW-4S	13-Oct-15	ND	9.70	--	11.28	1.58	
MW-4S	9-Nov-15	8.11	8.19	0.08	11.28	3.16	
MW-4S	4-Feb-16	ND	7.43	--	11.28	3.85	
MW-4S	11-May-16	ND	7.35	--	11.28	3.93	
MW-4S	23-Aug-16	7.43	7.44	0.01	11.28	3.85	
MW-4S	10-Nov-16	ND	7.11	--	11.28	4.17	
MW-4S	24-Feb-17	ND	7.19	--	11.28	4.09	
MW-4S	1-May-17	ND	6.80	--	11.28	4.48	
MW-4S	14-Aug-17	ND	6.74	--	11.28	4.54	
MW-4S	14-Nov-17	ND	7.50	--	11.28	3.78	
MW-4D	26-Oct-09	ND	6.95	--	8.57	1.62	
MW-4D	22-Jan-10	ND	7.72	--	8.57	0.85	
MW-4D	21-Apr-10	ND	6.71	--	8.57	1.86	
MW-4D	19-Jul-10	ND	7.09	--	8.57	1.48	
MW-4D	15-Oct-10	ND	6.41	--	8.57	2.16	
MW-4D	11-Jan-11	ND	8.42	--	8.57	0.15	
MW-4D	25-Apr-11	ND	7.51	--	8.57	1.06	
MW-4D	22-Jul-11	ND	7.68	--	8.57	0.89	
MW-4D	18-Oct-11	ND	6.50	--	8.57	2.07	
MW-4D	16-Jan-12	ND	7.85	--	8.57	0.72	
MW-4D	12-Apr-12	ND	8.46	--	8.57	0.11	
MW-4D	11-Jul-12	ND	7.66	--	8.57	0.91	
MW-4D	23-Oct-12	ND	7.70	--	8.57	0.87	
MW-4D	18-Jan-13	ND	8.43	--	8.57	0.14	
MW-4D	18-Apr-13	ND	8.36	--	8.57	0.21	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-4D	15-Jul-13	ND	7.88	--	8.57	0.69	
MW-4D	28-Oct-13	ND	8.89	--	8.57	-0.32	
MW-4D	27-Jan-14	ND	8.19	--	8.57	0.38	
MW-4D	7-Apr-14	ND	7.85	--	8.57	0.72	
MW-4D	18-Jul-14	ND	7.40	--	8.57	1.17	
MW-4D	15-Oct-14	ND	8.10	--	8.57	0.47	
MW-4D	4-Feb-15	NM	NM	NM	8.57	NM	Submerged in water
MW-4D	29-Apr-15	ND	7.61	--	8.57	0.96	
MW-4D	14-Jul-15	ND	9.32	--	11.32	2.00	
MW-4D	13-Oct-15	NM	NM	NM	11.32	NM	Under vehicle
MW-4D	9-Nov-15	ND	10.88	--	11.32	0.44	
MW-4D	5-Feb-16	ND	10.39	--	11.32	0.93	
MW-4D	11-May-16	ND	11.75	--	11.32	-0.43	
MW-4D	23-Aug-16	ND	10.83	--	11.32	0.49	
MW-4D	10-Nov-16	ND	10.58	--	11.32	0.74	
MW-4D	24-Feb-17	NM	NM	NM	11.32	NM	Under vehicle
MW-4D	1-May-17	ND	10.25	--	11.32	1.07	
MW-4D	14-Aug-17	ND	9.69	--	11.32	1.63	
MW-4D	14-Nov-17	ND	10.48	--	11.32	0.84	
MW-5S	11-Jul-12	ND	5.90	--	8.44	2.54	
MW-5S	23-Oct-12	ND	6.69	--	8.44	1.75	
MW-5S	18-Jan-13	ND	6.61	--	8.44	1.83	
MW-5S	18-Apr-13	ND	6.88	--	8.44	1.56	
MW-5S	15-Jul-13	6.00	6.01	0.01	8.44	2.44	
MW-5S	28-Oct-13	ND	7.38	--	8.44	1.06	
MW-5S	27-Jan-14	ND	6.40	--	8.44	2.04	
MW-5S	7-Apr-14	ND	6.07	--	8.44	2.37	
MW-5S	18-Jul-14	5.82	5.84	0.02	8.44	2.62	
MW-5S	4-Feb-15	NM	NM	NM	8.44	NM	Unable to locate
MW-5S	30-Apr-15	ND	6.43	--	8.44	2.01	
MW-5S	14-Jul-15	ND	6.30	--	10.19	3.89	
MW-5S	13-Oct-15	ND	6.33	--	10.19	3.86	
MW-5S	9-Nov-15	7.66	7.67	0.01	10.19	2.53	
MW-5S	4-Feb-16	ND	5.62	--	10.19	4.57	
MW-5S	11-May-16	ND	6.98	--	10.19	3.21	
MW-5S	23-Aug-16	ND	5.91	--	10.19	4.28	
MW-5S	10-Nov-16	ND	5.46	--	10.19	4.73	
MW-5S	24-Feb-17	ND	5.42	--	10.19	4.77	
MW-5S	2-May-17	ND	5.38	--	10.19	4.81	
MW-5S	14-Aug-17	ND	4.60	--	10.19	5.59	
MW-5S	14-Nov-17	ND	5.93	--	10.19	4.26	
MW-5	7-Apr-09	7.14	18.82	11.68	9.62	1.31	
MW-5	17-Apr-09	7.32	18.66	11.34	9.62	1.16	
MW-5	29-Jul-09	6.99	20.00	13.01	9.62	1.33	
MW-5	26-Oct-09	7.69	18.05	10.36	9.62	0.89	
MW-5	22-Jan-10	NM	NM	NM	9.62	NM	
MW-5	21-Apr-10	7.11	19.60	12.49	9.62	1.26	
MW-5	19-Jul-10	6.94	19.60	12.66	9.62	1.41	
MW-5	15-Oct-10	7.30	20.02	12.72	9.62	1.04	
MW-5	11-Jan-11	9.47	19.48	10.01	9.62	-0.85	

Table 4
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ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-5	25-Apr-11	8.69	20.11	11.42	9.62	-0.22	
MW-5	22-Jul-11	8.09	19.11	11.02	9.62	0.42	
MW-5	18-Oct-11	6.95	18.72	11.77	9.62	1.49	
MW-5	16-Jan-12	8.23	18.90	10.67	9.62	0.32	
MW-5	12-Apr-12	8.70	19.60	10.90	9.62	-0.17	
MW-5	11-Jul-12	8.30	19.35	11.05	9.62	0.21	
MW-5	23-Oct-12	11.00	22.10	11.10	11.44	-0.67	
MW-5	18-Jan-13	10.60	21.80	11.20	11.44	-0.28	
MW-5	18-Apr-13	11.70	14.24	2.54	11.44	-0.51	
MW-5	15-Jul-13	NM	NM	NM	11.44	NM	
MW-5	28-Oct-13	11.15	19.30	8.15	11.44	-0.53	
MW-5	27-Jan-14	NM	NM	NM	11.44	NM	
MW-5	7-Apr-14	11.90	12.00	0.10	11.44	-0.47	
MW-5	18-Jul-14	10.14	21.00	10.86	11.44	0.21	
MW-5	15-Oct-14	14.06	25.40	11.34	11.44	-3.76	
MW-5	4-Feb-15	NM	NM	NM	11.44	NM	Well inaccessible
MW-5	30-Apr-15	9.02	20.68	11.66	11.44	1.25	System off
MW-5	14-Jul-15	5.96	20.90	14.94	10.12	2.66	System off
MW-5	13-Oct-15	8.21	20.90	12.69	10.12	0.64	System off
MW-5	10-Nov-15	8.67	20.90	12.23	10.12	0.22	System off
MW-5	4-Feb-16	9.42	20.72	11.30	10.12	-0.43	System off
MW-5	11-May-16	10.06	13.52	3.46	10.12	-0.29	System on
MW-5	23-Aug-16	10.32	15.38	5.06	10.12	-0.71	System on
MW-5	10-Nov-16	10.32	15.38	5.06	10.12	-0.71	System on
MW-5	24-Feb-17	11.07	11.26	0.19	10.12	-0.97	System on
MW-5	1-May-17	10.03	17.92	7.89	10.12	-0.70	System on
MW-5	14-Aug-17	9.76	13.28	3.52	10.12	0.01	System on
MW-5	14-Nov-17	9.38	15.11	5.73	10.12	0.17	System on
MW-6S	11-Jul-12	9.20	9.68	0.48	12.15	2.90	
MW-6S	23-Oct-12	9.09	9.65	0.56	12.15	3.01	
MW-6S	18-Jan-13	9.80	10.40	0.60	12.15	2.29	
MW-6S	18-Apr-13	9.75	10.80	1.05	12.15	2.30	
MW-6S	15-Jul-13	9.40	10.12	0.72	12.15	2.68	
MW-6S	28-Oct-13	10.09	12.20	2.11	12.15	1.86	
MW-6S	27-Jan-14	9.60	10.30	0.70	12.15	2.48	
MW-6S	7-Apr-14	9.42	9.98	0.56	12.15	2.68	
MW-6S	18-Jul-14	9.19	9.97	0.78	12.15	2.89	
MW-6S	15-Oct-14	NM	NM	NM	12.15	NM	Well inaccessible
MW-6S	4-Feb-15	NM	NM	NM	12.15	NM	Unable to locate
MW-6S	29-Apr-15	NM	NM	NM	12.15	NM	Covered
MW-6S	14-Jul-15	7.84	7.99	0.15	10.39	2.54	
MW-6S	13-Oct-15	7.20	7.75	0.55	10.39	3.14	
MW-6S	9-Nov-15	ND	7.49	--	10.39	2.90	
MW-6S	4-Feb-16	7.00	7.23	0.23	10.39	3.37	
MW-6S	11-May-16	7.34	7.60	0.26	10.39	3.03	
MW-6S	23-Aug-16	ND	8.16	--	10.39	2.23	
MW-6S	10-Nov-16	7.78	8.05	0.27	10.39	2.58	
MW-6S	24-Feb-17	ND	6.50	--	10.39	3.89	
MW-6S	1-May-17	ND	6.51	--	10.39	3.88	
MW-6S	14-Aug-17	ND	4.89	--	10.39	5.50	
MW-6S	14-Nov-17	ND	6.12	--	10.39	4.27	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-6	7-Apr-09	9.09	12.18	3.09	11.80	2.38	
MW-6	17-Apr-09	9.35	12.55	3.20	11.80	2.11	
MW-6	29-Jul-09	8.79	12.82	4.03	11.80	2.59	
MW-6	26-Oct-09	9.08	15.55	6.47	11.80	2.04	
MW-6	22-Jan-10	9.22	18.00	8.78	11.80	1.66	
MW-6	21-Apr-10	8.62	9.25	0.63	11.80	3.11	
MW-6	19-Jul-10	8.73	10.34	1.61	11.80	2.90	
MW-6	15-Oct-10	ND	9.29	--	11.80	2.51	
MW-6	11-Jan-11	11.20	11.63	0.43	11.80	0.55	
MW-6	25-Apr-11	10.28	11.00	0.72	11.80	1.44	
MW-6	22-Jul-11	9.91	11.05	1.14	11.80	1.77	
MW-6	18-Oct-11	8.40	8.85	0.45	11.80	3.35	
MW-6	16-Jan-12	9.85	10.50	0.65	11.80	1.88	
MW-6	12-Apr-12	10.21	10.65	0.44	11.80	1.54	
MW-6	11-Jul-12	10.10	11.09	0.99	11.80	1.60	
MW-6	23-Oct-12	10.48	10.75	0.27	11.80	1.29	
MW-6	18-Jan-13	11.08	11.80	0.72	11.80	0.64	
MW-6	18-Apr-13	10.94	11.83	0.89	11.80	0.77	
MW-6	15-Jul-13	10.58	10.68	0.10	11.80	1.21	
MW-6	28-Oct-13	10.80	11.16	0.36	11.80	0.96	
MW-6	27-Jan-14	10.79	12.59	1.80	11.80	0.82	
MW-6	7-Apr-14	10.77	11.70	0.93	11.80	0.93	
MW-6	18-Jul-14	10.00	10.18	0.18	11.80	1.78	
MW-6	15-Oct-14	NM	NM	NM	11.80	NM	Well inaccessible
MW-6	4-Feb-15	NM	NM	NM	11.80	NM	Unable to locate
MW-6	29-Apr-15	NM	NM	NM	11.80	NM	Unable to locate
MW-6	14-Jul-15	NM	NM	NM	11.80	NM	Destroyed during WM Construction
MW-7	7-Apr-09	4.82	5.18	0.36	6.54	1.69	
MW-7	17-Apr-09	7.74	8.42	0.68	6.54	-1.26	
MW-7	29-Jul-09	7.80	9.30	1.50	6.54	-1.39	
MW-7	26-Oct-09	7.07	7.70	0.63	6.54	-0.58	
MW-7	22-Jan-10	6.04	7.62	1.58	6.54	0.36	
MW-7	21-Apr-10	8.05	8.10	0.05	6.54	-1.51	
MW-7	19-Jul-10	8.00	9.66	1.66	6.54	-1.60	
MW-7	15-Oct-10	6.34	7.59	1.25	6.54	0.09	
MW-7	11-Jan-11	7.59	8.71	1.12	6.54	-1.15	
MW-7	25-Apr-11	5.16	5.21	0.05	6.54	1.38	
MW-7	22-Jul-11	7.95	8.97	1.02	6.54	-1.50	
MW-7	18-Oct-11	7.22	8.42	1.20	6.54	-0.78	
MW-7	16-Jan-12	7.85	8.00	0.15	6.54	-1.32	
MW-7	12-Apr-12	8.15	8.30	0.15	6.54	-1.62	
MW-7	11-Jul-12	7.90	9.00	1.10	6.54	-1.46	
MW-7	23-Oct-12	7.99	8.10	0.11	6.54	-1.46	
MW-7	18-Jan-13	7.80	7.92	0.12	6.54	-1.27	
MW-7	18-Apr-13	8.10	8.23	0.13	6.54	-1.57	
MW-7	15-Jul-13	7.95	8.60	0.65	6.54	-1.47	
MW-7	28-Oct-13	NM	NM	NM	6.54	NM	Well inaccessible
MW-7	27-Jan-14	NM	NM	NM	6.54	NM	Well inaccessible
MW-7	7-Apr-14	7.75	7.95	0.20	6.54	-1.23	

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ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-7	18-Jul-14	NM	NM	NM	6.54	NM	LNAPL too viscous
MW-7	15-Oct-14	7.00	7.18	0.18	6.54	-0.48	
MW-7	4-Feb-15	NM	NM	NM	6.54	NM	Under ice
MW-7	29-Apr-15	NM	NM	NM	6.54	NM	Covered
MW-7	14-Jul-15	10.85	12.08	1.23	9.62	-1.34	
MW-7	13-Oct-15	7.25	7.75	0.50	9.62	2.33	
MW-7	10-Nov-15	7.61	7.65	0.04	9.62	2.01	
MW-7	4-Feb-16	11.59	11.97	0.38	9.62	-2.00	
MW-7	11-May-16	12.88	13.60	0.72	9.62	-3.32	
MW-7	23-Aug-16	11.58	13.31	1.73	9.62	-2.11	
MW-7	10-Nov-16	10.55	11.80	1.25	9.62	-1.04	
MW-7	24-Feb-17	11.62	12.66	1.04	9.62	-2.09	
MW-7	1-May-17	11.25	12.10	0.85	9.62	-1.70	
MW-7	14-Aug-17	11.36	12.71	1.35	9.62	-1.86	
MW-7	14-Nov-17	10.85	11.14	0.29	9.62	-1.26	
MW-8	7-Apr-09	ND	4.09	--	5.80	1.71	
MW-8	17-Apr-09	ND	7.54	--	5.80	-1.74	
MW-8	29-Jul-09	ND	7.5	--	5.80	-1.70	
MW-8	26-Oct-09	ND	6.83	--	5.80	-1.03	
MW-8	22-Jan-10	ND	6.59	--	5.80	-0.79	
MW-8	21-Apr-10	ND	7.66	--	5.80	-1.86	
MW-8	19-Jul-10	ND	7.42	--	5.80	-1.62	
MW-8	15-Oct-10	ND	6.87	--	5.80	-1.07	
MW-8	11-Jan-11	ND	6.19	--	5.80	-0.39	
MW-8	25-Apr-11	ND	7.77	--	5.80	-1.97	
MW-8	22-Jul-11	ND	7.79	--	5.80	-1.99	
MW-8	18-Oct-11	ND	6.59	--	5.80	-0.79	
MW-8	16-Jan-12	ND	7.20	--	5.80	-1.40	
MW-8	12-Apr-12	ND	8.42	--	5.80	-2.62	
MW-8	11-Jul-12	ND	7.94	--	5.80	-2.14	
MW-8	23-Oct-12	ND	7.69	--	5.80	-1.89	
MW-8	18-Jan-13	ND	6.81	--	5.80	-1.01	
MW-8	18-Apr-13	ND	7.92	--	5.80	-2.12	
MW-8	15-Jul-13	ND	7.6	--	5.80	-1.80	
MW-8	28-Oct-13	ND	7.09	--	5.80	-1.29	
MW-8	27-Jan-14	ND	8.27	--	5.80	-2.47	
MW-8	7-Apr-14	ND	8.08	--	5.80	-2.28	
MW-8	18-Jul-14	ND	7.51	--	5.80	-1.71	
MW-8	15-Oct-14	ND	5.80	--	5.80	0.00	
MW-8	4-Feb-15	NM	NM	NM	5.80	NM	Unable to locate
MW-8	29-Apr-15	ND	7.84	--	5.80	-2.04	
MW-8	14-Jul-15	ND	7.69	--	6.54	-1.15	
MW-8	13-Oct-15	ND	3.40	--	6.54	3.14	
MW-8	9-Nov-15	ND	8.53	--	6.54	-1.99	
MW-8	4-Feb-16	ND	8.31	--	6.54	-1.77	
MW-8	11-May-16	ND	8.28	--	6.54	-1.74	
MW-8	23-Aug-16	ND	8.76	--	6.54	-2.22	
MW-8	10-Nov-16	ND	7.45	--	6.54	-0.91	
MW-8	24-Feb-17	ND	8.54	--	6.54	-2.00	
MW-8	1-May-17	ND	8.52	--	6.54	-1.98	
MW-8	14-Aug-17	ND	8.02	--	6.54	-1.48	

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ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-8	14-Nov-17	ND	7.74	--	6.54	-1.20	
MW-9	7-Apr-09	8.4	17.7	9.30	9.76	0.42	
MW-9	17-Apr-09	8.28	17.51	9.23	9.76	0.54	
MW-9	29-Jul-09	8.35	17.9	9.55	9.76	0.44	
MW-9	26-Oct-09	8.84	17.90	9.06	9.76	0.00	
MW-9	22-Jan-10	9.85	18.20	8.35	9.76	-0.94	
MW-9	21-Apr-10	8.86	14.99	6.13	9.76	0.28	
MW-9	19-Jul-10	8.50	17.99	9.49	9.76	0.30	
MW-9	15-Oct-10	8.60	13.83	5.23	9.76	0.63	
MW-9	11-Jan-11	10.52	18.16	7.64	9.76	-1.54	
MW-9	25-Apr-11	9.94	17.85	7.91	9.76	-0.98	
MW-9	22-Jul-11	9.46	17.80	8.34	9.76	-0.55	
MW-9	18-Oct-11	8.71	16.85	8.14	9.76	0.22	
MW-9	16-Jan-12	11.40	19.45	8.05	11.37	-0.85	
MW-9	12-Apr-12	11.95	19.30	7.35	11.37	-1.33	
MW-9	11-Jul-12	11.35	19.20	7.85	11.37	-0.78	
MW-9	23-Oct-12	11.65	19.50	7.85	11.37	-1.08	
MW-9	18-Jan-13	NM	NM	NM	11.37	NM	
MW-9	18-Apr-13	13.8	16.3	2.50	11.37	-2.68	
MW-9	15-Jul-13	NM	NM	NM	11.37	NM	
MW-9	28-Oct-13	12.24	19.50	7.26	11.37	-1.61	
MW-9	27-Jan-14	12.75	18.40	5.65	11.37	-1.95	
MW-9	7-Apr-14	12.4	14.20	1.80	11.37	-1.21	
MW-9	18-Jul-14	11.20	19.40	8.20	11.37	-0.66	
MW-9	15-Oct-14	11.44	19.50	8.06	11.37	-0.89	
MW-9	4-Feb-15	11.40	19.50	8.10	11.37	-0.85	System off
MW-9	29-Apr-15	12.14	15.08	2.94	11.37	-1.07	System on
MW-9	14-Jul-15	11.80	19.57	7.77	11.37	-1.22	System on
MW-9	13-Oct-15	11.86	12.44	0.58	11.37	-0.55	System on
MW-9	9-Nov-15	11.79	18.35	6.56	11.37	-1.09	System on
MW-9	4-Feb-16	12.54	12.91	0.37	11.37	-1.21	System on
MW-9	11-May-16	13.27	18.92	5.65	11.37	-2.47	System on
MW-9	23-Aug-16	11.90	19.38	7.48	11.37	-1.29	System on
MW-9	10-Nov-16	12.50	15.12	2.62	11.37	-1.40	System on
MW-9	24-Feb-17	12.68	17.89	5.21	11.37	-1.84	System on
MW-9	1-May-17	12.54	15.40	2.86	11.37	-1.46	System on
MW-9	14-Aug-17	12.18	13.01	0.83	11.37	-0.89	System on
MW-9	14-Nov-17	12.14	12.83	0.69	11.37	-0.84	System on
MW-10	7-Apr-09	ND	8.74	--	10.56	1.82	
MW-10	17-Apr-09	ND	8.64	--	10.56	1.92	
MW-10	29-Jul-09	ND	8.10	--	10.56	2.46	
MW-10	26-Oct-09	ND	8.20	--	10.56	2.36	
MW-10	22-Jan-10	ND	8.63	--	10.56	1.93	
MW-10	21-Apr-10	ND	8.28	--	10.56	2.28	
MW-10	19-Jul-10	ND	8.47	--	10.56	2.09	
MW-10	15-Oct-10	ND	8.25	--	10.56	2.31	
MW-10	11-Jan-11	ND	8.68	--	10.56	1.88	
MW-10	25-Apr-11	ND	8.27	--	10.56	2.29	
MW-10	22-Jul-11	ND	8.68	--	10.56	1.88	
MW-10	18-Oct-11	ND	8.21	--	10.56	2.35	

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Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-10	16-Jan-12	ND	8.39	--	10.56	2.17	
MW-10	12-Apr-12	ND	8.54	--	10.56	2.02	
MW-10	11-Jul-12	ND	8.40	--	10.56	2.16	
MW-10	23-Oct-12	ND	8.50	--	10.56	2.06	
MW-10	18-Jan-13	ND	8.55	--	10.56	2.01	
MW-10	18-Apr-13	8.82	8.83	0.01	10.56	1.74	
MW-10	15-Jul-13	ND	8.76	--	10.56	1.80	
MW-10	28-Oct-13	ND	8.97	--	10.56	1.59	
MW-10	27-Jan-14	ND	8.75	--	10.56	1.81	
MW-10	7-Apr-14	ND	8.4	--	10.56	2.16	
MW-10	18-Jul-14	ND	8.4	--	10.56	2.16	
MW-10	15-Oct-14	ND	8.58	--	10.56	1.98	
MW-10	4-Feb-15	ND	8.59	--	10.56	1.97	
MW-10	29-Apr-15	ND	8.62	--	10.56	1.94	
MW-10	14-Jul-15	ND	8.57	--	10.56	1.99	
MW-10	13-Oct-15	ND	8.41	--	10.56	2.15	
MW-10	9-Nov-15	ND	8.81	--	10.56	1.75	
MW-10	4-Feb-16	ND	8.33	--	10.56	2.23	
MW-10	11-May-16	ND	8.55	--	10.56	2.01	
MW-10	23-Aug-16	ND	8.80	--	10.56	1.76	
MW-10	10-Nov-16	ND	8.68	--	10.56	1.88	
MW-10	24-Feb-17	ND	8.80	--	10.56	1.76	
MW-10	1-May-17	ND	8.38	--	10.56	2.18	
MW-10	14-Aug-17	ND	8.46	--	10.56	2.10	
MW-10	14-Nov-17	ND	8.46	--	10.56	2.10	
MW-11	7-Apr-09	ND	5.73	--	6.98	1.25	
MW-11	17-Apr-09	ND	8.72	--	6.98	-1.74	
MW-11	29-Jul-09	ND	7.98	--	6.98	-1.00	
MW-11	26-Oct-09	ND	8.15	--	6.98	-1.17	
MW-11	21-Jan-10	ND	5.33	--	6.98	1.65	
MW-11	21-Apr-10	NM	NM	NM	6.98	NM	Well destroyed
MW-11R	25-Apr-11	ND	8.44	--	6.70	-1.74	
MW-11R	22-Jul-11	ND	8.46	--	6.70	-1.76	
MW-11R	18-Oct-11	ND	7.32	--	6.70	-0.62	
MW-11R	16-Jan-12	ND	8.58	--	6.70	-1.88	
MW-11R	12-Apr-12	ND	8.76	--	6.70	-2.06	
MW-11R	11-Jul-12	ND	8.19	--	6.70	-1.49	
MW-11R	23-Oct-12	ND	8.08	--	6.70	-1.38	
MW-11R	18-Jan-13	ND	7.25	--	6.70	-0.55	
MW-11R	18-Apr-13	ND	8.4	--	6.70	-1.70	
MW-11R	15-Jul-13	ND	8.11	--	6.70	-1.41	
MW-11R	28-Oct-13	ND	8.05	--	6.70	-1.35	
MW-11R	27-Jan-14	NM	NM	NM	6.70	NM	Well inaccessible
MW-11R	7-Apr-14	ND	8.51	--	6.70	-1.81	
MW-11R	18-Jul-14	ND	8.34	--	6.70	-1.64	
MW-11R	15-Oct-14	ND	7.8	--	6.70	-1.10	
MW-11R	4-Feb-15	ND	5.30	--	6.70	1.40	
MW-11R	29-Apr-15	ND	8.30	--	6.70	-1.60	
MW-11R	14-Jul-15	ND	7.58	--	6.70	-0.88	
MW-11R	13-Oct-15	ND	3.77	--	6.70	2.93	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-11R	9-Nov-15	ND	8.51	--	6.70	-1.81	
MW-11R	4-Feb-16	ND	8.66	--	6.70	-1.96	
MW-11R	11-May-16	ND	9.11	--	6.70	-2.41	
MW-11R	23-Aug-16	ND	8.44	--	6.70	-1.74	
MW-11R	10-Nov-16	ND	7.58	--	6.70	-0.88	
MW-11R	24-Feb-17	ND	8.49	--	6.70	-1.79	
MW-11R	1-May-17	ND	8.32	--	6.70	-1.62	
MW-11R	14-Aug-17	ND	8.23	--	6.70	-1.53	
MW-11R	14-Nov-17	ND	7.65	--	6.70	-0.95	
MW-12	7-Apr-09	ND	8.26	--	6.67	-1.59	
MW-12	17-Apr-09	8.40	8.41	0.01	6.67	-1.73	
MW-12	29-Jul-09	NM	NM	NM	6.67	NM	
MW-12	26-Oct-09	7.81	7.95	0.14	6.67	-1.15	
MW-12	21-Apr-10	ND	7.96	--	6.67	-1.29	
MW-12	19-Jul-10	NM	NM	NM	6.67	NM	Well destroyed
MW-12R	25-Apr-11	ND	8.49	--	6.69	-1.80	
MW-12R	22-Jul-11	8.45	8.46	0.01	6.69	-1.76	
MW-12R	18-Oct-11	7.02	7.03	0.01	6.69	-0.33	
MW-12R	16-Jan-12	8.45	8.46	0.01	6.69	-1.76	
MW-12R	12-Apr-12	8.80	8.82	0.02	6.69	-2.11	
MW-12R	11-Jul-12	8.36	8.37	0.01	6.69	-1.67	
MW-12R	23-Oct-12	9.00	9.02	0.02	6.69	-2.31	
MW-12R	18-Jan-13	ND	7.70	--	6.69	-1.01	
MW-12R	18-Apr-13	8.28	8.30	0.02	6.69	-1.59	
MW-12R	15-Jul-13	8.36	8.37	0.01	6.69	-1.67	
MW-12R	28-Oct-13	7.12	7.14	0.02	6.69	-0.43	
MW-12R	27-Jan-14	8.35	8.37	0.02	6.69	-1.66	
MW-12R	7-Apr-14	ND	11.8	--	6.69	-5.11	
MW-12R	18-Jul-14	8.36	8.40	0.04	6.69	-1.67	
MW-12R	15-Oct-14	7.60	7.62	0.02	6.69	-0.91	
MW-12R	4-Feb-15	NM	NM	NM	6.69	NM	Unable to locate
MW-12R	29-Apr-15	8.30	9.35	1.05	6.69	-1.71	
MW-12R	14-Jul-15	NM	NM	NM	6.69	NM	LNAPL too viscous
MW-12R	13-Oct-15	3.90	4.30	0.40	6.69	2.75	
MW-12R	9-Nov-15	NM	NM	NM	6.69	NM	LNAPL too viscous
MW-12R	4-Feb-16	ND	8.59	--	6.69	-1.90	
MW-12R	11-May-16	9.28	9.69	0.41	6.69	-2.63	
MW-12R	23-Aug-16	8.55	8.97	0.42	6.69	-1.90	
MW-12R	10-Nov-16	7.74	7.79	0.05	6.69	-1.05	
MW-12R	24-Feb-17	ND	8.44	--	6.69	-1.75	
MW-12R	1-May-17	ND	8.44	--	6.69	-1.75	
MW-12R	14-Aug-17	ND	8.54	--	6.69	-1.85	
MW-12R	14-Nov-17	ND	7.68	--	6.69	-0.99	Trace LNAPL
MW-13	7-Apr-09	NM	NM	NM	7.82	NM	
MW-13	17-Apr-09	ND	3.64	--	7.82	4.18	
MW-13	29-Jul-09	ND	3.51	--	7.82	4.31	
MW-13	26-Oct-09	ND	3.59	--	7.82	4.23	
MW-13	21-Apr-10	ND	3.70	--	7.82	4.12	
MW-13	19-Jul-10	NM	NM	NM	7.82	NM	Well inaccessible

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ExxonMobil Former Pratt Oil Works
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MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-13	15-Oct-10	ND	3.89	--	7.82	3.93	
MW-13	11-Jan-11	ND	4.16	--	7.82	3.66	
MW-13	25-Apr-11	ND	4.31	--	7.82	3.51	
MW-13	22-Jul-11	ND	4.40	--	7.82	3.42	
MW-13	18-Oct-11	ND	3.55	--	7.82	4.27	
MW-13	16-Jan-12	ND	3.95	--	7.82	3.87	
MW-13	12-Apr-12	ND	4.18	--	7.82	3.64	
MW-13	11-Jul-12	ND	3.92	--	7.82	3.90	
MW-13	23-Oct-12	ND	3.70	--	7.82	4.12	
MW-13	18-Jan-13	ND	3.40	--	7.82	4.42	
MW-13	18-Apr-13	ND	3.48	--	7.82	4.34	
MW-13	15-Jul-13	ND	3.24	--	7.82	4.58	
MW-13	28-Oct-13	ND	3.54	--	7.82	4.28	
MW-13	27-Jan-14	NM	NM	NM	7.82	NM	Well inaccessible
MW-13	7-Apr-14	ND	2.78	--	7.82	5.04	
MW-13	18-Jul-14	ND	2.61	--	7.82	5.21	
MW-13	15-Oct-14	ND	2.88	--	7.82	4.94	
MW-13	4-Feb-15	ND	3.48	--	7.82	4.34	
MW-13	29-Apr-15	ND	3.29	--	7.82	4.53	
MW-13	14-Jul-15	ND	3.25	--	7.82	4.57	
MW-13	13-Oct-15	ND	3.26	--	7.82	4.56	
MW-13	9-Nov-15	ND	3.60	--	7.82	4.22	
MW-13	4-Feb-16	NM	NM	NM	7.82	NM	Covered by container
MW-13	12-May-16	ND	3.50	--	7.82	4.32	
MW-13	23-Aug-16	ND	3.59	--	7.82	4.23	
MW-13	10-Nov-16	ND	3.65	--	7.82	4.17	
MW-13	24-Feb-17	ND	3.22	--	7.82	4.60	
MW-13	1-May-17	ND	3.01	--	7.82	4.81	
MW-13	14-Aug-17	ND	2.82	--	7.82	5.00	
MW-13	14-Nov-17	ND	3.10	--	7.82	4.72	
MW-14	29-Jul-09	20.65	26.80	6.15	22.92	1.63	
MW-14	26-Oct-09	21.31	26.50	5.19	22.92	1.07	
MW-14	21-Apr-10	20.67	23.33	2.66	22.92	1.97	
MW-14	19-Jul-10	20.91	26.81	5.90	22.92	1.39	
MW-14	15-Oct-10	21.12	26.59	5.47	22.92	1.23	
MW-14	11-Jan-11	22.81	26.53	3.72	22.92	-0.28	
MW-14	25-Apr-11	22.01	25.10	3.09	22.92	0.59	
MW-14	22-Jul-11	21.92	24.63	2.71	22.92	0.72	
MW-14	18-Oct-11	20.65	25.45	4.80	22.92	1.77	
MW-14	16-Jan-12	18.60	25.05	6.45	21.81	2.54	
MW-14	12-Apr-12	21.40	22.18	0.78	21.81	0.33	
MW-14	11-Jul-12	21.22	22.05	0.83	21.81	0.50	
MW-14	23-Oct-12	NM	NM	NM	21.81	NM	Well inaccessible
MW-14	18-Jan-13	22.20	22.40	0.20	21.81	-0.41	
MW-14	18-Apr-13	17.30	18.1	0.80	21.81	4.43	
MW-14	15-Jul-13	21.42	22.32	0.90	21.81	0.30	
MW-14	28-Oct-13	21.70	22.60	0.90	21.81	0.02	
MW-14	27-Jan-14	21.60	24.10	2.50	21.81	-0.05	
MW-14	7-Apr-14	21.60	21.63	0.03	21.81	0.21	
MW-14	18-Jul-14	21.12	21.22	0.10	21.81	0.68	
MW-14	15-Oct-14	21.50	21.92	0.42	21.81	0.27	

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MW-14	4-Feb-15	21.43	22.60	1.17	21.81	0.26	System off
MW-14	29-Apr-15	21.20	22.30	1.10	21.81	0.50	System on
MW-14	14-Jul-15	20.43	21.23	0.80	21.81	1.30	System on
MW-14	14-Jul-15	20.43	21.23	0.80	21.81	1.30	System on
MW-14	13-Oct-15	20.60	21.61	1.01	21.81	1.10	System off
MW-14	10-Nov-15	22.14	22.60	0.46	21.81	-0.38	System on
MW-14	4-Feb-16	21.66	21.81	0.15	21.81	0.13	System on
MW-14	11-May-16	21.49	22.54	1.05	21.81	0.21	System on
MW-14	23-Aug-16	21.46	22.97	1.51	21.81	0.19	System on
MW-14	10-Nov-16	21.33	24.85	3.52	21.81	0.11	System on
MW-14	24-Feb-17	21.84	25.27	3.43	21.81	-0.39	System on
MW-14	1-May-17	21.71	22.52	0.81	21.81	0.02	System on
MW-14	14-Aug-17	NM	NM	NM	21.81	NM	Covered by vehicle
MW-14	14-Nov-17	21.17	22.27	1.10	21.81	0.53	System on
MW-15	29-Jul-09	ND	10.59	--	13.05	2.46	
MW-15	26-Oct-09	ND	11.32	--	13.05	1.73	
MW-15	21-Apr-10	ND	10.79	--	13.05	2.26	
MW-15	19-Jul-10	ND	11.02	--	13.05	2.03	
MW-15	15-Oct-10	ND	10.89	--	13.05	2.16	
MW-15	11-Jan-11	ND	12.48	--	13.05	0.57	
MW-15	25-Apr-11	ND	11.50	--	13.05	1.55	
MW-15	22-Jul-11	ND	11.62	--	13.05	1.43	
MW-15	18-Oct-11	ND	11.16	--	13.05	1.89	
MW-15	16-Jan-12	ND	13.58	--	13.05	-0.53	
MW-15	12-Apr-12	ND	12.49	--	13.05	0.56	
MW-15	18-Apr-13	ND	12.56	--	13.05	0.49	
MW-15	15-Jul-13	ND	11.90	--	13.05	1.15	
MW-15	28-Oct-13	ND	12.88	--	13.05	0.17	
MW-15	27-Jan-14	NM	NM	NM	13.05	NM	Well inaccessible
MW-15	7-Apr-14	ND	11.97	--	13.05	1.08	
MW-15	18-Jul-14	NM	NM	NM	13.05	NM	Well inaccessible
MW-15	15-Oct-14	ND	12.52	--	13.05	0.53	
MW-15	4-Feb-15	ND	11.61	--	13.05	1.44	
MW-15	29-Apr-15	ND	11.83	--	13.05	1.22	
MW-15	14-Jul-15	ND	10.95	--	12.92	1.97	
MW-15	13-Oct-15	ND	11.20	--	12.92	1.72	
MW-15	9-Nov-15	ND	13.00	--	12.92	-0.08	
MW-15	4-Feb-16	ND	11.89	--	12.92	1.03	
MW-15	11-May-16	ND	13.07	--	12.92	-0.15	
MW-15	23-Aug-16	NM	NM	NM	12.92	NM	Under vehicle
MW-15	10-Nov-16	ND	12.17	--	12.92	0.75	
MW-15	24-Feb-17	ND	12.47	--	12.92	0.45	
MW-15	1-May-17	ND	11.55	--	12.92	1.37	
MW-15	14-Aug-17	NM	NM	NM	12.92	NM	
MW-15	14-Nov-17	NM	NM	NM	12.92	NM	Under vehicle
MW-15R	11-Jul-12	ND	11.73	--	13.30	1.57	
MW-15R	23-Oct-12	ND	12.00	--	13.30	1.30	
MW-15R	18-Jan-13	ND	12.58	--	13.30	0.72	
MW-15R	18-Apr-13	ND	12.75	--	13.30	0.55	
MW-15R	15-Jul-13	NM	NM	NM	13.30	NM	Well inaccessible

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MW-15R	28-Oct-13	ND	13.10	--	13.30	0.20	
MW-15R	27-Jan-14	NM	NM	NM	13.30	NM	Well inaccessible
MW-15R	7-Apr-14	ND	12.11	--	13.30	1.19	
MW-15R	18-Jul-14	NM	NM	NM	13.30	NM	Well inaccessible
MW-15R	15-Oct-14	NM	NM	NM	13.30	NM	Unable to locate
MW-15R	23-Aug-16	NM	NM	NM	13.30	NM	
MW-15R	4-Feb-15	NM	NM	NM	13.30	NM	Unable to locate
MW-15R	29-Apr-15	ND	12.11	--	13.30	1.19	
MW-15R	14-Jul-15	10.91	10.92	0.01	13.30	2.39	
MW-15R	13-Oct-15	11.50	11.51	0.01	13.30	1.80	
MW-15R	9-Nov-15	ND	12.45	--	13.30	0.85	
MW-15R	4-Feb-16	ND	12.13	--	13.30	1.17	
MW-15R	11-May-16	ND	12.36	--	13.30	0.94	
MW-15R	23-Aug-16	NM	NM	NM	13.30	NM	Under vehicle
MW-15R	11-Nov-16	ND	11.83	--	13.30	1.47	
MW-15R	24-Feb-17	ND	12.64	--	13.30	0.66	
MW-15R	1-May-17	ND	11.90	--	13.30	1.40	
MW-15R	14-Aug-17	NM	NM	NM	13.30	NM	
MW-15R	14-Nov-17	12.07	12.15	0.08	13.30	1.22	
MW-16	29-Jul-09	20.91	21.00	0.09	24.12	3.20	
MW-16	26-Oct-09	21.25	21.27	0.02	24.12	2.87	
MW-16	21-Apr-10	20.06	20.07	0.01	24.12	4.06	
MW-16	19-Jul-10	ND	20.70	--	24.12	3.42	
MW-16	15-Oct-10	ND	20.98	--	24.12	3.14	
MW-16	11-Jan-11	21.95	22.42	0.47	24.12	2.13	
MW-16	25-Apr-11	21.46	22.65	1.19	24.12	2.55	
MW-16	22-Jul-11	21.25	21.49	0.24	24.12	2.85	
MW-16	18-Oct-11	20.15	20.14	-0.01	24.12	3.97	
MW-16	16-Jan-12	21.05	21.07	0.02	24.12	3.07	
MW-16	12-Apr-12	21.36	21.37	0.01	24.12	2.76	
MW-16	11-Jul-12	21.22	21.80	0.58	24.12	2.84	
MW-16	23-Oct-12	21.50	22.51	1.01	24.12	2.52	
MW-16	18-Jan-13	22.03	23.10	1.07	24.12	1.99	
MW-16	18-Apr-13	21.90	23.10	1.20	24.12	2.11	
MW-16	15-Jul-13	21.52	22.65	1.13	24.12	2.49	
MW-16	28-Oct-13	21.90	22.76	0.86	24.12	2.14	
MW-16	27-Jan-14	22.40	23.65	1.25	24.12	1.60	
MW-16	7-Apr-14	22.07	23.35	1.28	24.12	1.93	
MW-16	18-Jul-14	21.23	21.35	0.12	24.12	2.88	
MW-16	15-Oct-14	21.58	22.18	0.60	24.12	2.48	
MW-16	4-Feb-15	21.83	23.08	1.25	24.12	2.17	
MW-16	29-Apr-15	21.32	22.76	1.44	24.12	2.66	
MW-16	14-Jul-15	21.09	22.35	1.26	24.12	2.91	
MW-16	13-Oct-15	21.31	22.80	1.49	24.12	2.67	
MW-16	9-Nov-15	21.62	22.95	1.33	24.12	2.37	
MW-16	4-Feb-16	22.21	22.65	0.44	24.12	1.87	
MW-16	11-May-16	22.18	22.55	0.37	24.12	1.90	
MW-16	23-Aug-16	22.30	22.46	0.16	24.12	1.80	
MW-16	10-Nov-16	22.27	22.57	0.30	24.12	1.82	
MW-16	24-Feb-17	22.56	23.21	0.65	24.12	1.50	
MW-16	1-May-17	22.08	22.27	0.19	24.12	2.02	

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MW-16	14-Aug-17	21.40	22.95	1.55	24.12	2.57	
MW-16	14-Nov-17	21.85	22.40	0.55	24.12	2.22	
MW-17	29-Jul-09	14.76	22.20	7.44	16.81	1.27	
MW-17	26-Oct-09	15.44	23.00	7.56	16.81	0.58	
MW-17	21-Apr-10	15.53	17.22	1.69	16.81	1.10	
MW-17	19-Jul-10	15.03	20.91	5.88	16.81	1.16	
MW-17	15-Oct-10	15.24	19.39	4.15	16.81	1.13	
MW-17	11-Jan-11	16.85	20.97	4.12	16.81	-0.47	
MW-17	25-Apr-11	16.94	17.83	0.89	16.81	-0.22	
MW-17	22-Jul-11	16.19	18.81	2.62	16.81	0.34	
MW-17	18-Oct-11	15.29	22.10	6.81	16.81	0.80	
MW-17	16-Jan-12	16.00	20.37	4.37	16.81	0.35	
MW-17	12-Apr-12	16.35	22.50	6.15	16.81	-0.19	
MW-17	11-Jul-12	15.21	22.50	7.29	16.81	0.83	
MW-17	23-Oct-12	16.20	23.40	7.20	16.81	-0.15	
MW-17	18-Jan-13	16.85	21.50	4.65	16.81	-0.53	
MW-17	18-Apr-13	16.94	21.00	4.06	16.81	-0.56	
MW-17	15-Jul-13	16.55	21.20	4.65	16.81	-0.23	
MW-17	28-Oct-13	16.70	21.80	5.10	16.81	-0.43	
MW-17	27-Jan-14	16.86	21.40	4.54	16.81	-0.53	
MW-17	7-Apr-14	16.90	17.80	0.90	16.81	-0.18	
MW-17	18-Jul-14	16.24	18.40	2.16	16.81	0.34	
MW-17	15-Oct-14	16.30	21.06	4.76	16.81	0.01	
MW-17	4-Feb-15	NM	NM	NM	16.81	NM	Under septic tanks
MW-17	29-Apr-15	NM	NM	NM	16.81	NM	Under septic tanks
MW-17	14-Jul-15	NM	NM	NM	16.81	NM	Under septic tanks
MW-17	13-Oct-15	NM	NM	NM	16.81	NM	Under septic tanks
MW-17	9-Nov-15	NM	NM	NM	16.81	NM	Under septic tanks
MW-17	4-Feb-16	NM	NM	NM	16.81	NM	Under septic tanks
MW-17	11-May-16	16.52	21.04	4.52	16.81	-0.19	
MW-17	23-Aug-16	15.81	20.58	4.77	16.81	0.50	
MW-17	10-Nov-16	16.53	21.06	4.53	16.81	-0.20	
MW-17	24-Feb-17	17.21	19.30	2.09	16.81	-0.62	
MW-17	1-May-17	16.75	19.39	2.64	16.81	-0.22	
MW-17	14-Aug-17	16.01	21.01	5.00	16.81	0.27	
MW-17	14-Nov-17	16.24	21.04	4.80	16.81	0.07	Well flooded
MW-18	24-Sep-09	ND	20.92	--	23.55	2.63	
MW-18	26-Oct-09	ND	21.32	--	23.55	2.23	
MW-18	21-Apr-10	ND	19.97	--	23.55	3.58	
MW-18	19-Jul-10	20.62	20.67	0.05	23.55	2.93	
MW-18	15-Oct-10	20.50	20.51	0.01	23.55	3.05	
MW-18	11-Jan-11	NM	NM	NM	23.55	NM	Well inaccessible
MW-18	25-Apr-11	21.22	22.00	0.78	23.55	2.26	
MW-18	22-Jul-11	20.95	21.00	0.05	23.55	2.60	
MW-18	18-Oct-11	20.19	20.49	0.30	23.55	3.33	
MW-18	16-Jan-12	15.00	NM	NM	23.55	NM	LNAPL too viscous
MW-18	12-Apr-12	21.20	22.11	0.91	23.55	2.26	
MW-18	11-Jul-12	21.00	22.71	1.71	23.55	2.39	
MW-18	23-Oct-12	21.35	22.97	1.62	23.55	2.05	
MW-18	18-Jan-13	NM	NM	NM	23.55	NM	Well inaccessible

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-18	18-Apr-13	NM	NM	NM	23.55	NM	Under vehicle
MW-18	15-Jul-13	20.97	24.30	3.33	23.55	2.26	
MW-18	28-Oct-13	21.44	24.60	3.16	23.55	1.81	
MW-18	27-Jan-14	21.69	24.20	2.51	23.55	1.62	
MW-18	7-Apr-14	21.65	24.60	2.95	23.55	1.62	
MW-18	18-Jul-14	ND	21.80	--	23.55	1.75	
MW-18	15-Oct-14	20.78	24.20	3.42	23.55	2.45	
MW-18	4-Feb-15	21.38	25.25	3.87	23.55	1.80	
MW-18	29-Apr-15	20.74	25.33	4.59	23.55	2.37	
MW-18	14-Jul-15	20.28	24.77	4.49	23.55	2.84	
MW-18	13-Oct-15	20.32	24.75	4.43	23.55	2.81	
MW-18	9-Nov-15	21.60	23.77	2.17	23.55	1.74	
MW-18	4-Feb-16	21.52	22.17	0.65	23.55	1.97	
MW-18	11-May-16	21.75	23.09	1.34	23.55	1.67	
MW-18	23-Aug-16	22.00	22.91	0.91	23.55	1.46	
MW-18	10-Nov-16	21.79	22.14	0.35	23.55	1.73	
MW-18	24-Feb-17	22.02	23.34	1.32	23.55	1.40	
MW-18	1-May-17	21.39	23.36	1.97	23.55	1.97	
MW-18	14-Aug-17	21.21	22.46	1.25	23.55	2.22	
MW-18	14-Nov-17	21.45	21.99	0.54	23.55	2.05	
MW-19	24-Sep-09	21.95	22.55	0.60	24.85	2.84	
MW-19	26-Oct-09	22.00	23.05	1.05	24.85	2.74	
MW-19	21-Apr-10	20.86	21.55	0.69	24.85	3.92	
MW-19	19-Jul-10	21.42	22.01	0.59	24.85	3.37	
MW-19	15-Oct-10	21.70	22.58	0.88	24.85	3.06	
MW-19	11-Jan-11	22.86	24.35	1.49	24.85	1.84	
MW-19	25-Apr-11	NM	NM	NM	24.85	NM	Well inaccessible
MW-19	22-Jul-11	NM	NM	NM	24.85	NM	Well inaccessible
MW-19	18-Oct-11	20.95	21.60	0.65	24.85	3.83	
MW-19	16-Jan-12	NM	NM	NM	24.85	NM	Well inaccessible
MW-19	12-Apr-12	NM	NM	NM	24.85	NM	Well inaccessible
MW-19	11-Jul-12	NM	NM	NM	24.85	NM	Well inaccessible
MW-19	23-Oct-12	NM	NM	NM	24.85	NM	Well inaccessible
MW-19	18-Jan-13	NM	NM	NM	24.85	NM	Well inaccessible
MW-19	18-Apr-13	NM	NM	NM	24.85	NM	Under vehicle
MW-19	18-Apr-13	NM	NM	NM	24.85	NM	Under vehicle
MW-19	15-Jul-13	NM	NM	NM	24.85	NM	Under vehicle
MW-19	28-Oct-13	NM	NM	NM	24.85	NM	Well inaccessible
MW-19	27-Jan-14	23.07	24.66	1.59	24.85	1.62	
MW-19	7-Apr-14	NM	NM	NM	24.85	NM	Well inaccessible
MW-19	18-Jul-14	NM	NM	NM	24.85	NM	Well inaccessible
MW-19	15-Oct-14	22.18	23.53	1.35	24.85	2.53	
MW-19	4-Feb-15	22.62	23.88	1.26	24.85	2.10	
MW-19	29-Apr-15	NM	NM	NM	24.85	NM	Under vehicle
MW-19	14-Jul-15	NM	NM	NM	24.85	NM	Under vehicle
MW-19	13-Oct-15	NM	NM	NM	24.85	NM	Under vehicle
MW-19	9-Nov-15	NM	NM	NM	24.85	NM	Under vehicle
MW-19	4-Feb-16	NM	NM	NM	24.85	NM	Under vehicle
MW-19	11-May-16	22.84	23.98	1.14	24.85	1.89	
MW-19	23-Aug-16	NM	NM	NM	24.85	NM	Under vehicle
MW-19	10-Nov-16	NM	NM	NM	24.85	NM	Under vehicle

Table 4
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ExxonMobil Former Pratt Oil Works
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MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-19	24-Feb-17	NM	NM	NM	24.85	NM	Under vehicle
MW-19	1-May-17	22.65	23.60	0.95	24.85	2.10	
MW-19	14-Aug-17	22.29	23.38	1.09	24.85	2.45	
MW-19	14-Nov-17	22.40	23.47	1.07	24.85	2.34	
MW-20	29-Jul-09	ND	21.03	--	28.63	7.60	
MW-20	26-Oct-09	ND	21.61	--	28.63	7.02	
MW-20	21-Apr-10	ND	18.07	--	28.63	10.56	
MW-20	19-Jul-10	ND	16.53	--	28.63	12.10	
MW-20	15-Oct-10	ND	22.01	--	28.63	6.62	
MW-20	11-Jan-11	ND	23.15	--	28.63	5.48	
MW-20	25-Apr-11	ND	23.55	--	28.63	5.08	
MW-20	22-Jul-11	ND	23.00	--	28.63	5.63	
MW-20	18-Oct-11	ND	20.89	--	28.63	7.74	
MW-20	16-Jan-12	ND	22.41	--	28.63	6.22	
MW-20	12-Apr-12	ND	23.30	--	28.63	5.33	
MW-20	11-Jul-12	ND	24.02	--	28.63	4.61	
MW-20	23-Oct-12	ND	24.56	--	28.63	4.07	
MW-20	18-Jan-13	ND	25.25	--	28.63	3.38	
MW-20	18-Apr-13	ND	24.52	--	28.63	4.11	
MW-20	15-Jul-13	ND	23.65	--	28.63	4.98	
MW-20	28-Oct-13	ND	24.30	--	28.63	4.33	
MW-20	27-Jan-14	ND	25.43	--	28.63	3.20	
MW-20	7-Apr-14	ND	25.3	--	28.63	3.33	
MW-20	18-Jul-14	ND	23.00	--	28.63	5.63	
MW-20	15-Oct-14	ND	23.92	--	28.63	4.71	
MW-20	4-Feb-15	ND	23.20	--	28.63	5.43	
MW-20	29-Apr-15	ND	23.20	--	28.63	5.43	
MW-20	14-Jul-15	ND	23.28	--	28.63	5.35	
MW-20	13-Oct-15	ND	24.20	--	28.63	4.43	
MW-20	9-Nov-15	ND	24.75	--	28.63	3.88	
MW-20	4-Feb-16	ND	25.34	--	28.63	3.29	
MW-20	11-May-16	ND	25.15	--	28.63	3.48	
MW-20	23-Aug-16	ND	25.27	--	28.63	3.36	
MW-20	10-Nov-16	ND	25.72	--	28.63	2.91	
MW-20	24-Feb-17	ND	26.05	--	28.63	2.58	
MW-20	1-May-17	ND	25.03	--	28.63	3.60	
MW-20	14-Aug-17	ND	23.74	--	28.63	4.89	
MW-20	14-Nov-17	ND	24.63	--	28.63	4.00	
MW-21	29-Jul-09	ND	14.37	--	16.63	2.26	
MW-21	26-Oct-09	ND	14.10	--	16.63	2.53	
MW-21	21-Apr-10	ND	13.79	--	16.63	2.84	
MW-21	19-Jul-10	ND	14.19	--	16.63	2.44	
MW-21	15-Oct-10	ND	14.33	--	16.63	2.30	
MW-21	11-Jan-11	ND	15.04	--	16.63	1.59	
MW-21	25-Apr-11	ND	14.84	--	16.63	1.79	
MW-21	22-Jul-11	ND	18.61	--	16.63	-1.98	
MW-21	18-Oct-11	ND	13.60	--	16.63	3.03	
MW-21	16-Jan-12	ND	14.58	--	16.63	2.05	
MW-21	12-Apr-12	ND	14.62	--	16.63	2.01	
MW-21	11-Jul-12	ND	14.65	--	16.63	1.98	

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MW-21	23-Oct-12	ND	14.85	--	16.63	1.78	
MW-21	18-Jan-13	ND	15.07	--	16.63	1.56	
MW-21	18-Apr-13	ND	15.14	--	16.63	1.49	
MW-21	15-Jul-13	ND	14.67	--	16.63	1.96	
MW-21	28-Oct-13	ND	15.12	--	16.63	1.51	
MW-21	27-Jan-14	ND	15.52	--	16.63	1.11	
MW-21	7-Apr-14	ND	15.37	--	16.63	1.26	
MW-21	18-Jul-14	ND	14.60	--	16.63	2.03	
MW-21	15-Oct-14	ND	14.78	--	16.63	1.85	
MW-21	4-Feb-15	ND	14.91	--	16.63	1.72	
MW-21	29-Apr-15	ND	14.33	--	16.63	2.30	
MW-21	14-Jul-15	ND	14.11	--	16.63	2.52	
MW-21	13-Oct-15	ND	14.35	--	16.63	2.28	
MW-21	9-Nov-15	ND	14.73	--	16.63	1.90	
MW-21	4-Feb-16	ND	14.88	--	16.63	1.75	
MW-21	11-May-16	ND	15.11	--	16.63	1.52	
MW-21	23-Aug-16	ND	15.11	--	16.63	1.52	
MW-21	10-Nov-16	ND	14.74	--	16.63	1.89	
MW-21	24-Feb-17	ND	15.11	--	16.63	1.52	
MW-21	1-May-17	ND	14.97	--	16.63	1.66	
MW-21	14-Aug-17	ND	14.73	--	16.63	1.90	
MW-21	14-Nov-17	ND	14.50	--	16.63	2.13	
MW-22	29-Jul-09	25.79	27.20	1.41	29.36	3.42	
MW-22	26-Oct-09	26.15	28.40	2.25	29.36	2.97	
MW-22	21-Apr-10	NM	NM	NM	29.36	NM	Well inaccessible
MW-22	19-Jul-10	25.47	26.97	1.50	29.36	3.73	
MW-22	15-Oct-10	25.87	27.41	1.54	29.36	3.33	
MW-22	11-Jan-11	26.93	29.70	2.77	29.36	2.14	
MW-22	25-Apr-11	26.49	28.04	1.55	29.36	2.71	
MW-22	22-Jul-11	26.12	27.52	1.40	29.36	3.09	
MW-22	18-Oct-11	24.89	25.91	1.02	29.36	4.36	
MW-22	16-Jan-12	25.91	27.53	1.62	29.36	3.28	
MW-22	12-Apr-12	26.20	28.05	1.85	29.36	2.97	
MW-22	11-Jul-12	26.35	28.95	2.60	29.36	2.74	
MW-22	23-Oct-12	26.51	28.93	2.42	29.36	2.59	
MW-22	18-Jan-13	27.40	29.50	2.10	29.36	1.74	
MW-22	18-Apr-13	27.00	28.80	1.80	29.36	2.17	
MW-22	15-Jul-13	26.50	28.00	1.50	29.36	2.70	
MW-22	28-Oct-13	26.71	29.05	2.34	29.36	2.40	
MW-22	27-Jan-14	22.25	30.04	7.79	29.36	6.29	
MW-22	7-Apr-14	27.12	29.02	1.90	29.36	2.04	
MW-22	18-Jul-14	26.12	27.60	1.48	29.36	3.08	
MW-22	15-Oct-14	26.52	28.40	1.88	29.36	2.64	
MW-22	4-Feb-15	26.80	29.13	2.33	29.36	2.31	
MW-22	29-Apr-15	26.54	27.10	0.56	29.36	2.76	
MW-22	14-Jul-15	26.19	28.26	2.07	29.36	2.95	
MW-22	13-Oct-15	26.57	27.32	0.75	29.36	2.71	
MW-22	9-Nov-15	26.95	28.48	1.53	29.36	2.25	
MW-22	4-Feb-16	27.37	28.25	0.88	29.36	1.90	
MW-22	11-May-16	ND	28.35	--	29.36	1.01	
MW-22	23-Aug-16	27.31	28.46	1.15	29.36	1.93	

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MW-22	10-Nov-16	27.45	28.15	0.70	29.36	1.84	
MW-22	24-Feb-17	27.63	29.50	1.87	29.36	1.53	
MW-22	1-May-17	27.36	27.78	0.42	29.36	1.96	
MW-22	14-Aug-17	27.11	27.66	0.55	29.36	2.19	
MW-22	14-Nov-17	27.24	27.74	0.50	29.36	2.07	
MW-23	29-Jul-09	17.09	23.85	6.76	19.05	1.25	
MW-23	26-Oct-09	17.76	23.82	6.06	19.05	0.65	
MW-23	21-Apr-10	17.57	22.36	4.79	19.05	0.98	
MW-23	19-Jul-10	17.40	23.81	6.41	19.05	0.98	
MW-23	15-Oct-10	17.58	23.13	5.55	19.05	0.89	
MW-23	11-Jan-11	19.26	23.93	4.67	19.05	-0.70	
MW-23	25-Apr-11	18.86	23.70	4.84	19.05	-0.32	
MW-23	22-Jul-11	18.36	23.54	5.18	19.05	0.15	
MW-23	18-Oct-11	17.59	23.56	5.97	19.05	0.83	
MW-23	16-Jan-12	19.03	22.13	3.10	19.05	-0.31	
MW-23	12-Apr-12	18.82	23.40	4.58	19.05	-0.25	
MW-23	11-Jul-12	17.76	22.10	4.34	19.05	0.83	
MW-23	23-Oct-12	17.75	22.05	4.30	19.05	0.85	
MW-23	18-Jan-13	19.20	23.40	4.20	19.05	-0.59	
MW-23	18-Apr-13	19.34	23.50	4.16	19.05	-0.73	
MW-23	15-Jul-13	18.91	23.40	4.49	19.05	-0.33	
MW-23	28-Oct-13	19.16	23.44	4.28	19.05	-0.56	
MW-23	27-Jan-14	19.28	23.50	4.22	19.05	-0.67	
MW-23	7-Apr-14	18.40	23.36	4.96	19.05	0.13	
MW-23	18-Jul-14	18.35	23.40	5.05	19.05	0.17	
MW-23	15-Oct-14	18.72	23.40	4.68	19.05	-0.16	
MW-23	4-Feb-15	18.78	23.37	4.59	19.05	-0.21	
MW-23	29-Apr-15	18.65	23.35	4.70	19.05	-0.09	
MW-23	14-Jul-15	17.73	23.02	5.29	19.05	0.77	
MW-23	13-Oct-15	18.06	23.40	5.34	19.05	0.43	
MW-23	9-Nov-15	18.69	23.41	4.72	19.05	-0.14	
MW-23	4-Feb-16	18.94	23.03	4.09	19.05	-0.32	
MW-23	11-May-16	19.95	23.27	3.32	19.05	-1.25	
MW-23	23-Aug-16	19.05	23.43	4.38	19.05	-0.46	
MW-23	10-Nov-16	18.92	23.48	4.56	19.05	-0.35	
MW-23	24-Feb-17	19.42	23.55	4.13	19.05	-0.80	
MW-23	1-May-17	19.00	23.10	4.10	19.05	-0.38	
MW-23	14-Aug-17	18.45	23.39	4.94	19.05	0.08	
MW-23	14-Nov-17	18.61	23.42	4.81	19.05	-0.06	
MW-24	29-Jul-09	15.20	24.10	8.90	17.56	1.43	
MW-24	26-Oct-09	15.79	24.25	8.46	17.56	0.88	
MW-24	21-Apr-10	15.10	22.60	7.50	17.56	1.67	
MW-24	19-Jul-10	15.12	24.03	8.91	17.56	1.51	
MW-24	15-Oct-10	15.55	24.46	8.91	17.56	1.08	
MW-24	11-Jan-11	17.31	24.79	7.48	17.56	-0.53	
MW-24	25-Apr-11	16.66	24.10	7.44	17.56	0.12	
MW-24	22-Jul-11	16.11	23.85	7.74	17.56	0.64	
MW-24	18-Oct-11	15.10	23.31	8.21	17.56	1.60	
MW-24	16-Jan-12	14.70	22.68	7.98	15.94	0.40	
MW-24	12-Apr-12	15.00	22.31	7.31	15.94	0.17	

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MW-24	11-Jul-12	14.92	21.50	6.58	15.94	0.33	
MW-24	23-Oct-12	15.00	22.60	7.60	15.94	0.14	
MW-24	18-Jan-13	14.53	23.00	8.47	15.94	0.52	
MW-24	18-Apr-13	16.10	17.97	1.87	15.94	-0.36	
MW-24	15-Jul-13	15.35	19.70	4.35	15.94	0.13	
MW-24	28-Oct-13	15.60	22.45	6.85	15.94	-0.38	
MW-24	27-Jan-14	15.65	23.00	7.35	15.94	-0.48	
MW-24	7-Apr-14	15.45	22.07	6.62	15.94	-0.20	
MW-24	18-Jul-14	14.60	22.00	7.40	15.94	0.56	
MW-24	15-Oct-14	15.60	19.00	3.40	15.94	-0.02	
MW-24	4-Feb-15	15.25	22.50	7.25	15.94	-0.07	System off
MW-24	29-Apr-15	15.68	16.74	1.06	15.94	0.15	System on
MW-24	14-Jul-15	14.25	21.61	7.36	15.94	0.92	System off
MW-24	13-Oct-15	14.63	21.92	7.29	15.94	0.55	System off
MW-24	10-Nov-15	14.99	22.48	7.49	15.94	0.16	System off
MW-24	4-Feb-16	15.65	19.73	4.08	15.94	-0.14	System on
MW-24	11-May-16	15.59	20.94	5.35	15.94	-0.21	System on
MW-24	23-Aug-16	16.08	16.89	0.81	15.94	-0.22	System on
MW-24	10-Nov-16	15.32	20.40	5.08	15.94	0.09	System on
MW-24	24-Feb-17	16.05	20.40	4.35	15.94	-0.57	System on
MW-24	1-May-17	15.66	18.78	3.12	15.94	-0.05	System on
MW-24	14-Aug-17	15.01	17.63	2.62	15.94	0.66	System on
MW-24	14-Nov-17	15.38	17.21	1.83	15.94	0.37	System on
MW-25	22-Jul-11	ND	6.88	--	5.85	-1.03	
MW-25	18-Oct-11	ND	5.70	--	5.85	0.15	
MW-25	16-Jan-12	ND	6.30	--	5.85	-0.45	
MW-25	12-Apr-12	ND	6.72	--	5.85	-0.87	
MW-25	11-Jul-12	ND	6.65	--	5.85	-0.80	
MW-25	23-Oct-12	ND	6.61	--	5.85	-0.76	
MW-25	18-Jan-13	ND	6.16	--	5.85	-0.31	
MW-25	18-Apr-13	ND	6.74	--	5.85	-0.89	
MW-25	15-Jul-13	ND	6.52	--	5.85	-0.67	
MW-25	28-Oct-13	ND	6.19	--	5.85	-0.34	
MW-25	27-Jan-14	ND	6.75	--	5.85	-0.90	
MW-25	7-Apr-14	ND	6.78	--	5.85	-0.93	
MW-25	18-Jul-14	ND	6.32	--	5.85	-0.47	
MW-25	15-Oct-14	ND	5.42	--	5.85	0.43	
MW-25	4-Feb-15	ND	5.35	--	5.85	0.50	
MW-25	29-Apr-15	ND	5.45	--	5.85	0.40	
MW-25	14-Jul-15	ND	3.55	--	5.55	2.00	
MW-25	13-Oct-15	ND	3.55	--	5.55	2.00	
MW-25	9-Nov-15	ND	6.25	--	5.55	-0.70	
MW-25	4-Feb-16	ND	5.63	--	5.55	-0.08	
MW-25	11-May-16	NM	NM	NM	5.55	NM	Well abandoned
MW-26	22-Jul-11	ND	8.27	--	6.34	-1.93	
MW-26	18-Oct-11	ND	7.20	--	6.34	-0.86	
MW-26	16-Jan-12	ND	6.54	--	6.34	-0.20	
MW-26	12-Apr-12	ND	8.21	--	6.34	-1.87	
MW-26	11-Jul-12	ND	7.71	--	6.34	-1.37	
MW-26	23-Oct-12	ND	7.70	--	6.34	-1.36	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-26	18-Jan-13	ND	7.42	--	6.34	-1.08	
MW-26	18-Apr-13	ND	8.00	--	6.34	-1.66	
MW-26	15-Jul-13	ND	8.01	--	6.34	-1.67	
MW-26	28-Oct-13	ND	7.13	--	6.34	-0.79	
MW-26	27-Jan-14	ND	7.58	--	6.34	-1.24	
MW-26	7-Apr-14	ND	7.94	--	6.34	-1.60	
MW-26	18-Jul-14	ND	7.92	--	6.34	-1.58	
MW-26	15-Oct-14	ND	6.64	--	6.34	-0.30	
MW-26	4-Feb-15	ND	6.04	--	6.34	0.30	
MW-26	29-Apr-15	ND	5.81	--	6.34	0.53	
MW-26	14-Jul-15	ND	5.10	--	6.34	1.24	
MW-26	13-Oct-15	ND	4.40	--	6.34	1.94	
MW-26	9-Nov-15	ND	5.93	--	6.34	0.41	
MW-26	4-Feb-16	ND	4.45	--	6.34	1.89	
MW-26	11-May-16	NM	NM	NM	6.34	NM	Well abandoned
MW-27	22-Jul-11	ND	8.11	--	6.17	-1.94	
MW-27	18-Oct-11	ND	6.94	--	6.17	-0.77	
MW-27	16-Jan-12	ND	7.78	--	6.17	-1.61	
MW-27	12-Apr-12	8.40	8.42	0.02	6.17	-2.23	
MW-27	11-Jul-12	8.10	8.12	0.02	6.17	-1.93	
MW-27	23-Oct-12	ND	8.12	--	6.17	-1.95	
MW-27	18-Jan-13	7.97	7.98	0.01	6.17	-1.80	
MW-27	18-Apr-13	8.02	8.15	0.13	6.17	-1.86	
MW-27	15-Jul-13	7.80	7.81	0.01	6.17	-1.63	
MW-27	28-Oct-13	7.20	7.23	0.03	6.17	-1.03	
MW-27	27-Jan-14	8.05	8.35	0.30	6.17	-1.91	
MW-27	7-Apr-14	8.10	8.58	0.48	6.17	-1.98	
MW-27	18-Jul-14	7.76	7.78	0.02	6.17	-1.59	
MW-27	15-Oct-14	ND	6.52	--	6.17	-0.35	
MW-27	4-Feb-15	NM	NM	NM	6.17	NM	Unable to locate
MW-27	29-Apr-15	ND	7.84	--	6.17	-1.67	
MW-27	14-Jul-15	7.50	8.41	0.91	6.17	-1.42	
MW-27	13-Oct-15	ND	3.47	--	6.17	2.70	
MW-27	9-Nov-15	8.17	8.41	0.24	6.17	-2.02	
MW-27	4-Feb-16	8.16	8.33	0.17	6.17	-2.01	
MW-27	11-May-16	8.76	8.83	0.07	6.17	-2.60	
MW-27	23-Aug-16	8.27	8.41	0.14	6.17	-2.11	
MW-27	10-Nov-16	7.20	7.22	0.02	6.17	-1.03	
MW-27	24-Feb-17	8.05	8.48	0.43	6.17	-1.92	
MW-27	1-May-17	8.18	8.25	0.07	6.17	-2.02	
MW-27	14-Aug-17	8.00	8.01	0.01	6.17	-1.83	
MW-27	14-Nov-17	7.32	7.34	0.02	6.17	-1.15	
MW-28	22-Jul-11	6.30	6.32	0.02	8.52	2.22	
MW-28	18-Oct-11	5.97	6.07	0.10	8.52	2.54	
MW-28	16-Jan-12	7.15	7.20	0.05	8.52	1.37	
MW-28	12-Apr-12	7.26	7.28	0.02	8.52	1.26	
MW-28	11-Jul-12	6.41	8.80	2.39	8.52	1.88	
MW-28	23-Oct-12	7.02	7.19	0.17	8.52	1.48	
MW-28	18-Jan-13	6.81	6.98	0.17	8.52	1.69	
MW-28	18-Apr-13	6.98	7.1	0.12	8.52	1.53	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-28	15-Jul-13	6.75	6.78	0.03	8.52	1.77	
MW-28	28-Oct-13	7.3	7.49	0.19	8.52	1.20	
MW-28	27-Jan-14	7.08	8.05	0.97	8.52	1.35	
MW-28	7-Apr-14	6.58	7.25	0.67	8.52	1.88	
MW-28	18-Jul-14	6.46	6.55	0.09	8.52	2.05	
MW-28	15-Oct-14	ND	6.74	--	8.52	1.78	
MW-28	4-Feb-15	NM	NM	NM	8.52	NM	Under road plate
MW-28	29-Apr-15	NM	NM	NM	8.52	NM	Under container
MW-28	14-Jul-15	ND	6.67	--	10.92	4.25	
MW-28	13-Oct-15	7.20	7.30	0.10	10.92	3.71	
MW-28	9-Nov-15	7.95	8.04	0.09	10.92	2.96	
MW-28	4-Feb-16	ND	7.31	--	10.92	3.61	
MW-28	11-May-16	ND	7.13	--	10.92	3.79	
MW-28	23-Aug-16	ND	7.14	--	10.92	3.78	
MW-28	10-Nov-16	ND	6.98	--	10.92	3.94	
MW-28	24-Feb-17	ND	7.01	--	10.92	3.91	
MW-28	1-May-17	ND	6.64	--	10.92	4.28	
MW-28	14-Aug-17	ND	6.68	--	10.92	4.24	
MW-28	14-Nov-17	ND	7.39	--	10.92	3.53	
MW-28D	11-Jul-12	ND	8.11	--	8.92	0.81	
MW-28D	23-Oct-12	ND	10.23	--	8.92	-1.31	
MW-28D	18-Jan-13	ND	8.94	--	8.92	-0.02	
MW-28D	18-Apr-13	ND	8.70	--	8.92	0.22	
MW-28D	15-Jul-13	ND	8.34	--	8.92	0.58	
MW-28D	28-Oct-13	7.30	7.49	0.19	8.92	1.60	
MW-28D	27-Jan-14	ND	8.53	--	8.92	0.39	
MW-28D	7-Apr-14	ND	8.27	--	8.92	0.65	
MW-28D	18-Jul-14	ND	7.85	--	8.92	1.07	
MW-28D	15-Oct-14	ND	8.54	--	8.92	0.38	
MW-28D	4-Feb-15	ND	8.11	--	8.92	0.81	
MW-28D	29-Apr-15	ND	8.10	--	8.92	0.82	
MW-28D	14-Jul-15	ND	8.97	--	11.13	2.16	
MW-28D	13-Oct-15	ND	9.40	--	11.13	1.73	
MW-28D	9-Nov-15	ND	10.50	--	11.13	0.63	
MW-28D	4-Feb-16	ND	1.46	--	11.13	9.67	
MW-28D	11-May-16	ND	2.03	--	11.13	9.10	
MW-28D	23-Aug-16	ND	9.19	--	11.13	1.94	
MW-28D	10-Nov-16	ND	7.63	--	11.13	3.50	
MW-28D	24-Feb-17	ND	10.40	--	11.13	0.73	
MW-28D	1-May-17	ND	1.96	--	11.13	9.17	
MW-28D	14-Aug-17	ND	6.05	--	11.13	5.08	
MW-28D	14-Nov-17	ND	9.50	--	11.13	1.63	
MW-29	22-Jul-11	ND	5.94	--	8.95	3.01	
MW-29	18-Oct-11	ND	5.70	--	8.95	3.25	
MW-29	16-Jan-12	ND	6.52	--	8.95	2.43	
MW-29	12-Apr-12	ND	6.65	--	8.95	2.30	
MW-29	11-Jul-12	ND	6.20	--	8.95	2.75	
MW-29	23-Oct-12	ND	6.26	--	8.95	2.69	
MW-29	18-Jan-13	ND	6.51	--	8.95	2.44	
MW-29	18-Apr-13	NM	NM	NM	8.95	NM	Under vehicle

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-29	15-Jul-13	ND	6.29	--	8.95	2.66	
MW-29	28-Oct-13	NM	NM	NM	8.95	NM	Well inaccessible
MW-29	27-Jan-14	NM	NM	NM	8.95	NM	Well inaccessible
MW-29	7-Apr-14	ND	6.27	--	8.95	2.68	
MW-29	18-Jul-14	ND	6.07	--	8.95	2.88	
MW-29	4-Feb-15	ND	5.79	--	8.95	3.16	
MW-29	29-Apr-15	ND	5.44	--	8.95	3.51	
MW-29	14-Jul-15	ND	4.71	--	8.95	4.24	
MW-29	13-Oct-15	ND	5.15	--	8.95	3.80	
MW-29	9-Nov-15	ND	5.65	--	8.95	3.30	
MW-29	4-Feb-16	ND	5.06	--	8.95	3.89	
MW-29	11-May-16	ND	5.17	--	8.95	3.78	
MW-29	23-Aug-16	ND	5.05	--	8.95	3.90	
MW-29	24-Feb-17	ND	5.11	--	8.95	3.84	
MW-29	1-May-17	ND	4.80	--	8.95	4.15	
MW-29	14-Aug-17	ND	4.83	--	8.95	4.12	
MW-29	14-Nov-17	ND	5.41	--	8.95	3.54	
MW-30	22-Jul-11	5.37	6.27	0.90	7.16	1.71	
MW-30	18-Oct-11	4.85	5.82	0.97	7.16	2.23	
MW-30	16-Jan-12	6.04	6.90	0.86	7.16	1.05	
MW-30	12-Apr-12	6.20	6.24	0.04	7.16	0.96	
MW-30	11-Jul-12	5.70	6.60	0.90	7.16	1.38	
MW-30	23-Oct-12	6.00	6.55	0.55	7.16	1.11	
MW-30	18-Jan-13	5.70	6.05	0.35	7.16	1.43	
MW-30	18-Apr-13	5.94	6.35	0.41	7.16	1.19	
MW-30	15-Jul-13	5.72	5.85	0.13	7.16	1.43	
MW-30	28-Oct-13	6.05	6.98	0.93	7.16	1.03	
MW-30	27-Jan-14	6.18	7.77	1.59	7.16	0.85	
MW-30	7-Apr-14	5.87	6.58	0.71	7.16	1.23	
MW-30	18-Jul-14	5.70	5.71	0.01	7.16	1.46	
MW-30	15-Oct-14	6.22	6.35	0.13	7.16	0.93	
MW-30	4-Feb-15	NM	NM	NM	7.16	NM	Under pallet
MW-30	29-Apr-15	ND	5.20	--	7.16	1.96	
MW-30	14-Jul-15	3.87	4.49	0.62	7.16	3.24	
MW-30	13-Oct-15	4.80	5.13	0.33	7.16	2.33	
MW-30	9-Nov-15	ND	5.46	--	7.16	1.70	
MW-30	4-Feb-16	ND	4.31	--	7.16	2.85	
MW-30	11-May-16	4.16	4.47	0.31	7.16	2.97	
MW-30	23-Aug-16	4.27	4.79	0.52	7.16	2.85	
MW-30	10-Nov-16	4.21	4.41	0.20	7.16	2.93	
MW-30	24-Feb-17	3.88	4.72	0.84	7.16	3.21	
MW-30	1-May-17	3.59	4.02	0.43	7.16	3.53	
MW-30	14-Aug-17	3.87	5.00	1.13	7.16	3.19	
MW-30	14-Nov-17	4.57	5.45	0.88	7.16	2.52	
MW-31	22-Jul-11	ND	1.86	--	4.42	2.56	
MW-31	18-Oct-11	ND	1.71	--	4.42	2.71	
MW-31	19-Jan-12	ND	2.29	--	4.42	2.13	Inaccessible 1/16/12
MW-31	12-Apr-12	NM	NM	NM	4.42	NM	Well inaccessible
MW-31	12-Jul-12	ND	2.07	--	4.42	2.35	
MW-31	23-Oct-12	ND	2.92	--	4.42	1.50	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-31	18-Jan-13	ND	1.70	--	4.42	2.72	
MW-31	18-Apr-13	4.64	5.03	0.39	4.42	-0.26	
MW-31	15-Jul-13	ND	2.03	--	4.42	2.39	
MW-31	28-Oct-13	ND	2.72	--	4.42	1.70	
MW-31	27-Jan-14	ND	2.17	--	4.42	2.25	
MW-31	7-Apr-14	NM	NM	NM	4.42	NM	Well inaccessible
MW-31	18-Jul-14	ND	2.04	--	4.42	2.38	
MW-31	4-Feb-15	ND	1.61	--	4.42	2.81	
MW-31	29-Apr-15	NM	NM	NM	4.42	NM	Under vehicle
MW-31	14-Jul-15	ND	0.81	--	4.42	3.61	
MW-31	13-Oct-15	NM	NM	NM	4.42	NM	Under vehicle
MW-31	9-Nov-15	ND	1.55	--	4.42	2.87	
MW-31	4-Feb-16	NM	NM	NM	4.42	NM	Under warehouse supplies
MW-31	11-May-16	ND	1.46	--	4.42	2.96	
MW-31	23-Aug-16	ND	0.98	--	4.42	3.44	
MW-31	10-Nov-16	ND	1.20	--	4.42	3.22	
MW-31	24-Feb-17	ND	0.86	--	4.42	3.56	
MW-31	1-May-17	ND	0.83	--	4.42	3.59	
MW-31	14-Aug-17	ND	0.76	--	4.42	3.66	
MW-31	14-Nov-17	ND	1.86	--	4.42	2.56	
MW-32	22-Jul-11	6.92	6.93	0.01	5.84	-1.08	
MW-32	18-Oct-11	6.04	6.07	0.03	5.84	-0.20	
MW-32	16-Jan-12	6.60	6.80	0.20	5.84	-0.78	
MW-32	12-Apr-12	6.90	6.92	0.02	5.84	-1.06	
MW-32	11-Jul-12	6.35	6.60	0.25	5.84	-0.53	
MW-32	23-Oct-12	6.41	6.51	0.10	5.84	-0.58	
MW-32	18-Jan-13	6.47	6.49	0.02	5.84	-0.63	
MW-32	18-Apr-13	6.92	6.96	0.04	5.84	-1.08	
MW-32	15-Jul-13	7.46	7.49	0.03	5.84	-1.62	
MW-32	28-Oct-13	6.20	6.95	0.75	5.84	-0.43	
MW-32	27-Jan-14	6.90	7.70	0.80	5.84	-1.14	
MW-32	7-Apr-14	7.03	7.25	0.22	5.84	-1.21	
MW-32	18-Jul-14	ND	6.85	--	5.84	-1.01	
MW-32	15-Oct-14	ND	6.42	--	5.84	-0.58	
MW-32	4-Feb-15	NM	NM	NM	5.84	NM	Unable to locate
MW-32	29-Apr-15	ND	6.90	--	5.84	-1.06	
MW-32	14-Jul-15	ND	5.52	--	6.00	0.48	
MW-32	13-Oct-15	ND	3.91	--	6.00	2.09	
MW-32	9-Nov-15	ND	6.76	--	6.00	-0.76	
MW-32	4-Feb-16	ND	6.01	--	6.00	-0.01	
MW-32	11-May-16	NM	NM	NM	6.00	NM	Well abandoned
MW-33	22-Jul-11	4.24	4.98	0.74	5.70	1.39	
MW-33	18-Oct-11	3.79	5.97	2.18	5.70	1.70	
MW-33	16-Jan-12	4.79	7.00	2.21	5.70	0.70	
MW-33	12-Apr-12	4.93	5.40	0.47	5.70	0.73	
MW-33	11-Jul-12	4.48	6.00	1.52	5.70	1.08	
MW-33	23-Oct-12	4.87	5.50	0.63	5.70	0.77	
MW-33	18-Jan-13	4.50	4.69	0.19	5.70	1.18	
MW-33	18-Apr-13	4.71	4.90	0.19	5.70	0.97	
MW-33	15-Jul-13	4.48	4.80	0.32	5.70	1.19	

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ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-33	28-Oct-13	4.86	5.57	0.71	5.70	0.77	
MW-33	27-Jan-14	4.87	5.80	0.93	5.70	0.74	
MW-33	7-Apr-14	4.65	5.03	0.38	5.70	1.01	
MW-33	18-Jul-14	ND	4.35	--	5.70	1.35	
MW-33	15-Oct-14	4.42	4.45	0.03	5.70	1.28	
MW-33	4-Feb-15	4.19	4.90	0.71	5.70	1.44	
MW-33	29-Apr-15	3.71	3.90	0.19	5.70	1.97	
MW-33	14-Jul-15	2.67	2.97	0.30	5.65	2.95	
MW-33	13-Oct-15	2.70	3.30	0.60	5.65	2.89	
MW-33	10-Nov-15	3.33	3.90	0.57	5.65	2.27	
MW-33	4-Feb-16	ND	4.20	--	5.65	1.45	
MW-33	11-May-16	3.85	3.97	0.12	5.65	1.79	
MW-33	23-Aug-16	4.85	6.33	1.48	5.65	0.66	
MW-33	10-Nov-16	2.77	4.21	1.44	5.65	2.74	
MW-33	24-Feb-17	2.62	3.34	0.72	5.65	2.96	
MW-33	1-May-17	2.39	3.40	1.01	5.65	3.16	
MW-33	14-Aug-17	2.90	4.15	1.25	5.65	2.63	
MW-33	14-Nov-17	2.95	4.39	1.44	5.65	2.56	
MW-34	11-Jul-12	8.00	8.19	0.19	7.00	-1.02	
MW-34	23-Oct-12	7.11	7.60	0.49	7.00	-0.16	
MW-34	18-Jan-13	7.77	8.10	0.33	7.00	-0.80	
MW-34	18-Apr-13	7.62	7.70	0.08	7.00	-0.63	
MW-34	15-Jul-13	7.85	7.90	0.05	7.00	-0.85	
MW-34	28-Oct-13	7.30	7.59	0.29	7.00	-0.33	
MW-34	27-Jan-14	NM	NM	NM	7.00	NM	Well inaccessible
MW-34	7-Apr-14	7.20	7.33	0.13	7.00	-0.21	
MW-34	18-Jul-14	7.26	7.55	0.29	7.00	-0.29	
MW-34	15-Oct-14	NM	NM	NM	7.00	NM	Under asphalt
MW-34	4-Feb-15	NM	NM	NM	7.00	NM	Unable to locate
MW-34	29-Apr-15	NM	NM	NM	7.00	NM	Unable to locate
MW-34	14-Jul-15	NM	NM	NM	7.00	NM	Destroyed during WM Construction
MW-35	11-Jul-12	7.45	7.47	0.02	6.95	-0.50	
MW-35	23-Oct-12	NM	NM	NM	6.95	NM	Well inaccessible
MW-35	18-Jan-13	7.36	7.37	0.01	6.95	-0.41	
MW-35	18-Apr-13	ND	6.84	--	6.95	0.11	
MW-35	15-Jul-13	ND	7.64	--	6.95	-0.69	Trace NAPL
MW-35	28-Oct-13	NM	NM	NM	6.95	NM	Well inaccessible
MW-35	27-Jan-14	NM	NM	NM	6.95	NM	Well inaccessible
MW-35	7-Apr-14	NM	NM	NM	6.95	NM	Well inaccessible
MW-35	18-Jul-14	NM	NM	NM	6.95	NM	Well inaccessible
MW-35	15-Oct-14	ND	9.20	--	6.95	-2.25	
MW-35	4-Feb-15	NM	NM	NM	6.95	NM	Unable to locate
MW-35	29-Apr-15	NM	NM	NM	6.95	NM	Unable to locate
MW-35	14-Jul-15	NM	NM	NM	6.95	NM	Unable to locate
MW-35	13-Oct-15	NM	NM	NM	6.95	NM	Unable to locate
MW-35	9-Nov-15	NM	NM	NM	6.95	NM	Unable to locate
MW-35	4-Feb-16	NM	NM	NM	6.95	NM	Unable to locate
MW-35	11-May-16	NM	NM	NM	6.95	NM	Covered during WM Construction

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-36	11-Jul-12	ND	7.90	--	8.99	1.09	
MW-36	23-Oct-12	5.93	6.11	0.18	8.99	3.04	
MW-36	18-Jan-13	NM	NM	NM	8.99	NM	Well inaccessible
MW-36	18-Apr-13	NM	NM	NM	8.99	NM	Unable to locate
MW-36	15-Jul-13	ND	8.14	--	8.99	0.85	
MW-36	28-Oct-13	8.20	8.24	0.04	8.99	0.79	
MW-36	27-Jan-14	ND	8.44	--	8.99	0.55	
MW-36	7-Apr-14	ND	8.22	--	8.99	0.77	
MW-36	18-Jul-14	ND	7.55	--	8.99	1.44	
MW-36	15-Oct-14	NM	NM	NM	8.99	NM	Under asphalt
MW-36	4-Feb-15	NM	NM	NM	8.99	NM	Unable to locate
MW-36	29-Apr-15	NM	NM	NM	8.99	NM	Unable to locate
MW-36	14-Jul-15	NM	NM	NM	8.99	NM	Destroyed during WM Construction
MW-37	11-Jul-12	NM	NM	NM	13.95	NM	Unable to locate
MW-37	23-Oct-12	ND	11.04	--	13.95	2.91	
MW-37	18-Jan-13	ND	11.08	--	13.95	2.87	
MW-37	18-Apr-13	ND	11.62	--	13.95	2.33	
MW-37	15-Jul-13	ND	11.34	--	13.95	2.61	
MW-37	28-Oct-13	ND	12.00	--	13.95	1.95	
MW-37	27-Jan-14	ND	11.49	--	13.95	2.46	
MW-37	7-Apr-14	ND	11.28	--	13.95	2.67	
MW-37	18-Jul-14	NM	NM	NM	13.95	NM	Unable to locate
MW-37	15-Oct-14	ND	11.60	--	13.95	2.35	
MW-37	4-Feb-15	NM	NM	NM	13.95	NM	Unable to locate
MW-37	29-Apr-15	ND	11.15	--	13.95	2.80	
MW-37	14-Jul-15	9.39	9.40	0.01	12.43	3.04	
MW-37	13-Oct-15	ND	8.99	--	12.43	3.44	
MW-37	10-Nov-15	9.72	9.84	0.12	12.43	2.70	
MW-37	4-Feb-16	8.97	8.98	0.01	12.43	3.46	
MW-37	11-May-16	ND	9.34	--	12.43	3.09	
MW-37	23-Aug-16	9.81	9.83	0.02	12.43	2.62	
MW-37	10-Nov-16	9.18	9.19	0.01	12.43	3.25	
MW-37	24-Feb-17	ND	9.47	--	12.43	2.96	
MW-37	1-May-17	ND	8.79	--	12.43	3.64	
MW-37	14-Aug-17	ND	8.50	--	12.43	3.93	
MW-37	14-Nov-17	ND	9.32	--	12.43	3.11	
MW-38	11-Jul-12	ND	10.17	--	13.97	3.80	
MW-38	23-Oct-12	ND	10.41	--	13.97	3.56	
MW-38	18-Jan-13	ND	10.70	--	13.97	3.27	
MW-38	18-Apr-13	NM	NM	NM	13.97	NM	Under truck
MW-38	15-Jul-13	ND	10.45	--	13.97	3.52	
MW-38	28-Oct-13	NM	NM	NM	13.97	NM	Well inaccessible
MW-38	27-Jan-14	NM	NM	NM	13.97	NM	Well inaccessible
MW-38	7-Apr-14	NM	NM	NM	13.97	NM	Well inaccessible
MW-38	18-Jul-14	NM	NM	NM	13.97	NM	Well inaccessible
MW-38	15-Oct-14	NM	NM	NM	13.97	NM	Under asphalt
MW-38	4-Feb-15	NM	NM	NM	13.97	NM	Unable to locate
MW-38	29-Apr-15	NM	NM	NM	13.97	NM	Unable to locate

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MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-38	29-Apr-15	NM	NM	NM	13.97	NM	Unable to locate
MW-38	14-Jul-15	NM	NM	NM	13.97	NM	Unable to locate
MW-38	13-Oct-15	NM	NM	NM	13.97	NM	Unable to locate
MW-38	9-Nov-15	NM	NM	NM	13.97	NM	Unable to locate
MW-38	4-Feb-16	NM	NM	NM	13.97	NM	Unable to locate
MW-38	11-May-16	NM	NM	NM	13.97	NM	Destroyed during WM Construction
MW-39	11-Jul-12	ND	10.26	--	10.26	0.00	
MW-39	23-Oct-12	ND	8.03	--	10.26	2.23	
MW-39	18-Jan-13	6.41	6.42	0.01	10.26	3.85	
MW-39	18-Apr-13	ND	8.32	--	10.26	1.94	
MW-39	15-Jul-13	8.00	8.02	0.02	10.26	2.26	
MW-39	28-Oct-13	8.60	8.65	0.05	10.26	1.66	
MW-39	27-Jan-14	8.16	8.17	0.01	10.26	2.10	
MW-39	7-Apr-14	8.00	8.01	0.01	10.26	2.26	
MW-39	18-Jul-14	ND	7.73	--	10.26	2.53	
MW-39	4-Feb-15	NM	NM	NM	10.26	NM	Unable to locate
MW-39	29-Apr-15	6.49	6.50	0.01	10.26	3.77	
MW-39	14-Jul-15	NM	NM	NM	10.26	NM	Destroyed during WM Construction
MW-40S	11-Jul-12	ND	7.59	--	10.78	3.19	
MW-40S	23-Oct-12	5.30	5.32	0.02	10.78	5.48	
MW-40S	18-Jan-13	8.19	8.20	0.01	10.78	2.59	
MW-40S	18-Apr-13	ND	8.10	--	10.78	2.68	
MW-40S	15-Jul-13	4.74	4.78	0.04	10.78	6.04	
MW-40S	28-Oct-13	ND	7.60	--	10.78	3.18	
MW-40S	27-Jan-14	ND	8.50	--	10.78	2.28	
MW-40S	7-Apr-14	ND	8.49	--	10.78	2.29	
MW-40S	18-Jul-14	ND	8.20	--	10.78	2.58	
MW-40S	15-Oct-14	NM	NM	NM	10.78	NM	Well inaccessible
MW-40S	4-Feb-15	NM	NM	NM	10.78	NM	Unable to locate
MW-40S	29-Apr-15	NM	NM	NM	10.78	NM	Covered
MW-40S	14-Jul-15	NM	NM	NM	10.78	NM	Damaged during WM Construction
MW-40D	11-Jul-12	ND	10.30	--	10.76	0.46	
MW-40D	23-Oct-12	ND	11.00	--	10.76	-0.24	
MW-40D	18-Jan-13	ND	11.45	--	10.76	-0.69	
MW-40D	18-Apr-13	ND	11.28	--	10.76	-0.52	
MW-40D	15-Jul-13	ND	6.95	--	10.76	3.81	
MW-40D	28-Oct-13	ND	7.40	--	10.76	3.36	
MW-40D	27-Jan-14	ND	11.37	--	10.76	-0.61	
MW-40D	7-Apr-14	ND	11.13	--	10.76	-0.37	
MW-40D	18-Jul-14	ND	10.95	--	10.76	-0.19	
MW-40D	15-Oct-14	NM	NM	NM	10.76	NM	Well inaccessible
MW-40D	4-Feb-15	NM	NM	NM	10.76	NM	Unable to locate
MW-40D	29-Apr-15	NM	NM	NM	10.76	NM	Covered
MW-40D	14-Jul-15	NM	NM	NM	10.76	NM	Destroyed during WM Construction

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MW-41S	11-Jul-12	ND	3.95	--	6.84	2.89	
MW-41S	23-Oct-12	ND	4.90	--	6.84	1.94	
MW-41S	18-Jan-13	NM	NM	NM	6.84	NM	LNAPL too viscous
MW-41S	18-Apr-13	ND	6.24	--	6.84	0.60	
MW-41S	15-Jul-13	ND	8.02	--	6.84	-1.18	
MW-41S	28-Oct-13	8.25	8.27	0.02	6.84	-1.41	
MW-41S	27-Jan-14	ND	7.52	--	6.84	-0.68	
MW-41S	7-Apr-14	ND	7.28	--	6.84	-0.44	
MW-41S	18-Jul-14	ND	6.60	--	6.84	0.24	
MW-41S	15-Oct-14	NM	NM	NM	6.84	NM	Well removed by WM
MW-41D	11-Jul-12	ND	6.74	--	6.36	-0.38	
MW-41D	23-Oct-12	ND	7.29	--	6.36	-0.93	
MW-41D	18-Jan-13	ND	7.70	--	6.36	-1.34	
MW-41D	18-Apr-13	ND	7.5	--	6.36	-1.14	
MW-41D	15-Jul-13	ND	10.92	--	6.36	-4.56	
MW-41D	28-Oct-13	ND	11.3	--	6.36	-4.94	
MW-41D	27-Jan-14	ND	7.32	--	6.36	-0.96	
MW-41D	7-Apr-14	ND	7.1	--	6.36	-0.74	
MW-41D	18-Jul-14	ND	6.77	--	6.36	-0.41	
MW-41D	15-Oct-14	NM	NM	NM	6.36	NM	Well abandoned
MW-42	11-Jul-12	7.55	22.00	14.45	9.10	0.18	
MW-42	23-Oct-12	7.97	17.03	9.06	9.10	0.27	
MW-42	18-Jan-13	8.70	21.45	12.75	9.10	-0.81	
MW-42	18-Apr-13	8.65	13.00	4.35	9.10	0.04	
MW-42	15-Jul-13	8.00	23.00	15.00	9.10	-0.32	
MW-42	28-Oct-13	8.60	22.50	13.90	9.10	-0.82	
MW-42	27-Jan-14	8.33	23.00	14.67	9.10	-0.62	
MW-42	7-Apr-14	8.20	21.47	13.27	9.10	-0.36	
MW-42	18-Jul-14	7.66	21.20	13.54	9.10	0.15	
MW-42	15-Oct-14	8.03	22.10	14.07	9.10	-0.27	
MW-42	4-Feb-15	12.71	24.22	11.51	13.92	0.12	
MW-42	29-Apr-15	12.61	26.51	13.90	13.92	-0.01	
MW-42	14-Jul-15	11.55	26.39	14.84	13.92	0.96	
MW-42	13-Oct-15	11.90	24.64	12.74	13.92	0.81	
MW-42	9-Nov-15	12.92	25.37	12.45	13.92	-0.18	
MW-42	4-Feb-16	12.94	23.51	10.57	13.92	-0.02	
MW-42	11-May-16	13.30	23.88	10.58	13.92	-0.39	
MW-42	23-Aug-16	13.39	22.28	8.89	13.92	-0.31	
MW-42	10-Nov-16	13.06	22.37	9.31	13.92	-0.02	
MW-42	24-Feb-17	13.76	24.50	10.74	13.92	-0.86	
MW-42	1-May-17	12.97	22.83	9.86	13.92	0.01	
MW-42	14-Aug-17	12.44	24.03	11.59	13.92	0.38	
MW-42	14-Nov-17	12.71	26.23	13.52	13.92	-0.07	
MW-43	11-Jul-12	ND	4.58	--	7.98	3.40	
MW-43	23-Oct-12	ND	5.40	--	7.98	2.58	
MW-43	18-Jan-13	ND	6.44	--	7.98	1.54	
MW-43	18-Apr-13	ND	5.55	--	7.98	2.43	
MW-43	15-Jul-13	ND	4.84	--	7.98	3.14	
MW-43	28-Oct-13	ND	6.20	--	7.98	1.78	

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MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-43	27-Jan-14	ND	5.06	--	7.98	2.92	
MW-43	7-Apr-14	ND	5.65	--	7.98	2.33	
MW-43	18-Jul-14	ND	5.08	--	7.98	2.90	
MW-43	15-Oct-14	NM	NM	NM	7.98	NM	Under asphalt
MW-43	4-Feb-15	NM	NM	NM	7.98	NM	Unable to locate
MW-43	29-Apr-15	NM	NM	NM	7.98	NM	Unable to locate
MW-43	14-Jul-15	NM	NM	NM	7.98	NM	Destroyed during WM Construction
MW-44	11-Jul-12	ND	3.61	--	8.31	4.70	
MW-44	23-Oct-12	ND	3.50	--	8.31	4.81	
MW-44	18-Jan-13	ND	5.34	--	8.31	2.97	
MW-44	18-Apr-13	ND	4.00	--	8.31	4.31	
MW-44	15-Jul-13	ND	3.50	--	8.31	4.81	
MW-44	28-Oct-13	5.12	5.13	0.01	8.31	3.19	
MW-44	27-Jan-14	ND	4.00	--	8.31	4.31	
MW-44	7-Apr-14	ND	3.77	--	8.31	4.54	
MW-44	18-Jul-14	ND	3.44	--	8.31	4.87	
MW-44	4-Feb-15	ND	5.13	--	8.31	3.18	
MW-44	29-Apr-15	ND	5.18	--	8.31	3.13	
MW-44	14-Jul-15	ND	5.21	--	10.44	5.23	
MW-44	13-Oct-15	ND	5.15	--	10.44	5.29	
MW-44	9-Nov-15	ND	6.32	--	10.44	4.12	
MW-44	4-Feb-16	ND	5.03	--	10.44	5.41	
MW-44	11-May-16	ND	5.29	--	10.44	5.15	
MW-44	23-Aug-16	ND	4.09	--	10.44	6.35	
MW-44	10-Nov-16	3.99	4.01	0.02	10.44	6.45	
MW-44	24-Feb-17	ND	4.02	--	10.44	6.42	
MW-44	1-May-17	ND	3.20	--	10.44	7.24	
MW-44	14-Aug-17	ND	3.04	--	10.44	7.40	
MW-44	14-Nov-17	ND	6.11	--	10.44	4.33	Trace LNAPL
MW-45	11-Jul-12	ND	7.23	--	6.33	-0.90	
MW-45	23-Oct-12	6.74	7.60	0.86	6.33	-0.49	
MW-45	18-Jan-13	7.06	7.07	0.01	6.33	-0.73	
MW-45	18-Apr-13	7.40	7.42	0.02	6.33	-1.07	
MW-45	15-Jul-13	7.32	7.99	0.67	6.33	-1.05	
MW-45	28-Oct-13	6.85	6.95	0.10	6.33	-0.53	
MW-45	27-Jan-14	6.40	6.42	0.02	6.33	-0.07	
MW-45	7-Apr-14	7.18	7.20	0.02	6.33	-0.85	
MW-45	18-Jul-14	7.50	7.51	0.01	6.33	-1.17	
MW-45	15-Oct-14	NM	NM	NM	6.33	NM	Under asphalt
MW-45	4-Feb-15	NM	NM	NM	6.33	NM	Unable to locate
MW-45	29-Apr-15	NM	NM	NM	6.33	NM	Unable to locate
MW-45	14-Jul-15	NM	NM	NM	6.33	NM	Removed during WM Construction
MW-46	11-Jul-12	ND	10.32	--	8.88	-1.44	
MW-46	23-Oct-12	ND	10.15	--	8.88	-1.27	
MW-46	18-Jan-13	ND	9.61	--	8.88	-0.73	
MW-46	18-Apr-13	ND	9.30	--	8.88	-0.42	
MW-46	15-Jul-13	ND	9.97	--	8.88	-1.09	

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MW-46	28-Oct-13	ND	9.99	--	8.88	-1.11	
MW-46	27-Jan-14	NM	NM	NM	8.88	NM	LNAPL too viscous
MW-46	7-Apr-14	ND	8.80	--	8.88	0.08	
MW-46	18-Jul-14	ND	9.55	--	8.88	-0.67	
MW-46	15-Oct-14	ND	8.68	--	8.88	0.20	
MW-46	4-Feb-15	NM	NM	NM	8.88	NM	Under beam
MW-46	29-Apr-15	NM	NM	NM	8.88	NM	Unable to locate
MW-46	14-Jul-15	ND	8.65	--	8.52	-0.13	
MW-46	13-Oct-15	ND	6.44	--	8.52	2.08	
MW-46	9-Nov-15	ND	9.79	--	8.52	-1.27	
MW-46	4-Feb-16	ND	9.71	--	8.52	-1.19	
MW-46	11-May-16	ND	10.68	--	8.52	-2.16	
MW-46	23-Aug-16	ND	9.43	--	8.52	-0.91	
MW-46	10-Nov-16	ND	8.00	--	8.52	0.52	
MW-46	24-Feb-17	ND	13.91	--	8.52	-5.39	
MW-46	1-May-17	ND	9.00	--	8.52	-0.48	
MW-46	14-Aug-17	ND	8.42	--	8.52	0.10	
MW-46	14-Nov-17	ND	8.85	--	8.52	-0.33	
MW-47	11-Jul-12	4.65	4.70	0.05	8.37	3.72	
MW-47	23-Oct-12	5.00	5.18	0.18	8.37	3.35	
MW-47	18-Jan-13	4.75	NM	NM	8.37	NM	LNAPL too viscous
MW-47	18-Apr-13	5.00	NM	NM	8.37	NM	LNAPL too viscous
MW-47	15-Jul-13	4.80	4.95	0.15	8.37	3.56	
MW-47	28-Oct-13	5.12	5.20	0.08	8.37	3.24	
MW-47	27-Jan-14	NM	NM	NM	8.37	NM	Well inaccessible
MW-47	7-Apr-14	NM	NM	NM	8.37	NM	LNAPL too viscous
MW-47	18-Jul-14	4.65	4.67	0.02	8.37	3.72	
MW-47	15-Oct-14	NM	NM	NM	8.37	NM	Well removed by WM
MW-48S	11-Jul-12	9.20	9.23	0.03	9.81	0.61	
MW-48S	23-Oct-12	NM	NM	NM	9.81	NM	Well inaccessible
MW-48S	18-Jan-13	NM	NM	NM	9.81	NM	Well inaccessible
MW-48S	18-Apr-13	NM	NM	NM	9.81	NM	Under vehicle
MW-48S	15-Jul-13	NM	NM	NM	9.81	NM	Under vehicle
MW-48S	28-Oct-13	NM	NM	NM	9.81	NM	Well inaccessible
MW-48S	27-Jan-14	NM	NM	NM	9.81	NM	Well inaccessible
MW-48S	7-Apr-14	NM	NM	NM	9.81	NM	Well inaccessible
MW-48S	18-Jul-14	NM	NM	NM	9.81	NM	Well inaccessible
MW-48S	15-Oct-14	9.55	10.90	1.35	9.81	0.13	
MW-48S	4-Feb-15	NM	NM	NM	9.81	NM	Under debris pile
MW-48S	29-Apr-15	ND	9.53	--	9.81	0.28	
MW-48S	14-Jul-15	7.03	7.05	0.02	9.81	2.78	
MW-48S	13-Oct-15	ND	8.49	--	9.81	1.32	
MW-48S	9-Nov-15	9.51	9.55	0.04	9.81	0.30	
MW-48S	4-Feb-16	8.87	9.46	0.59	9.81	0.88	
MW-48S	11-May-16	9.28	11.15	1.87	9.81	0.35	
MW-48S	23-Aug-16	ND	9.24	--	9.81	0.57	
MW-48S	10-Nov-16	8.83	8.94	0.11	9.81	0.97	
MW-48S	24-Feb-17	ND	8.95	--	9.81	0.86	
MW-48S	1-May-17	ND	7.65	--	9.81	2.16	
MW-48S	14-Aug-17	ND	7.46	--	9.81	2.35	

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MW-48S	14-Nov-17	9.19	9.20	9.20	9.81	8.94	
MW-48D	11-Jul-12	9.61	22.73	13.12	9.83	-1.03	
MW-48D	23-Oct-12	9.91	22.03	12.12	9.83	-1.23	
MW-48D	18-Jan-13	10.55	21.48	10.93	9.83	-1.76	
MW-48D	18-Apr-13	10.70	21.80	11.10	9.83	-1.92	
MW-48D	15-Jul-13	10.00	22.15	12.15	9.83	-1.32	
MW-48D	28-Oct-13	10.50	21.80	11.30	9.83	-1.74	
MW-48D	27-Jan-14	10.45	21.85	11.40	9.83	-1.70	
MW-48D	7-Apr-14	10.24	21.55	11.31	9.83	-1.48	
MW-48D	18-Jul-14	9.72	21.47	11.75	9.83	-1.01	
MW-48D	15-Oct-14	10.12	21.80	11.68	9.83	-1.40	
MW-48D	4-Feb-15	NM	NM	NM	9.83	NM	Under debris pile
MW-48D	29-Apr-15	9.78	22.29	12.51	9.83	-1.14	
MW-48D	14-Jul-15	8.47	21.86	13.39	9.83	0.09	
MW-48D	13-Oct-15	8.92	21.73	12.81	9.83	-0.31	
MW-48D	9-Nov-15	9.87	21.70	11.83	9.83	-1.16	
MW-48D	4-Feb-16	NM	NM	NM	9.83	NM	Under vehicle
MW-48D	11-May-16	10.03	21.89	11.86	9.83	-1.33	
MW-48D	23-Aug-16	10.33	20.97	10.64	9.83	-1.51	
MW-48D	10-Nov-16	9.94	22.24	12.30	9.83	-1.28	
MW-48D	24-Feb-17	10.80	22.12	11.32	9.83	-2.05	
MW-48D	1-May-17	10.19	21.95	11.76	9.83	-1.48	
MW-48D	14-Aug-17	10.74	22.02	11.28	9.83	-1.98	
MW-48D	14-Nov-17	10.09	17.21	7.12	9.83	-0.94	
MW-49S	11-Jul-12	10.85	11.50	0.65	10.68	-0.23	
MW-49S	23-Oct-12	NM	NM	NM	10.68	NM	Well inaccessible
MW-49S	18-Jan-13	11.35	12.80	1.45	10.68	-0.79	
MW-49S	18-Apr-13	NM	NM	NM	10.68	NM	Under vehicle
MW-49S	15-Jul-13	11.32	12.84	1.52	10.68	-0.77	
MW-49S	28-Oct-13	NM	NM	NM	10.68	NM	Well inaccessible
MW-49S	27-Jan-14	NM	NM	NM	10.68	NM	Well inaccessible
MW-49S	7-Apr-14	11.25	11.55	0.30	10.68	-0.60	
MW-49S	18-Jul-14	10.70	10.90	0.20	10.68	-0.04	
MW-49S	15-Oct-14	NM	NM	NM	10.68	NM	Well inaccessible
MW-49S	4-Feb-15	NM	NM	NM	10.68	NM	Under vehicle
MW-49S	29-Apr-15	NM	NM	NM	10.68	NM	Under vehicle
MW-49S	14-Jul-15	9.93	12.86	2.93	10.68	0.50	
MW-49S	13-Oct-15	10.21	13.20	2.99	10.68	0.22	
MW-49S	9-Nov-15	11.08	13.30	2.22	10.68	-0.59	
MW-49S	4-Feb-16	11.03	13.29	2.26	10.68	-0.54	
MW-49S	11-May-16	11.26	13.21	1.95	10.68	-0.75	
MW-49S	23-Aug-16	11.12	13.13	2.01	10.68	-0.61	
MW-49S	10-Nov-16	11.05	13.32	2.27	10.68	-0.56	
MW-49S	24-Feb-17	NM	NM	NM	10.68	NM	Under vehicle
MW-49S	1-May-17	11.19	12.96	1.77	10.68	-0.66	
MW-49S	14-Aug-17	10.74	12.85	2.11	10.68	-0.24	
MW-49S	14-Nov-17	10.84	13.04	2.20	10.68	-0.35	
MW-49M	11-Jul-12	10.30	22.60	12.30	10.93	-0.42	
MW-49M	23-Oct-12	NM	NM	NM	10.93	NM	Well inaccessible

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-49M	18-Jan-13	11.42	22.20	10.78	10.93	-1.41	
MW-49M	18-Apr-13	NM	NM	NM	10.93	NM	Under vehicle
MW-49M	15-Jul-13	NM	NM	NM	10.93	NM	Under vehicle
MW-49M	28-Oct-13	11.42	13.20	1.78	10.93	-0.64	
MW-49M	27-Jan-14	11.25	22.10	10.85	10.93	-1.24	
MW-49M	7-Apr-14	NM	NM	NM	10.93	NM	Well inaccessible
MW-49M	18-Jul-14	NM	NM	NM	10.93	NM	Well inaccessible
MW-49M	15-Oct-14	NM	NM	NM	10.93	NM	Well inaccessible
MW-49M	4-Feb-15	11.04	22.30	11.26	10.93	-1.07	
MW-49M	29-Apr-15	10.65	22.34	11.69	10.93	-0.71	
MW-49M	14-Jul-15	9.62	20.51	10.89	10.93	0.38	
MW-49M	13-Oct-15	10.00	21.18	11.18	10.93	-0.02	
MW-49M	9-Nov-15	10.93	21.31	10.38	10.93	-0.88	
MW-49M	4-Feb-16	10.91	21.88	10.97	10.93	-0.91	
MW-49M	11-May-16	10.98	21.85	10.87	10.93	-0.98	
MW-49M	23-Aug-16	11.32	21.74	10.42	10.93	-1.28	
MW-49M	10-Nov-16	10.96	20.38	9.42	10.93	-0.83	
MW-49M	24-Feb-17	11.60	22.28	10.68	10.93	-1.58	
MW-49M	1-May-17	11.16	22.17	11.01	10.93	-1.17	
MW-49M	14-Aug-17	10.80	21.60	10.80	10.93	-0.79	
MW-49M	14-Nov-17	10.53	23.10	12.57	10.93	-0.67	
MW-49D	11-Jul-12	11.52	11.80	0.28	10.55	-0.99	
MW-49D	23-Oct-12	11.92	12.15	0.23	10.55	-1.39	
MW-49D	13-Jan-13	NM	NM	NM	10.55	NM	Well inaccessible
MW-49D	18-Apr-13	12.50	13.00	0.50	10.55	-1.99	
MW-49D	15-Jul-13	12.17	12.50	0.33	10.55	-1.65	
MW-49D	28-Oct-13	12.36	12.42	0.06	10.55	-1.82	
MW-49D	27-Jan-14	12.17	12.20	0.03	10.55	-1.62	
MW-49D	7-Apr-14	NM	NM	NM	10.55	NM	Well inaccessible
MW-49D	18-Jul-14	11.55	11.61	0.06	10.55	-1.01	
MW-49D	15-Oct-14	11.88	11.90	0.02	10.55	-1.33	
MW-49D	4-Feb-15	ND	11.92	--	10.55	-1.37	
MW-49D	29-Apr-15	ND	11.73	--	10.55	-1.18	
MW-49D	14-Jul-15	ND	10.46	--	10.55	0.09	
MW-49D	13-Oct-15	ND	10.87	--	10.55	-0.32	
MW-49D	9-Nov-15	ND	11.77	--	10.55	-1.22	
MW-49D	4-Feb-16	ND	11.78	--	10.55	-1.23	
MW-49D	11-May-16	ND	13.13	--	10.55	-2.58	
MW-49D	23-Aug-16	ND	12.12	--	10.55	-1.57	
MW-49D	10-Nov-16	ND	11.72	--	10.55	-1.17	
MW-49D	24-Feb-17	ND	12.38	--	10.55	-1.83	
MW-49D	1-May-17	ND	12.01	--	10.55	-1.46	
MW-49D	14-Aug-17	ND	11.47	--	10.55	-0.92	
MW-49D	14-Nov-17	ND	11.47	--	10.55	-0.92	
MW-50	11-Jul-12	10.73	17.07	6.34	10.71	-0.62	
MW-50	23-Oct-12	10.90	19.20	8.30	10.71	-0.98	
MW-50	18-Jan-13	11.40	19.20	7.80	10.71	-1.43	
MW-50	18-Apr-13	11.52	19.10	7.58	10.71	-1.53	
MW-50	15-Jul-13	11.10	18.30	7.20	10.71	-1.07	
MW-50	28-Oct-13	11.40	19.00	7.60	10.71	-1.41	

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MW-50	27-Jan-14	11.23	17.50	6.27	10.71	-1.12	
MW-50	7-Apr-14	11.00	16.96	5.96	10.71	-0.86	
MW-50	18-Jul-14	10.35	16.10	5.75	10.71	-0.19	
MW-50	15-Oct-14	10.75	18.20	7.45	10.71	-0.75	
MW-50	4-Feb-15	11.02	17.33	6.31	10.71	-0.91	
MW-50	29-Apr-15	10.62	16.18	5.56	10.71	-0.44	
MW-50	14-Jul-15	8.90	14.07	5.17	10.71	1.32	
MW-50	13-Oct-15	10.14	15.50	5.36	10.71	0.06	
MW-50	9-Nov-15	10.92	18.27	7.35	10.71	-0.91	
MW-50	4-Feb-16	11.09	16.79	5.70	10.71	-0.92	
MW-50	11-May-16	11.10	19.04	7.94	10.71	-1.14	
MW-50	23-Aug-16	11.03	17.56	6.53	10.71	-0.94	
MW-50	10-Nov-16	10.92	17.73	6.81	10.71	-0.86	
MW-50	24-Feb-17	11.36	18.88	7.52	10.71	-1.36	
MW-50	1-May-17	11.06	18.42	7.36	10.71	-1.05	
MW-50	14-Aug-17	10.44	16.76	6.32	10.71	-0.33	
MW-50	14-Nov-17	10.57	15.90	5.33	10.71	-0.37	
MW-51	11-Jul-12	10.20	10.27	0.07	9.83	-0.38	
MW-51	23-Oct-12	10.50	10.54	0.04	9.83	-0.67	
MW-51	18-Jan-13	11.04	11.05	0.01	9.83	-1.21	
MW-51	18-Apr-13	11.02	11.05	0.03	9.83	-1.19	
MW-51	15-Jul-13	10.48	10.95	0.47	9.83	-0.69	
MW-51	28-Oct-13	10.92	10.96	0.04	9.83	-1.09	
MW-51	27-Jan-14	11.00	11.01	0.01	9.83	-1.17	
MW-51	7-Apr-14	10.37	10.41	0.04	9.83	-0.54	
MW-51	18-Jul-14	10.60	10.65	0.05	9.83	-0.77	
MW-51	15-Oct-14	10.52	10.80	0.28	9.83	-0.72	
MW-51	4-Feb-15	NM	NM	NM	9.83	NM	Under ice/snow
MW-51	29-Apr-15	ND	10.20	--	9.83	-0.37	
MW-51	14-Jul-15	9.05	9.06	0.01	9.83	0.78	
MW-51	13-Oct-15	9.37	9.38	0.01	9.83	0.46	
MW-51	9-Nov-15	ND	10.30	--	9.83	-0.47	
MW-51	8-Feb-16	ND	8.95	--	9.83	0.88	
MW-51	11-May-16	ND	10.41	--	9.83	-0.58	
MW-51	23-Aug-16	ND	9.77	--	9.83	0.06	
MW-51	10-Nov-16	ND	8.55	--	9.83	1.28	
MW-51	24-Feb-17	ND	10.81	--	9.83	-0.98	
MW-51	1-May-17	10.40	10.41	0.01	9.83	-0.57	
MW-51	14-Aug-17	ND	9.42	--	9.83	0.41	
MW-51	14-Nov-17	ND	6.99	--	9.83	2.84	Trace LNAPL
MW-52	11-Jul-12	ND	7.86	--	6.31	-1.55	
MW-52	23-Oct-12	ND	7.70	--	6.31	-1.39	
MW-52	18-Jan-13	ND	6.96	--	6.31	-0.65	
MW-52	18-Apr-13	ND	7.96	--	6.31	-1.65	
MW-52	15-Jul-13	ND	7.64	--	6.31	-1.33	
MW-52	28-Oct-13	ND	7.62	--	6.31	-1.31	
MW-52	27-Jan-14	ND	8.02	--	6.31	-1.71	
MW-52	7-Apr-14	ND	8.05	--	6.31	-1.74	
MW-52	18-Jul-14	ND	7.97	--	6.31	-1.66	
MW-52	15-Oct-14	ND	7.38	--	6.31	-1.07	

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MW-52	4-Feb-15	ND	4.80	--	6.31	1.51	
MW-52	29-Apr-15	ND	7.83	--	6.31	-1.52	
MW-52	14-Jul-15	ND	7.27	--	6.31	-0.96	
MW-52	13-Oct-15	ND	3.36	--	6.31	2.95	
MW-52	9-Nov-15	ND	8.05	--	6.31	-1.74	
MW-52	4-Feb-16	ND	8.18	--	6.31	-1.87	
MW-52	11-May-16	ND	8.60	--	6.31	-2.29	
MW-52	23-Aug-16	ND	7.95	--	6.31	-1.64	
MW-52	10-Nov-16	ND	7.19	--	6.31	-0.88	
MW-52	24-Feb-17	ND	7.95	--	6.31	-1.64	
MW-52	1-May-17	ND	7.80	--	6.31	-1.49	
MW-52	14-Aug-17	ND	7.71	--	6.31	-1.40	
MW-52	14-Nov-17	ND	7.20	--	6.31	-0.89	
MW-54	11-Jul-12	9.45	11.20	1.75	11.06	1.44	
MW-54	23-Oct-12	9.62	10.50	0.88	11.06	1.36	
MW-54	18-Jan-13	10.06	12.17	2.11	11.06	0.80	
MW-54	18-Apr-13	10.00	11.10	1.10	11.06	0.96	
MW-54	15-Jul-13	9.55	10.60	1.05	11.06	1.41	
MW-54	28-Oct-13	NM	NM	NM	11.06	NM	Well inaccessible
MW-54	27-Jan-14	9.97	11.65	1.68	11.06	0.93	
MW-54	7-Apr-14	9.94	11.35	1.41	11.06	0.99	
MW-54	18-Jul-14	9.28	9.40	0.12	11.06	1.77	
MW-54	15-Oct-14	9.48	10.43	0.95	11.06	1.49	
MW-54	4-Feb-15	9.58	11.05	1.47	11.06	1.34	
MW-54	29-Apr-15	9.60	11.40	1.80	11.06	1.29	
MW-54	14-Jul-15	8.79	9.14	0.35	11.06	2.24	
MW-54	13-Oct-15	9.47	10.21	0.74	11.06	1.52	
MW-54	9-Nov-15	9.85	11.00	1.15	11.06	1.10	
MW-54	4-Feb-16	9.96	11.79	1.83	11.06	0.93	
MW-54	4-Feb-16	9.96	11.79	1.83	11.06	0.93	
MW-54	23-Aug-16	10.24	11.17	0.93	11.06	0.73	
MW-54	10-Nov-16	10.00	11.55	1.55	11.06	0.91	
MW-54	24-Feb-17	10.49	12.55	2.06	11.06	0.37	
MW-54	1-May-17	9.99	11.12	1.13	11.06	0.96	
MW-54	14-Aug-17	11.02	11.58	0.56	11.06	-0.01	
MW-54	14-Nov-17	NM	NM	NM	11.06	NM	Under vehicle
MW-55	11-Jul-12	8.90	21.30	12.40	11.06	0.98	
MW-55	23-Oct-12	9.50	15.90	6.40	11.06	0.95	
MW-55	18-Jan-13	10.20	16.38	6.18	11.06	0.27	
MW-55	18-Apr-13	10.24	16.10	5.86	11.06	0.26	
MW-55	15-Jul-13	9.75	15.28	5.53	11.06	0.78	
MW-55	28-Oct-13	10.05	16.00	5.95	11.06	0.44	
MW-55	27-Jan-14	10.25	16.07	5.82	11.06	0.26	
MW-55	7-Apr-14	10.02	15.40	5.38	11.06	0.53	
MW-55	18-Jul-14	9.35	14.85	5.50	11.06	1.19	
MW-55	15-Oct-14	9.64	15.12	5.48	11.06	0.90	
MW-55	4-Feb-15	9.82	15.14	5.32	11.06	0.73	
MW-55	29-Apr-15	9.54	14.80	5.26	11.06	1.02	
MW-55	14-Jul-15	8.88	13.83	4.95	11.06	1.71	
MW-55	13-Oct-15	9.25	14.48	5.23	11.06	1.31	

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MW-55	9-Nov-15	8.89	15.35	6.46	11.06	1.55	
MW-55	4-Feb-16	10.14	15.48	5.34	11.06	0.41	
MW-55	11-May-16	10.17	15.50	5.33	11.06	0.38	
MW-55	23-Aug-16	10.32	15.61	5.29	11.06	0.24	
MW-55	10-Nov-16	10.18	15.48	5.30	11.06	0.37	
MW-55	24-Feb-17	10.83	16.40	5.57	11.06	-0.30	
MW-55	1-May-17	10.15	15.43	5.28	11.06	0.41	
MW-55	14-Aug-17	9.55	14.87	5.32	11.06	1.00	
MW-55	14-Nov-17	9.81	14.90	5.09	11.06	0.76	
MW-56	11-Jul-12	14.25	14.70	0.45	15.22	0.93	
MW-56	23-Oct-12	14.15	20.80	6.65	15.22	0.44	
MW-56	18-Jan-13	9.68	10.20	0.52	15.22	5.49	
MW-56	18-Apr-13	NM	NM	NM	15.22	NM	No access to building
MW-56	15-Jul-13	12.89	14.85	1.96	15.22	2.14	
MW-56	28-Oct-13	10.80	13.40	2.60	15.22	4.17	
MW-56	27-Jan-14	10.02	10.06	0.04	15.22	5.20	
MW-56	7-Apr-14	9.66	9.70	0.04	15.22	5.56	
MW-56	18-Jul-14	NM	NM	NM	15.22	NM	Well inaccessible
MW-56	15-Oct-14	12.58	15.08	2.50	15.22	2.40	
MW-56	4-Feb-15	9.56	11.69	2.13	15.22	5.46	
MW-56	29-Apr-15	7.58	10.33	2.75	15.22	7.38	
MW-56	14-Jul-15	9.36	11.84	2.48	15.22	5.62	
MW-56	13-Oct-15	9.27	11.95	2.68	15.22	5.70	
MW-56	9-Nov-15	9.05	14.50	5.45	15.22	5.65	
MW-56	4-Feb-16	8.71	11.62	2.91	15.22	6.23	
MW-56	11-May-16	14.99	16.45	1.46	15.22	0.09	
MW-56	23-Aug-16	16.89	20.41	3.52	15.22	-2.00	
MW-56	10-Nov-16	13.24	16.42	3.18	15.22	1.68	
MW-56	24-Feb-17	8.65	9.90	1.25	15.22	6.45	
MW-56	1-May-17	8.14	9.18	1.04	15.22	6.98	
MW-56	14-Aug-17	7.00	7.82	0.82	15.22	8.14	
MW-56	14-Nov-17	5.84	5.95	0.11	15.22	9.37	
MW-57	11-Jul-12	9.23	14.85	5.62	11.12	1.36	
MW-57	23-Oct-12	8.90	10.85	1.95	11.12	2.03	
MW-57	18-Jan-13	10.58	13.20	2.62	11.12	0.29	
MW-57	18-Apr-13	10.45	16.00	5.55	11.12	0.14	
MW-57	15-Jul-13	9.87	15.88	6.01	11.12	0.68	
MW-57	28-Oct-13	10.32	15.70	5.38	11.12	0.29	
MW-57	27-Jan-14	10.40	15.96	5.56	11.12	0.19	
MW-57	7-Apr-14	10.50	15.70	5.20	11.12	0.13	
MW-57	18-Jul-14	9.52	15.60	6.08	11.12	1.02	
MW-57	15-Oct-14	9.82	15.82	6.00	11.12	0.73	
MW-57	4-Feb-15	9.90	15.59	5.69	11.12	0.68	
MW-57	29-Apr-15	9.56	15.81	6.25	11.12	0.97	
MW-57	14-Jul-15	8.86	15.28	6.42	11.12	1.65	
MW-57	13-Oct-15	9.28	15.05	5.77	11.12	1.29	
MW-57	9-Nov-15	10.00	14.75	4.75	11.12	0.67	
MW-57	4-Feb-16	10.22	15.83	5.61	11.12	0.37	
MW-57	11-May-16	10.27	16.01	5.74	11.12	0.30	
MW-57	23-Aug-16	10.15	16.37	6.22	11.12	0.38	

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MW-57	10-Nov-16	10.24	16.52	6.28	11.12	0.28	
MW-57	24-Feb-17	10.94	16.71	5.77	11.12	-0.37	
MW-57	1-May-17	10.18	16.54	6.36	11.12	0.34	
MW-57	14-Aug-17	9.59	16.28	6.69	11.12	0.89	
MW-57	14-Nov-17	9.85	16.00	6.15	11.12	0.69	
MW-58	11-Jul-12	13.87	14.72	0.85	15.33	1.38	
MW-58	23-Oct-12	14.05	14.90	0.85	15.33	1.20	
MW-58	18-Jan-13	14.60	14.90	0.30	15.33	0.70	
MW-58	18-Apr-13	NM	NM	NM	15.33	NM	No access to building
MW-58	15-Jul-13	14.05	14.83	0.78	15.33	1.21	
MW-58	28-Oct-13	10.2	14.4	4.20	15.33	4.73	
MW-58	27-Jan-14	14.64	15.3	0.66	15.33	0.63	
MW-58	7-Apr-14	14.32	14.65	0.33	15.33	0.98	
MW-58	18-Jul-14	13.58	14.82	1.24	15.33	1.63	
MW-58	15-Oct-14	14.18	14.73	0.55	15.33	1.10	
MW-58	4-Feb-15	14.09	14.79	0.70	15.33	1.17	
MW-58	29-Apr-15	14.51	15.31	0.80	15.33	0.74	
MW-58	14-Jul-15	13.12	14.76	1.64	15.33	2.05	
MW-58	13-Oct-15	13.55	14.86	1.31	15.33	1.66	
MW-58	9-Nov-15	14.23	14.70	0.47	15.33	1.06	
MW-58	4-Feb-16	14.43	14.73	0.30	15.33	0.87	
MW-58	11-May-16	14.56	14.76	0.20	15.33	0.75	
MW-58	23-Aug-16	14.62	14.86	0.24	15.33	0.69	
MW-58	16-Nov-16	14.40	14.48	0.08	15.33	0.92	
MW-58	24-Feb-17	ND	14.94	--	15.33	0.39	
MW-58	1-May-17	ND	14.36	--	15.33	0.97	
MW-58	14-Aug-17	ND	13.76	--	15.33	1.57	
MW-58	14-Nov-17	14.15	14.29	0.14	15.33	1.17	
MW-59	11-Jul-12	ND	22.03	--	29.20	7.17	
MW-59	23-Oct-12	ND	22.56	--	29.20	6.64	
MW-59	18-Jan-13	ND	23.24	--	29.20	5.96	
MW-59	18-Apr-13	ND	22.10	--	29.20	7.10	
MW-59	15-Jul-13	ND	21.20	--	29.20	8.00	
MW-59	28-Oct-13	ND	21.90	--	29.20	7.30	
MW-59	27-Jan-14	ND	23.06	--	29.20	6.14	
MW-59	7-Apr-14	ND	23.10	--	29.20	6.10	
MW-59	18-Jul-14	ND	20.51	--	29.20	8.69	
MW-59	15-Oct-14	ND	21.63	--	29.20	7.57	
MW-59	4-Feb-15	NM	NM	NM	29.20	NM	Submerged in water
MW-59	29-Apr-15	ND	20.98	--	29.20	8.22	
MW-59	14-Jul-15	ND	21.33	--	29.20	7.87	
MW-59	13-Oct-15	ND	22.34	--	29.20	6.86	
MW-59	9-Nov-15	ND	22.65	--	29.20	6.55	
MW-59	4-Feb-16	ND	23.44	--	29.20	5.76	
MW-59	11-May-16	ND	22.93	--	29.20	6.27	
MW-59	23-Aug-16	ND	23.12	--	29.20	6.08	
MW-59	16-Nov-16	ND	23.54	--	29.20	5.66	
MW-59	24-Feb-17	NM	NM	NM	29.20	NM	Well dry
MW-59	1-May-17	ND	22.46	--	29.20	6.74	
MW-59	14-Aug-17	ND	21.12	--	29.20	8.08	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-59	14-Nov-17	ND	22.11	--	29.20	7.09	
MW-60S	11-Jul-12	ND	20.22	--	23.08	2.86	
MW-60S	23-Oct-12	22.20	22.22	0.02	23.08	0.88	
MW-60S	18-Jan-13	NM	NM	NM	23.08	NM	Well inaccessible
MW-60S	18-Apr-13	22.60	23.00	0.40	23.08	0.44	
MW-60S	15-Jul-13	NM	NM	NM	23.08	NM	Under vehicle
MW-60S	28-Oct-13	NM	NM	NM	23.08	NM	Well inaccessible
MW-60S	27-Jan-14	NM	NM	NM	23.08	NM	Well inaccessible
MW-60S	7-Apr-14	NM	NM	NM	23.08	NM	Well inaccessible
MW-60S	18-Jul-14	NM	NM	NM	23.08	NM	Well inaccessible
MW-60S	15-Oct-14	NM	NM	NM	23.08	NM	Well inaccessible
MW-60S	4-Feb-15	22.24	22.80	0.56	23.08	0.79	
MW-60S	30-Apr-15	21.96	22.15	0.19	23.08	1.10	
MW-60S	15-Jul-15	21.50	21.61	0.11	23.08	1.57	
MW-60S	13-Oct-15	21.73	22.02	0.29	23.08	1.32	
MW-60S	10-Nov-15	NM	NM	NM	23.08	NM	Well inaccessible
MW-60S	4-Feb-16	22.56	22.73	0.17	23.08	0.50	
MW-60S	11-May-16	ND	21.25	--	23.08	1.83	
MW-60S	23-Aug-16	22.39	22.96	0.57	23.08	0.64	
MW-60S	10-Nov-16	NM	NM	NM	23.08	NA	Well dry
MW-60S	24-Feb-17	NM	NM	NM	23.08	NM	Well dry
MW-60S	1-May-17	22.45	22.76	0.31	23.08	0.60	
MW-60S	14-Aug-17	21.93	22.15	0.22	23.08	1.13	
MW-60S	14-Nov-17	22.16	22.59	0.43	23.08	0.88	
MW-60D	11-Jul-12	NM	NM	NM	23.48	NM	Well inaccessible
MW-60D	23-Oct-12	NM	NM	NM	23.48	NM	Well inaccessible
MW-60D	18-Jan-13	NM	NM	NM	23.48	NM	Well inaccessible
MW-60D	18-Apr-13	NM	NM	NM	23.48	NM	Under vehicle
MW-60D	15-Jul-13	NM	NM	NM	23.48	NM	Under vehicle
MW-60D	28-Oct-13	NM	NM	NM	23.48	NM	Well inaccessible
MW-60D	27-Jan-14	NM	NM	NM	23.48	NM	Well inaccessible
MW-60D	7-Apr-14	NM	NM	NM	23.48	NM	Well inaccessible
MW-60D	18-Jul-14	NM	NM	NM	23.48	NM	Well inaccessible
MW-60D	15-Oct-14	NM	NM	NM	23.48	NM	Well inaccessible
MW-60D	4-Feb-15	NM	NM	NM	23.48	NM	Under vehicle
MW-60D	30-Apr-15	ND	20.44	--	23.48	3.04	
MW-60D	15-Jul-15	ND	20.21	--	23.48	3.27	
MW-60D	13-Oct-15	NM	NM	NM	23.48	NM	Under vehicle
MW-60D	9-Nov-15	22.35	22.80	0.45	23.48	1.09	
MW-60D	4-Feb-16	ND	21.22	--	23.48	2.26	
MW-60D	11-May-16	22.65	22.68	0.03	23.48	0.83	
MW-60D	23-Aug-16	ND	21.29	--	23.48	2.19	
MW-60D	10-Nov-16	ND	21.27	--	23.48	2.21	
MW-60D	24-Feb-17	ND	21.64	--	23.48	1.84	
MW-60D	1-May-17	ND	21.05	--	23.48	2.43	
MW-60D	14-Aug-17	ND	20.55	--	23.48	2.93	
MW-60D	14-Nov-17	ND	20.88	--	23.48	2.60	
MW-61	11-Jul-12	14.00	17.45	3.45	15.36	1.00	
MW-61	23-Oct-12	14.22	16.60	2.38	15.36	0.89	

Table 4
Monitoring Well Gauging Data
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Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-61	18-Jan-13	NM	NM	NM	15.36	NM	Well Inaccessible
MW-61	18-Apr-13	14.80	18.00	3.20	15.36	0.22	
MW-61	15-Jul-13	14.50	17.98	3.48	15.36	0.49	
MW-61	27-Jan-14	NM	NM	NM	15.36	NM	Well inaccessible
MW-61	7-Apr-14	14.60	17.94	3.34	15.36	0.41	
MW-61	18-Jul-14	13.82	17.30	3.48	15.36	1.17	
MW-61	15-Oct-14	14.20	18.00	3.80	15.36	0.76	
MW-61	4-Feb-15	NM	NM	NM	15.36	NM	Unable to locate
MW-61	29-Apr-15	14.09	18.00	3.91	15.36	0.86	
MW-61	14-Jul-15	13.25	17.97	4.72	15.37	1.62	
MW-61	13-Oct-15	NM	NM	NM	15.37	NM	Under vehicle
MW-61	9-Nov-15	14.35	17.95	3.60	15.37	0.64	
MW-61	4-Feb-16	14.52	17.88	3.36	15.37	0.50	
MW-61	11-May-16	14.66	17.99	3.33	15.37	0.36	
MW-61	23-Aug-16	14.64	18.03	3.39	15.37	0.37	
MW-61	10-Nov-16	14.78	16.23	1.45	15.37	0.44	
MW-61	24-Feb-17	15.16	18.02	2.86	15.37	-0.09	
MW-61	1-May-17	14.68	18.05	3.37	15.37	0.34	
MW-61	14-Aug-17	13.96	17.90	3.94	15.37	1.00	
MW-61	14-Nov-17	14.20	18.01	3.81	15.37	0.77	
MW-62	11-Jul-12	ND	7.21	--	13.12	5.91	
MW-62	23-Oct-12	NM	NM	NM	13.12	NM	Well Inaccessible
MW-62	18-Jan-13	ND	7.62	--	13.12	5.50	
MW-62	18-Apr-13	ND	10.65	--	13.12	2.47	
MW-62	15-Jul-13	ND	10.47	--	13.12	2.65	
MW-62	28-Oct-13	ND	13.05	--	13.12	0.07	
MW-62	27-Jan-14	ND	9.67	--	13.12	3.45	
MW-62	7-Apr-14	ND	6.34	--	13.12	6.78	
MW-62	18-Jul-14	ND	8.14	--	13.12	4.98	
MW-62	15-Oct-14	ND	12.33	--	13.12	0.79	
MW-62	4-Feb-15	NM	NM	NM	13.12	NM	Unable to locate
MW-62	29-Apr-15	ND	11.00	--	13.12	2.12	
MW-62	14-Jul-15	ND	8.75	--	13.12	4.37	
MW-62	13-Oct-15	ND	8.11	--	13.12	5.01	
MW-62	10-Nov-15	ND	11.66	--	13.12	1.46	
MW-62	4-Feb-16	ND	6.57	--	13.12	6.55	
MW-62	11-May-16	ND	9.87	--	13.12	3.25	
MW-62	23-Aug-16	ND	10.60	--	13.12	2.52	
MW-62	10-Nov-16	ND	7.17	--	13.12	5.95	
MW-62	24-Feb-17	ND	8.87	--	13.12	4.25	
MW-62	2-May-17	ND	6.31	--	13.12	6.81	
MW-62	14-Aug-17	ND	7.97	--	13.12	5.15	
MW-62	14-Nov-17	ND	7.71	--	13.12	5.41	
MW-63	11-Jul-12	21.95	22.10	0.15	23.55	1.59	
MW-63	23-Oct-12	ND	22.21	--	23.55	1.34	
MW-63	18-Jan-13	ND	23.00	--	23.55	0.55	
MW-63	18-Apr-13	ND	22.92	--	23.55	0.63	
MW-63	15-Jul-13	ND	22.61	--	23.55	0.94	
MW-63	28-Oct-13	ND	23.04	--	23.55	0.51	
MW-63	27-Jan-14	ND	22.87	--	23.55	0.68	

Table 4
Monitoring Well Gauging Data
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MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-63	7-Apr-14	ND	22.37	--	23.55	1.18	
MW-63	18-Jul-14	ND	21.63	--	23.55	1.92	
MW-63	15-Oct-14	ND	22.28	--	23.55	1.27	
MW-63	4-Feb-15	ND	22.35	--	23.55	1.20	
MW-63	29-Apr-15	ND	21.75	--	23.55	1.80	
MW-63	14-Jul-15	ND	21.44	--	23.55	2.11	
MW-63	13-Oct-15	ND	21.88	--	23.55	1.67	
MW-63	10-Nov-15	ND	22.31	--	23.55	1.24	
MW-63	4-Feb-16	NM	NM	NM	23.55	NM	Covered by debris
MW-63	11-May-16	ND	22.41	--	23.55	1.14	
MW-63	23-Aug-16	ND	22.43	--	23.55	1.12	
MW-63	10-Nov-16	ND	22.52	--	23.55	1.03	
MW-63	24-Feb-17	NM	NM	NM	23.55	NM	Covered by lumber
MW-63	1-May-17	ND	22.15	--	23.55	1.40	
MW-63	14-Aug-17	ND	21.78	--	23.55	1.77	
MW-63	14-Nov-17	ND	22.05	--	23.55	1.50	
MW-64	11-Jul-12	14.90	18.55	3.65	15.40	0.15	
MW-64	23-Oct-12	14.90	23.24	8.34	15.40	-0.29	
MW-64	18-Jan-13	15.55	23.30	7.75	15.40	-0.89	
MW-64	18-Apr-13	15.70	23.00	7.30	15.40	-0.99	
MW-64	15-Jul-13	15.19	23.20	8.01	15.40	-0.55	
MW-64	28-Oct-13	15.55	23.08	7.53	15.40	-0.87	
MW-64	27-Jan-14	NM	NM	NM	15.40	NM	Well flooded
MW-64	7-Apr-14	15.35	23.54	8.19	15.40	-0.73	
MW-64	18-Jul-14	14.80	22.00	7.20	15.40	-0.08	
MW-64	15-Oct-14	14.95	23.32	8.37	15.40	-0.35	
MW-64	4-Feb-15	15.08	23.30	8.22	15.40	-0.46	
MW-64	29-Apr-15	14.80	23.42	8.62	15.40	-0.22	
MW-64	14-Jul-15	13.71	23.21	9.50	15.40	0.79	
MW-64	13-Oct-15	NM	NM	NM	15.40	NM	Overhead hazard
MW-64	10-Nov-15	14.51	21.90	7.39	15.40	0.19	
MW-64	4-Feb-16	14.77	22.43	7.66	15.40	-0.10	
MW-64	11-May-16	15.20	23.33	8.13	15.40	-0.57	
MW-64	23-Aug-16	15.63	23.42	7.79	15.40	-0.97	
MW-64	10-Nov-16	15.13	23.41	8.28	15.40	-0.52	
MW-64	24-Feb-17	15.72	23.36	7.64	15.40	-1.05	
MW-64	1-May-17	15.14	23.30	8.16	15.40	-0.52	
MW-64	14-Aug-17	NM	NM	NM	15.40	NM	Covered by debris
MW-64	14-Nov-17	NM	NM	NM	15.40	NM	Covered by debris
MW-65	11-Jul-12	14.20	24.55	10.35	14.55	-0.66	
MW-65	23-Oct-12	NM	NM	NM	14.55	NM	Well Inaccessible
MW-65	18-Jan-13	NM	NM	NM	14.55	NM	Well Inaccessible
MW-65	18-Apr-13	NM	NM	NM	14.55	NM	Under vehicle
MW-65	15-Jul-13	14.85	24.75	9.90	14.55	-1.26	
MW-65	28-Oct-13	15.06	24.80	9.74	14.55	-1.46	
MW-65	27-Jan-14	NM	NM	NM	14.55	NM	Well inaccessible
MW-65	7-Apr-14	14.57	24.48	9.91	14.55	-0.99	
MW-65	18-Jul-14	14.12	24.80	10.68	14.55	-0.61	
MW-65	15-Oct-14	14.43	23.85	9.42	14.55	-0.80	
MW-65	4-Feb-15	NM	NM	NM	14.55	NM	Under pallet

Table 4
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MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-65	29-Apr-15	14.20	23.87	9.67	14.55	-0.59	
MW-65	14-Jul-15	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	13-Oct-15	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	10-Nov-15	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	4-Feb-16	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	11-May-16	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	23-Aug-16	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	10-Nov-16	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	24-Feb-17	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	1-May-17	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	14-Aug-17	NM	NM	NM	14.55	NM	Overhead hazard
MW-65	14-Nov-17	NM	NM	NM	14.55	NM	Overhead hazard
MW-66	11-Jul-12	NM	NM	NM	22.65	NM	
MW-66	23-Oct-12	20.01	20.78	0.77	22.65	2.57	
MW-66	18-Jan-13	20.45	22.30	1.85	22.65	2.02	
MW-66	18-Apr-13	20.30	22.00	1.70	22.65	2.19	
MW-66	15-Jul-13	NM	NM	NM	22.65	NM	Under vehicle
MW-66	28-Oct-13	20.30	21.88	1.58	22.65	2.20	
MW-66	27-Jan-14	20.80	22.70	1.90	22.65	1.67	
MW-66	7-Apr-14	20.28	22.18	1.90	22.65	2.19	
MW-66	18-Jul-14	19.55	20.90	1.35	22.65	2.97	
MW-66	15-Oct-14	19.92	21.48	1.56	22.65	2.58	
MW-66	4-Feb-15	20.24	21.84	1.60	22.65	2.26	
MW-66	29-Apr-15	19.75	20.70	0.95	22.65	2.81	
MW-66	14-Jul-15	19.57	20.84	1.27	22.65	2.96	
MW-66	13-Oct-15	19.80	21.29	1.49	22.65	2.71	
MW-66	10-Nov-15	20.20	21.85	1.65	22.65	2.29	
MW-66	4-Feb-16	20.58	22.79	2.21	22.65	1.86	
MW-66	11-May-16	20.46	22.08	1.62	22.65	2.04	
MW-66	23-Aug-16	20.58	22.41	1.83	22.65	1.90	
MW-66	10-Nov-16	20.39	21.98	1.59	22.65	2.11	
MW-66	24-Feb-17	20.86	22.55	1.69	22.65	1.63	
MW-66	1-May-17	20.41	21.86	1.45	22.65	2.10	
MW-66	14-Aug-17	NM	NM	NM	22.65	NM	Covered by debris
MW-66	14-Nov-17	21.00	21.65	0.65	22.65	1.59	
MW-67	11-Jul-12	ND	12.99	--	15.60	2.61	
MW-67	23-Oct-12	ND	13.27	--	15.60	2.33	
MW-67	18-Jan-13	ND	13.73	--	15.60	1.87	
MW-67	18-Apr-13	ND	13.54	--	15.60	2.06	
MW-67	15-Jul-13	ND	13.35	--	15.60	2.25	
MW-67	28-Oct-13	13.45	13.85	0.40	15.60	2.11	
MW-67	27-Jan-14	13.90	14.28	0.38	15.60	1.66	
MW-67	7-Apr-14	13.72	13.92	0.20	15.60	1.86	
MW-67	18-Jul-14	12.72	13.70	0.98	15.60	2.79	
MW-67	15-Oct-14	12.98	14.23	1.25	15.60	2.50	
MW-67	4-Feb-15	13.35	14.80	1.45	15.60	2.11	
MW-67	29-Apr-15	12.92	13.31	0.39	15.60	2.64	
MW-67	14-Jul-15	12.64	13.27	0.63	15.60	2.90	
MW-67	13-Oct-15	12.85	13.95	1.10	15.60	2.65	
MW-67	9-Nov-15	13.35	14.53	1.18	15.60	2.14	

Table 4
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MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-67	4-Feb-16	13.47	14.88	1.41	15.60	2.00	
MW-67	11-May-16	13.53	15.08	1.55	15.60	1.92	
MW-67	23-Aug-16	13.66	14.17	0.51	15.60	1.89	
MW-67	10-Nov-16	ND	13.70	--	15.60	1.90	
MW-67	24-Feb-17	14.19	14.20	0.01	15.60	1.41	
MW-67	1-May-17	ND	13.52	--	15.60	2.08	
MW-67	14-Aug-17	13.03	13.22	0.19	15.60	2.55	
MW-67	14-Nov-17	ND	13.32	--	15.60	2.28	
MW-68	11-Jul-12	21.29	21.70	0.41	23.78	2.45	
MW-68	23-Oct-12	21.45	21.93	0.48	23.78	2.28	
MW-68	18-Jan-13	21.80	21.85	0.05	23.78	1.98	
MW-68	18-Apr-13	21.68	22.40	0.72	23.78	2.03	
MW-68	15-Jul-13	21.35	22.29	0.94	23.78	2.34	
MW-68	28-Oct-13	21.70	22.58	0.88	23.78	2.00	
MW-68	27-Jan-14	22.16	23.52	1.36	23.78	1.49	
MW-68	7-Apr-14	21.85	22.96	1.11	23.78	1.82	
MW-68	18-Jul-14	20.96	22.15	1.19	23.78	2.71	
MW-68	15-Oct-14	21.30	22.40	1.10	23.78	2.38	
MW-68	4-Feb-15	NM	NM	NM	23.78	NM	No access
MW-68	29-Apr-15	21.07	21.60	0.53	23.78	2.66	
MW-68	14-Jul-15	NM	NM	NM	23.78	NM	No access
MW-68	13-Oct-15	NM	NM	NM	23.78	NM	No access
MW-68	9-Nov-15	NM	NM	NM	23.78	NM	No access
MW-68	4-Feb-16	NM	NM	NM	23.78	NM	No access
MW-68	11-May-16	NM	NM	NM	23.78	NM	No access
MW-68	23-Aug-16	21.78	22.26	0.48	23.78	1.95	
MW-68	10-Nov-16	21.71	22.72	1.01	23.78	1.97	
MW-68	24-Feb-17	22.03	23.52	1.49	23.78	1.61	
MW-68	1-May-17	21.69	22.84	1.15	23.78	1.98	
MW-68	14-Aug-17	NM	NM	NM	23.78	NM	No access
MW-68	14-Nov-17	NM	NM	NM	23.78	NM	No access
MW-69	23-Oct-12	ND	19.27	--	21.58	2.31	
MW-69	24-Jan-13	ND	19.65	--	21.58	1.93	
MW-69	18-Apr-13	ND	19.62	--	21.58	1.96	
MW-69	15-Jul-13	ND	19.10	--	21.58	2.48	
MW-69	28-Oct-13	ND	19.50	--	21.58	2.08	
MW-69	27-Jan-14	ND	20.00	--	21.58	1.58	
MW-69	7-Apr-14	ND	19.72	--	21.58	1.86	
MW-69	18-Jul-14	NM	NM	NM	21.58	NM	Well inaccessible
MW-69	15-Oct-14	ND	19.18	--	21.58	2.40	
MW-69	4-Feb-15	ND	19.44	--	21.58	2.14	
MW-69	29-Apr-15	ND	18.78	--	21.58	2.80	
MW-69	14-Jul-15	ND	18.66	--	21.58	2.92	
MW-69	13-Oct-15	ND	18.90	--	21.58	2.68	
MW-69	9-Nov-15	ND	19.31	--	21.58	2.27	
MW-69	4-Feb-16	ND	19.39	--	21.58	2.19	
MW-69	11-May-16	ND	19.62	--	21.58	1.96	
MW-69	23-Aug-16	ND	19.59	--	21.58	1.99	
MW-69	10-Nov-16	ND	19.37	--	21.58	2.21	
MW-69	24-Feb-17	ND	19.71	--	21.58	1.87	

Table 4
Monitoring Well Gauging Data
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MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
MW-69	1-May-17	ND	19.40	--	21.58	2.18	
MW-69	14-Aug-17	ND	19.13	--	21.58	2.45	
MW-69	14-Nov-17	ND	19.11	--	21.58	2.47	
BW-1	25-Apr-11	ND	8.27	--	6.34	-1.93	
BW-1	22-Jul-11	ND	8.05	--	6.34	-1.71	
BW-1	18-Oct-11	ND	6.96	--	6.34	-0.62	
BW-1	16-Jan-12	ND	8.00	--	6.34	-1.66	
BW-1	12-Apr-12	ND	6.14	--	6.34	0.20	
BW-1	12-Jul-12	ND	4.45	--	6.34	1.89	
BW-1	23-Oct-12	ND	6.52	--	6.34	-0.18	
BW-1	18-Jan-13	ND	5.50	--	6.34	0.84	
BW-1	18-Apr-13	ND	8.20	--	6.34	-1.86	
BW-1	15-Jul-13	ND	7.90	--	6.34	-1.56	
BW-1	28-Oct-13	ND	7.49	--	6.34	-1.15	
BW-1	27-Jan-14	NM	NM	NM	6.34	NM	Well inaccessible
BW-1	7-Apr-14	ND	8.31	--	6.34	-1.97	
BW-1	18-Jul-14	ND	6.60	--	6.34	-0.26	
BW-1	15-Oct-14	ND	6.95	--	6.34	-0.61	
BW-1	4-Feb-15	ND	4.81	--	6.34	1.53	
BW-1	29-Apr-15	ND	7.81	--	6.34	-1.47	
BW-1	14-Jul-15	ND	7.56	--	6.34	-1.22	
BW-1	13-Oct-15	ND	3.64	--	6.34	2.70	
BW-1	10-Nov-15	ND	7.85	--	6.34	-1.51	
BW-1	4-Feb-16	ND	8.34	--	6.34	-2.00	
BW-1	11-May-16	ND	9.03	--	6.34	-2.69	
BW-1	23-Aug-16	ND	8.62	--	6.34	-2.28	
BW-1	10-Nov-16	ND	7.45	--	6.34	-1.11	
BW-1	24-Feb-17	ND	8.13	--	6.34	-1.79	
BW-1	1-May-17	ND	8.37	--	6.34	-2.03	
BW-1	14-Aug-17	ND	8.05	--	6.34	-1.71	
BW-1	14-Nov-17	ND	7.57	--	6.34	-1.23	
BW-2	25-Apr-11	ND	7.94	--	5.69	-2.25	
BW-2	22-Jul-11	ND	7.36	--	5.69	-1.67	
BW-2	18-Oct-11	ND	9.09	--	5.69	-3.40	
BW-2	16-Jan-12	ND	7.80	--	5.69	-2.11	
BW-2	12-Apr-12	ND	5.62	--	5.69	0.07	
BW-2	12-Jul-12	ND	3.78	--	5.69	1.91	
BW-2	23-Oct-12	ND	6.69	--	5.69	-1.00	
BW-2	18-Jan-13	ND	5.60	--	5.69	0.09	
BW-2	18-Apr-13	ND	7.50	--	5.69	-1.81	
BW-2	15-Jul-13	ND	8.40	--	5.69	-2.71	
BW-2	28-Oct-13	ND	6.84	--	5.69	-1.15	
BW-2	27-Jan-14	NM	NM	NM	5.69	NM	Well inaccessible
BW-2	7-Apr-14	NM	NM	NM	5.69	NM	Well inaccessible
BW-2	18-Jul-14	ND	5.82	--	5.69	-0.13	
BW-2	15-Oct-14	ND	6.35	--	5.69	-0.66	
BW-2	4-Feb-15	ND	4.06	--	5.69	1.63	
BW-2	29-Apr-15	ND	7.22	--	5.69	-1.53	
BW-2	14-Jul-15	ND	6.51	--	5.69	-0.82	
BW-2	13-Oct-15	ND	2.92	--	5.69	2.77	

Table 4
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MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
BW-2	10-Nov-15	ND	6.97	--	5.69	-1.28	
BW-2	4-Feb-16	ND	7.58	--	5.69	-1.89	
BW-2	11-May-16	ND	8.28	--	5.69	-2.59	
BW-2	23-Aug-16	ND	7.79	--	5.69	-2.10	
BW-2	10-Nov-16	ND	6.70	--	5.69	-1.01	
BW-2	24-Feb-17	ND	7.44	--	5.69	-1.75	
BW-2	1-May-17	ND	7.41	--	5.69	-1.72	
BW-2	14-Aug-17	ND	7.14	--	5.69	-1.45	
BW-2	14-Nov-17	ND	6.73	--	5.69	-1.04	
BW-3	25-Apr-11	ND	7.84	--	6.02	-1.82	
BW-3	22-Jul-11	ND	7.77	--	6.02	-1.75	
BW-3	18-Oct-11	ND	6.60	--	6.02	-0.58	
BW-3	16-Jan-12	ND	7.80	--	6.02	-1.78	
BW-3	12-Apr-12	ND	5.14	--	6.02	0.88	
BW-3	12-Jul-12	ND	4.10	--	6.02	1.92	
BW-3	23-Oct-12	ND	6.42	--	6.02	-0.40	
BW-3	18-Jan-13	ND	6.04	--	6.02	-0.02	
BW-3	18-Apr-13	ND	7.83	--	6.02	-1.81	
BW-3	15-Jul-13	ND	7.50	--	6.02	-1.48	
BW-3	28-Oct-13	ND	7.27	--	6.02	-1.25	
BW-3	27-Jan-14	NM	NM	NM	6.02	NM	Well inaccessible
BW-3	7-Apr-14	ND	7.95	--	6.02	-1.93	
BW-3	18-Jul-14	ND	6.00	--	6.02	0.02	
BW-3	15-Oct-14	ND	6.97	--	6.02	-0.95	
BW-3	4-Feb-15	ND	4.50	--	6.02	1.52	
BW-3	29-Apr-15	ND	7.52	--	6.02	-1.50	
BW-3	14-Jul-15	ND	7.13	--	6.02	-1.11	
BW-3	13-Oct-15	ND	3.20	--	6.02	2.82	
BW-3	10-Nov-15	ND	7.10	--	6.02	-1.08	
BW-3	4-Feb-16	ND	7.90	--	6.02	-1.88	
BW-3	11-May-16	ND	8.45	--	6.02	-2.43	
BW-3	23-Aug-16	ND	7.82	--	6.02	-1.80	
BW-3	10-Nov-16	ND	6.88	--	6.02	-0.86	
BW-3	24-Feb-17	ND	7.34	--	6.02	-1.32	
BW-3	1-May-17	ND	7.62	--	6.02	-1.60	
BW-3	14-Aug-17	ND	7.47	--	6.02	-1.45	
BW-3	14-Nov-17	ND	6.97	--	6.02	-0.95	
BW-4	25-Apr-11	ND	7.77	--	5.94	-1.83	
BW-4	22-Jul-11	ND	7.63	--	5.94	-1.69	
BW-4	18-Oct-11	ND	6.30	--	5.94	-0.36	
BW-4	16-Jan-12	ND	7.61	--	5.94	-1.67	
BW-4	12-Apr-12	ND	6.11	--	5.94	-0.17	
BW-4	12-Jul-12	ND	3.86	--	5.94	2.08	
BW-4	23-Oct-12	ND	6.40	--	5.94	-0.46	
BW-4	18-Jan-13	ND	5.77	--	5.94	0.17	
BW-4	18-Apr-13	ND	7.54	--	5.94	-1.60	
BW-4	15-Jul-13	ND	7.21	--	5.94	-1.27	
BW-4	28-Oct-13	ND	7.00	--	5.94	-1.06	
BW-4	27-Jan-14	NM	NM	NM	5.94	NM	Well inaccessible
BW-4	7-Apr-14	ND	7.55	--	5.94	-1.61	

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BW-4	18-Jul-14	ND	5.62	--	5.94	0.32	
BW-4	15-Oct-14	ND	6.78	--	5.94	-0.84	
BW-4	4-Feb-15	ND	4.15	--	5.94	1.79	
BW-4	29-Apr-15	ND	7.20	--	5.94	-1.26	
BW-4	14-Jul-15	ND	6.70	--	5.94	-0.76	
BW-4	13-Oct-15	ND	2.80	--	5.94	3.14	
BW-4	10-Nov-15	ND	6.70	--	5.94	-0.76	
BW-4	4-Feb-16	ND	7.44	--	5.94	-1.50	
BW-4	11-May-16	ND	8.08	--	5.94	-2.14	
BW-4	23-Aug-16	ND	7.35	--	5.94	-1.41	
BW-4	10-Nov-16	ND	6.51	--	5.94	-0.57	
BW-4	24-Feb-17	ND	7.34	--	5.94	-1.40	
BW-4	1-May-17	ND	7.15	--	5.94	-1.21	
BW-4	14-Aug-17	ND	4.45	--	5.94	1.49	
BW-4	14-Nov-17	ND	6.58	--	5.94	-0.64	
BW-5	25-Apr-11	ND	7.80	--	6.04	-1.76	
BW-5	22-Jul-11	ND	7.75	--	6.04	-1.71	
BW-5	18-Oct-11	ND	6.47	--	6.04	-0.43	
BW-5	16-Jan-12	ND	7.55	--	6.04	-1.51	
BW-5	12-Apr-12	ND	6.24	--	6.04	-0.20	
BW-5	12-Jul-12	ND	4.09	--	6.04	1.95	
BW-5	23-Oct-12	ND	6.50	--	6.04	-0.46	
BW-5	18-Jan-13	ND	6.08	--	6.04	-0.04	
BW-5	18-Apr-13	ND	7.72	--	6.04	-1.68	
BW-5	15-Jul-13	ND	7.37	--	6.04	-1.33	
BW-5	28-Oct-13	ND	7.38	--	6.04	-1.34	
BW-5	27-Jan-14	NM	NM	NM	6.04	NM	Well inaccessible
BW-5	7-Apr-14	ND	7.75	--	6.04	-1.71	
BW-5	18-Jul-14	ND	6.14	--	6.04	-0.10	
BW-5	15-Oct-14	ND	7.18	--	6.04	-1.14	
BW-5	4-Feb-15	ND	4.55	--	6.04	1.49	
BW-5	29-Apr-15	ND	7.46	--	6.04	-1.42	
BW-5	14-Jul-15	ND	6.95	--	6.04	-0.91	
BW-5	13-Oct-15	ND	3.20	--	6.04	2.84	
BW-5	10-Nov-15	ND	6.98	--	6.04	-0.94	
BW-5	4-Feb-16	ND	7.69	--	6.04	-1.65	
BW-5	11-May-16	ND	8.13	--	6.04	-2.09	
BW-5	23-Aug-16	ND	7.51	--	6.04	-1.47	
BW-5	10-Nov-16	ND	6.83	--	6.04	-0.79	
BW-5	24-Feb-17	ND	7.34	--	6.04	-1.30	
BW-5	1-May-17	ND	7.26	--	6.04	-1.22	
BW-5	14-Aug-17	ND	7.32	--	6.04	-1.28	
BW-5	14-Nov-17	ND	6.80	--	6.04	-0.76	
BW-6	25-Apr-11	ND	7.70	--	5.94	-1.76	
BW-6	22-Jul-11	ND	7.65	--	5.94	-1.71	
BW-6	18-Oct-11	ND	6.46	--	5.94	-0.52	
BW-6	16-Jan-12	ND	7.62	--	5.94	-1.68	
BW-6	12-Apr-12	ND	6.04	--	5.94	-0.10	
BW-6	12-Jul-12	ND	3.88	--	5.94	2.06	
BW-6	23-Oct-12	ND	6.62	--	5.94	-0.68	

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BW-6	18-Jan-13	ND	5.97	--	5.94	-0.03	
BW-6	18-Apr-13	ND	7.56	--	5.94	-1.62	
BW-6	15-Jul-13	ND	7.15	--	5.94	-1.21	
BW-6	28-Oct-13	ND	7.13	--	5.94	-1.19	
BW-6	27-Jan-14	NM	NM	NM	5.94	NM	Well inaccessible
BW-6	7-Apr-14	ND	7.54	--	5.94	-1.60	
BW-6	18-Jul-14	ND	5.85	--	5.94	0.09	
BW-6	15-Oct-14	ND	6.88	--	5.94	-0.94	
BW-6	4-Feb-15	NM	NM	NM	5.94	NM	Frozen Jplug
BW-6	29-Apr-15	ND	7.40	--	5.94	-1.46	
BW-6	14-Jul-15	ND	6.72	--	5.94	-0.78	
BW-6	13-Oct-15	ND	2.88	--	5.94	3.06	
BW-6	10-Nov-15	ND	6.76	--	5.94	-0.82	
BW-6	4-Feb-16	ND	7.70	--	5.94	-1.76	
BW-6	11-May-16	ND	8.24	--	5.94	-2.30	
BW-6	23-Aug-16	ND	7.48	--	5.94	-1.54	
BW-6	10-Nov-16	ND	6.59	--	5.94	-0.65	
BW-6	24-Feb-17	ND	7.57	--	5.94	-1.63	
BW-6	1-May-17	ND	7.25	--	5.94	-1.31	
BW-6	14-Aug-17	ND	7.22	--	5.94	-1.28	
BW-6	14-Nov-17	ND	6.60	--	5.94	-0.66	
BW-7	25-Apr-11	ND	7.92	--	6.08	-1.84	
BW-7	22-Jul-11	ND	7.71	--	6.08	-1.63	
BW-7	18-Oct-11	ND	6.47	--	6.08	-0.39	
BW-7	16-Jan-12	ND	7.60	--	6.08	-1.52	
BW-7	12-Apr-12	ND	6.10	--	6.08	-0.02	
BW-7	12-Jul-12	ND	4.85	--	6.08	1.23	
BW-7	23-Oct-12	ND	6.60	--	6.08	-0.52	
BW-7	18-Jan-13	ND	5.96	--	6.08	0.12	
BW-7	18-Apr-13	ND	7.68	--	6.08	-1.60	
BW-7	15-Jul-13	ND	7.30	--	6.08	-1.22	
BW-7	28-Oct-13	ND	7.38	--	6.08	-1.30	
BW-7	27-Jan-14	NM	NM	NM	6.08	NM	Well inaccessible
BW-7	7-Apr-14	ND	7.75	--	6.08	-1.67	
BW-7	18-Jul-14	ND	6.12	--	6.08	-0.04	
BW-7	15-Oct-14	ND	7.10	--	6.08	-1.02	
BW-7	4-Feb-15	ND	4.50	--	6.08	1.58	
BW-7	29-Apr-15	ND	7.46	--	6.08	-1.38	
BW-7	14-Jul-15	ND	6.88	--	6.08	-0.80	
BW-7	13-Oct-15	ND	2.92	--	6.08	3.16	
BW-7	10-Nov-15	ND	6.94	--	6.08	-0.86	
BW-7	4-Feb-16	ND	7.83	--	6.08	-1.75	
BW-7	11-May-16	ND	8.31	--	6.08	-2.23	
BW-7	23-Aug-16	ND	7.61	--	6.08	-1.53	
BW-7	10-Nov-16	ND	6.76	--	6.08	-0.68	
BW-7	24-Feb-17	ND	7.69	--	6.08	-1.61	
BW-7	1-May-17	ND	7.43	--	6.08	-1.35	
BW-7	14-Aug-17	ND	7.33	--	6.08	-1.25	
BW-7	14-Nov-17	ND	6.79	--	6.08	-0.71	
BW-8	25-Apr-11	ND	7.80	--	5.88	-1.92	

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BW-8	22-Jul-11	ND	7.69	--	5.88	-1.81	
BW-8	18-Oct-11	ND	6.55	--	5.88	-0.67	
BW-8	16-Jan-12	ND	7.66	--	5.88	-1.78	
BW-8	12-Apr-12	ND	6.12	--	5.88	-0.24	
BW-8	12-Jul-12	ND	3.85	--	5.88	2.03	
BW-8	23-Oct-12	ND	6.85	--	5.88	-0.97	
BW-8	18-Jan-13	ND	5.50	--	5.88	0.38	
BW-8	18-Apr-13	ND	7.25	--	5.88	-1.37	
BW-8	15-Jul-13	ND	7.12	--	5.88	-1.24	
BW-8	28-Oct-13	ND	7.00	--	5.88	-1.12	
BW-8	27-Jan-14	NM	NM	NM	5.88	NM	Well inaccessible
BW-8	7-Apr-14	ND	7.55	--	5.88	-1.67	
BW-8	18-Jul-14	ND	6.15	--	5.88	-0.27	
BW-8	15-Oct-14	ND	6.75	--	5.88	-0.87	
BW-8	4-Feb-15	ND	4.17	--	5.88	1.71	
BW-8	29-Apr-15	ND	7.16	--	5.88	-1.28	
BW-8	14-Jul-15	ND	7.48	--	5.88	-1.60	
BW-8	13-Oct-15	ND	2.59	--	5.88	3.29	
BW-8	10-Nov-15	ND	6.54	--	5.88	-0.66	
BW-8	4-Feb-16	ND	7.48	--	5.88	-1.60	
BW-8	11-May-16	ND	7.94	--	5.88	-2.06	
BW-8	23-Aug-16	ND	7.22	--	5.88	-1.34	
BW-8	10-Nov-16	ND	6.35	--	5.88	-0.47	
BW-8	24-Feb-17	ND	7.28	--	5.88	-1.40	
BW-8	1-May-17	ND	6.97	--	5.88	-1.09	
BW-8	14-Aug-17	ND	6.91	--	5.88	-1.03	
BW-8	14-Nov-17	ND	6.35	--	5.88	-0.47	
BW-9	25-Apr-11	ND	8.05	--	6.30	-1.75	
BW-9	22-Jul-11	ND	7.91	--	6.30	-1.61	
BW-9	18-Oct-11	ND	6.58	--	6.30	-0.28	
BW-9	16-Jan-12	ND	8.06	--	6.30	-1.76	
BW-9	12-Apr-12	ND	6.26	--	6.30	0.04	
BW-9	12-Jul-12	ND	4.26	--	6.30	2.04	
BW-9	23-Oct-12	ND	7.03	--	6.30	-0.73	
BW-9	18-Jan-13	ND	6.31	--	6.30	-0.01	
BW-9	18-Apr-13	ND	8.80	--	6.30	-2.50	
BW-9	15-Jul-13	ND	7.30	--	6.30	-1.00	
BW-9	28-Oct-13	ND	7.48	--	6.30	-1.18	
BW-9	27-Jan-14	NM	NM	NM	6.30	NM	Well inaccessible
BW-9	7-Apr-14	ND	7.65	--	6.30	-1.35	
BW-9	18-Jul-14	ND	5.85	--	6.30	0.45	
BW-9	15-Oct-14	ND	7.38	--	6.30	-1.08	
BW-9	4-Feb-15	ND	4.69	--	6.30	1.61	
BW-9	29-Apr-15	ND	7.64	--	6.30	-1.34	
BW-9	14-Jul-15	ND	6.68	--	6.30	-0.38	
BW-9	13-Oct-15	ND	3.15	--	6.30	3.15	
BW-9	10-Nov-15	ND	7.11	--	6.30	-0.81	
BW-9	4-Feb-16	ND	7.90	--	6.30	-1.60	
BW-9	11-May-16	ND	8.58	--	6.30	-2.28	
BW-9	23-Aug-16	ND	7.75	--	6.30	-1.45	
BW-9	10-Nov-16	ND	6.91	--	6.30	-0.61	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
BW-9	24-Feb-17	ND	7.81	--	6.30	-1.51	
BW-9	1-May-17	ND	7.60	--	6.30	-1.30	
BW-9	14-Aug-17	ND	7.52	--	6.30	-1.22	
BW-9	14-Nov-17	ND	6.94	--	6.30	-0.64	
BW-10	25-Apr-11	ND	7.95	--	6.13	-1.82	
BW-10	22-Jul-11	ND	7.75	--	6.13	-1.62	
BW-10	18-Oct-11	ND	6.39	--	6.13	-0.26	
BW-10	16-Jan-12	ND	8.04	--	6.13	-1.91	
BW-10	12-Apr-12	ND	6.24	--	6.13	-0.11	
BW-10	12-Jul-12	ND	4.25	--	6.13	1.88	
BW-10	23-Oct-12	ND	7.02	--	6.13	-0.89	
BW-10	18-Jan-13	ND	6.12	--	6.13	0.01	
BW-10	18-Apr-13	ND	7.88	--	6.13	-1.75	
BW-10	15-Jul-13	ND	7.41	--	6.13	-1.28	
BW-10	28-Oct-13	ND	7.53	--	6.13	-1.40	
BW-10	27-Jan-14	NM	NM	NM	6.13	NM	Well inaccessible
BW-10	7-Apr-14	ND	8.05	--	6.13	-1.92	
BW-10	18-Jul-14	ND	6.40	--	6.13	-0.27	
BW-10	15-Oct-14	ND	7.45	--	6.13	-1.32	
BW-10	4-Feb-15	ND	4.81	--	6.13	1.32	
BW-10	29-Apr-15	ND	7.81	--	6.13	-1.68	
BW-10	14-Jul-15	ND	7.22	--	6.13	-1.09	
BW-10	13-Oct-15	ND	3.22	--	6.13	2.91	
BW-10	10-Nov-15	ND	7.41	--	6.13	-1.28	
BW-10	4-Feb-16	ND	8.22	--	6.13	-2.09	
BW-10	11-May-16	ND	8.76	--	6.13	-2.63	
BW-10	23-Aug-16	ND	8.04	--	6.13	-1.91	
BW-10	10-Nov-16	ND	7.19	--	6.13	-1.06	
BW-10	24-Feb-17	ND	8.11	--	6.13	-1.98	
BW-10	1-May-17	ND	7.88	--	6.13	-1.75	
BW-10	14-Aug-17	ND	7.76	--	6.13	-1.63	
BW-10	14-Nov-17	ND	7.30	--	6.13	-1.17	
BW-11	25-Apr-11	ND	8.14	--	6.28	-1.86	
BW-11	22-Jul-11	ND	7.84	--	6.28	-1.56	
BW-11	18-Oct-11	ND	6.41	--	6.28	-0.13	
BW-11	16-Jan-12	ND	8.18	--	6.28	-1.90	
BW-11	12-Apr-12	ND	6.48	--	6.28	-0.20	
BW-11	12-Jul-12	ND	4.25	--	6.28	2.03	
BW-11	23-Oct-12	ND	7.00	--	6.28	-0.72	
BW-11	18-Jan-13	ND	6.40	--	6.28	-0.12	
BW-11	18-Apr-13	ND	8.00	--	6.28	-1.72	
BW-11	15-Jul-13	ND	7.15	--	6.28	-0.87	
BW-11	28-Oct-13	ND	7.75	--	6.28	-1.47	
BW-11	27-Jan-14	NM	NM	NM	6.28	NM	Well inaccessible
BW-11	7-Apr-14	ND	8.18	--	6.28	-1.90	
BW-11	18-Jul-14	ND	6.55	--	6.28	-0.27	
BW-11	15-Oct-14	ND	7.60	--	6.28	-1.32	
BW-11	4-Feb-15	ND	4.91	--	6.28	1.37	
BW-11	29-Apr-15	ND	7.93	--	6.28	-1.65	
BW-11	14-Jul-15	ND	7.42	--	6.28	-1.14	

Table 4
Monitoring Well Gauging Data
ExxonMobil Former Pratt Oil Works
Review Avenue, Long Island City, Queens, New York

MW ID	GAUGING DATE	DEPTH TO LNAPL (feet below measuring point)	DEPTH TO WATER (feet below measuring point)	APPARENT LNAPL THICKNESS (feet)	TOP OF CASING (feet relative to NAVD88)	WATER TABLE ELEVATION (feet relative to NAVD88)	Comments
BW-11	13-Oct-15	ND	3.34	--	6.28	2.94	
BW-11	10-Nov-15	ND	7.56	--	6.28	-1.28	
BW-11	4-Feb-16	ND	8.48	--	6.28	-2.20	
BW-11	11-May-16	ND	8.99	--	6.28	-2.71	
BW-11	23-Aug-16	ND	8.27	--	6.28	-1.99	
BW-11	10-Nov-16	ND	7.37	--	6.28	-1.09	
BW-11	24-Feb-17	ND	8.26	--	6.28	-1.98	
BW-11	1-May-17	ND	8.10	--	6.28	-1.82	
BW-11	14-Aug-17	ND	7.60	--	6.28	-1.32	
BW-11	14-Nov-17	ND	7.53	--	6.28	-1.25	
BW-12	25-Apr-11	ND	8.32	--	6.41	-1.91	
BW-12	22-Jul-11	ND	7.96	--	6.41	-1.55	
BW-12	18-Oct-11	ND	6.30	--	6.41	0.11	
BW-12	16-Jan-12	ND	8.27	--	6.41	-1.86	
BW-12	12-Apr-12	ND	6.59	--	6.41	-0.18	
BW-12	12-Jul-12	ND	4.40	--	6.41	2.01	
BW-12	23-Oct-12	ND	7.24	--	6.41	-0.83	
BW-12	18-Jan-13	ND	6.42	--	6.41	-0.01	
BW-12	18-Apr-13	ND	8.19	--	6.41	-1.78	
BW-12	15-Jul-13	ND	7.38	--	6.41	-0.97	
BW-12	28-Oct-13	ND	7.84	--	6.41	-1.43	
BW-12	27-Jan-14	NM	NM	NM	6.41	NM	Well inaccessible
BW-12	7-Apr-14	ND	8.28	--	6.41	-1.87	
BW-12	18-Jul-14	ND	6.78	--	6.41	-0.37	
BW-12	15-Oct-14	ND	7.66	--	6.41	-1.25	
BW-12	4-Feb-15	ND	5.14	--	6.41	1.27	
BW-12	29-Apr-15	ND	8.06	--	6.41	-1.65	
BW-12	14-Jul-15	ND	7.65	--	6.41	-1.24	
BW-12	13-Oct-15	ND	3.35	--	6.41	3.06	
BW-12	10-Nov-15	ND	7.83	--	6.41	-1.42	
BW-12	4-Feb-16	ND	8.63	--	6.41	-2.22	
BW-12	11-May-16	ND	9.16	--	6.41	-2.75	
BW-12	23-Aug-16	ND	8.50	--	6.41	-2.09	
BW-12	10-Nov-16	ND	8.59	--	6.41	-2.18	
BW-12	24-Feb-17	ND	8.46	--	6.41	-2.05	
BW-12	1-May-17	ND	8.29	--	6.41	-1.88	
BW-12	14-Aug-17	ND	8.18	--	6.41	-1.77	
BW-12	14-Nov-17	ND	7.74	--	6.41	-1.33	

Notes:

ND = Non-detect

NM = Not measured

WM = Waste Management (Parcel A Owner)

LNAPL = Light Non-Aqueous Phase Liquid

1. Top of casing and groundwater elevations are presented in feet as referenced to the North American Datum of 1988 (NAVD88)
2. Water table elevations in wells with LNAPL are modified according to the following formula:
   (top of casing elevation - depth to water) + (specific gravity * LNAPL thickness).
3. Monitoring Wells located within Parcel A were resurveyed on September 9 and 30, 2015 due to regrading of the Parcel.
   Top of casing elevation for each Parcel A monitoring well was modified based on approximate timeframe of regrading for that well.

Table 5. Summary of Volatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

				Sample Designation:	MW-1	MW-4D	MW-8	MW-10	MW-11R
				Sample Date:	11/16/2017	11/16/2017	11/15/2017	11/13/2017	11/15/2017
				Normal or Field Duplicate:	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units						
1,1,1-Trichloroethane	5	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	5	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	µg/L		2 U	2 U	2 U	2 U	2 U
1,1,2-Trichloroethane	1	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	5	--	µg/L		3	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	5	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	5	--	µg/L		1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	--	µg/L		1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	--	µg/L		2 U	2 U	2 U	2 U	2 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	3	--	µg/L		1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	3	--	µg/L		1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	--	µg/L		1 U	1 U	1 U	1 U	1 U
2-Hexanone	--	50	µg/L		3 U	3 U	3 U	3 U	3 U
Acetone	--	50	µg/L		6 U	6 U	6 U	6 U	6 U
Benzene	1	--	µg/L		**2**	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	5	--	µg/L		1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	--	50	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	--	50	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	5	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	--	60	µg/L		1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	5	--	µg/L		0.7 J	**70**	0.5 U	0.5 U	0.5 U
Chloroform	7	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	--	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,2-Dichloroethylene	5	--	µg/L		2	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,3-Dichloropropene	--	5	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	--	--	µg/L		2 U	7	2 U	2 U	2 U
Dibromochloromethane	--	50	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	5	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene (Cumene)	5	--	µg/L		1 U	3 J	1 U	1 U	1 U

Table 5. Summary of Volatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-1	MW-4D	MW-8	MW-10	MW-11R
			Sample Date:	11/16/2017	11/16/2017	11/15/2017	11/13/2017	11/15/2017
			Normal or Field Duplicate:	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units					
m,p-Xylene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Acetate	--	--	µg/L	1 U	1 U	1 U	1 U	1 U
Methyl Ethyl Ketone (2-Butanone)	--	50	µg/L	3 U	3 U	3 U	3 U	3 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	µg/L	3 U	3 J	3 U	3 U	3 U
Methylcyclohexane	--	--	µg/L	1 U	11	1 U	1 U	1 U
Methylene Chloride	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
O-Xylene (1,2-Dimethylbenzene)	5	--	µg/L	0.5 U	0.5 J	0.5 U	0.5 U	0.5 U
Styrene	5	--	µg/L	1 U	1 U	1 U	1 U	1 U
Tert-Butyl Methyl Ether	--	10	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethylene (PCE)	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethylene (TCE)	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	2	--	µg/L	2	0.5 U	0.5 U	0.5 U	0.5 U
Xylenes	5	--	µg/L	0.5 U	0.5 J	0.5 U	0.5 U	0.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
N - Normal sample
FD - Duplicate sample
FB - Field blank
TB - Trip blank
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs
NA - Compound was not analyzed by laboratory

Table 5. Summary of Volatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units	MW-13	MW-15	MW-20	MW-21	MW-28
Sample Designation:				MW-13	MW-15	MW-20	MW-21	MW-28
Sample Date:				11/13/2017	11/16/2017	11/15/2017	11/15/2017	11/17/2017
Normal or Field Duplicate:				N	N	N	N	N
1,1,1-Trichloroethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
1,1,2,2-Tetrachloroethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	µg/L	2 U	2 U	2 U	2 U	20 U
1,1,2-Trichloroethane	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
1,1-Dichloroethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
1,1-Dichloroethene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
1,2,3-Trichlorobenzene	5	--	µg/L	1 U	1 U	1 U	1 U	10 U
1,2,4-Trichlorobenzene	5	--	µg/L	1 U	1 U	1 U	1 U	10 U
1,2-Dibromo-3-Chloropropane	0.04	--	µg/L	2 U	2 U	2 U	2 U	20 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
1,2-Dichlorobenzene	3	--	µg/L	1 U	1 U	1 U	1 U	10 U
1,2-Dichloroethane	0.6	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
1,2-Dichloropropane	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
1,3-Dichlorobenzene	3	--	µg/L	1 U	1 U	1 U	1 U	10 U
1,4-Dichlorobenzene	3	--	µg/L	1 U	1 U	1 U	1 U	10 U
2-Hexanone	--	50	µg/L	3 U	3 U	3 U	3 U	30 U
Acetone	--	50	µg/L	6 U	6 U	6 U	6 U	60 U
Benzene	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	**7 J**
Bromochloromethane	5	--	µg/L	1 U	1 U	1 U	1 U	10 U
Bromodichloromethane	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Bromoform	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Bromomethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Carbon Disulfide	--	60	µg/L	1 U	1 U	1 U	1 U	10 U
Carbon Tetrachloride	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Chlorobenzene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Chloroethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	**30**
Chloroform	7	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Chloromethane	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Cis-1,2-Dichloroethylene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Cis-1,3-Dichloropropene	--	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Cyclohexane	--	--	µg/L	2 U	2 U	2 U	2 U	20 U
Dibromochloromethane	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Dichlorodifluoromethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Ethylbenzene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Isopropylbenzene (Cumene)	5	--	µg/L	1 U	1 U	1 U	1 U	10 U

Table 5. Summary of Volatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-13	MW-15	MW-20	MW-21	MW-28
			Sample Date:	11/13/2017	11/16/2017	11/15/2017	11/15/2017	11/17/2017
			Normal or Field Duplicate:	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units					
m,p-Xylene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Methyl Acetate	--	--	µg/L	1 U	1 U	1 U	1 U	10 U
Methyl Ethyl Ketone (2-Butanone)	--	50	µg/L	3 U	3 U	3 U	3 U	30 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	µg/L	3 U	3 U	3 U	3 U	30 U
Methylcyclohexane	--	--	µg/L	1 U	1 U	1 U	1 U	16 J
Methylene Chloride	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
O-Xylene (1,2-Dimethylbenzene)	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Styrene	5	--	µg/L	1 U	1 U	1 U	1 U	10 U
Tert-Butyl Methyl Ether	--	10	µg/L	0.5 U	0.7 J	0.5 U	0.5 U	5 U
Tetrachloroethylene (PCE)	5	--	µg/L	0.5 U	0.5 U	0.5 U	4	5 U
Toluene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Trans-1,2-Dichloroethene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Trans-1,3-Dichloropropene	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Trichloroethylene (TCE)	5	--	µg/L	0.5 U	0.5 U	0.5 U	2	5 U
Trichlorofluoromethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Vinyl Chloride	2	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Xylenes	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
N - Normal sample
FD - Duplicate sample
FB - Field blank
TB - Trip blank
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs
NA - Compound was not analyzed by laboratory

Table 5. Summary of Volatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units	Sample Designation: MW-28D Sample Date: 11/17/2017 Normal or Field Duplicate: N	MW-29 11/13/2017 N	MW-29 11/13/2017 FD	MW-31 11/13/2017 N	MW-37 11/16/2017 N
1,1,1-Trichloroethane	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
1,1,2,2-Tetrachloroethane	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	µg/L	20 U	2 U	2 U	2 U	20 U
1,1,2-Trichloroethane	1	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
1,1-Dichloroethane	5	--	µg/L	5 J	0.5 U	0.5 U	0.5 U	5 U
1,1-Dichloroethene	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
1,2,3-Trichlorobenzene	5	--	µg/L	10 U	1 U	1 U	1 U	10 U
1,2,4-Trichlorobenzene	5	--	µg/L	10 U	1 U	1 U	1 U	10 U
1,2-Dibromo-3-Chloropropane	0.04	--	µg/L	20 U	2 U	2 U	2 U	20 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
1,2-Dichlorobenzene	3	--	µg/L	10 U	1 U	1 U	1 U	10 U
1,2-Dichloroethane	0.6	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
1,2-Dichloropropane	1	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
1,3-Dichlorobenzene	3	--	µg/L	10 U	1 U	1 U	1 U	10 U
1,4-Dichlorobenzene	3	--	µg/L	10 U	1 U	1 U	1 U	10 U
2-Hexanone	--	50	µg/L	30 U	3 U	3 U	3 U	30 U
Acetone	--	50	µg/L	60 U	6 U	6 U	6 U	60 U
Benzene	1	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	**27**
Bromochloromethane	5	--	µg/L	10 U	1 U	1 U	1 U	10 U
Bromodichloromethane	--	50	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
Bromoform	--	50	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
Bromomethane	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
Carbon Disulfide	--	60	µg/L	10 U	1 U	1 U	1 U	10 U
Carbon Tetrachloride	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
Chlorobenzene	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	**7 J**
Chloroethane	5	--	µg/L	5 U	2	2	0.5 U	**18**
Chloroform	7	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
Chloromethane	--	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
Cis-1,2-Dichloroethylene	5	--	µg/L	**9 J**	0.5 U	0.5 U	0.5 U	5 U
Cis-1,3-Dichloropropene	--	5	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
Cyclohexane	--	--	µg/L	20 U	2 U	2 U	2 U	20 U
Dibromochloromethane	--	50	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
Dichlorodifluoromethane	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
Ethylbenzene	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
Isopropylbenzene (Cumene)	5	--	µg/L	10 U	1 U	1 U	1 U	10 U

Table 5. Summary of Volatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-28D	MW-29	MW-29	MW-31	MW-37
			Sample Date:	11/17/2017	11/13/2017	11/13/2017	11/13/2017	11/16/2017
			Normal or Field Duplicate:	N	N	FD	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units					
m,p-Xylene	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
Methyl Acetate	--	--	µg/L	10 U	1 U	1 U	1 U	10 U
Methyl Ethyl Ketone (2-Butanone)	--	50	µg/L	30 U	3 U	3 U	3 U	30 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	µg/L	30 U	3 U	3 U	3 U	30 U
Methylcyclohexane	--	--	µg/L	10 U	1 U	1 U	1 U	10 U
Methylene Chloride	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
O-Xylene (1,2-Dimethylbenzene)	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
Styrene	5	--	µg/L	10 U	1 U	1 U	1 U	10 U
Tert-Butyl Methyl Ether	--	10	µg/L	5 U	0.6 J	0.6 J	0.5 U	5 U
Tetrachloroethylene (PCE)	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
Toluene	5	--	µg/L	5 U	2	2	0.5 U	5 U
Trans-1,2-Dichloroethene	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
Trans-1,3-Dichloropropene	--	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
Trichloroethylene (TCE)	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
Trichlorofluoromethane	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U
Vinyl Chloride	2	--	µg/L	**6 J**	0.5 U	0.5 U	0.5 U	5 U
Xylenes	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U	5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
N - Normal sample
FD - Duplicate sample
FB - Field blank
TB - Trip blank
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs
NA - Compound was not analyzed by laboratory

Table 5. Summary of Volatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

				Sample Designation:	MW-37	MW-46	MW-49D	MW-52
				Sample Date:	11/16/2017	11/15/2017	11/13/2017	11/13/2017
				Normal or Field Duplicate:	FD	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units					
1,1,1-Trichloroethane	5	--	µg/L		5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	5	--	µg/L		5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	µg/L		20 U	2 U	2 U	2 U
1,1,2-Trichloroethane	1	--	µg/L		5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	5	--	µg/L		5 U	0.8 J	0.5 U	0.5 U
1,1-Dichloroethene	5	--	µg/L		5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	5	--	µg/L		10 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	--	µg/L		10 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	--	µg/L		20 U	2 U	2 U	2 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	µg/L		5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	3	--	µg/L		10 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	--	µg/L		5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	--	µg/L		5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	3	--	µg/L		10 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	--	µg/L		10 U	1 U	1 U	1 U
2-Hexanone	--	50	µg/L		30 U	3 U	3 U	3 U
Acetone	--	50	µg/L		60 U	6 U	6 U	6 U
Benzene	1	--	µg/L		**27**	0.5 U	0.5 U	0.5 U
Bromochloromethane	5	--	µg/L		10 U	1 U	1 U	1 U
Bromodichloromethane	--	50	µg/L		5 U	0.5 U	0.5 U	0.5 U
Bromoform	--	50	µg/L		5 U	0.5 U	0.5 U	0.5 U
Bromomethane	5	--	µg/L		5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	--	60	µg/L		10 U	1 U	1 U	1 U
Carbon Tetrachloride	5	--	µg/L		5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	--	µg/L		**6 J**	0.5 U	0.5 U	0.5 U
Chloroethane	5	--	µg/L		**20**	0.5 U	0.5 U	0.5 U
Chloroform	7	--	µg/L		5 U	0.8 J	0.5 U	0.5 U
Chloromethane	--	--	µg/L		5 U	0.5 U	0.5 U	0.5 U
Cis-1,2-Dichloroethylene	5	--	µg/L		5 U	5	0.5 U	0.5 U
Cis-1,3-Dichloropropene	--	5	µg/L		5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	--	--	µg/L		20 U	2 U	4 J	2 U
Dibromochloromethane	--	50	µg/L		5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	--	µg/L		5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	5	--	µg/L		5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene (Cumene)	5	--	µg/L		10 U	1 U	1 J	1 U

Table 5. Summary of Volatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-37	MW-46	MW-49D	MW-52
			Sample Date:	11/16/2017	11/15/2017	11/13/2017	11/13/2017
			Normal or Field Duplicate:	FD	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units				
m,p-Xylene	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U
Methyl Acetate	--	--	µg/L	10 U	1 U	1 U	1 U
Methyl Ethyl Ketone (2-Butanone)	--	50	µg/L	30 U	3 U	3 U	3 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	µg/L	30 U	3 U	3 U	3 U
Methylcyclohexane	--	--	µg/L	10 U	1 U	1 J	1 U
Methylene Chloride	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U
O-Xylene (1,2-Dimethylbenzene)	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U
Styrene	5	--	µg/L	10 U	1 U	1 U	1 U
Tert-Butyl Methyl Ether	--	10	µg/L	5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethylene (PCE)	5	--	µg/L	5 U	0.6 J	0.5 U	0.5 U
Toluene	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	--	--	µg/L	5 U	0.5 U	0.5 U	0.5 U
Trichloroethylene (TCE)	5	--	µg/L	5 U	2	0.5 U	0.5 U
Trichlorofluoromethane	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	2	--	µg/L	5 U	0.5 U	0.5 U	0.5 U
Xylenes	5	--	µg/L	5 U	0.5 U	0.5 U	0.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
N - Normal sample
FD - Duplicate sample
FB - Field blank
TB - Trip blank
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs
NA - Compound was not analyzed by laboratory

Table 5. Summary of Volatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

		Sample Designation:		MW-59	MW-60D	MW-62	MW-69
		Sample Date:		11/15/2017	11/15/2017	11/13/2017	11/16/2017
		Normal or Field Duplicate:		N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units				
1,1,1-Trichloroethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	µg/L	2 U	2 U	2 U	2 U
1,1,2-Trichloroethane	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	5	--	µg/L	0.5 U	0.5 U	0.6 J	0.5 U
1,1-Dichloroethene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	5	--	µg/L	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	--	µg/L	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	--	µg/L	2 U	2 U	2 U	2 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	3	--	µg/L	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	3	--	µg/L	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	--	µg/L	1 U	1 U	1 U	1 U
2-Hexanone	--	50	µg/L	3 U	3 U	3 U	3 U
Acetone	--	50	µg/L	6 U	6 U	6 U	6 U
Benzene	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	5	--	µg/L	1 U	1 U	1 U	1 U
Bromodichloromethane	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	--	60	µg/L	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	7	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,2-Dichloroethylene	5	--	µg/L	0.5 U	0.5 U	1	0.5 U
Cis-1,3-Dichloropropene	--	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	--	--	µg/L	2 U	2 U	2 U	2 U
Dibromochloromethane	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene (Cumene)	5	--	µg/L	1 U	1 U	1 U	1 U

Table 5. Summary of Volatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-59	MW-60D	MW-62	MW-69
			Sample Date:	11/15/2017	11/15/2017	11/13/2017	11/16/2017
			Normal or Field Duplicate:	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units				
m,p-Xylene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Acetate	--	--	µg/L	1 U	1 U	1 U	1 U
Methyl Ethyl Ketone (2-Butanone)	--	50	µg/L	3 U	3 U	3 U	3 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	µg/L	3 U	3 U	3 U	3 U
Methylcyclohexane	--	--	µg/L	1 U	1 U	1 U	1 U
Methylene Chloride	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
O-Xylene (1,2-Dimethylbenzene)	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	5	--	µg/L	1 U	1 U	1 U	1 U
Tert-Butyl Methyl Ether	--	10	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethylene (PCE)	5	--	µg/L	0.5 U	0.5 U	2	0.5 U
Toluene	5	--	µg/L	0.5 U	0.5 U	1	0.5 U
Trans-1,2-Dichloroethene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethylene (TCE)	5	--	µg/L	0.5 U	0.5 U	1	0.5 U
Trichlorofluoromethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	2	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Xylenes	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
N - Normal sample
FD - Duplicate sample
FB - Field blank
TB - Trip blank
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs
NA - Compound was not analyzed by laboratory

Table 5. Summary of Volatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

		Sample Designation:		Field Blank	Field Blank	TB17311	TB17311_2
		Sample Date:		11/13/2017	11/16/2017	11/08/2017	11/08/2017
		Normal or Field Duplicate:		FB	FB	TB	TB
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units				
1,1,1-Trichloroethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	µg/L	2 U	2 U	2 U	2 U
1,1,2-Trichloroethane	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	5	--	µg/L	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	--	µg/L	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	--	µg/L	2 U	2 U	2 U	2 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	3	--	µg/L	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	3	--	µg/L	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	--	µg/L	1 U	1 U	1 U	1 U
2-Hexanone	--	50	µg/L	3 U	3 U	3 U	3 U
Acetone	--	50	µg/L	6 U	6 U	6 U	6 U
Benzene	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	5	--	µg/L	1 U	1 U	1 U	1 U
Bromodichloromethane	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	--	60	µg/L	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	7	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,2-Dichloroethylene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,3-Dichloropropene	--	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	--	--	µg/L	2 U	2 U	2 U	2 U
Dibromochloromethane	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene (Cumene)	5	--	µg/L	1 U	1 U	1 U	1 U

Table 5. Summary of Volatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	Field Blank	Field Blank	TB17311	TB17311_2
			Sample Date:	11/13/2017	11/16/2017	11/08/2017	11/08/2017
			Normal or Field Duplicate:	FB	FB	TB	TB
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units				
m,p-Xylene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Acetate	--	--	µg/L	1 U	1 U	1 U	1 U
Methyl Ethyl Ketone (2-Butanone)	--	50	µg/L	3 U	3 U	3 U	3 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	µg/L	3 U	3 U	3 U	3 U
Methylcyclohexane	--	--	µg/L	1 U	1 U	1 U	1 U
Methylene Chloride	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
O-Xylene (1,2-Dimethylbenzene)	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	5	--	µg/L	1 U	1 U	1 U	1 U
Tert-Butyl Methyl Ether	--	10	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethylene (PCE)	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethylene (TCE)	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	2	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Xylenes	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
N - Normal sample
FD - Duplicate sample
FB - Field blank
TB - Trip blank
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs
NA - Compound was not analyzed by laboratory

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-1	MW-4D	MW-8	MW-10	MW-11R
			Sample Date:	11/16/2017	11/16/2017	11/15/2017	11/13/2017	11/15/2017
			Normal or Field Duplicate:	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units					
1,2,4,5-Tetrachlorobenzene	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dioxane (P-Dioxane)	--	--	µg/L	1 U	1 U	1 U	1 U	1 U
2,2-Oxybis(2-Chloropropane)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,3,4,6-Tetrachlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,5-Trichlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,6-Trichlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dichlorophenol	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dimethylphenol	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dinitrophenol	--	10	µg/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	5	--	µg/L	1 U	1 U	1 U	1 U	1 U
2,6-Dinitrotoluene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chloronaphthalene	--	10	µg/L	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Methylnaphthalene	--	--	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
2-Methylphenol (O-Cresol)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitroaniline	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitrophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
3,3'-Dichlorobenzidine	5	--	µg/L	2 U	2 U	2 U	2 U	2 U
3-Nitroaniline	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4,6-Dinitro-2-Methylphenol	--	--	µg/L	5 U	5 U	5 U	5 U	5 U
4-Bromophenyl Phenyl Ether	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chloro-3-Methylphenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chloroaniline	5	--	µg/L	2 U	2 U	2 U	2 U	2 U
4-Chlorophenyl Phenyl Ether	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methylphenol (P-Cresol)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Nitroaniline	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Nitrophenol	--	--	µg/L	10 U	10 U	10 U	10 U	10 U
Acenaphthene	--	20	µg/L	0.3 J	0.3 J	0.1 U	0.1 U	0.1 U
Acenaphthylene	--	20	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Acetophenone	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Anthracene	--	50	µg/L	0.2 J	0.2 J	0.1 U	0.1 U	0.1 U

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

				Sample Designation:	MW-1	MW-4D	MW-8	MW-10	MW-11R
				Sample Date:	11/16/2017	11/16/2017	11/15/2017	11/13/2017	11/15/2017
				Normal or Field Duplicate:	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units						
Atrazine	--	--	µg/L		2 U	2 U	2 U	2 U	2 U
Benzaldehyde	--	--	µg/L		1 U	1 U	1 U	1 U	1 U
Benzo(A)Anthracene	--	0.002	µg/L		0.1 U	**0.1 J**	0.1 U	0.1 U	0.1 U
Benzo(A)Pyrene	0	--	µg/L		0.1 U	**0.2 J**	0.1 U	0.1 U	0.1 U
Benzo(B)Fluoranthene	--	0.002	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(G,H,I)Perylene	--	--	µg/L		0.1 U	0.1 J	0.1 U	0.1 U	0.1 U
Benzo(K)Fluoranthene	--	0.002	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzyl Butyl Phthalate	--	50	µg/L		2 U	2 U	2 U	2 U	2 U
Biphenyl (Diphenyl)	--	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Chloroethoxy) Methane	5	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Ethylhexyl) Phthalate	5	--	µg/L		2 U	2 U	2 U	2 U	2 U
Caprolactam	--	--	µg/L		5 U	5 U	5 U	5 U	5 U
Carbazole	--	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chrysene	--	0.002	µg/L		**0.3 J**	**0.2 J**	0.1 U	0.1 U	0.1 U
Dibenz(A,H)Anthracene	--	--	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibenzofuran	--	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Diethyl Phthalate	--	50	µg/L		2 U	2 U	2 U	2 U	2 U
Dimethyl Phthalate	--	50	µg/L		2 U	2 U	2 U	2 U	2 U
Di-N-Butyl Phthalate	50	--	µg/L		2 U	2 U	2 U	2 U	2 U
Di-N-Octylphthalate	--	--	µg/L		2 U	2 U	2 U	2 U	2 U
Fluoranthene	--	50	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Fluorene	--	50	µg/L		0.1 U	0.6	0.1 U	0.1 U	0.1 U
Hexachlorobenzene	0.04	--	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Hexachlorobutadiene	0.5	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	5	--	µg/L		5 U	5 U	5 U	5 U	5 U
Hexachloroethane	5	--	µg/L		1 U	1 U	1 U	1 U	1 U
Indeno(1,2,3-C,D)Pyrene	--	0.002	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Isophorone	--	50	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	--	10	µg/L		0.2 J	0.1 U	0.1 U	0.1 U	0.1 J
Nitrobenzene	0.4	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-1	MW-4D	MW-8	MW-10	MW-11R
			Sample Date:	11/16/2017	11/16/2017	11/15/2017	11/13/2017	11/15/2017
			Normal or Field Duplicate:	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units					
N-Nitrosodi-N-Propylamine	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
N-Nitrosodiphenylamine	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pentachlorophenol	1	--	µg/L	1 U	1 U	1 U	1 U	1 U
Phenanthrene	--	50	µg/L	0.1 U	0.5 J	0.1 U	0.1 U	0.1 U
Phenol	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pyrene	--	50	µg/L	0.2 J	0.2 J	0.1 J	0.2 J	0.3 J

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
N - Normal sample
FD - Duplicate sample
FB - Field blank
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-13	MW-15	MW-20	MW-21	MW-28
			Sample Date:	11/13/2017	11/16/2017	11/15/2017	11/15/2017	11/17/2017
			Normal or Field Duplicate:	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units					
1,2,4,5-Tetrachlorobenzene	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dioxane (P-Dioxane)	--	--	µg/L	1 U	1 U	1 U	1 U	1 U
2,2-Oxybis(2-Chloropropane)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,3,4,6-Tetrachlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,5-Trichlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,6-Trichlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dichlorophenol	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dimethylphenol	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dinitrophenol	--	10	µg/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	5	--	µg/L	1 U	1 U	1 U	1 U	1 U
2,6-Dinitrotoluene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chloronaphthalene	--	10	µg/L	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Methylnaphthalene	--	--	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
2-Methylphenol (O-Cresol)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitroaniline	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitrophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
3,3'-Dichlorobenzidine	5	--	µg/L	2 U	2 U	2 U	2 U	2 U
3-Nitroaniline	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4,6-Dinitro-2-Methylphenol	--	--	µg/L	5 U	5 U	5 U	5 U	5 U
4-Bromophenyl Phenyl Ether	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chloro-3-Methylphenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chloroaniline	5	--	µg/L	2 U	2 U	2 U	2 U	2 U
4-Chlorophenyl Phenyl Ether	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methylphenol (P-Cresol)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Nitroaniline	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Nitrophenol	--	--	µg/L	10 U	10 U	10 U	10 U	10 U
Acenaphthene	--	20	µg/L	0.1 J	0.2 J	0.1 U	0.1 U	1
Acenaphthylene	--	20	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Acetophenone	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Anthracene	--	50	µg/L	0.1 J	0.1 J	0.2 J	0.1 U	0.4 J

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

				Sample Designation:	MW-13	MW-15	MW-20	MW-21	MW-28
				Sample Date:	11/13/2017	11/16/2017	11/15/2017	11/15/2017	11/17/2017
				Normal or Field Duplicate:	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units						
Atrazine	--	--	µg/L		2 U	2 U	2 U	2 U	2 U
Benzaldehyde	--	--	µg/L		1 U	1 U	1 U	1 U	1 U
Benzo(A)Anthracene	--	0.002	µg/L		0.1 U	**0.1 J**	0.1 U	0.1 U	**0.9**
Benzo(A)Pyrene	0	--	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	**1**
Benzo(B)Fluoranthene	--	0.002	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	**0.6**
Benzo(G,H,I)Perylene	--	--	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.6
Benzo(K)Fluoranthene	--	0.002	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	**0.1 J**
Benzyl Butyl Phthalate	--	50	µg/L		2 U	2 U	2 U	2 U	2 U
Biphenyl (Diphenyl)	--	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Chloroethoxy) Methane	5	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Ethylhexyl) Phthalate	5	--	µg/L		2 U	2 U	2 U	2 U	2 U
Caprolactam	--	--	µg/L		5 U	5 U	5 U	5 U	5 U
Carbazole	--	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chrysene	--	0.002	µg/L		0.1 U	**0.1 J**	0.1 U	0.1 U	**1**
Dibenz(A,H)Anthracene	--	--	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.4 J
Dibenzofuran	--	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.6 J
Diethyl Phthalate	--	50	µg/L		2 U	2 U	2 U	2 U	2 U
Dimethyl Phthalate	--	50	µg/L		2 U	2 U	2 U	2 U	2 U
Di-N-Butyl Phthalate	50	--	µg/L		2 U	2 U	2 U	2 U	2 U
Di-N-Octylphthalate	--	--	µg/L		2 U	2 U	2 U	2 U	2 U
Fluoranthene	--	50	µg/L		0.2 J	0.1 U	0.1 U	0.1 U	0.3 J
Fluorene	--	50	µg/L		0.1 U	0.4 J	0.2 J	0.1 U	2
Hexachlorobenzene	0.04	--	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Hexachlorobutadiene	0.5	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	5	--	µg/L		5 U	5 U	5 U	5 U	5 U
Hexachloroethane	5	--	µg/L		1 U	1 U	1 U	1 U	1 U
Indeno(1,2,3-C,D)Pyrene	--	0.002	µg/L		0.1 U	0.1 U	**0.1 J**	0.1 U	**0.3 J**
Isophorone	--	50	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	--	10	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nitrobenzene	0.4	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-13	MW-15	MW-20	MW-21	MW-28
			Sample Date:	11/13/2017	11/16/2017	11/15/2017	11/15/2017	11/17/2017
			Normal or Field Duplicate:	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units					
N-Nitrosodi-N-Propylamine	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
N-Nitrosodiphenylamine	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pentachlorophenol	1	--	µg/L	1 U	1 U	1 U	1 U	1 U
Phenanthrene	--	50	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	1
Phenol	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pyrene	--	50	µg/L	0.2 J	0.2 J	0.2 J	0.1 U	0.8

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
N - Normal sample
FD - Duplicate sample
FB - Field blank
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-28D	MW-29	MW-29	MW-31	MW-37
			Sample Date:	11/17/2017	11/13/2017	11/13/2017	11/13/2017	11/16/2017
			Normal or Field Duplicate:	N	N	FD	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units					
1,2,4,5-Tetrachlorobenzene	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dioxane (P-Dioxane)	--	--	µg/L	1 U	1 U	1 U	1 U	1 U
2,2-Oxybis(2-Chloropropane)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,3,4,6-Tetrachlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,5-Trichlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,6-Trichlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dichlorophenol	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dimethylphenol	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dinitrophenol	--	10	µg/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	5	--	µg/L	1 U	1 U	1 U	1 U	1 U
2,6-Dinitrotoluene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chloronaphthalene	--	10	µg/L	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Methylnaphthalene	--	--	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
2-Methylphenol (O-Cresol)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitroaniline	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitrophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
3,3'-Dichlorobenzidine	5	--	µg/L	2 U	2 U	2 U	2 U	2 U
3-Nitroaniline	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4,6-Dinitro-2-Methylphenol	--	--	µg/L	5 U	5 U	5 U	5 U	5 U
4-Bromophenyl Phenyl Ether	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chloro-3-Methylphenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chloroaniline	5	--	µg/L	2 U	2 U	2 U	2 U	2 U
4-Chlorophenyl Phenyl Ether	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methylphenol (P-Cresol)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Nitroaniline	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Nitrophenol	--	--	µg/L	10 U	10 U	10 U	10 U	10 U
Acenaphthene	--	20	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.7
Acenaphthylene	--	20	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Acetophenone	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Anthracene	--	50	µg/L	0.1 U	0.1 U	0.2 J	0.1 U	0.2 J

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

				Sample Designation:	MW-28D	MW-29	MW-29	MW-31	MW-37
				Sample Date:	11/17/2017	11/13/2017	11/13/2017	11/13/2017	11/16/2017
				Normal or Field Duplicate:	N	N	FD	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units						
Atrazine	--	--	µg/L		2 U	2 U	2 U	2 U	2 U
Benzaldehyde	--	--	µg/L		1 U	1 U	1 U	1 U	1 U
Benzo(A)Anthracene	--	0.002	µg/L		**0.2 J**	0.1 U	**0.2 J**	0.1 U	**0.1 J**
Benzo(A)Pyrene	0	--	µg/L		**0.5 J**	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(B)Fluoranthene	--	0.002	µg/L		**0.4 J**	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(G,H,I)Perylene	--	--	µg/L		0.4 J	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(K)Fluoranthene	--	0.002	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzyl Butyl Phthalate	--	50	µg/L		2 U	2 U	2 U	2 U	2 U
Biphenyl (Diphenyl)	--	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Chloroethoxy) Methane	5	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Ethylhexyl) Phthalate	5	--	µg/L		3 J	2 U	2 U	2 U	2 U
Caprolactam	--	--	µg/L		5 U	5 U	5 U	5 U	5 U
Carbazole	--	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chrysene	--	0.002	µg/L		**0.1 J**	0.1 U	**0.1 J**	0.1 U	0.1 U
Dibenz(A,H)Anthracene	--	--	µg/L		0.2 J	0.1 U	0.1 U	0.1 U	0.1 U
Dibenzofuran	--	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Diethyl Phthalate	--	50	µg/L		2 U	2 U	2 U	2 U	2 U
Dimethyl Phthalate	--	50	µg/L		2 U	2 U	2 U	2 U	2 U
Di-N-Butyl Phthalate	50	--	µg/L		2 U	2 U	2 U	2 U	2 U
Di-N-Octylphthalate	--	--	µg/L		2 U	2 U	2 U	2 U	2 U
Fluoranthene	--	50	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Fluorene	--	50	µg/L		0.1 U	0.2 J	0.2 J	0.3 J	0.3 J
Hexachlorobenzene	0.04	--	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Hexachlorobutadiene	0.5	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	5	--	µg/L		5 U	5 U	5 U	5 U	5 U
Hexachloroethane	5	--	µg/L		1 U	1 U	1 U	1 U	1 U
Indeno(1,2,3-C,D)Pyrene	--	0.002	µg/L		**0.2 J**	0.1 U	0.1 U	0.1 U	0.1 U
Isophorone	--	50	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	--	10	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nitrobenzene	0.4	--	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-28D	MW-29	MW-29	MW-31	MW-37
			Sample Date:	11/17/2017	11/13/2017	11/13/2017	11/13/2017	11/16/2017
			Normal or Field Duplicate:	N	N	FD	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units					
N-Nitrosodi-N-Propylamine	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
N-Nitrosodiphenylamine	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pentachlorophenol	1	--	µg/L	1 U	1 U	1 U	1 U	1 U
Phenanthrene	--	50	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Phenol	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pyrene	--	50	µg/L	0.1 J	0.1 U	0.2 J	0.2 J	0.2 J

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
N - Normal sample
FD - Duplicate sample
FB - Field blank
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-37	MW-46	MW-49D	MW-52	MW-59
			Sample Date:	11/16/2017	11/15/2017	11/13/2017	11/13/2017	11/15/2017
			Normal or Field Duplicate:	FD	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units					
1,2,4,5-Tetrachlorobenzene	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dioxane (P-Dioxane)	--	--	µg/L	1 U	1 U	1 U	1 U	1 U
2,2-Oxybis(2-Chloropropane)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,3,4,6-Tetrachlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,5-Trichlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,6-Trichlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dichlorophenol	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dimethylphenol	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dinitrophenol	--	10	µg/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	5	--	µg/L	1 U	1 U	1 U	1 U	1 U
2,6-Dinitrotoluene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chloronaphthalene	--	10	µg/L	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Methylnaphthalene	--	--	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
2-Methylphenol (O-Cresol)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitroaniline	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitrophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
3,3'-Dichlorobenzidine	5	--	µg/L	2 U	2 U	2 U	2 U	2 U
3-Nitroaniline	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4,6-Dinitro-2-Methylphenol	--	--	µg/L	5 U	5 U	5 U	5 U	5 U
4-Bromophenyl Phenyl Ether	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chloro-3-Methylphenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chloroaniline	5	--	µg/L	2 U	2 U	2 U	2 U	2 U
4-Chlorophenyl Phenyl Ether	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methylphenol (P-Cresol)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Nitroaniline	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Nitrophenol	--	--	µg/L	10 U	10 U	10 U	10 U	10 U
Acenaphthene	--	20	µg/L	1	0.1 U	0.1 U	0.1 U	0.1 U
Acenaphthylene	--	20	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Acetophenone	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Anthracene	--	50	µg/L	0.1 U	0.1 U	0.1 J	0.1 U	0.1 J

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-37	MW-46	MW-49D	MW-52	MW-59
			Sample Date:	11/16/2017	11/15/2017	11/13/2017	11/13/2017	11/15/2017
			Normal or Field Duplicate:	FD	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units					
Atrazine	--	--	µg/L	2 U	2 U	2 U	2 U	2 U
Benzaldehyde	--	--	µg/L	1 U	1 U	1 U	1 U	1 U
Benzo(A)Anthracene	--	0.002	µg/L	0.1 U	**3**	0.1 U	0.1 U	0.1 U
Benzo(A)Pyrene	0	--	µg/L	0.1 U	**3**	0.1 U	0.1 U	0.1 U
Benzo(B)Fluoranthene	--	0.002	µg/L	0.1 U	**2**	0.1 U	0.1 U	0.1 U
Benzo(G,H,I)Perylene	--	--	µg/L	0.1 U	2	0.1 U	0.1 U	0.1 U
Benzo(K)Fluoranthene	--	0.002	µg/L	0.1 U	**0.4 J**	0.1 U	0.1 U	0.1 U
Benzyl Butyl Phthalate	--	50	µg/L	2 U	2 U	2 U	2 U	2 U
Biphenyl (Diphenyl)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Chloroethoxy) Methane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Ethylhexyl) Phthalate	5	--	µg/L	2 U	2 U	2 U	2 U	2 U
Caprolactam	--	--	µg/L	5 U	5 U	5 U	5 U	5 U
Carbazole	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chrysene	--	0.002	µg/L	0.1 U	**4**	0.1 U	0.1 U	0.1 U
Dibenz(A,H)Anthracene	--	--	µg/L	0.1 U	2	0.1 U	0.1 U	0.1 U
Dibenzofuran	--	--	µg/L	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U
Diethyl Phthalate	--	50	µg/L	2 U	2 U	2 U	2 U	2 U
Dimethyl Phthalate	--	50	µg/L	2 U	2 U	2 U	2 U	2 U
Di-N-Butyl Phthalate	50	--	µg/L	2 U	2 U	2 U	2 U	2 U
Di-N-Octylphthalate	--	--	µg/L	2 U	2 U	2 U	2 U	2 U
Fluoranthene	--	50	µg/L	0.1 J	0.3 J	0.1 J	0.1 U	0.1 U
Fluorene	--	50	µg/L	0.4 J	0.1 U	0.2 J	0.1 U	0.1 J
Hexachlorobenzene	0.04	--	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Hexachlorobutadiene	0.5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	5	--	µg/L	5 U	5 U	5 U	5 U	5 U
Hexachloroethane	5	--	µg/L	1 U	1 U	1 U	1 U	1 U
Indeno(1,2,3-C,D)Pyrene	--	0.002	µg/L	0.1 U	**1**	0.1 U	0.1 U	0.1 U
Isophorone	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	--	10	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nitrobenzene	0.4	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-37	MW-46	MW-49D	MW-52	MW-59
			Sample Date:	11/16/2017	11/15/2017	11/13/2017	11/13/2017	11/15/2017
			Normal or Field Duplicate:	FD	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units					
N-Nitrosodi-N-Propylamine	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
N-Nitrosodiphenylamine	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pentachlorophenol	1	--	µg/L	1 U	1 U	1 U	1 U	1 U
Phenanthrene	--	50	µg/L	0.1 U	0.1 U	0.4 J	0.1 U	0.1 U
Phenol	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pyrene	--	50	µg/L	0.2 J	1	0.1 J	0.2 J	0.1 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
N - Normal sample
FD - Duplicate sample
FB - Field blank
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-60D	MW-62	MW-69	Field Blank	Field Blank
			Sample Date:	11/15/2017	11/13/2017	11/16/2017	11/13/2017	11/16/2017
			Normal or Field Duplicate:	N	N	N	FB	FB
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units					
1,2,4,5-Tetrachlorobenzene	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dioxane (P-Dioxane)	--	--	µg/L	1 U	1 U	1 U	1 U	1 U
2,2-Oxybis(2-Chloropropane)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,3,4,6-Tetrachlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,5-Trichlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,6-Trichlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dichlorophenol	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dimethylphenol	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dinitrophenol	--	10	µg/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	5	--	µg/L	1 U	1 U	1 U	1 U	1 U
2,6-Dinitrotoluene	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chloronaphthalene	--	10	µg/L	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chlorophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Methylnaphthalene	--	--	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
2-Methylphenol (O-Cresol)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitroaniline	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitrophenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
3,3'-Dichlorobenzidine	5	--	µg/L	2 U	2 U	2 U	2 U	2 U
3-Nitroaniline	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4,6-Dinitro-2-Methylphenol	--	--	µg/L	5 U	5 U	5 U	5 U	5 U
4-Bromophenyl Phenyl Ether	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chloro-3-Methylphenol	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chloroaniline	5	--	µg/L	2 U	2 U	2 U	2 U	2 U
4-Chlorophenyl Phenyl Ether	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methylphenol (P-Cresol)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Nitroaniline	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Nitrophenol	--	--	µg/L	10 U	10 U	10 U	10 U	10 U
Acenaphthene	--	20	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Acenaphthylene	--	20	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Acetophenone	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Anthracene	--	50	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-60D	MW-62	MW-69	Field Blank	Field Blank
			Sample Date:	11/15/2017	11/13/2017	11/16/2017	11/13/2017	11/16/2017
			Normal or Field Duplicate:	N	N	N	FB	FB
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units					
Atrazine	--	--	µg/L	2 U	2 U	2 U	2 U	2 U
Benzaldehyde	--	--	µg/L	1 U	1 U	1 U	1 U	1 U
Benzo(A)Anthracene	--	0.002	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(A)Pyrene	0	--	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(B)Fluoranthene	--	0.002	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(G,H,I)Perylene	--	--	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(K)Fluoranthene	--	0.002	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzyl Butyl Phthalate	--	50	µg/L	2 U	2 U	2 U	2 U	2 U
Biphenyl (Diphenyl)	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Chloroethoxy) Methane	5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Ethylhexyl) Phthalate	5	--	µg/L	2 U	2 U	2 U	2 U	2 U
Caprolactam	--	--	µg/L	5 U	5 U	5 U	5 U	5 U
Carbazole	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chrysene	--	0.002	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibenz(A,H)Anthracene	--	--	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibenzofuran	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Diethyl Phthalate	--	50	µg/L	2 U	2 U	2 U	2 U	2 U
Dimethyl Phthalate	--	50	µg/L	2 U	2 U	2 U	2 U	2 U
Di-N-Butyl Phthalate	50	--	µg/L	2 U	2 U	2 U	2 U	2 U
Di-N-Octylphthalate	--	--	µg/L	2 U	2 U	2 U	2 U	2 U
Fluoranthene	--	50	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Fluorene	--	50	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Hexachlorobenzene	0.04	--	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Hexachlorobutadiene	0.5	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	5	--	µg/L	5 U	5 U	5 U	5 U	5 U
Hexachloroethane	5	--	µg/L	1 U	1 U	1 U	1 U	1 U
Indeno(1,2,3-C,D)Pyrene	--	0.002	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Isophorone	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	--	10	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nitrobenzene	0.4	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 6. Summary of Semivolatile Organic Compounds in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-60D	MW-62	MW-69	Field Blank	Field Blank
			Sample Date:	11/15/2017	11/13/2017	11/16/2017	11/13/2017	11/16/2017
			Normal or Field Duplicate:	N	N	N	FB	FB
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units					
N-Nitrosodi-N-Propylamine	--	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
N-Nitrosodiphenylamine	--	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pentachlorophenol	1	--	µg/L	1 U	1 U	1 U	1 U	1 U
Phenanthrene	--	50	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Phenol	1	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pyrene	--	50	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

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AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
N - Normal sample
FD - Duplicate sample
FB - Field blank
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 7. Summary of Metals in Groundwater, Review Avenue, Long Island City, New York

				Sample Designation:	MW-1	MW-4D	MW-8	MW-10	MW-11R	MW-13	MW-15
				Sample Date:	11/16/2017	11/16/2017	11/15/2017	11/13/2017	11/15/2017	11/13/2017	11/16/2017
				Normal or Field Duplicate:	N	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units								
Aluminum	--	--	µg/L		89.4 U	89.4 U	89.4 U	89.4 U	89.4 U	89.4 U	119 J
Antimony	3	--	µg/L		8.7 U	8.7 U	8.7 U	8.7 U	**10 J**	8.7 U	8.7 U
Arsenic	25	--	µg/L		9.6 U	9.6 U	20 J	9.6 U	9.6 U	9.6 U	20.8 J
Barium	1000	--	µg/L		377	62.9	40.1	237	73.1	**1530**	177
Beryllium	--	3	µg/L		2 U	2 U	2 U	2 U	2 U	2 U	2 U
Cadmium	5	--	µg/L		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.8 J
Calcium	--	--	µg/L		264000	25000	264000	124000	253000	207000	59900
Chromium, Total	50	--	µg/L		3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U
Cobalt	--	--	µg/L		1.8 J	1.8 J	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Copper	200	--	µg/L		4 U	9 J	4 U	4 U	4 U	6.4 J	6 J
Iron	300	--	µg/L		**430**	**9100**	80.5 U	**13900**	80.5 U	**3110**	**52900**
Lead	25	--	µg/L		6 U	6 U	6 U	12.5 J	6 U	8.7 J	6.6 J
Magnesium	--	35000	µg/L		21200	3550	**771000**	**53300**	**713000**	22700	7290
Manganese	300	--	µg/L		**1850**	156	53.2	**539**	169	**528**	**604**
Mercury	0.7	--	µg/L		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Nickel	100	--	µg/L		4 U	4 U	4 U	4 U	4 U	4 U	4 U
Potassium	--	--	µg/L		21600	6230	265000	25200	245000	35400	12500
Selenium	10	--	µg/L		9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Silver	50	--	µg/L		2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
Sodium	20000	--	µg/L		**357000**	**54200**	**6650000**	**389000**	**5770000**	**155000**	**200000**
Thallium	--	0.5	µg/L		**14.6 J**	13.7 U	13.7 U	13.7 U	13.7 U	13.7 U	13.7 U
Vanadium	--	--	µg/L		1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Zinc	--	2000	µg/L		6.5 U	174	12.2 J	6.5 U	6.5 U	29.1 J	13.3 J

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J - Estimated Value
U - Compound was analyzed for but not detected
N - Normal sample
FD - Duplicate
FB - Field blank
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Table 7. Summary of Metals in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-20	MW-21	MW-28	MW-28D	MW-29	MW-29
			Sample Date:	11/15/2017	11/15/2017	11/17/2017	11/17/2017	11/13/2017	11/13/2017
			Normal or Field Duplicate:	N	N	N	N	N	FD
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units						
Aluminum	--	--	µg/L	294 J	89.4 U	126 J	89.4 U	89.4 U	89.4 U
Antimony	3	--	µg/L	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U
Arsenic	25	--	µg/L	9.6 U	9.6 U	9.6 U	19.5 J	9.6 U	18.5 J
Barium	1000	--	µg/L	324	86.9	91.2	41.3	171	177
Beryllium	--	3	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
Cadmium	5	--	µg/L	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Calcium	--	--	µg/L	172000	92900	44000	93500	112000	112000
Chromium, Total	50	--	µg/L	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U
Cobalt	--	--	µg/L	1.7 U	1.7 U	1.7 U	1.8 J	1.7 U	2 J
Copper	200	--	µg/L	5.3 J	4 U	4 U	8.8 J	4 U	4 U
Iron	300	--	µg/L	**28300**	80.5 U	264 J	**470**	**8170**	**8390**
Lead	25	--	µg/L	6 U	6 U	6 U	18.6 J	6 U	6 U
Magnesium	--	35000	µg/L	**43600**	31400	3480	5890	15700	15100
Manganese	300	--	µg/L	**1620**	1.6 U	157	145	**571**	**564**
Mercury	0.7	--	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Nickel	100	--	µg/L	4.2 J	4 U	4 U	10.5 J	4 U	4 U
Potassium	--	--	µg/L	5790	2530	25100	22500	26800	27100
Selenium	10	--	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Silver	50	--	µg/L	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
Sodium	20000	--	µg/L	**189000**	**55300**	**182000**	**150000**	**321000**	**321000**
Thallium	--	0.5	µg/L	13.7 U	13.7 U	13.7 U	13.7 U	**16.4 J**	13.7 U
Vanadium	--	--	µg/L	2.2 J	1.6 U	4.1 J	37.1	1.6 U	1.6 U
Zinc	--	2000	µg/L	8.3 J	6.5 U	6.5 U	36.7 J	6.5 U	6.5 U

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µg/L -Micrograms per liter
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N - Normal sample
FD - Duplicate
FB - Field blank
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 7. Summary of Metals in Groundwater, Review Avenue, Long Island City, New York

			Sample Designation:	MW-31	MW-37	MW-37	MW-46	MW-49D	MW-52
			Sample Date:	11/13/2017	11/16/2017	11/16/2017	11/15/2017	11/13/2017	11/13/2017
			Normal or Field Duplicate:	N	N	FD	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units						
Aluminum	--	--	µg/L	89.4 U	89.4 U	89.4 U	89.4 U	89.4 U	89.4 U
Antimony	3	--	µg/L	8.7 U	8.7 U	8.7 U	**9.8 J**	**12.3 J**	8.7 U
Arsenic	25	--	µg/L	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Barium	1000	--	µg/L	249	267	264	383	251	89
Beryllium	--	3	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
Cadmium	5	--	µg/L	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Calcium	--	--	µg/L	373000	200000	199000	363000	22600	223000
Chromium, Total	50	--	µg/L	3.7 J	3.3 U	3.3 U	3.3 U	4.7 J	3.3 U
Cobalt	--	--	µg/L	1.8 J	1.9 J	1.7 U	1.7 U	1.7 U	1.7 U
Copper	200	--	µg/L	9.5 J	4 U	4 U	6.4 J	4 U	6.2 J
Iron	300	--	µg/L	**28200**	**4000**	**3960**	**2720**	**50400**	80.5 U
Lead	25	--	µg/L	13.6 J	6 U	6 U	6 U	6 U	6 U
Magnesium	--	35000	µg/L	**94700**	15500	15500	**602000**	5790	**519000**
Manganese	300	--	µg/L	**2220**	**917**	**917**	251	**1830**	115
Mercury	0.7	--	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Nickel	100	--	µg/L	4 U	4 U	4 U	4 U	4 U	4 U
Potassium	--	--	µg/L	88800	40200	39800	200000	3190	188000
Selenium	10	--	µg/L	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Silver	50	--	µg/L	2.4 U	2.4 U	2.9 J	2.4 U	3 J	2.4 U
Sodium	20000	--	µg/L	**777000**	**394000**	**389000**	**5020000**	8770	**4550000**
Thallium	--	0.5	µg/L	13.7 U	13.7 U	13.7 U	13.7 U	13.7 U	13.7 U
Vanadium	--	--	µg/L	1.6 U	1.7 J	1.6 U	1.6 U	1.6 U	1.6 U
Zinc	--	2000	µg/L	6.5 U	6.5 U	6.5 U	108	6.5 U	6.5 U

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N - Normal sample
FD - Duplicate
FB - Field blank
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 7. Summary of Metals in Groundwater, Review Avenue, Long Island City, New York

				Sample Designation:	MW-59	MW-60D	MW-62	MW-69	Field Blank	Field Blank
				Sample Date:	11/15/2017	11/15/2017	11/13/2017	11/16/2017	11/13/2017	11/16/2017
				Normal or Field Duplicate:	N	N	N	N	FB	FB
Parameter	NYSDEC Ambient Water-Quality Standards	NYSDEC Ambient Water-Quality Guidance Values	Units							
Aluminum	--	--	µg/L		89.4 U	103 J	135 J	89.4 U	89.4 U	89.4 U
Antimony	3	--	µg/L		8.7 U	8.7 U	**10.9 J**	8.7 U	8.7 U	8.7 U
Arsenic	25	--	µg/L		9.6 U	10.4 J	9.6 U	9.6 U	9.8 J	9.6 U
Barium	1000	--	µg/L		113	150	229	115	0.85 U	0.85 U
Beryllium	--	3	µg/L		2 U	2 U	2 U	2 U	2 U	2 U
Cadmium	5	--	µg/L		1.8 U	1.8 U	**24.9**	1.8 U	1.8 U	1.8 U
Calcium	--	--	µg/L		74700	129000	75800	144000	60 U	60 U
Chromium, Total	50	--	µg/L		3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U
Cobalt	--	--	µg/L		2.7 J	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Copper	200	--	µg/L		4 U	4 U	13.8 J	4 U	4 U	4 U
Iron	300	--	µg/L		**2000**	87.1 J	**5420**	80.5 U	80.5 U	80.5 U
Lead	25	--	µg/L		6 U	6.3 J	6 U	6 U	6 U	6 U
Magnesium	--	35000	µg/L		28700	**39900**	7090	34400	37.4 U	37.4 U
Manganese	300	--	µg/L		**378**	7.3 J	142	14	1.6 U	1.6 U
Mercury	0.7	--	µg/L		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Nickel	100	--	µg/L		4 U	4 U	10.2 J	4 U	4 U	4 U
Potassium	--	--	µg/L		2430	2840	7520	2600	179 U	179 U
Selenium	10	--	µg/L		9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Silver	50	--	µg/L		2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
Sodium	20000	--	µg/L		**85000**	**64000**	**29600**	**61700**	418 J	321 U
Thallium	--	0.5	µg/L		**17.7 J**	13.7 U	13.7 U	13.7 U	**17.4 J**	13.7 U
Vanadium	--	--	µg/L		1.6 U	1.6 U	3.7 J	1.6 U	1.6 U	1.6 U
Zinc	--	2000	µg/L		6.5 U	6.5 U	123	6.5 U	6.5 U	6.5 U

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J - Estimated Value
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N - Normal sample
FD - Duplicate
FB - Field blank
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 8. Summary of the Frequency of Exceedances in Groundwater
ExxonMobil Former Pratt Oil Works, Long Island City, Queens, New York

Parameter	No. of Samples	No. of Exceedances	Location of Max Value	Range of Exceedances		Criteria	Units
				Min	Max	NYSDEC AWQSGV	
Volatile Organic Compounds							
Benzene	23	4	MW-37	2	27	1	µg/L
Chlorobenzene	23	2	MW-37	6 J	7 J	5	µg/L
Chloroethane	23	4	MW-4D	18	70	5	µg/L
Cis-1,2-Dichloroethylene	23	1	MW-28D	9 J	9 J	5	µg/L
Vinyl chloride	23	1	MW-28D	6 J	6 J	2	µg/L
Semivolatile Organic Compounds							
Benzo[a]anthracene	23	7	MW-46	0.1 J	3	0.002	µg/L
Benzo[a]pyrene	23	4	MW-46	0.2 J	3	0	µg/L
Benzo[b]fluoranthene	23	3	MW-46	0.4 J	2	0.002	µg/L
Benzo[k]fluoranthene	23	2	MW-46	0.1 J	0.4 J	0.002	µg/L
Chrysene	23	7	MW-46	0.1 J	4	0.002	µg/L
Indeno(1,2,3-C,D)Pyrene	23	4	MW-46	0.1 J	1	0.002	µg/L
Metals Total							
Antimony	23	4	MW-49D	9.8 J	12.3 J	3	µg/L
Barium	23	1	MW-13	1530	1530	1000	µg/L
Cadmium	23	1	MW-62	24.9	24.9	5	µg/L
Iron	23	16	MW-15	430	52,900	300	µg/L
Magnesium	23	8	MW-8	39,900	771,000	35,000	µg/L
Manganese	23	12	MW-31	378	2,220	300	µg/L
Sodium	23	22	MW-8	29,600	6,650,000	20,000	µg/L
Thallium	23	3	MW-59	14.6 J	17.7 J	0.5	µg/L

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value

FIGURES

1. Site Location Map
2. Monitoring Well Hydrograph for MW-42
3. Monitoring Well Hydrograph for MW-48D
4. Monitoring Well Hydrograph for MW-49M
5. Monitoring Well Hydrograph for MW-50



N

LEGEND

SITE BOUNDARY

750 0 750

Feet

Title:

SITE LOCATION MAP

SITE STATUS UPDATE REPORT
FORMER PRATT OIL WORKS
LONG ISLAND CITY, QUEENS, NEW YORK

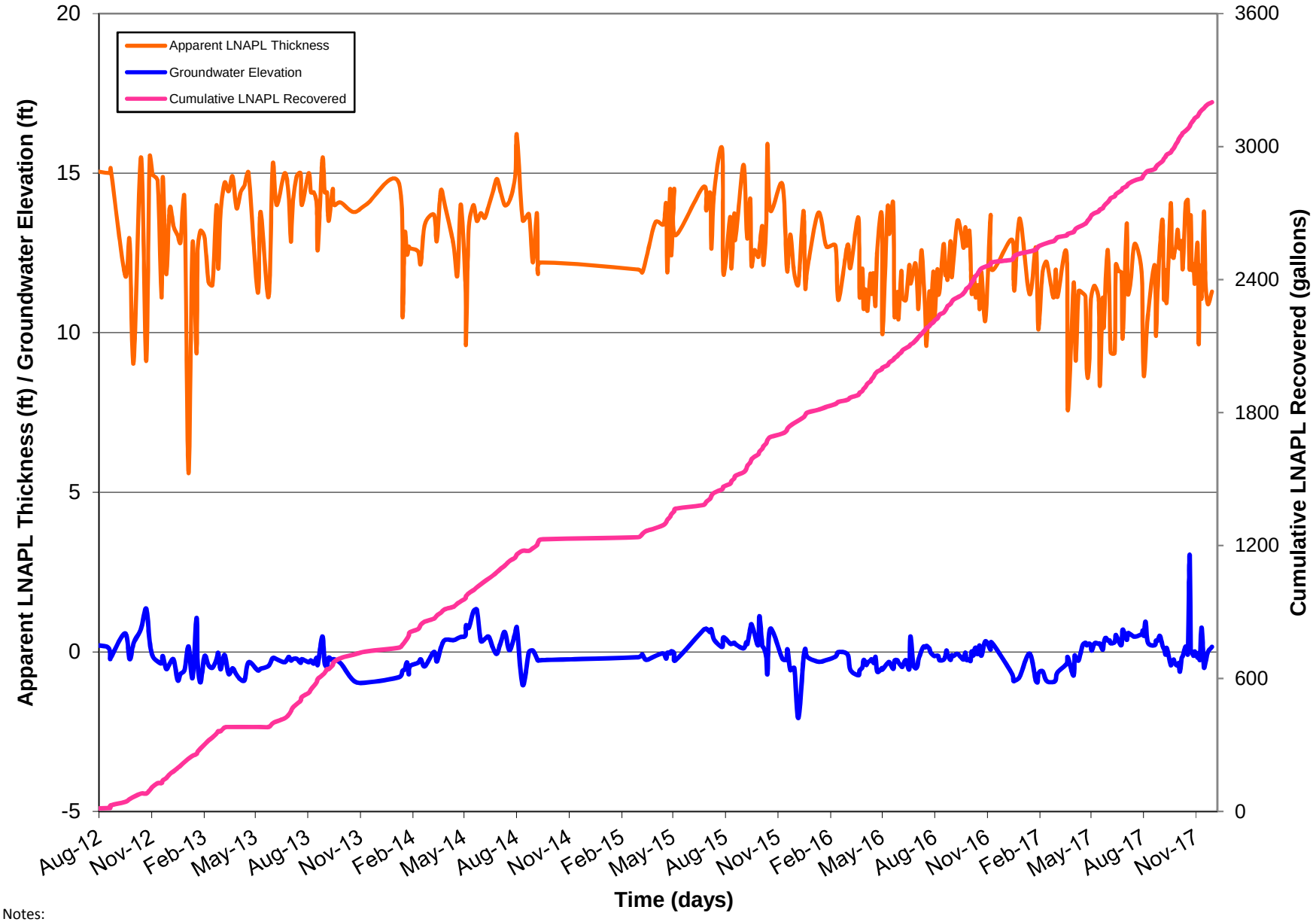
Prepared For: EXXONMOBIL OIL CORPORATION
BROOKLYN, NEW YORK

ROUX

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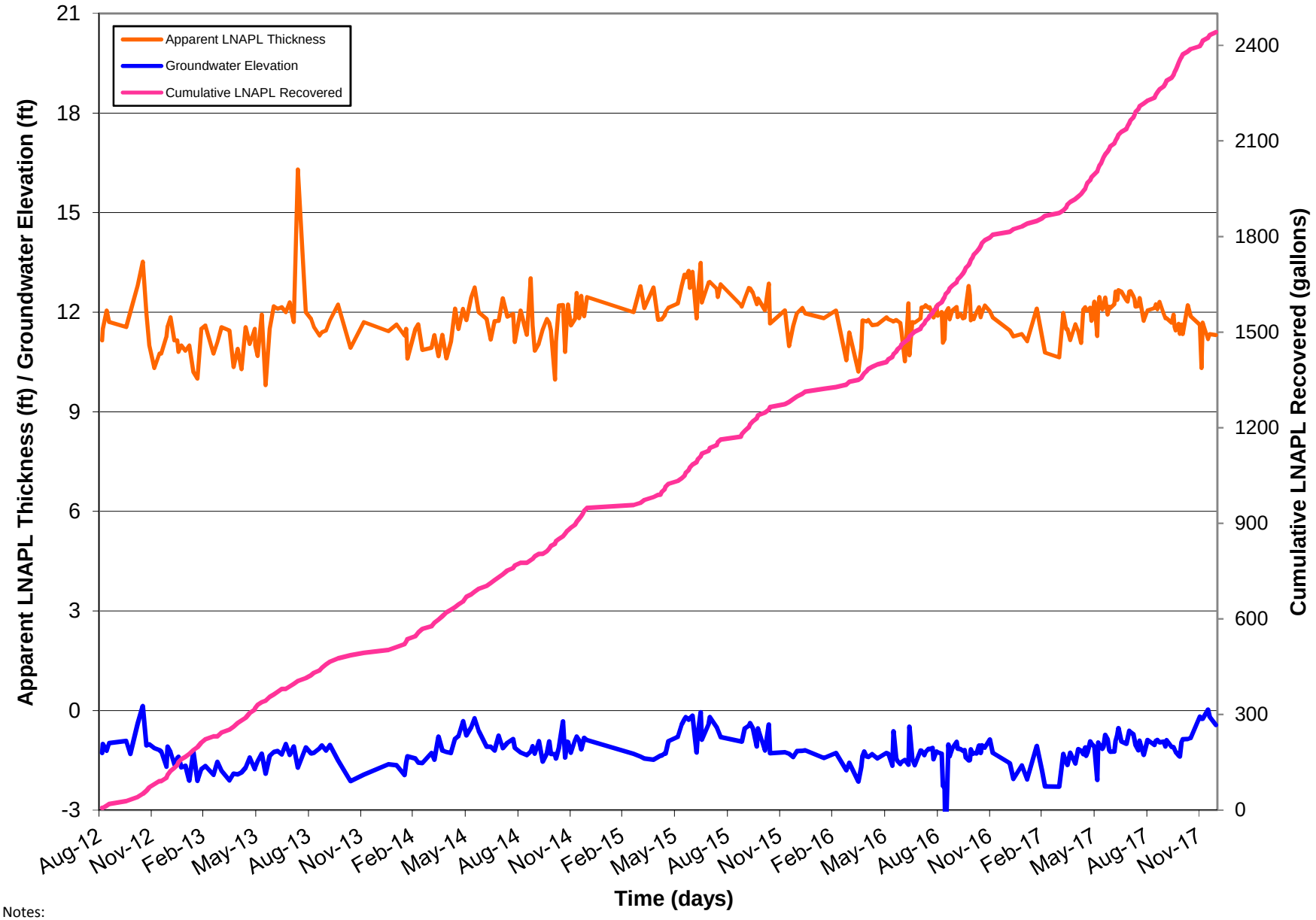
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FIGURE 2
Monitoring Well Hydrograph for MW-42
Former Pratt Oil Works, Long Island City, New York



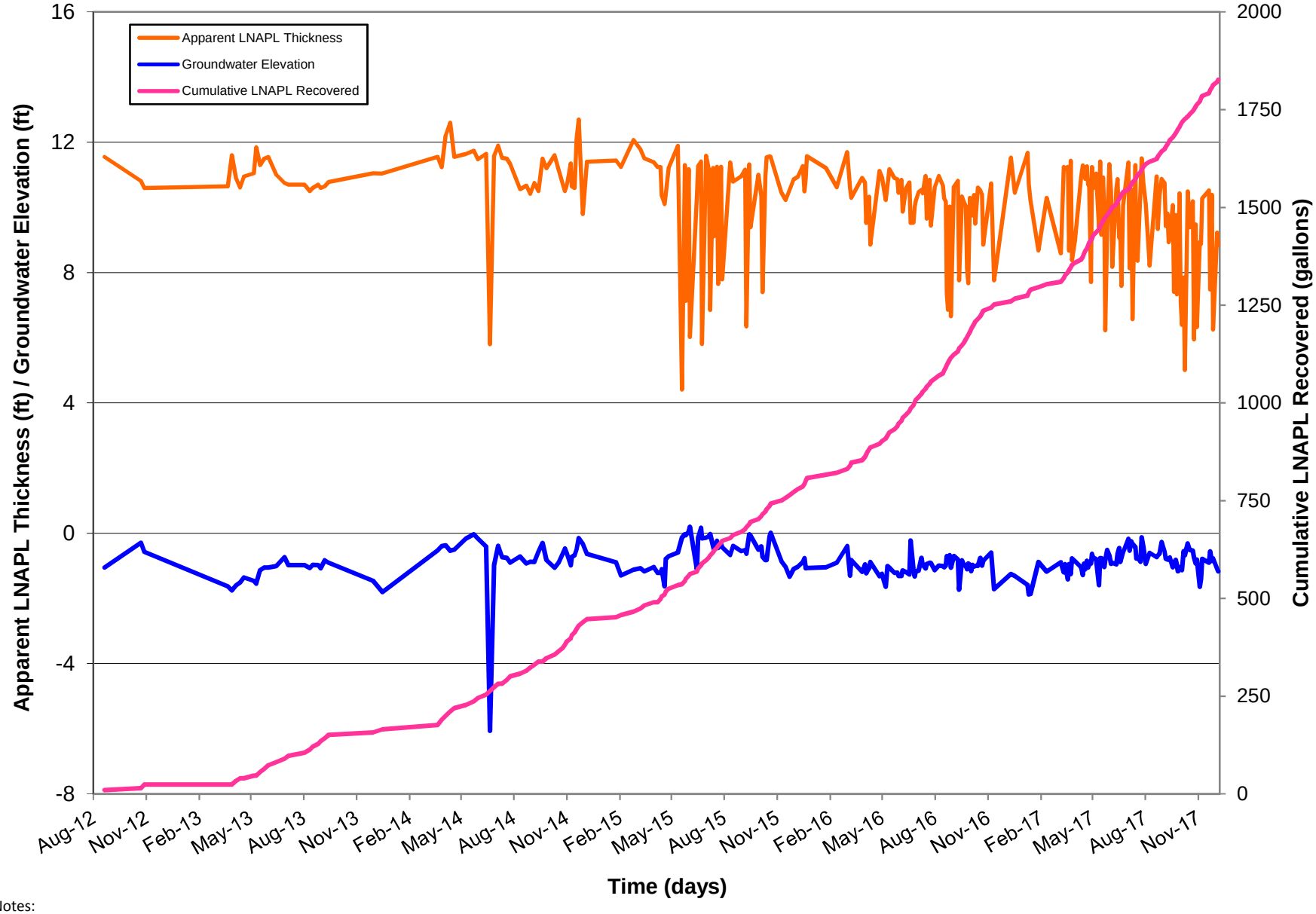
Notes:
Groundwater elevations are presented in feet as referenced to the North American Datum of 1988 (NAVD88)
ft - feet

FIGURE 3
Monitoring Well Hydrograph for MW-48D
Former Pratt Oil Works, Long Island City, New York



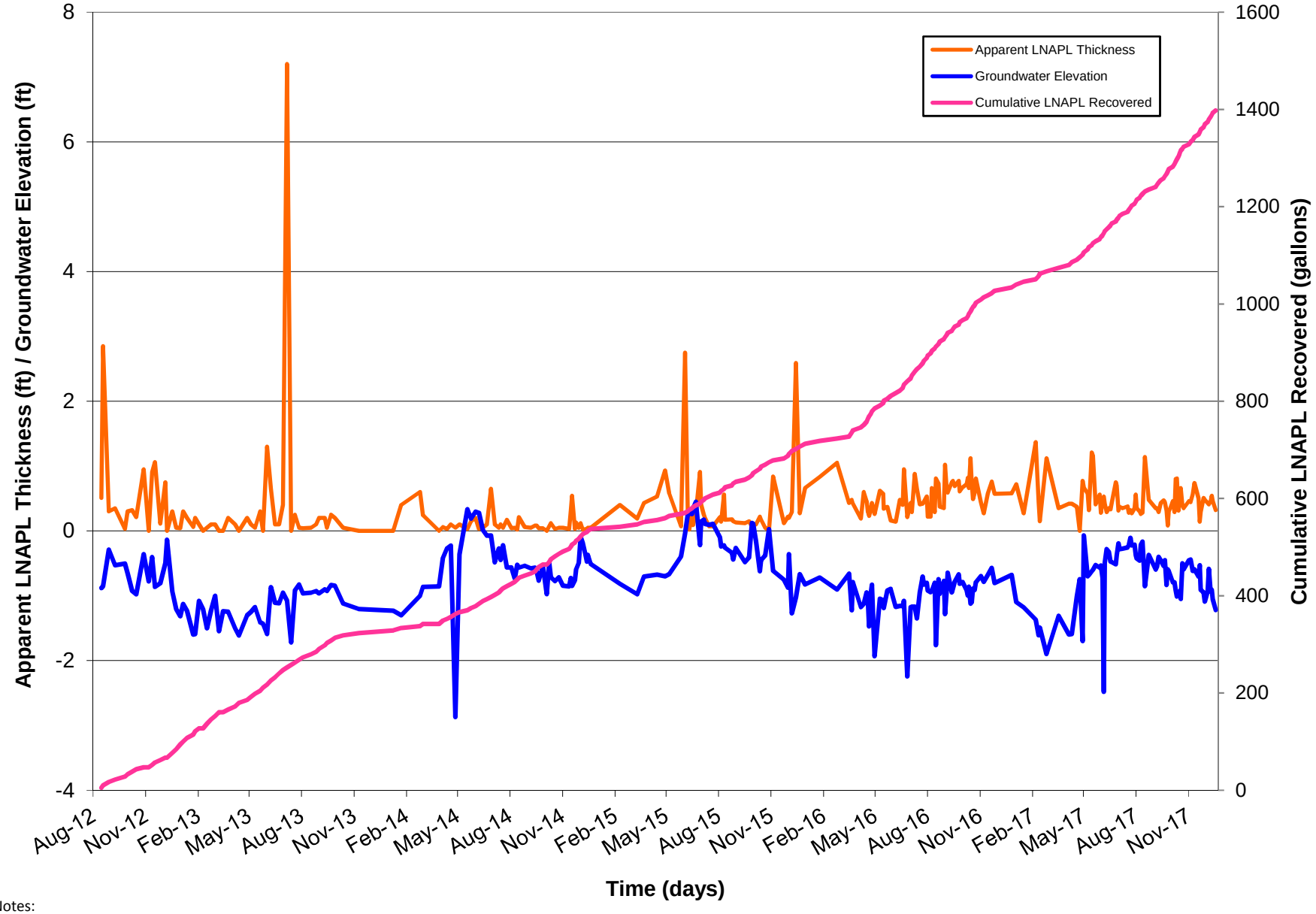
Notes:
Groundwater elevations are presented in feet as referenced to the North American Datum of 1988 (NAVD88)
ft - feet

FIGURE 4
Monitoring Well Hydrograph for MW-49M
Former Pratt Oil Works, Long Island City, New York



Notes:
Groundwater elevations are presented in feet as referenced to the North American Datum of 1988 (NAVD88)
ft - feet

FIGURE 5
Monitoring Well Hydrograph for MW-50
Former Pratt Oil Works, Long Island City, New York



Notes:
Groundwater elevations are presented in feet as referenced to the North American Datum of 1988 (NAVD88)
ft - feet

APPENDICES

A. Absorbent Boom Photographs

B. LNAPL Transport Documentation

C. Well Sampling Data Forms

D. Groundwater Sampling Documentation and Laboratory Analytical Data

APPENDIX A

Absorbent Boom Photographs



Photograph 1: 11/17/2017



Photograph 2: 11/22/2017



Photograph 3: 12/4/2017



Photograph 4: 12/11/2017

APPENDIX B

LNAPL Transport Documentation

AUCHTER INDUSTRIAL VAC SERVICE INC.

4801South Wood Avenue, Linden, N.J. 07036
(908) 862-2277

JOB -

FOR:

Date				A.I.V. Shop	Hours	A.I.V. Shop
Day				From -	To -	
Supervisor	Hours	Overtime	Operators	Hours	Overtime	
Foreman:						
Laborers			Equipment:			
					IN	
					OUT	
					IN	
					OUT	

Remarks:

A.I.V. Rep.

Customer Rep. X

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. 30837

Carrier AUCHTER INDUSTRIAL VAC SERVICE, INC. 4801 S. WOOD AVE. - LINDEN, NJ 07036 SCAC _____ Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at _____, date 11/8/17 from TK, 3, 9, 24, 36, 15 + drums

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:
Consignee CLEAN WATERS OF NEW YORK
Street 3249 RICHMOND TERR
Destination STATEN ISLAND, NY Zip 10303

FROM:
Shipper EXXON MOBIL
Street 400 KINGSLAND AVE
Origin BROOKLYN, NY Zip 11222

Route TRUCK

Delivering Carrier AUCHTER INDUSTRIAL | Vehicle Number 10 | U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT	X	NA1993	COMBUSTIBLE LIQUIDS, N.O.S.	3	III	3936		G
			(#2 FUEL OIL, LUBE OIL & WATER)					
			ERG 128					
			1014-004					
			Received					

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

PLACARDS REQUIRED COMBUSTIBLE PLACARDS SUPPLIED ☐ BY SHIPPER ☒ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: EXXON MOBIL
PER: _____ DATE: 11/8/17

CARRIER: AUCHTER INDUSTRIAL VAC SERVICE, INC.
PER: _____ DATE: 11/8/17

EMERGENCY RESPONSE TELEPHONE NUMBER: 908-862-2277

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

431 (Rev. 9/10)

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

2

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. 32238

Carrier AUCHTER INDUSTRIAL VAC SERVICE, INC. 4801 S. WOOD AVE. - LINDEN, NJ 07036 SCAC _____ Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at _____, date 11/13/17 from Tanks 5, 7, 24 + Diesel Tk

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:		FROM:	
Consignee	EXXON MOBIL	Shipper	EXXON MOBIL
Street	400 KINGSLAND AVE	Street	39-14 REVIEW AVE
Destination	BROOKLYN, NY Zip 11222	Origin	LONG ISLAND CITY, NY Zip 11101

Route TRUCK

Delivering Carrier AUCHTER INDUSTRIAL Vehicle Number 10 U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT	X	UN1268	PETROLEUM PRODUCTS, N.O.S.	3	III	420		G
			(#2 OIL KEROSENE, GASOLINE & WATER)					
			ERG 128					
			Received					

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

PLACARDS REQUIRED FLAMMABLE PLACARDS SUPPLIED ☐ BY SHIPPER ☒ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: EXXON MOBIL CARRIER: AUCHTER INDUSTRIAL VAC SERVICE, INC.

PER: _____ DATE: 11/13/17 PER: _____ DATE: 11/13/17

EMERGENCY RESPONSE TELEPHONE NUMBER: 908-862-2277

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

431 (Rev. 3/17)

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

AUCHTER INDUSTRIAL VAC SERVICE INC.

4801South Wood Avenue, Linden, N.J. 07036
(908) 862-2277

JOB -

FOR:

Date	Day	A.I.V. Shop	Hours From -	Hours To -	A.I.V. Shop

Supervisor	Hours	Overtime	Operators	Hours	Overtime
Foreman:					
Laborers			Equipment:		
					IN
					OUT
					IN
					OUT

Remarks:

A.I.V. Rep.

Customer Rep. X

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. 32239

Carrier AUCHTER INDUSTRIAL VAC SERVICE, INC. 4801 S. WOOD AVE. - LINDEN, NJ 07036 SCAC _____ Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at _____, date 11/20/17 from TKS 5, 9, 24 + 30 RUMS

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:
Consignee EXXON MOBIL
Street 400 KINGSLAND AVE
Destination BROOKLYN, NY Zip 11222

FROM:
Shipper EXXON MOBIL
Street 39-14 REVIEW AVE
Origin LONG ISLAND CITY, NY Zip 11101

Route TRUCK

Delivering Carrier AUCHTER INDUSTRIAL | Vehicle Number 10 | U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT	X	UN1268	PETROLEUM PRODUCTS, N.O.S. (#2 OIL KEROSENE, GASOLINE & WATER) ERG 128	3	III	520		G

Received

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

PLACARDS REQUIRED FLAMMABLE PLACARDS SUPPLIED ☐ BY SHIPPER ☐ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: EXXON MOBIL
PER: _____ DATE: 11/20/17

CARRIER: AUCHTER INDUSTRIAL VAC SERVICE, INC.
PER: _____ DATE: 11/20/17

EMERGENCY RESPONSE TELEPHONE NUMBER: 908-862-2277

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

431 (Rev. 3/17)

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

AUCHTER INDUSTRIAL VAC SERVICE INC.

4801South Wood Avenue, Linden, N.J. 07036
(908) 862-2277

JOB - [illegible] FOR: [illegible]

Date 11/20/17	Day Monday			A.I.V. Shop From - [illegible]	Hours To -	A.I.V. Shop
Supervisor	Hours	Overtime	Operators		Hours	Overtime
			[illegible]			
Foreman:						
Laborers- [illegible]			Equipment:			
[illegible]			[illegible]			IN [illegible]
[illegible]			[illegible]			OUT [illegible]
[illegible]			[illegible]			IN
			[illegible]			OUT

Remarks: [illegible]

A.I.V. Rep. [illegible]

Customer Rep. X [illegible]

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. 32020

Carrier AUCHTER INDUSTRIAL VAC SERVICE, INC. 4801 S. WOOD AVE. - LINDEN, NJ 07036 SCAC _____ Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at _____, date 11/27/17 from TK 5, 9, 24, + 2 drums

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:		FROM:			
Consignee	EXXON MOBIL	Shipper	EXXON MOBIL		
Street	400 KINGSLAND AVE	Street	39-14 REVIEW AVE		
Destination	BROOKLYN, NY Zip 11222	Origin	LONG ISLAND CITY, NY	Zip	11101

Route TRUCK

Delivering Carrier AUCHTER INDUSTRIAL Vehicle Number 10 U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT	X	UN1993	FLAMMABLE LIQUIDS N.O.S.	3	III	510		G
			(#2 OIL, KEROSENE, GASOLINE & WATER)					
			ERG 128					
			Received					

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

PLACARDS REQUIRED FLAMMABLE PLACARDS SUPPLIED ☐ BY SHIPPER ☒ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: EXXON MOBIL
PER: _____ DATE: 11/27/17

CARRIER: AUCHTER INDUSTRIAL VAC SERVICE, INC.
PER: _____ DATE: 11/27/17

EMERGENCY RESPONSE TELEPHONE NUMBER: 908-862-2277

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

431 (Rev. 3/17)

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

2

AUCHTER INDUSTRIAL VAC SERVICE INC.

4801South Wood Avenue, Linden, N.J. 07036
(908) 862-2277

JOB -

FOR:

Date		A.I.V. Shop Hours	A.I.V. Shop
Day		From -	To -

Supervisor	Hours	Overtime	Operators	Hours	Overtime
Foreman:					
Laborers			Equipment:		
					IN
					OUT
					IN
					OUT

Remarks:

A.I.V. Rep.

Customer Rep. X

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. 32241

Carrier AUCHTER INDUSTRIAL VAC SERVICE, INC. 4801 S. WOOD AVE. - LINDEN, NJ 07036 SCAC _____ Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at _____, date 12/04/17 from Tanks 5, 9, 24 + 2 Drums

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:				FROM:			
Consignee	EXXON MOBIL			Shipper	EXXON MOBIL		
Street	400 KINGSLAND AVE			Street	39-14 REVIEW AVE		
Destination	BROOKLYN, NY	Zip	11222	Origin	LONG ISLAND CITY, NY	Zip	11101

Route TRUCK

Delivering Carrier AUCHTER INDUSTRIAL Vehicle Number 10 U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT	X	UN1268	PETROLEUM PRODUCTS, N.O.S.	3	III	475		G
			(#2 OIL KEROSENE, GASOLINE & WATER)					
			ERG 128					
			Received X					

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per X

PLACARDS REQUIRED FLAMMABLE PLACARDS SUPPLIED ☐ BY SHIPPER ☒ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: EXXON MOBIL
PER: X DATE: 12/04/17

CARRIER: AUCHTER INDUSTRIAL VAC SERVICE, INC.
PER Oscar Hurtado DATE: 12/04/17

EMERGENCY RESPONSE TELEPHONE NUMBER: 908-862-2277

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

431 (Rev. 3/17)

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

2

AUCHTER INDUSTRIAL VAC SERVICE INC.

Tim Unlap

4801South Wood Avenue, Linden, N.J. 07036
(908) 862-2277

JOB - L.I Tanks **FOR:** ROUX Brooklyn

Date	Day	A.I.V. Shop Hours From -	To -	A.I.V. Shop
12/04/17		05.30		

Supervisor	Hours	Overtime	Operators	Hours	Overtime
			Oscar Hurtado		
Foreman:					

Laborers			Equipment:		
BOL # 32241			Truck # 10		IN 0730
Tolls			4000 gall. Cap		OUT 1015
Goethals Brd			475 gall		IN
Verrazano Brd					OUT

Remarks: Vac out Tanks 5, 9, 24 + 2 Drums Run Load To Brooklyn off Load on site tank #

A.I.V. Rep. Oscar Hurtado | Customer Rep. X

THIS MEMORANDUM is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, not a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No. 32242

Carrier AUCHTER INDUSTRIAL VAC SERVICE, INC. 4801 S. WOOD AVE. - LINDEN, NJ 07036 SCAC _____ Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations:

at _____, date 11/11/17 from TKT 5, 24 + 7 others

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:				FROM:			
Consignee	EXXON MOBIL			Shipper	EXXON MOBIL		
Street	400 KINGSLAND AVE			Street	39-14 REVIEW AVE		
Destination	BROOKLYN, NY	Zip	11222	Origin	LONG ISLAND CITY, NY	Zip	11101

Route TRUCK

Delivering Carrier AUCHTER INDUSTRIAL Vehicle Number 10 U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT	X	UN1268	PETROLEUM PRODUCTS, N.O.S.	3	III	420		G
			(#2 OIL KEROSENE, GASOLINE & WATER)					
			ERG 128					
			Received					

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

PLACARDS REQUIRED FLAMMABLE PLACARDS SUPPLIED ☐ BY SHIPPER ☒ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: EXXON MOBIL
PER: _____ DATE: 11/11/17

CARRIER: AUCHTER INDUSTRIAL VAC SERVICE, INC.
PER: _____ DATE: 11/11/17

EMERGENCY RESPONSE TELEPHONE NUMBER: 908-862-2277

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

431 (Rev. 3/17)

AUCHTER INDUSTRIAL VAC SERVICE INC.

4801South Wood Avenue, Linden, N.J. 07036
(908) 862-2277

JOB -

FOR:

Date	Day	A.I.V. Shop	Hours	A.I.V. Shop
		From -	To -	

Supervisor	Hours	Overtime	Operators	Hours	Overtime
Foreman:					
Laborers			Equipment:		
					IN
					OUT
					IN
					OUT

Remarks:

A.I.V. Rep.

Customer Rep. X

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. 32243

Carrier AUCHTER INDUSTRIAL VAC SERVICE, INC. 4801 S. WOOD AVE. - LINDEN, NJ 07036 SCAC _____ Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at _____, date 12/18/17 from TKs 5, 9, 24, + 10 drums

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:		FROM:			
Consignee	EXXON MOBIL	Shipper	EXXON MOBIL		
Street	400 KINGSLAND AVE	Street	39-14 REVIEW AVE		
Destination	BROOKLYN, NY Zip 11222	Origin	LONG ISLAND CITY, NY	Zip	11101

Route TRUCK

Delivering Carrier AUCHTER INDUSTRIAL Vehicle Number 10 U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT	X	UN1268	PETROLEUM PRODUCTS, N.O.S.	3	III	360		G
			(#2 OIL KEROSENE, GASOLINE & WATER)					
			ERG 128					
			Received					

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

PLACARDS REQUIRED FLAMMABLE PLACARDS SUPPLIED ☐ BY SHIPPER ☒ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: EXXON MOBIL
PER: _____ DATE: 12/18/17

CARRIER: AUCHTER INDUSTRIAL VAC SERVICE, INC.
PER: _____ DATE: 12/18/17

EMERGENCY RESPONSE TELEPHONE NUMBER: 908-862-2277

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

431 (Rev. 3/17)

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

2

AUCHTER INDUSTRIAL VAC SERVICE INC.

4801South Wood Avenue, Linden, N.J. 07036
(908) 862-2277

JOB - Brown water for re [illegible] **FOR:** Power Condition Of

Date 12/02/20 Day Mon			A.I.V. Shop From - 05:30	Hours To -	A.I.V. Shop
Supervisor	**Hours**	**Overtime**	**Operators**	**Hours**	**Overtime**
			Paul Brown		
Foreman:					
Laborers Paul			Equipment:		
210 Super			EP 4 axle		IN 05:30
EP 92242			4 yd Gallon Canary		OUT 11:30
[illegible] 24 inch			Top Gun Blue		IN
			Veteran Blue		OUT

Remarks: Brown water to [illegible] from Hamilton Ave. Vac 1- 8 yd tote to dump then to Clean Water Specialist

A.I.V. Rep. [signature] Customer Rep. X [signature]

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. 32244

Carrier AUCHTER INDUSTRIAL VAC SERVICE, INC. 4801 S. WOOD AVE. - LINDEN, NJ 07036 SCAC _____ Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations:

at _____, date 12/27/17 from tanks

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:			FROM:		
Consignee	EXXON MOBIL		Shipper	EXXON MOBIL	
Street	400 KINGSLAND AVE		Street	39-14 REVIEW AVE	
Destination	BROOKLYN, NY	Zip 11222	Origin	LONG ISLAND CITY, NY	Zip 11101

Route TRUCK

Delivering Carrier AUCHTER INDUSTRIAL Vehicle Number 10 U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT	X	UN1268	PETROLEUM PRODUCTS, N.O.S.	3	III		495	G
			(#2 OIL KEROSENE, GASOLINE & WATER)					
			ERG 128					
			Received					

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per X

PLACARDS REQUIRED FLAMMABLE PLACARDS SUPPLIED ☐ BY SHIPPER ☒ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: EXXON MOBIL
PER: X _____ DATE: 12/27/17

CARRIER: AUCHTER INDUSTRIAL VAC SERVICE, INC.
PER: Oscar Hoy DATE: _____

EMERGENCY RESPONSE TELEPHONE NUMBER: 908-862-2277

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

431 (Rev. 3/17)

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

2

AUCHTER INDUSTRIAL VAC SERVICE INC.

PM Ulnar

4801South Wood Avenue, Linden, N.J. 07036
(908) 862-2277

JOB - Vac out wells

FOR: Rock Brooklyn

Date 12/27/17 Day Wednesday

A.I.V. Shop Hours A.I.V. Shop
From - 0530 To -

Supervisor	Hours	Overtime	Operators	Hours	Overtime
			Oscar Hurtado		
Foreman:					
Laborers			Equipment:		
BOL # 32244			Truck # 10		IN 0715
			4000 gall. cap		OUT 0930
Talls			475 gall		IN
Goethals Bdg					OUT
Verrazano Bdg					

Remarks: Vac out tanks Run Load TO Greenpoint pump OFF on site

A.I.V. Rep. Oscar Hurtado Customer Rep. X

APPENDIX C

Well Sampling Data Forms

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel A

Well No: MW-1 Weather: 50F cloudy

Date: 11/16/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: CH/BC Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 7.07

Depth to Water(ft): 9.78 Volume of Water in Well (gal) 28.28

Depth to Bottom (ft): 16.85

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 8:42 Purge Rate: 150

End Purging: 9:20 Volume of Water Removed (gal): 3

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: Clear, Sulfuric odor

Samples Collected: (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)
(analyses / no. bottles)
Total Metals

Sample Time: 9:20:00 AM

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
8:44		9.82	6.24	3.710	0.0	0	17.13	-159
8:47		9.82	6.30	3.630	0.2	0	17.05	-169
8:40		9.82	6.32	3.530	0.0	0	17.11	-175
8:53		9.82	6.33	3.490	0.40	0	17.09	-184.00
8:56		9.82	6.34	3.510	0.0	0	17.02	-196
8:59		9.82	6.35	3.510	0	0	16.96	-213
9:02		9.82	6.35	3.550	0	0	16.96	-230
9:05		9.82	6.35	3.540	0	0	16.99	-245
9:08		9.82	6.36	3.530	0	0	16.98	-256
9:11		9.82	6.36	3.53	0.00	0	16.91	-263
9:14		9.82	6.37	3.53	0.00	0	16.86	-266
9:17		9.82	6.37	3.51	0.00	0	16.84	-269
9:20		9.82	6.37	3.51	0.00	0	16.79	-271

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel A

Well No: MW-4S Weather: 50F, cloudy

Date: 11/16/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: CH/BC Well Diameter / Type: 6" PVC Flushmount

Depth to Product (ft): ND Water Column (ft):

Depth to Water(ft): 7.49 Volume of Water in Well (gal)

Depth to Bottom (ft):

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 11:18 Purge Rate: 150

End Purging: 11:21 Volume of Water Removed (gal): 0

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: Started purage at 11:18 - heavey sheen observed in bucket and spearate container- not sampled

Samples Collected: (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)
(analyses / no. bottles)

Sample Time:

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel E

Well No: MW-6S Weather: 55F, cloudy

Date: 11/15/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: MD/BT Well Diameter / Type: 4 " PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 1.75

Depth to Water(ft): 22.15 Volume of Water in Well (gal) 7.00

Depth to Bottom (ft): 23.90

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 10:30 Purge Rate: 200

End Purging: 10:40 Volume of Water Removed (gal): 1/4

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: Sheen in ucket and separate container, not sampled

Samples Collected: (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)
(analyses / no. bottles)

Sample Time:

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
13:20		22.340	6.060	0.766	177.000	0.570	13.790	-56.00
13:25		22.440	6.070	0.761	155.000	0.000	14.110	-59.00
13:30		22.520	6.050	0.762	134.000	0.000	14.080	-64.00
13:35		22.720	6.020	0.763	135.000	0.000	14.130	-68.00

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel A

Well No: MW-8 Weather: 42F. clear

Date: 11/15/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: CH/BC Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 10.97

Depth to Water(ft): 6.11 Volume of Water in Well (gal) 43.88

Depth to Bottom (ft): 17.08

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 9:10 Purge Rate: 175

End Purging: 9:50 Volume of Water Removed (gal): 3

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: Clear after adjusting tubing, relative no odor, white pariculates. Pulled up grout with tubing at 12' -moved to 6' and turbidity went down

Samples Collected: (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)
(analyses / no. bottles)

Sample Time: 9:50

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
9:12		4.45	6.71	38.200	103.00	7	14.13	-249
9:15		4.46	6.82	37.400	94.20	3.46	14.62	-291
9:18		4.57	6.90	37.000	374.0	1.87	13.78	-293
9:21		4.57	6.95	38.40	158.00	1.47	13.35	-275.00
9:24		4.62	6.97	38.20	8.80	1.15	13.14	-261
9:27		4.63	6.98	38.00	0.00	0.92	13.06	-258
9:30		4.72	7	38.00	0.00	0.73	12.94	-260
9:33		4.72	7.01	38.2	0.00	0.5	12.92	-267
9:36		4.79	7.01	38.3	0.00	0.38	12.91	-272
9:39		4.81	7.02	38.7	0.00	0.16	12.89	-278
9:42		4.83	7.02	38.8	0.00	0.04	12.96	-281
9:45		4.89	7.01	38.7	0.00	0	0	-284

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel B

Well No: MW-10 Weather: rain

Date: 11/13/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: CH/ND Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 4.57

Depth to Water(ft): 8.50 Volume of Water in Well (gal) 18.28

Depth to Bottom (ft): 13.07

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 9:52 Purge Rate: 150

End Purging: 10:25 Volume of Water Removed (gal): 5

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: Clear No odor, Trucks came at 10- Paused Readings

Samples Collected: (analyses / no. bottles) (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)

Sample Time: 11:00:00 AM

Duplicate Sample: 11:10 (MS) 11:20 (MSD) Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
9:55		8.50	6.01	12.800	0.0	0	15.86	-70
10:05		8.48	6.16	3.340	0.0	6.44	17.42	-50
10:09		8.49	6.17	3.180	4.9	5.68	17.23	-54
10:12		5.47	6.16	3.11	28.70	5.12	17.29	-57.00
10:15		8.50	6.14	3.050	19.4	5.25	19.25	-57
10:18		8.49	6.13	3.00	16	4.43	17.15	-58
10:22		8.49	6.1	2.88	14	3.92	17.42	-49
10:25		8.49	6.1	2.86	14.30	3.57	17.51	-52

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel B

Well No: MW-11R Weather: 48F, clear

Date: 11/15/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: CH/BC Well Diameter / Type: 2" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 11.08

Depth to Water(ft): 5.76 Volume of Water in Well (gal) 22.16

Depth to Bottom (ft): 16.84

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 10:45 Purge Rate: 150

End Purging: 11:10 Volume of Water Removed (gal): 2

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: Clear, no suspended solids, strong oder (sulfuric)

Samples Collected: (analyses / no. bottles) (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)

Sample Time: 11:00:00 AM

Duplicate Sample: 11:10 (MS) 11:20 (MSD) Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
10:46		5.83	6.83	33.700	219.0	1.37	16.75	-292
10:49		5.86	6.76	34.600	95.5	0.33	16.83	-301
10:52		5.90	6.76	35.100	19.1	0.1	16.87	-310
10:55		5.93	6.78	36.10	0.00	0.00	17.01	-320.00
10:58		5.98	6.80	37.000	0.0	0	16.92	-331
11:01		6.01	6.75	36.30	0	0	16.99	-335
11:04		6.04	6.85	36.30	0	0	16.95	-336
11:07		6.08	6.76	36.2	0.00	0	16.94	-339
11:10		6.12	6.77	36.2	0.00	0	16.93	-340

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel B

Well No: MW-13 Weather: 40s, rain

Date: 11/13/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: CH/ND Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 4.78

Depth to Water(ft): 3.10 Volume of Water in Well (gal) 19.12

Depth to Bottom (ft): 7.88

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 8:09 Purge Rate: 150

End Purging: 8:43 Volume of Water Removed (gal): 3

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: Clear No odor

Samples Collected: (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)
(analyses / no. bottles)
Total Metals

Sample Time: 8:45:00 AM

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
8:14		3.15	7.16	1.850	69.2	0	16.4	-4
8:19		3.13	7.20	1.840	46.7	0	16.1	-31
8:22		3.12	7.19	1.830	43.9	0	15.91	-40
8:25		3.12	7.19	1.82	40.80	0.00	15.83	-50.00
8:28		3.12	7.18	1.800	35.9	0	15.65	-62
8:31		3.13	7.16	1.78	32	0	15.73	-71
8:34		3.12	7.15	1.76	29	0	15.92	-80
8:37		3.13	7.16	1.77	24.70	0	15.68	-86
8:40		3.13	7.16	1.76	22.70	0	15.65	-89
8:43		3.13	7.15	1.75	20.70	0	15.62	-93

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel A

Well No: MW-15 Weather: 50 F, cloudy

Date: 11/16/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: CF/BC Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 6.89

Depth to Water(ft): 11.42 Volume of Water in Well (gal) 27.56

Depth to Bottom (ft): 18.31

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 12:51 Purge Rate: 150

End Purging: 13:45 Volume of Water Removed (gal): 2

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: Clear, slight odor

Samples Collected: (analyses / no. bottles) (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)

Sample Time: 1:45:00 PM

Duplicate Sample: MS/MSD Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
12:54		11.650	6.060	3.730	0.000	1.230	16.300	-110.00
12:57		11.760	6.160	3.670	0.000	0.000	16.360	-117.00
13:00		11.860	6.210	3.610	0.000	0.000	16.240	-128.00
13:03		11.970	6.230	3.300	0.000	0.000	16.410	-132.00
13:06		12.060	6.260	2.990	0.000	0.000	16.480	-136.00
13:09		12.130	6.270	2.900	0.000	0.000	16.480	-137.00
13:12		12.190	6.270	2.860	0.000	0.000	16.550	-139.00
13:15		12.290	6.280	2.570	0.000	0.000	16.680	-140.00
13:18		12.370	6.290	2.330	19.000	0.000	16.870	-142.00
13:21		12.460	6.270	2.370	19.000	0.000	16.810	-139.00
13:24		12.55	6.29	2.09	19.50	0.000	16.81	-141.00
13:27		12.70	6.29	1.89	19.20	0	16.73	-142
13:30		12.78	6.29	1.78	19.70	0	16.92	-140
13:33		12.83	6.29	1.71	23.00	0	17.04	-140
13:36		12.89	6.29	1.66	24.60	0	17.09	-137
13:39		12.96	6.29	1.63	26.00	0	17.13	-137
13:42		13.13	6.29	1.59	28.40	0	17.12	-136
13:45		13.20	6.29	1.52	30.80	0	16.94	-136

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Review Avenue Sidewal

Well No: MW-20 Weather: 37 F, sunny, wind NNE 7-8mph

Date: 11/15/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: MD/BT Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft):

Depth to Water(ft): 24.64 Volume of Water in Well (gal)

Depth to Bottom (ft):

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 9:21 Purge Rate: <200

End Purging: 10:15 Volume of Water Removed (gal): 1

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments:

Samples Collected: (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)
(analyses / no. bottles)

Sample Time: 10:01:00 AM

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
9:30		24.810	5.730	2.420	47.700	6.430	14.050	41.00
9:35		24.930	5.880	2.410	28.400	6.150	13.850	32.00
9:40		24.900	5.890	2.380	28.100	5.870	13.140	10.00
9:45		25.060	5.890	2.030	69.900	5.090	13.930	5.00
9:50		25.100	5.900	1.890	50.600	4.660	13.460	-2.00
9:55		25.040	5.870	1.930	46.200	4.670	12.850	-4.00
10:00		25.050	5.900	1.930	47.000	4.530	12.620	-4.00

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: SW off of Parcel H

Well No: MW-21 Weather: 42F, partly cloudy

Date: 11/15/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: CH/BC Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 11.18

Depth to Water(ft): 14.65 Volume of Water in Well (gal) 44.72

Depth to Bottom (ft): 25.83

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 13:08 Purge Rate: 100

End Purging: 13:40 Volume of Water Removed (gal): 2

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: Clear, No odor

Samples Collected: (analyses / no. bottles) (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)

Sample Time: 1:40:00 PM

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
13:10		14.67	6.93	1.140	3.4	6.67	15.5	16
13:13		14.67	6.75	0.940	3.1	3.62	15.54	25
13:16		14.67	6.69	0.895	3.7	3.4	15.53	30
13:19		14.67	6.66	0.877	3.50	3.24	15.49	33.00
13:22		14.67	6.64	0.870	3.7	3.23	15.57	37
13:25		14.67	6.62	0.866	4	4.18	15.54	44
13:28		14.67	6.6	0.865	3	4.17	15.21	45
13:31		14.67	6.59	0.865	2.00	4.11	15.21	47
13:34		14.67	6.58	0.864	2.00	4.05	15.33	49
13:37		14.67	6.58	0.865	2.00	4.03	15.05	56
13:40		14.67	6.57	0.863	1.10	3.98	14.99	57

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel B

Well No: MW-29 Weather: 40 F, cloudy, light rain

Date: 11/13/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: MD/BT Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft):

Depth to Water(ft): 5.43 Volume of Water in Well (gal)

Depth to Bottom (ft):

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 11:40 Purge Rate: <200

End Purging: 12:54 Volume of Water Removed (gal): 4

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments:

Samples Collected: (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)
(analyses / no. bottles)

Sample Time: 11:08:00 AM

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
11:40		5.890	6.940	3.070	65.500	0.630	14.330	-31.00
11:45		5.990	6.870	2.990	48.100	0.000	14.800	-32.00
11:50		6.090	6.830	2.910	46.900	0.000	15.180	-33.00
11:55		6.130	6.800	2.850	41.300	0.000	15.270	-35.00
12:00		6.190	6.780	2.760	37.800	0.000	15.350	-38.00
12:05		6.190	6.760	2.700	35.400	0.000	15.510	-38.00
12:10		6.240	6.690	2.620	30.000	0.000	15.700	-39.00
12:15		6.240	6.67	2.57	25.50	0.000	15.57	-41
12:20		6.240	6.67	2.52	23.50	0.000	15.57	-42
12:25		6.240	6.65	2.47	20.70	0.000	15.6	-44
12:30		6.240	6.64	2.42	19.40	0.000	15.71	-45
12:35		6.24	6.64	2.39	18.90	0	15.71	-47
12:40		6.24	6.62	2.35	15.30	0	15.66	-47

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel B

Well No: MW-31 Weather: 43 F, raining

Date: 11/13/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: MD/BT Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 10.66

Depth to Water(ft): 1.52 Volume of Water in Well (gal) 42.64

Depth to Bottom (ft): 12.18

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 9:53 Purge Rate: <200

End Purging: 11:05 Volume of Water Removed (gal): 3

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: Clear, no apparent odor

Samples Collected: (analyses / no. bottles) (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)

Sample Time: 11:08:00 AM

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
9:55		1.680	5.550	7.190	16.400	0.150	13.210	-4.00
10:00		1.820	5.860	7.110	14.600	0.000	14.150	-29.00
10:05		1.960	6.010	7.090	11.100	0.000	14.730	-43.00
10:10		2.110	6.080	7.070	11.700	0.000	14.990	-5.00
10:15		2.390	6.190	7.060	12.900	0.000	14.970	-58.00
10:20		2.640	6.280	7.030	15.200	0.000	15.020	-63.00
10:25		2.790	6.320	7.010	16.300	0.000	14.950	-66.00
10:30		2.950	6.35	7	18.90	0	14.96	-69
10:35		3.14	6.37	6.99	19.70	0	15.01	-71
10:40		3.44	6.4	6.98	22.60	0	15.08	-74
10:45		3.51	6.44	7	24.30	0	14.68	-76
10:50		3.53	6.47	6.95	26.70	0	14.41	-77
10:55		3.65	6.46	6.99	25.80	0	14.78	-77

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel A

Well No: MW-28 Weather: 40 F, clear

Date: 11/17/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: CH/MD Well Diameter / Type: 4 " PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 7.25

Depth to Water(ft): 7.33 Volume of Water in Well (gal) 29.00

Depth to Bottom (ft): 14.58

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 9:05 Purge Rate: 150

End Purging: 10:10 Volume of Water Removed (gal): 4

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: Tea Colored, slight odor

Samples Collected: (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)
(analyses / no. bottles) Total Metals

Sample Time: 10:10:00 AM

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
9:10		7.370	6.170	2.460	38.000	0.020	15.050	44.00
9:15		7.380	6.160	2.460	26.500	0.000	15.250	18.00
9:20		7.380	6.150	2.460	23.300	0.000	15.540	-2.00
9:25		7.380	6.180	2.460	17.700	0.000	15.540	-22.00
9:30		7.380	6.180	2.460	15.100	0.000	15.630	-33.00
9:35		7.380	6.170	2.460	12.500	0.000	15.750	-42.00
9:40		7.380	6.170	2.480	11.100	0.000	15.630	-47.00
9:45		7.380	6.19	2.500	11.20	0.000	15.61	-56
9:50		7.380	6.17	2.470	97.00	0.000	15.98	-57
9:55		7.380	6.14	2.490	90.00	0.000	16.02	-66
10:00		7.380	6.15	2.500	89.00	0.000	16.07	-69
10:05		7.38	6.15	2.5	8.60	0	16.1	-70

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel A

Well No: MW-28D Weather: 40 F, clear

Date: 11/17/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: CH/MD Well Diameter / Type: 2" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 10.83

Depth to Water(ft): 9.60 Volume of Water in Well (gal) 43.32

Depth to Bottom (ft): 20.43

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 10:19 Purge Rate: 150

End Purging: 11:00 Volume of Water Removed (gal): 2

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments:

Samples Collected: (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)
(analyses / no. bottles) Total Metals

Sample Time: 10:10:00 AM

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
10:25		10.780	6.570	2.670	23.900	0.000	14.700	-70.00
10:30		12.560	6.640	2.630	25.200	0.000	15.100	-74.00
10:35		12.810	6.700	2.600	24.200	1.360	13.770	-73.00
10:40		13.430	6.780	2.640	24.700	0.900	13.540	-77.00
10:45		15.360	6.840	2.650	18.600	0.000	13.950	-76.00
10:55		16.400	6.800	2.630	19.200	0.000	13.850	-79.00
10:58		17.190	6.780	2.650	21.200	0.000	13.820	-80.00

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel A

Well No: MW-37 Weather: 52F, cloudy sw @8mph

Date: 11/16/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: BT/MD Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft):

Depth to Water(ft): 9.30 Volume of Water in Well (gal)

Depth to Bottom (ft):

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 8:23 Purge Rate: 150

End Purging: 9:25 Volume of Water Removed (gal): 2

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: Slight yellow color, mild odor

Samples Collected: (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)
(analyses / no. bottles) Total Metals

Sample Time: 9:10:00 AM

Duplicate Sample: Dup 11617 @ 8:00 Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
8:30		9.35	6.90	3.780	8.1	0	18.16	18
8:35		9.35	6.94	3.760	8.9	0	18.01	9
8:40		9.35	6.95	3.690	13.3	0	17.76	9
8:45		9.35	6.94	3.610	11.60	0	17.52	9.00
8:50		9.35	6.93	3.530	10.3	0	17.38	10
8:55		9.35	6.91	3.410	9.10	0	17.43	11
9:00		9.35	6.9	3.350	9.10	0	17.41	11
9:05		9.35	6.92	3.260	8.90	0	17.37	11

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel A

Well No: MW-40 Weather: 40s, rain

Date: 11/16/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: CH/BC Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 12.69

Depth to Water(ft): 10.03 Volume of Water in Well (gal) 50.76

Depth to Bottom (ft): 22.72

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 10:31 Purge Rate: 125

End Purging: 10:55 Volume of Water Removed (gal): 2

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: Cloudy, slight bio-sheen, soapy texture

Samples Collected: (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)
(analyses / no. bottles)
Total Metals

Sample Time: 10:55:00 AM

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
10:33		10.51	5.95	0.296	0.0	7.62	16.53	-116
10:36		10.52	5.97	0.280	0.0	5.44	16.3	-117
10:39		10.52	5.95	0.295	0.0	4.75	16.45	-114
10:42		10.52	5.93	0.298	0.00	0	17.40	-110.00
10:45		10.52	5.93	0.299	0.0	0	17.56	-109
10:48		10.52	5.93	0.306	0	0	17.61	-109
10:51		10.52	5.95	0.355	0	0	17.62	-108
10:54		10.52	5.96	0.364	0	0	17.64	-109

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel A

Well No: MW-46 Weather: 42F, clear

Date: 11/15/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: CH/BC Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 10.97

Depth to Water(ft): 6.11 Volume of Water in Well (gal) 43.88

Depth to Bottom (ft): 17.08

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 8:12 Purge Rate: 125

End Purging: 8:35 Volume of Water Removed (gal): 2

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: Clear, slight odor

Samples Collected: (analyses / no. bottles) (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)

Sample Time: 8:35

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
8:16		6.53	6.08	30.300	0.0	0	16.2	-26
8:19		6.53	6.13	30.400	0.0	0	16.13	-24
8:22		6.55	6.14	30.600	0.0	0	16.03	-249
8:25		6.64	6.16	30.80	0.00	0.00	16.34	-258.00
8:28		6.73	6.16	30.80	0.0	0	16.36	-60
8:31		6.73	6.16	30.80	0	0	16.16	-63
8:34		6.81	6.17	30.80	0	0	16.2	-65

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel B

Well No: MW-49D Weather: 45 F, raining

Date: 11/13/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: MD/BT Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 27.64

Depth to Water(ft): 11.46 Volume of Water in Well (gal) 110.56

Depth to Bottom (ft): 39.10

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 8:15 Purge Rate:

End Purging: 9:15 Volume of Water Removed (gal): 3

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: Clear, no apparent odor

Samples Collected: (analyses / no. bottles) (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)

Total Metals

Sample Time: 9:00:00 AM

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
8:20		11.490	5.740	0.318	5.000	0.300	16.060	47.00
8:25		11.510	5.690	0.313	5.400	0.000	16.110	15.00
8:30		11.510	5.650	0.311	6.400	0.000	15.940	-4.00
8:35		11.510	5.630	0.309	5.700	0.000	15.610	-12.00
8:40		11.510	5.630	0.310	6.600	0.000	15.640	-20.00
8:45		11.510	5.650	0.309	7.900	0.000	15.480	-27.00
8:50		11.510	5.670	0.308	7.900	0.000	15.370	-29.00
8:55		11.510	5.64	0.31	8.50	0	15.19	-30

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel B

Well No: MW-52 Weather: 40s, cloudy, slight rain

Date: 11/13/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: CH/ND Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 6.69

Depth to Water(ft): 7.50 Volume of Water in Well (gal) 26.76

Depth to Bottom (ft): 14.19

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 13:00 Purge Rate: 150

End Purging: 13:30 Volume of Water Removed (gal): 4

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: Clear No odor, Trucks came at 10- Paused Readings

Samples Collected: (analyses / no. bottles) (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)

Sample Time: 1340

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
13:04		7.48	6.93	23.600	0.0	0.81	15.5	-125
13:07		7.40	7.23	24.900	0.0	0	15.74	-215
13:10		7.35	7.27	26.000	0.0	0	16.12	-261
13:13		7.29	7.25	26.80	19.00	0.00	16.27	-274.00
13:17		7.28	7.24	26.900	11.3	0	16.45	-289
13:20		7.1	7.24	27.10	9	0	16.39	-297
13:23		7.05	7.24	27.20	9	0	16.56	-303
13:27		7.03	7.24	27.3	8.30	0	16.46	-308
13:30		~~6.98~~	~~6.93~~	27.3	8.00	0	16.5	-310

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel A

Well No: MW-55 Weather: 55 F, cloudy

Date: 11/16/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: MD/BT Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): Water Column (ft):

Depth to Water(ft): 5.95 Volume of Water in Well (gal)

Depth to Bottom (ft):

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: Purge Rate:

End Purging: Volume of Water Removed (gal):

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: LNAPL on probe, sock reinstalled

Samples Collected: (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)
(analyses / no. bottles)

Sample Time:

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	**DTP**	**DTW**	**pH**	**Conductivity**	**Turbidity**	**Dissolved O_2**	**Temperature**	**ORP**
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel 1

Well No: MW-59 Weather: 37 F, sunny, wind NNE 7-8mph

Date: 11/15/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: MD/BT Well Diameter / Type: 2" PVC Flushmount

Depth to Product (ft): ND Water Column (ft):

Depth to Water(ft): 22.14 Volume of Water in Well (gal)

Depth to Bottom (ft):

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 10:55 Purge Rate: 200

End Purging: 12:00 Volume of Water Removed (gal): 2

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: Clear, no odor

Samples Collected: (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)
(analyses / no. bottles)

Sample Time: 11:51:00 AM

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
11:00		22.120	6.510	0.667	70.800	1.500	13.800	50.00
11:05		22.120	6.230	0.703	49.400	0.000	14.440	45.00
11:10		22.120	6.170	0.726	24.500	0.000	14.600	42.00
11:15		22.120	6.150	0.735	17.800	0.000	14.670	29.00
11:20		22.120	6.120	0.750	8.900	0.000	14.600	35.00
11:25		22.120	6.110	0.755	8.400	0.000	14.780	32.00
11:30		22.120	6.100	0.761	6.500	0.000	14.790	28.00
11:35		22.120	6.08	0.772	5.20	0.000	14.85	26
11:40		22.120	6.08	0.778	4.90	0.000	14.85	23
11:45		22.120	6.07	0.78	4.70	0.000	14.84	23

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel E

Well No: MW-60D Weather: 37 F, sunny, wind NNE 8mph

Date: 11/15/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: MD/BT Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft):

Depth to Water(ft): 20.93 Volume of Water in Well (gal)

Depth to Bottom (ft):

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 8:00 Purge Rate:

End Purging: Volume of Water Removed (gal):

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments:

Samples Collected: (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)
(analyses / no. bottles) Total Metals

Sample Time: 8:45:00 AM

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
8:05		20.910	6.420	0.850	11.900	1.410	15.440	131.00
8:10		20.910	6.570	0.907	11.600	0.800	14.420	124.00
8:15		20.910	6.560	0.948	10.200	0.470	13.620	120.00
8:20		20.910	6.490	0.968	10.400	0.140	13.000	118.00
8:25		20.910	6.480	0.979	9.500	0.010	12.600	118.00
8:30		20.910	6.450	0.999	9.600	0.000	12.220	116.00
8:35		20.910	6.470	1.010	10.000	0.000	12.000	116.00
8:40		20.910	6.46	1.010	9.70	0.000	11.88	114

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel H - Inside warehouse

Well No: MW-69 Weather: 53 F, partly sunny

Date: 11/16/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: BT/MD Well Diameter / Type: 2" PVC Flushmount

Depth to Product (ft): ND Water Column (ft):

Depth to Water(ft): 18.91 Volume of Water in Well (gal)

Depth to Bottom (ft):

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 11:39 Purge Rate: 150

End Purging: 1:15 Volume of Water Removed (gal): 2

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: Clear, odorless, color less

Samples Collected: (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)
(analyses / no. bottles) Total Metals

Sample Time: 12:35:00 PM

Duplicate Sample: MS/MSD Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
11:45		18.940	7.220	0.978	9.600	3.810	14.550	81.000
11:50		18.940	7.100	1.000	15.900	4.350	14.620	82.000
11:55		18.940	7.050	1.020	15.300	5.100	14.790	85.000
12:00		18.940	7.000	1.030	23.800	4.800	14.770	88.000
12:05		18.940	6.970	1.030	25.400	4.650	14.810	89.000
12:10		18.950	6.960	1.040	19.700	4.520	14.840	92.000
12:15		18.960	9.940	1.040	18.500	4.910	14.860	93.000
12:20		18.960	6.930	1.050	15.000	4.840	14.860	95.000
12:25		18.960	6.930	1.050	14.800	4.720	14.840	96.000
12:30		18.960	6.940	1.050	14.100	4.650	14.840	97.000

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel G

Well No: MW-67 Weather: 42F, clear

Date: 11/15/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: CH/BC Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft):

Depth to Water(ft): 13.23 Volume of Water in Well (gal)

Depth to Bottom (ft):

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: Purge Rate:

End Purging: Volume of Water Removed (gal):

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments: Producted detected on intial gauge, was not purged, was not sampled. Sock installed.

Samples Collected: (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)
(analyses / no. bottles)

Sample Time:

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
10:46		5.83	6.83	33.700	219.0	1.37	16.75	-292
10:49		5.86	6.76	34.600	95.5	0.33	16.83	-301
10:52		5.90	6.76	35.100	19.1	0.1	16.87	-310
10:55		5.93	6.78	36.10	0.00	0.00	17.01	-320.00
10:58		5.98	6.80	37.000	0.0	0	16.92	-331
11:01		6.01	6.75	36.30	0	0	16.99	-335
11:04		6.04	6.85	36.30	0	0	16.95	-336
11:07		6.08	6.76	36.2	0.00	0	16.94	-339
11:10		6.12	6.77	36.2	0.00	0	16.93	-340

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel D

Well No: MW-62 Weather: 47 F, cloudy

Date: 11/13/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: MD/BT Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft):

Depth to Water(ft): 6.49 Volume of Water in Well (gal)

Depth to Bottom (ft):

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 14:11 Purge Rate: <200

End Purging: Volume of Water Removed (gal):

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments:

Samples Collected: (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)
(analyses / no. bottles)

Sample Time: 3:00:00 PM

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
14:15		6.840	7.140	0.489	49.400	0.820	16.540	19.00
14:20		7.150	6.950	0.478	36.400	0.000	16.990	17.00
14:25		7.420	6.890	0.478	31.900	0.000	17.180	12.00
14:30		7.700	6.840	0.478	32.600	0.000	17.240	7.00
14:35		7.970	6.810	0.478	33.600	0.000	17.250	4.00
14:40		8.250	6.790	0.478	35.800	0.000	17.330	1.00
14:45		8.580	6.770	0.478	40.200	0.000	17.380	-2.00
14:50		8.930	6.75	0.479	43.90	0.000	17.44	-5
14:55			6.75	0.479	43.80	0.000	17.48	-7

Well Sampling Purge Log

Client: ExxonMobil FPOW **Project Number:** 0172.0291Y003

Site Location: Parcel E

Well No: MW-63 Weather: 42F, clear

Date: 11/15/2017 Purge Water Disposal: 55-gallon drum for transport

Sampled By: MD/BT Well Diameter / Type: 4" PVC Flushmount

Depth to Product (ft): ND Water Column (ft): 1.75

Depth to Water(ft): 22.15 Volume of Water in Well (gal) 7.00

Depth to Bottom (ft): 23.90

Well Diameter:	1 in	2 in	4 in	6 in	8 in
Gallons per Foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 12:53 Purge Rate: 100

End Purging: 13:52 Volume of Water Removed (gal): 1

Method of Purge: Low-Flow Method of Sampling: Low-Flow

Physical Appearance/ Comments:

Samples Collected: (x3) VOC, (x1) SVOC, (x2) Metals (plus mercury)
(analyses / no. bottles) Dissolved Metals

Sample Time: 1:39:00 PM

Duplicate Sample: Laboratory : Lancaster Laboratories

Field Measurements:

Time	DTP	DTW	pH	Conductivity	Turbidity	Dissolved O_2	Temperature	ORP
	ft	ft	SU	mS/cm - S/m	NTU	mg/L	C^o	mV
--	--	--	+/- 0.1 unit	3%	10%	10%	3%	+/- 10 unit
13:20		22.340	6.060	0.766	177.000	0.570	13.790	-56.00
13:25		22.440	6.070	0.761	155.000	0.000	14.110	-59.00
13:30		22.520	6.050	0.762	134.000	0.000	14.080	-64.00
13:35		22.720	6.020	0.763	135.000	0.000	14.130	-68.00

APPENDIX D

Groundwater Sampling Documentation and Laboratory Analytical Data

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2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv



ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

ExxonMobil c/o Roux Associates
209 Shafter Street
Islandia NY 11749

Report Date: December 20, 2017 12:17

Project: FPOW

Account #: 13438
Group Number: 1876058
SDG: POW01
PO Number: 0172.0291Y003
State of Sample Origin: NY

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To	Roux Associates	Attn: Tally Sodre
Electronic Copy To	Roux Associates	Attn: Brandon Tufano

Respectfully Submitted,

Megan A. Moeller
Senior Specialist

(717) 556-7261



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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
MW-13 Grab Groundwater	11/13/2017 08:45	9320906
MW-10 Grab Groundwater	11/13/2017 11:00	9320907
MW-10 MS Grab Groundwater	11/13/2017 11:10	9320908
MW-10 MSD Grab Groundwater	11/13/2017 11:20	9320909
MW-10 DUP Grab Groundwater	11/13/2017 11:00	9320910
MW-52 Grab Groundwater	11/13/2017 13:00	9320911
MW-49D Grab Groundwater	11/13/2017 09:00	9320912
MW-31 Grab Groundwater	11/13/2017 11:08	9320913
MW-29 Grab Groundwater	11/13/2017 12:45	9320914
MW-62 Grab Groundwater	11/13/2017 15:00	9320915
TB17311 Water	11/08/2017	9320916
DUP111317 Grab Groundwater	11/13/2017 09:05	9320917
FB111317 Grab Water	11/13/2017 14:45	9320918
MW-46 Grab Groundwater	11/15/2017 08:35	9320919
MW-8 Grab Groundwater	11/15/2017 09:50	9320920
MW-11R Grab Groundwater	11/15/2017 11:10	9320921
MW-21 Grab Groundwater	11/15/2017 13:50	9320922
MW-60D Grab Groundwater	11/15/2017 08:45	9320923
MW-20 Grab Groundwater	11/15/2017 10:01	9320924
MW-59 Grab Groundwater	11/15/2017 11:51	9320927

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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Project Name: FPOW
ELLE Group #: 1876058

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below.

Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set.

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

For dual column analyses, the surrogate (for multi-surrogate tests, at least one surrogate) must be within the acceptance limits on at least one of the two columns.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

SW-846 8260C, GC/MS Volatiles

Batch #: L173242AA (Sample number(s): 9320906-9320909, 9320911-9320924 UNSPK: 9320907)

The recovery(ies) for the following analyte(s) in the MS and/or MSD exceeded the acceptance window indicating a positive bias: 1,1-Dichloroethene

SW-846 8270D, GC/MS Semivolatiles

Sample #s: 9320906, 9320907, 9320908, 9320909, 9320911, 9320912, 9320913, 9320914, 9320915, 9320917, 9320918, 9320919, 9320920, 9320921, 9320923, 9320924, 9320927

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is not compliant. All results are reported from the first trial. Similar results were obtained in both trials.

Sample #s: 9320922

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is not compliant. All results are reported from the first trial. Similar results were obtained in both trials.

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

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Batch #: 17320WAS026 (Sample number(s): 9320906-9320909, 9320911-9320915, 9320917-9320924, 9320927 UNSPK: 9320907)

The recovery(ies) for the following analyte(s) in the LCS were below the acceptance window: 1,1'-Biphenyl, Hexachlorocyclopentadiene, 2-Chloronaphthalene, Acenaphthylene, Acenaphthene, Phenanthrene, Anthracene, Indeno(1,2,3-cd)pyrene, Carbazole, Atrazine, Caprolactam, Benzaldehyde

The recovery(ies) for the following analyte(s) in the MS and/or MSD were below the acceptance window: 1,1'-Biphenyl, 2-Chlorophenol, Acenaphthylene, Anthracene, Pyrene, Benzo(k)fluoranthene, Benzo(a)pyrene, Atrazine, Caprolactam, Benzaldehyde

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside acceptance windows: Benzaldehyde

The recovery(ies) for one or more surrogates were below the acceptance window for sample(s) 9320922

SW-846 6010C, Metals

Batch #: 173201063504 (Sample number(s): 9320912, 9320915, 9320919, 9320921, 9320924 UNSPK: P319633 BKG: P319633)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Antimony

Batch #: 173211063501 (Sample number(s): 9320914, 9320917-9320918, 9320920, 9320922-9320923, 9320927 UNSPK: 9320920 BKG: 9320920)

The recovery(ies) for the following analyte(s) in the MS and/or MSD exceeded the acceptance window indicating a positive bias: Magnesium, Potassium

The recovery(ies) for the following analyte(s) in the MS and/or MSD were below the acceptance window: Sodium, Selenium, Magnesium

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Arsenic

Batch #: 173211063504 (Sample number(s): 9320906-9320911, 9320913 UNSPK: 9320907 BKG: 9320907)

The recovery(ies) for the following analyte(s) in the MS and/or MSD exceeded the acceptance window indicating a positive bias: Iron

The recovery(ies) for the following analyte(s) in the MS and/or MSD were below the acceptance window: Calcium, Iron, Magnesium, Sodium

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Lead

Sample Description: **MW-13 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 08:45
SDG#: POW01-01

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320906
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	1,4-Dioxane	123-91-1	N.D.	70	250	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-13 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 08:45
SDG#: POW01-01

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320906
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	0.1 J	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	0.1 J	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1

Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: **MW-13 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 08:45
SDG#: POW01-01

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320906
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	0.2 J	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-13 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 08:45
SDG#: POW01-01

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320906
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	0.2 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is not compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	1,530	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	207,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	6.4 J	4.0	20.0	1
01754	Iron	7439-89-6	3,110	80.5	400	1
07055	Lead	7439-92-1	8.7 J	6.0	30.0	1
01757	Magnesium	7439-95-4	22,700	37.4	200	1
07058	Manganese	7439-96-5	528	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	35,400	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	155,000	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	29.1 J	6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-13 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 08:45
SDG#: POW01-01

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320906
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173242AA	11/20/2017 17:11	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173242AA	11/20/2017 17:11	Kathrine K Muramatsu	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17320WAS026	11/29/2017 05:24	Edward C Monborne	1
11010	8270D BNA Extraction	SW-846 3510C	1	17320WAS026	11/17/2017 19:11	Christine E Gleim	1
01743	Aluminum	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
07022	Thallium	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173211063504	11/29/2017 22:46	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173210571304	11/21/2017 07:54	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173211063504	11/19/2017 03:59	Lisa J Cooke	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173210571304	11/20/2017 17:45	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:00
SDG#: POW01-02BKG

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320907
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	1,4-Dioxane	123-91-1	N.D.	70	250	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:00
SDG#: POW01-02BKG

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320907
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1

Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:00
SDG#: POW01-02BKG

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320907
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:00
SDG#: POW01-02BKG

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320907
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	0.2 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is not compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	237	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	124,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	13,900	80.5	400	1
07055	Lead	7439-92-1	12.5 J	6.0	30.0	1
01757	Magnesium	7439-95-4	53,300	37.4	200	1
07058	Manganese	7439-96-5	539	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	25,200	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	389,000	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:00
SDG#: POW01-02BKG

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320907
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173242AA	11/20/2017 16:06	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173242AA	11/20/2017 16:06	Kathrine K Muramatsu	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17320WAS026	11/29/2017 05:51	Edward C Monborne	1
11010	8270D BNA Extraction	SW-846 3510C	1	17320WAS026	11/17/2017 19:11	Christine E Gleim	1
01743	Aluminum	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173211063504	12/01/2017 01:19	Jonathan J Allen	1
07036	Selenium	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
07022	Thallium	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173211063504	11/29/2017 22:25	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173210571304	11/21/2017 07:40	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173211063504	11/19/2017 03:59	Lisa J Cooke	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173210571304	11/20/2017 17:45	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 MS Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:10
SDG#: POW01-02MS

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320908
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	190	6	20	1
11997	Benzene	71-43-2	22	0.5	1	1
11997	Bromochloromethane	74-97-5	21	1	5	1
11997	Bromodichloromethane	75-27-4	20	0.5	1	1
11997	Bromoform	75-25-2	18	0.5	4	1
11997	Bromomethane	74-83-9	21	0.5	1	1
11997	2-Butanone	78-93-3	130	3	10	1
11997	Carbon Disulfide	75-15-0	23	1	5	1
11997	Carbon Tetrachloride	56-23-5	20	0.5	1	1
11997	Chlorobenzene	108-90-7	21	0.5	1	1
11997	Chloroethane	75-00-3	20	0.5	1	1
11997	Chloroform	67-66-3	22	0.5	1	1
11997	Chloromethane	74-87-3	20	0.5	1	1
11997	Cyclohexane	110-82-7	22	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	17	2	5	1
11997	Dibromochloromethane	124-48-1	19	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	20	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	20	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	20	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	20	1	5	1
11997	Dichlorodifluoromethane	75-71-8	22	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	21	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	21	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	26	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	23	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	24	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	21	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	19	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	18	0.5	1	1
11997	1,4-Dioxane	123-91-1	420	70	250	1
11997	Ethylbenzene	100-41-4	22	0.5	1	1
11997	Freon 113	76-13-1	26	2	10	1
11997	2-Hexanone	591-78-6	97	3	10	1
11997	Isopropylbenzene	98-82-8	22	1	5	1
11997	Methyl Acetate	79-20-9	17	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	20	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	96	3	10	1
11997	Methylcyclohexane	108-87-2	23	1	5	1
11997	Methylene Chloride	75-09-2	22	0.5	1	1
11997	Styrene	100-42-5	22	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 MS Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:10
SDG#: POW01-02MS

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320908
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**		**ug/l**	**ug/l**	
11997	1,1,2,2-Tetrachloroethane	79-34-5	19		0.5	1	1
11997	Tetrachloroethene	127-18-4	23		0.5	1	1
11997	Toluene	108-88-3	22		0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	17		1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	18		1	5	1
11997	1,1,1-Trichloroethane	71-55-6	21		0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	20		0.5	1	1
11997	Trichloroethene	79-01-6	22		0.5	1	1
11997	Trichlorofluoromethane	75-69-4	23		0.5	1	1
11997	Vinyl Chloride	75-01-4	22		0.5	1	1
11997	m+p-Xylene	179601-23-1	44		0.5	1	1
11997	o-Xylene	95-47-6	21		0.5	1	1
11997	Xylene (Total)	1330-20-7	65		0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**		**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	36		0.1	0.5	1
14241	Acenaphthylene	208-96-8	33		0.1	0.5	1
14241	Acetophenone	98-86-2	38		0.5	1	1
14241	Anthracene	120-12-7	38		0.1	0.5	1
14241	Atrazine	1912-24-9	6		2	5	1
14241	Benzaldehyde	100-52-7	1	J	1	5	1
14241	Benzo(a)anthracene	56-55-3	42		0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	35		0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	38		0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	35		0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	37		0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	34		0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	45		0.5	1	1
14241	Butylbenzylphthalate	85-68-7	41		2	5	1
14241	Di-n-butylphthalate	84-74-2	43		2	5	1
14241	Caprolactam	105-60-2	N.D.		5	15	1
14241	Carbazole	86-74-8	41		0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	47		0.5	1	1
14241	4-Chloroaniline	106-47-8	30		2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	43		0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	36		0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	31		0.5	1	1

Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 MS Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:10
SDG#: POW01-02MS

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320908
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**		**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	33		0.4	1	1
14241	2-Chlorophenol	95-57-8	33		0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	43		0.5	1	1
14241	Chrysene	218-01-9	41		0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	36		0.1	0.5	1
14241	Dibenzofuran	132-64-9	38		0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	26		2	5	1
14241	2,4-Dichlorophenol	120-83-2	41		0.5	1	1
14241	Diethylphthalate	84-66-2	39		2	5	1
14241	2,4-Dimethylphenol	105-67-9	36		0.5	1	1
14241	Dimethylphthalate	131-11-3	39		2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	40		5	15	1
14241	2,4-Dinitrophenol	51-28-5	86		10	30	1
14241	2,4-Dinitrotoluene	121-14-2	40		1	5	1
14241	2,6-Dinitrotoluene	606-20-2	44		0.5	1	1
14241	1,4-Dioxane	123-91-1	17		1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	39		2	5	1
14241	Fluoranthene	206-44-0	42		0.1	0.5	1
14241	Fluorene	86-73-7	39		0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	42		0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	36		0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	10	J	5	15	1
14241	Hexachloroethane	67-72-1	27		1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	35		0.1	0.5	1
14241	Isophorone	78-59-1	42		0.5	1	1
14241	2-Methylnaphthalene	91-57-6	35		0.1	0.5	1
14241	2-Methylphenol	95-48-7	36		0.5	1	1
14241	4-Methylphenol	106-44-5	37		0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
14241	Naphthalene	91-20-3	34		0.1	0.5	1
14241	2-Nitroaniline	88-74-4	42		0.5	1	1
14241	3-Nitroaniline	99-09-2	36		0.5	1	1
14241	4-Nitroaniline	100-01-6	34		0.5	1	1
14241	Nitrobenzene	98-95-3	40		0.5	1	1
14241	2-Nitrophenol	88-75-5	43		0.5	1	1
14241	4-Nitrophenol	100-02-7	20	J	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	38		0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	39		0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 MS Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:10
SDG#: POW01-02MS

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320908
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	40	2	5	1
14241	Pentachlorophenol	87-86-5	46	1	5	1
14241	Phenanthrene	85-01-8	38	0.1	0.5	1
14241	Phenol	108-95-2	27	0.5	1	1
14241	Pyrene	129-00-0	37	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	34	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	48	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	45	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	46	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is not compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	2,000	89.4	400	1
07044	Antimony	7440-36-0	533	8.7	40.0	1
07035	Arsenic	7440-38-2	148	9.6	40.0	1
07046	Barium	7440-39-3	2,200	0.85	10.0	1
07047	Beryllium	7440-41-7	50.1	2.0	10.0	1
07049	Cadmium	7440-43-9	49.6	1.8	10.0	1
01750	Calcium	7440-70-2	125,000	60.0	400	1
07051	Chromium	7440-47-3	202	3.3	30.0	1
07052	Cobalt	7440-48-4	497	1.7	10.0	1
07053	Copper	7440-50-8	270	4.0	20.0	1
01754	Iron	7439-89-6	15,200	80.5	400	1
07055	Lead	7439-92-1	165	6.0	30.0	1
01757	Magnesium	7439-95-4	54,200	37.4	200	1
07058	Manganese	7439-96-5	1,030	1.6	10.0	1
07061	Nickel	7440-02-0	495	4.0	20.0	1
01762	Potassium	7440-09-7	33,800	179	1,000	1
07036	Selenium	7782-49-2	141	9.3	40.0	1
07066	Silver	7440-22-4	48.6	2.4	10.0	1
01767	Sodium	7440-23-5	392,000	321	2,000	1
07022	Thallium	7440-28-0	139	13.7	60.0	1
07071	Vanadium	7440-62-2	534	1.6	10.0	1
07072	Zinc	7440-66-6	498	6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 MS Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:10
SDG#: POW01-02MS

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320908
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	0.97	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173242AA	11/20/2017 16:28	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173242AA	11/20/2017 16:28	Kathrine K Muramatsu	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17320WAS026	11/29/2017 06:19	Edward C Monborne	1
11010	8270D BNA Extraction	SW-846 3510C	1	17320WAS026	11/17/2017 19:11	Christine E Gleim	1
01743	Aluminum	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
07022	Thallium	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173211063504	11/29/2017 22:36	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173210571304	11/21/2017 07:44	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173211063504	11/19/2017 03:59	Lisa J Cooke	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173210571304	11/20/2017 17:45	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 MSD Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:20
SDG#: POW01-02MSD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320909
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	170	6	20	1
11997	Benzene	71-43-2	21	0.5	1	1
11997	Bromochloromethane	74-97-5	21	1	5	1
11997	Bromodichloromethane	75-27-4	19	0.5	1	1
11997	Bromoform	75-25-2	17	0.5	4	1
11997	Bromomethane	74-83-9	21	0.5	1	1
11997	2-Butanone	78-93-3	120	3	10	1
11997	Carbon Disulfide	75-15-0	23	1	5	1
11997	Carbon Tetrachloride	56-23-5	21	0.5	1	1
11997	Chlorobenzene	108-90-7	21	0.5	1	1
11997	Chloroethane	75-00-3	21	0.5	1	1
11997	Chloroform	67-66-3	21	0.5	1	1
11997	Chloromethane	74-87-3	21	0.5	1	1
11997	Cyclohexane	110-82-7	22	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	17	2	5	1
11997	Dibromochloromethane	124-48-1	19	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	20	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	20	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	20	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	20	1	5	1
11997	Dichlorodifluoromethane	75-71-8	23	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	21	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	20	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	25	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	22	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	23	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	21	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	19	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	18	0.5	1	1
11997	1,4-Dioxane	123-91-1	390	70	250	1
11997	Ethylbenzene	100-41-4	21	0.5	1	1
11997	Freon 113	76-13-1	26	2	10	1
11997	2-Hexanone	591-78-6	94	3	10	1
11997	Isopropylbenzene	98-82-8	22	1	5	1
11997	Methyl Acetate	79-20-9	17	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	20	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	94	3	10	1
11997	Methylcyclohexane	108-87-2	23	1	5	1
11997	Methylene Chloride	75-09-2	21	0.5	1	1
11997	Styrene	100-42-5	21	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 MSD Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:20
SDG#: POW01-02MSD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320909
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	1,1,2,2-Tetrachloroethane	79-34-5	19	0.5	1	1
11997	Tetrachloroethene	127-18-4	22	0.5	1	1
11997	Toluene	108-88-3	21	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	17	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	18	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	21	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	20	0.5	1	1
11997	Trichloroethene	79-01-6	22	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	23	0.5	1	1
11997	Vinyl Chloride	75-01-4	21	0.5	1	1
11997	m+p-Xylene	179601-23-1	43	0.5	1	1
11997	o-Xylene	95-47-6	21	0.5	1	1
11997	Xylene (Total)	1330-20-7	64	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	34	0.1	0.5	1
14241	Acenaphthylene	208-96-8	31	0.1	0.5	1
14241	Acetophenone	98-86-2	36	0.5	1	1
14241	Anthracene	120-12-7	36	0.1	0.5	1
14241	Atrazine	1912-24-9	6	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	39	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	34	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	36	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	32	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	35	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	32	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	42	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	38	2	5	1
14241	Di-n-butylphthalate	84-74-2	41	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	40	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	44	0.5	1	1
14241	4-Chloroaniline	106-47-8	29	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	40	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	35	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	29	0.5	1	1

Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 MSD Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:20
SDG#: POW01-02MSD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320909
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**		**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	31		0.4	1	1
14241	2-Chlorophenol	95-57-8	30		0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	40		0.5	1	1
14241	Chrysene	218-01-9	39		0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	34		0.1	0.5	1
14241	Dibenzofuran	132-64-9	36		0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	25		2	5	1
14241	2,4-Dichlorophenol	120-83-2	36		0.5	1	1
14241	Diethylphthalate	84-66-2	37		2	5	1
14241	2,4-Dimethylphenol	105-67-9	34		0.5	1	1
14241	Dimethylphthalate	131-11-3	37		2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	36		5	15	1
14241	2,4-Dinitrophenol	51-28-5	77		10	30	1
14241	2,4-Dinitrotoluene	121-14-2	39		1	5	1
14241	2,6-Dinitrotoluene	606-20-2	42		0.5	1	1
14241	1,4-Dioxane	123-91-1	16		1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	36		2	5	1
14241	Fluoranthene	206-44-0	41		0.1	0.5	1
14241	Fluorene	86-73-7	37		0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	39		0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	35		0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	11	J	5	15	1
14241	Hexachloroethane	67-72-1	26		1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	34		0.1	0.5	1
14241	Isophorone	78-59-1	40		0.5	1	1
14241	2-Methylnaphthalene	91-57-6	33		0.1	0.5	1
14241	2-Methylphenol	95-48-7	33		0.5	1	1
14241	4-Methylphenol	106-44-5	35		0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
14241	Naphthalene	91-20-3	32		0.1	0.5	1
14241	2-Nitroaniline	88-74-4	40		0.5	1	1
14241	3-Nitroaniline	99-09-2	34		0.5	1	1
14241	4-Nitroaniline	100-01-6	33		0.5	1	1
14241	Nitrobenzene	98-95-3	37		0.5	1	1
14241	2-Nitrophenol	88-75-5	38		0.5	1	1
14241	4-Nitrophenol	100-02-7	19	J	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	36		0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	38		0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 MSD Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:20
SDG#: POW01-02MSD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320909
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	38	2	5	1
14241	Pentachlorophenol	87-86-5	40	1	5	1
14241	Phenanthrene	85-01-8	37	0.1	0.5	1
14241	Phenol	108-95-2	24	0.5	1	1
14241	Pyrene	129-00-0	35	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	32	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	43	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	40	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	39	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is not compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	1,990	89.4	400	1
07044	Antimony	7440-36-0	530	8.7	40.0	1
07035	Arsenic	7440-38-2	143	9.6	40.0	1
07046	Barium	7440-39-3	2,160	0.85	10.0	1
07047	Beryllium	7440-41-7	49.0	2.0	10.0	1
07049	Cadmium	7440-43-9	48.6	1.8	10.0	1
01750	Calcium	7440-70-2	123,000	60.0	400	1
07051	Chromium	7440-47-3	198	3.3	30.0	1
07052	Cobalt	7440-48-4	489	1.7	10.0	1
07053	Copper	7440-50-8	264	4.0	20.0	1
01754	Iron	7439-89-6	14,300	80.5	400	1
07055	Lead	7439-92-1	155	6.0	30.0	1
01757	Magnesium	7439-95-4	53,300	37.4	200	1
07058	Manganese	7439-96-5	1,000	1.6	10.0	1
07061	Nickel	7440-02-0	489	4.0	20.0	1
01762	Potassium	7440-09-7	33,300	179	1,000	1
07036	Selenium	7782-49-2	129	9.3	40.0	1
07066	Silver	7440-22-4	47.2	2.4	10.0	1
01767	Sodium	7440-23-5	389,000	321	2,000	1
07022	Thallium	7440-28-0	143	13.7	60.0	1
07071	Vanadium	7440-62-2	526	1.6	10.0	1
07072	Zinc	7440-66-6	491	6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 MSD Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:20
SDG#: POW01-02MSD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320909
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	0.93	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173242AA	11/20/2017 16:49	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173242AA	11/20/2017 16:49	Kathrine K Muramatsu	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17320WAS026	11/29/2017 06:46	Edward C Monborne	1
11010	8270D BNA Extraction	SW-846 3510C	1	17320WAS026	11/17/2017 19:11	Christine E Gleim	1
01743	Aluminum	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
07022	Thallium	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173211063504	11/29/2017 22:39	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173210571304	11/21/2017 07:46	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173211063504	11/19/2017 03:59	Lisa J Cooke	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173210571304	11/20/2017 17:45	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 DUP Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:00
SDG#: POW01-02DUP

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320910
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	233	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	123,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	13,800	80.5	400	1
07055	Lead	7439-92-1	8.5 J	6.0	30.0	1
01757	Magnesium	7439-95-4	53,000	37.4	200	1
07058	Manganese	7439-96-5	531	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	25,100	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	384,000	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1
	SW-846 7470A		**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10 DUP Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:00
SDG#: POW01-02DUP

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320910
ELLE Group #: 1876058
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173211063504	12/01/2017 01:27	Jonathan J Allen	1
07036	Selenium	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1
07022	Thallium	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173211063504	11/29/2017 22:32	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173210571304	11/21/2017 07:42	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173211063504	11/19/2017 03:59	Lisa J Cooke	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173210571304	11/20/2017 17:45	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-52 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 13:00
SDG#: POW01-03

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320911
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	1,4-Dioxane	123-91-1	N.D.	70	250	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-52 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 13:00
SDG#: POW01-03

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320911
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1

Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: **MW-52 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 13:00
SDG#: POW01-03

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320911
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	31	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	31	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-52 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 13:00
SDG#: POW01-03

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320911
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	0.2 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is not compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	89.0	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	223,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	6.2 J	4.0	20.0	1
01754	Iron	7439-89-6	N.D.	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	519,000	37.4	200	1
07058	Manganese	7439-96-5	115	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	188,000	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	4,550,000	6,420	40,000	20
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-52 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 13:00
SDG#: POW01-03

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320911
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173242AA	11/20/2017 17:33	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173242AA	11/20/2017 17:33	Kathrine K Muramatsu	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17320WAS026	11/29/2017 12:35	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17320WAS026	11/17/2017 19:11	Christine E Gleim	1
01743	Aluminum	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173211063504	12/01/2017 01:43	Jonathan J Allen	20
07022	Thallium	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173211063504	11/29/2017 22:50	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173210571304	11/21/2017 07:56	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173211063504	11/19/2017 03:59	Lisa J Cooke	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173210571304	11/20/2017 17:45	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-49D Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 09:00
SDG#: POW01-04

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320912
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	4 J	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	1,4-Dioxane	123-91-1	N.D.	70	250	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	1 J	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	1 J	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-49D Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 09:00
SDG#: POW01-04

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320912
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	0.1 J	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1

Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: **MW-49D Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 09:00
SDG#: POW01-04

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320912
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	0.1 J	0.1	0.5	1
14241	Fluorene	86-73-7	0.2 J	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-49D Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 09:00
SDG#: POW01-04

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320912
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	0.4 J	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	0.1 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is not compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	12.3 J	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	251	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	22,600	60.0	400	1
07051	Chromium	7440-47-3	4.7 J	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	50,400	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	5,790	37.4	200	1
07058	Manganese	7439-96-5	1,830	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	3,190	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	3.0 J	2.4	10.0	1
01767	Sodium	7440-23-5	8,770	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-49D Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 09:00
SDG#: POW01-04

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320912
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173242AA	11/20/2017 17:55	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173242AA	11/20/2017 17:55	Kathrine K Muramatsu	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17320WAS026	11/29/2017 13:03	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17320WAS026	11/17/2017 19:11	Christine E Gleim	1
01743	Aluminum	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
07044	Antimony	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
07035	Arsenic	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
07046	Barium	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
07047	Beryllium	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
07049	Cadmium	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
01750	Calcium	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
07051	Chromium	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
07052	Cobalt	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
07053	Copper	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
01754	Iron	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
07055	Lead	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
01757	Magnesium	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
07058	Manganese	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
07061	Nickel	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
01762	Potassium	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
07036	Selenium	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
07066	Silver	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
01767	Sodium	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
07022	Thallium	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
07071	Vanadium	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
07072	Zinc	SW-846 6010C	1	173201063504	11/27/2017 10:45	Patrick J Engle	1
00259	Mercury	SW-846 7470A	1	173200571305	11/18/2017 08:15	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173201063504	11/19/2017 23:56	Denise L Trimby	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173200571305	11/17/2017 19:15	Barbara A Kane	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-31 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:08
SDG#: POW01-05

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320913
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	1,4-Dioxane	123-91-1	N.D.	70	250	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-31 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:08
SDG#: POW01-05

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320913
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1

Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: **MW-31 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:08
SDG#: POW01-05

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320913
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	0.3 J	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-31 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:08
SDG#: POW01-05

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320913
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	0.2 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is not compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	249	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	373,000	60.0	400	1
07051	Chromium	7440-47-3	3.7 J	3.3	30.0	1
07052	Cobalt	7440-48-4	1.8 J	1.7	10.0	1
07053	Copper	7440-50-8	9.5 J	4.0	20.0	1
01754	Iron	7439-89-6	28,200	80.5	400	1
07055	Lead	7439-92-1	13.6 J	6.0	30.0	1
01757	Magnesium	7439-95-4	94,700	37.4	200	1
07058	Manganese	7439-96-5	2,220	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	88,800	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	777,000	1,610	10,000	5
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-31 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 11:08
SDG#: POW01-05

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320913
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173242AA	11/20/2017 18:17	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173242AA	11/20/2017 18:17	Kathrine K Muramatsu	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17320WAS026	11/29/2017 13:30	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17320WAS026	11/17/2017 19:11	Christine E Gleim	1
01743	Aluminum	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173211063504	12/01/2017 01:39	Jonathan J Allen	5
07022	Thallium	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173211063504	11/29/2017 23:00	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173210571304	11/21/2017 07:58	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173211063504	11/19/2017 03:59	Lisa J Cooke	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173210571304	11/20/2017 17:45	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-29 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 12:45
SDG#: POW01-06

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320914
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	2	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	1,4-Dioxane	123-91-1	N.D.	70	250	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	0.6 J	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-29 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 12:45
SDG#: POW01-06

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320914
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	2	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1

Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: **MW-29 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 12:45
SDG#: POW01-06

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320914
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	0.2 J	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-29 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 12:45
SDG#: POW01-06

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320914
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	N.D.	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is not compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	171	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	112,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	8,170	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	15,700	37.4	200	1
07058	Manganese	7439-96-5	571	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	26,800	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	321,000	321	2,000	1
07022	Thallium	7440-28-0	16.4 J	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-29 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 12:45
SDG#: POW01-06

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320914
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173242AA	11/20/2017 18:38	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173242AA	11/20/2017 18:38	Kathrine K Muramatsu	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17320WAS026	11/29/2017 13:58	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17320WAS026	11/17/2017 19:11	Christine E Gleim	1
01743	Aluminum	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
07044	Antimony	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
01750	Calcium	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	173211063501	11/22/2017 03:30	Jonathan J Allen	1
01754	Iron	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
01757	Magnesium	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
07058	Manganese	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
01762	Potassium	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
01767	Sodium	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
07071	Vanadium	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	173211063501	11/20/2017 17:50	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	173210571304	11/21/2017 08:00	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173211063501	11/17/2017 23:04	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173210571304	11/20/2017 17:45	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-62 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 15:00
SDG#: POW01-07

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320915
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.6 J	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	1	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	1,4-Dioxane	123-91-1	N.D.	70	250	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-62 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 15:00
SDG#: POW01-07

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320915
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	2	0.5	1	1
11997	Toluene	108-88-3	1	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	1	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1

Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: **MW-62 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 15:00
SDG#: POW01-07

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320915
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-62 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 15:00
SDG#: POW01-07

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320915
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	N.D.	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is not compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	135 J	89.4	400	1
07044	Antimony	7440-36-0	10.9 J	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	229	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	24.9	1.8	10.0	1
01750	Calcium	7440-70-2	75,800	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	13.8 J	4.0	20.0	1
01754	Iron	7439-89-6	5,420	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	7,090	37.4	200	1
07058	Manganese	7439-96-5	142	1.6	10.0	1
07061	Nickel	7440-02-0	10.2 J	4.0	20.0	1
01762	Potassium	7440-09-7	7,520	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	29,600	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	3.7 J	1.6	10.0	1
07072	Zinc	7440-66-6	123	6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-62 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 15:00
SDG#: POW01-07

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320915
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173242AA	11/20/2017 19:00	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173242AA	11/20/2017 19:00	Kathrine K Muramatsu	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17320WAS026	11/29/2017 14:25	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17320WAS026	11/17/2017 19:11	Christine E Gleim	1
01743	Aluminum	SW-846 6010C	1	173201063504	11/21/2017 19:31	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173201063504	11/21/2017 19:31	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173201063504	11/27/2017 10:49	Patrick J Engle	1
07046	Barium	SW-846 6010C	1	173201063504	11/21/2017 19:31	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173201063504	11/21/2017 19:31	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173201063504	11/21/2017 19:31	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173201063504	11/21/2017 19:31	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173201063504	11/21/2017 19:31	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173201063504	11/21/2017 19:31	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173201063504	11/21/2017 19:31	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	173201063504	11/21/2017 19:31	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173201063504	11/21/2017 19:31	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	173201063504	11/21/2017 19:31	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173201063504	11/21/2017 19:31	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173201063504	11/21/2017 19:31	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173201063504	11/27/2017 10:49	Patrick J Engle	1
07036	Selenium	SW-846 6010C	1	173201063504	11/27/2017 10:49	Patrick J Engle	1
07066	Silver	SW-846 6010C	1	173201063504	11/21/2017 19:31	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173201063504	11/27/2017 10:49	Patrick J Engle	1
07022	Thallium	SW-846 6010C	1	173201063504	11/21/2017 19:31	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173201063504	11/21/2017 19:31	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173201063504	11/21/2017 19:31	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173200571306	11/21/2017 07:16	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173201063504	11/19/2017 23:56	Denise L Trimby	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173200571306	11/20/2017 17:45	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **TB17311 Water**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/08/2017
SDG#: POW01-08TB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320916
ELLE Group #: 1876058
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	1,4-Dioxane	123-91-1	N.D.	70	250	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **TB17311 Water**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/08/2017
SDG#: POW01-08TB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320916
ELLE Group #: 1876058
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173242AA	11/20/2017 15:22	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173242AA	11/20/2017 15:22	Kathrine K Muramatsu	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP111317 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 09:05
SDG#: POW01-09FD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320917
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	2	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	1,4-Dioxane	123-91-1	N.D.	70	250	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	0.6 J	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP111317 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 09:05
SDG#: POW01-09FD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320917
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	2	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	0.2 J	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	0.2 J	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1

Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: **DUP111317 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 09:05
SDG#: POW01-09FD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320917
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	0.1 J	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	0.2 J	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP111317 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 09:05
SDG#: POW01-09FD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320917
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	0.2 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is not compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	18.5 J	9.6	40.0	1
07046	Barium	7440-39-3	177	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	112,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	2.0 J	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	8,390	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	15,100	37.4	200	1
07058	Manganese	7439-96-5	564	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	27,100	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	321,000	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP111317 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 09:05
SDG#: POW01-09FD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320917
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173242AA	11/20/2017 19:22	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173242AA	11/20/2017 19:22	Kathrine K Muramatsu	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17320WAS026	11/29/2017 14:53	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17320WAS026	11/17/2017 19:11	Christine E Gleim	1
01743	Aluminum	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
07044	Antimony	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
01750	Calcium	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	173211063501	11/22/2017 03:34	Jonathan J Allen	1
01754	Iron	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
01757	Magnesium	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
07058	Manganese	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
01762	Potassium	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
01767	Sodium	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
07071	Vanadium	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	173211063501	11/20/2017 17:54	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	173210571304	11/21/2017 08:02	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173211063501	11/17/2017 23:04	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173210571304	11/20/2017 17:45	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **FB111317 Grab Water**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 14:45
SDG#: POW01-10FB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320918
ELLE Group #: 1876058
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	1,4-Dioxane	123-91-1	N.D.	70	250	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **FB111317 Grab Water**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 14:45
SDG#: POW01-10FB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320918
ELLE Group #: 1876058
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1

Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: **FB111317 Grab Water**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 14:45
SDG#: POW01-10FB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320918
ELLE Group #: 1876058
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **FB111317 Grab Water**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 14:45
SDG#: POW01-10FB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320918
ELLE Group #: 1876058
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	N.D.	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is not compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	9.8 J	9.6	40.0	1
07046	Barium	7440-39-3	N.D.	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	N.D.	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	N.D.	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	N.D.	37.4	200	1
07058	Manganese	7439-96-5	N.D.	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	N.D.	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	418 J	321	2,000	1
07022	Thallium	7440-28-0	17.4 J	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **FB111317 Grab Water**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/13/2017 14:45
SDG#: POW01-10FB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320918
ELLE Group #: 1876058
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173242AA	11/20/2017 15:44	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173242AA	11/20/2017 15:44	Kathrine K Muramatsu	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17320WAS026	11/29/2017 15:21	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17320WAS026	11/17/2017 19:11	Christine E Gleim	1
01743	Aluminum	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
07044	Antimony	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
01750	Calcium	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	173211063501	11/22/2017 03:38	Jonathan J Allen	1
01754	Iron	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
01757	Magnesium	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
07058	Manganese	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
01762	Potassium	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
01767	Sodium	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
07071	Vanadium	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	173211063501	11/20/2017 17:58	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	173210571304	11/21/2017 08:04	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173211063501	11/17/2017 23:04	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173210571304	11/20/2017 17:45	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-46 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 08:35
SDG#: POW01-11

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320919
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	0.8 J	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.8 J	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	5	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	1,4-Dioxane	123-91-1	N.D.	70	250	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-46 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 08:35
SDG#: POW01-11

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320919
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.6 J	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	2	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	3	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	3	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	2	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	2	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	0.4 J	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1

Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: **MW-46 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 08:35
SDG#: POW01-11

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320919
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	4	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	2	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	0.3 J	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	1	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-46 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 08:35
SDG#: POW01-11

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320919
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	1	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is not compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	9.8 J	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	383	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	363,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	6.4 J	4.0	20.0	1
01754	Iron	7439-89-6	2,720	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	602,000	187	1,000	5
07058	Manganese	7439-96-5	251	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	200,000	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	5,020,000	6,420	40,000	20
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	108	6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-46 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 08:35
SDG#: POW01-11

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320919
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173242AA	11/20/2017 19:44	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173242AA	11/20/2017 19:44	Kathrine K Muramatsu	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17320WAS026	11/29/2017 15:48	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17320WAS026	11/17/2017 19:11	Christine E Gleim	1
01743	Aluminum	SW-846 6010C	1	173201063504	11/21/2017 19:35	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173201063504	11/21/2017 19:35	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173201063504	11/27/2017 10:52	Patrick J Engle	1
07046	Barium	SW-846 6010C	1	173201063504	11/21/2017 19:35	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173201063504	11/21/2017 19:35	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173201063504	11/21/2017 19:35	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173201063504	11/21/2017 19:35	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173201063504	11/21/2017 19:35	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173201063504	11/21/2017 19:35	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173201063504	11/21/2017 19:35	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	173201063504	11/21/2017 19:35	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173201063504	11/21/2017 19:35	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	173201063504	11/27/2017 10:57	Patrick J Engle	5
07058	Manganese	SW-846 6010C	1	173201063504	11/21/2017 19:35	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173201063504	11/21/2017 19:35	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173201063504	11/27/2017 10:52	Patrick J Engle	1
07036	Selenium	SW-846 6010C	1	173201063504	11/27/2017 10:52	Patrick J Engle	1
07066	Silver	SW-846 6010C	1	173201063504	11/21/2017 19:35	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173201063504	11/27/2017 11:26	Patrick J Engle	20
07022	Thallium	SW-846 6010C	1	173201063504	11/21/2017 19:35	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173201063504	11/21/2017 19:35	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173201063504	11/21/2017 19:35	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173200571305	11/18/2017 08:17	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173201063504	11/19/2017 23:56	Denise L Trimby	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173200571305	11/17/2017 19:15	Barbara A Kane	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-8 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 09:50
SDG#: POW01-12

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320920
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	1,4-Dioxane	123-91-1	N.D.	70	250	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-8 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 09:50
SDG#: POW01-12

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320920
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1

Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: **MW-8 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 09:50
SDG#: POW01-12

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320920
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-8 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 09:50
SDG#: POW01-12

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320920
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	0.1 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is not compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	20.0 J	9.6	40.0	1
07046	Barium	7440-39-3	40.1	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	264,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	N.D.	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	771,000	187	1,000	5
07058	Manganese	7439-96-5	53.2	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	265,000	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	6,650,000	6,420	40,000	20
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	12.2 J	6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-8 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 09:50
SDG#: POW01-12

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320920
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173242AA	11/20/2017 20:06	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173242AA	11/20/2017 20:06	Kathrine K Muramatsu	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17320WAS026	11/29/2017 16:16	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17320WAS026	11/17/2017 19:11	Christine E Gleim	1
01743	Aluminum	SW-846 6010C	1	173211063501	11/20/2017 16:25	Cindy M Gehman	1
07044	Antimony	SW-846 6010C	1	173211063501	11/20/2017 16:25	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	173211063501	11/20/2017 16:25	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	173211063501	11/20/2017 16:25	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	173211063501	11/20/2017 16:25	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	173211063501	11/20/2017 16:25	Cindy M Gehman	1
01750	Calcium	SW-846 6010C	1	173211063501	11/20/2017 16:25	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	173211063501	11/20/2017 16:25	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	173211063501	11/20/2017 16:25	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	173211063501	11/22/2017 02:27	Jonathan J Allen	1
01754	Iron	SW-846 6010C	1	173211063501	11/20/2017 16:25	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	173211063501	11/20/2017 16:25	Cindy M Gehman	1
01757	Magnesium	SW-846 6010C	1	173211063501	11/20/2017 18:12	Cindy M Gehman	5
07058	Manganese	SW-846 6010C	1	173211063501	11/20/2017 16:25	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	173211063501	11/20/2017 16:25	Cindy M Gehman	1
01762	Potassium	SW-846 6010C	1	173211063501	11/20/2017 16:25	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	173211063501	11/20/2017 16:25	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	173211063501	11/20/2017 16:25	Cindy M Gehman	1
01767	Sodium	SW-846 6010C	1	173211063501	11/22/2017 02:51	Jonathan J Allen	20
07022	Thallium	SW-846 6010C	1	173211063501	11/20/2017 16:25	Cindy M Gehman	1
07071	Vanadium	SW-846 6010C	1	173211063501	11/20/2017 16:25	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	173211063501	11/20/2017 16:25	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	173210571304	11/21/2017 08:07	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173211063501	11/17/2017 23:04	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173210571304	11/20/2017 17:45	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-11R Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 11:10
SDG#: POW01-13

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320921
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	1,4-Dioxane	123-91-1	N.D.	70	250	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-11R Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 11:10
SDG#: POW01-13

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320921
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1

Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: **MW-11R Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 11:10
SDG#: POW01-13

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320921
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	0.1 J	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-11R Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 11:10
SDG#: POW01-13

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320921
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	0.3 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is not compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	10.0 J	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	73.1	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	253,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	N.D.	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	713,000	187	1,000	5
07058	Manganese	7439-96-5	169	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	245,000	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	5,770,000	6,420	40,000	20
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-11R Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 11:10
SDG#: POW01-13

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320921
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173242AA	11/20/2017 20:28	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173242AA	11/20/2017 20:28	Kathrine K Muramatsu	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17320WAS026	11/29/2017 16:44	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17320WAS026	11/17/2017 19:11	Christine E Gleim	1
01743	Aluminum	SW-846 6010C	1	173201063504	11/21/2017 19:39	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173201063504	11/21/2017 19:39	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173201063504	11/27/2017 11:04	Patrick J Engle	1
07046	Barium	SW-846 6010C	1	173201063504	11/21/2017 19:39	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173201063504	11/21/2017 19:39	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173201063504	11/21/2017 19:39	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173201063504	11/21/2017 19:39	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173201063504	11/21/2017 19:39	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173201063504	11/21/2017 19:39	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173201063504	11/21/2017 19:39	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	173201063504	11/21/2017 19:39	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173201063504	11/21/2017 19:39	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	173201063504	11/27/2017 11:08	Patrick J Engle	5
07058	Manganese	SW-846 6010C	1	173201063504	11/21/2017 19:39	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173201063504	11/21/2017 19:39	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173201063504	11/27/2017 11:04	Patrick J Engle	1
07036	Selenium	SW-846 6010C	1	173201063504	11/27/2017 11:04	Patrick J Engle	1
07066	Silver	SW-846 6010C	1	173201063504	11/21/2017 19:39	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173201063504	11/27/2017 11:30	Patrick J Engle	20
07022	Thallium	SW-846 6010C	1	173201063504	11/21/2017 19:39	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173201063504	11/21/2017 19:39	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173201063504	11/21/2017 19:39	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173210571304	11/21/2017 08:09	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173201063504	11/19/2017 23:56	Denise L Trimby	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173210571304	11/20/2017 17:45	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-21 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 13:50
SDG#: POW01-14

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320922
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	1,4-Dioxane	123-91-1	N.D.	70	250	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-21 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 13:50
SDG#: POW01-14

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320922
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	4	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	2	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1

Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: **MW-21 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 13:50
SDG#: POW01-14

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320922
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-21 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 13:50
SDG#: POW01-14

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320922
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	N.D.	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is not compliant. All results are reported from the first trial. Similar results were obtained in both trials.

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	86.9	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	92,900	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	N.D.	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	31,400	37.4	200	1
07058	Manganese	7439-96-5	N.D.	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	2,530	179	1,000	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-21 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 13:50
SDG#: POW01-14

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320922
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010C**	**ug/l**	**ug/l**	**ug/l**	
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	55,300	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1
		SW-846 7470A	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173242AA	11/20/2017 20:49	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173242AA	11/20/2017 20:49	Kathrine K Muramatsu	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17320WAS026	11/30/2017 01:33	Edward C Monborne	1
11010	8270D BNA Extraction	SW-846 3510C	1	17320WAS026	11/17/2017 19:11	Christine E Gleim	1
01743	Aluminum	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1
07044	Antimony	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1
01750	Calcium	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	173211063501	11/22/2017 03:48	Jonathan J Allen	1
01754	Iron	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1
01757	Magnesium	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1
07058	Manganese	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1
01762	Potassium	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1
01767	Sodium	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-21 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 13:50
SDG#: POW01-14

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320922
ELLE Group #: 1876058
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07071	Vanadium	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	173211063501	11/20/2017 18:01	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	173210571304	11/21/2017 08:11	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173211063501	11/17/2017 23:04	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173210571304	11/20/2017 17:45	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-60D Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 08:45
SDG#: POW01-15

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320923
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	1,4-Dioxane	123-91-1	N.D.	70	250	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-60D Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 08:45
SDG#: POW01-15

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320923
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	16	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1

Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: **MW-60D Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 08:45
SDG#: POW01-15

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320923
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	16	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	31	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	16	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	31	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-60D Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 08:45
SDG#: POW01-15

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320923
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	N.D.	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is not compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	103 J	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	10.4 J	9.6	40.0	1
07046	Barium	7440-39-3	150	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	129,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	87.1 J	80.5	400	1
07055	Lead	7439-92-1	6.3 J	6.0	30.0	1
01757	Magnesium	7439-95-4	39,900	37.4	200	1
07058	Manganese	7439-96-5	7.3 J	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	2,840	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	64,000	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-60D Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 08:45
SDG#: POW01-15

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320923
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173242AA	11/20/2017 21:11	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173242AA	11/20/2017 21:11	Kathrine K Muramatsu	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17320WAS026	11/30/2017 02:02	Edward C Monborne	1
11010	8270D BNA Extraction	SW-846 3510C	1	17320WAS026	11/17/2017 19:11	Christine E Gleim	1
01743	Aluminum	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
07044	Antimony	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
01750	Calcium	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	173211063501	11/22/2017 03:52	Jonathan J Allen	1
01754	Iron	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
01757	Magnesium	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
07058	Manganese	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
01762	Potassium	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
01767	Sodium	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
07071	Vanadium	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	173211063501	11/20/2017 18:05	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	173210571304	11/21/2017 08:17	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173211063501	11/17/2017 23:04	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173210571304	11/20/2017 17:45	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-20 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 10:01
SDG#: POW01-16

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320924
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	1,4-Dioxane	123-91-1	N.D.	70	250	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-20 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 10:01
SDG#: POW01-16

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320924
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	0.2 J	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1

Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: **MW-20 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 10:01
SDG#: POW01-16

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320924
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	0.2 J	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 J	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-20 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 10:01
SDG#: POW01-16

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320924
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	0.2 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is not compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	294 J	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	324	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	172,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	5.3 J	4.0	20.0	1
01754	Iron	7439-89-6	28,300	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	43,600	37.4	200	1
07058	Manganese	7439-96-5	1,620	1.6	10.0	1
07061	Nickel	7440-02-0	4.2 J	4.0	20.0	1
01762	Potassium	7440-09-7	5,790	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	189,000	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	2.2 J	1.6	10.0	1
07072	Zinc	7440-66-6	8.3 J	6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-20 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 10:01
SDG#: POW01-16

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320924
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173242AA	11/20/2017 21:33	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173242AA	11/20/2017 21:33	Kathrine K Muramatsu	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17320WAS026	11/30/2017 11:22	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17320WAS026	11/17/2017 19:11	Christine E Gleim	1
01743	Aluminum	SW-846 6010C	1	173201063504	11/21/2017 19:43	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173201063504	11/21/2017 19:43	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173201063504	11/27/2017 11:16	Patrick J Engle	1
07046	Barium	SW-846 6010C	1	173201063504	11/21/2017 19:43	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173201063504	11/21/2017 19:43	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173201063504	11/21/2017 19:43	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173201063504	11/21/2017 19:43	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173201063504	11/21/2017 19:43	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173201063504	11/21/2017 19:43	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173201063504	11/21/2017 19:43	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	173201063504	11/21/2017 19:43	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173201063504	11/21/2017 19:43	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	173201063504	11/21/2017 19:43	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173201063504	11/21/2017 19:43	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173201063504	11/21/2017 19:43	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173201063504	11/27/2017 11:16	Patrick J Engle	1
07036	Selenium	SW-846 6010C	1	173201063504	11/27/2017 11:16	Patrick J Engle	1
07066	Silver	SW-846 6010C	1	173201063504	11/21/2017 19:43	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173201063504	11/27/2017 11:16	Patrick J Engle	1
07022	Thallium	SW-846 6010C	1	173201063504	11/21/2017 19:43	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173201063504	11/21/2017 19:43	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173201063504	11/21/2017 19:43	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173210571304	11/21/2017 08:19	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173201063504	11/19/2017 23:56	Denise L Trimby	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173210571304	11/20/2017 17:45	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-59 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 11:51
SDG#: POW01-19

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320927
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	1,4-Dioxane	123-91-1	N.D.	70	250	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-59 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 11:51
SDG#: POW01-19

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320927
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	0.1 J	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	16	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1

Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: **MW-59 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 11:51
SDG#: POW01-19

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320927
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	16	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	31	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	0.1 J	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	16	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	31	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-59 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 11:51
SDG#: POW01-19

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320927
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	N.D.	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is not compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	113	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	74,700	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	2.7 J	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	2,000	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	28,700	37.4	200	1
07058	Manganese	7439-96-5	378	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	2,430	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	85,000	321	2,000	1
07022	Thallium	7440-28-0	17.7 J	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-59 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/15/2017 19:20
Collection Date/Time: 11/15/2017 11:51
SDG#: POW01-19

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9320927
ELLE Group #: 1876058
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173262AA	11/22/2017 13:22	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173262AA	11/22/2017 13:22	Anita M Dale	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17320WAS026	11/30/2017 11:50	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17320WAS026	11/17/2017 19:11	Christine E Gleim	1
01743	Aluminum	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
07044	Antimony	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
01750	Calcium	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	173211063501	11/22/2017 03:56	Jonathan J Allen	1
01754	Iron	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
01757	Magnesium	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
07058	Manganese	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
01762	Potassium	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
01767	Sodium	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
07071	Vanadium	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	173211063501	11/20/2017 18:08	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	173210571304	11/21/2017 08:21	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173211063501	11/17/2017 23:04	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173210571304	11/20/2017 17:45	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates Group Number: 1876058
Reported: 12/20/2017 12:17

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Batch number: L173242AA	Sample number(s): 9320906-9320909,9320911-9320924		
Acetone	N.D.	6	20
Benzene	N.D.	0.5	1
Bromochloromethane	N.D.	1	5
Bromodichloromethane	N.D.	0.5	1
Bromoform	N.D.	0.5	4
Bromomethane	N.D.	0.5	1
2-Butanone	N.D.	3	10
Carbon Disulfide	N.D.	1	5
Carbon Tetrachloride	N.D.	0.5	1
Chlorobenzene	N.D.	0.5	1
Chloroethane	N.D.	0.5	1
Chloroform	N.D.	0.5	1
Chloromethane	N.D.	0.5	1
Cyclohexane	N.D.	2	5
1,2-Dibromo-3-chloropropane	N.D.	2	5
Dibromochloromethane	N.D.	0.5	1
1,2-Dibromoethane	N.D.	0.5	1
1,2-Dichlorobenzene	N.D.	1	5
1,3-Dichlorobenzene	N.D.	1	5
1,4-Dichlorobenzene	N.D.	1	5
Dichlorodifluoromethane	N.D.	0.5	1
1,1-Dichloroethane	N.D.	0.5	1
1,2-Dichloroethane	N.D.	0.5	1
1,1-Dichloroethene	N.D.	0.5	1
cis-1,2-Dichloroethene	N.D.	0.5	1
trans-1,2-Dichloroethene	N.D.	0.5	1
1,2-Dichloropropane	N.D.	0.5	1
cis-1,3-Dichloropropene	N.D.	0.5	1
trans-1,3-Dichloropropene	N.D.	0.5	1
1,4-Dioxane	N.D.	70	250
Ethylbenzene	N.D.	0.5	1
Freon 113	N.D.	2	10
2-Hexanone	N.D.	3	10
Isopropylbenzene	N.D.	1	5
Methyl Acetate	N.D.	1	5
Methyl Tertiary Butyl Ether	N.D.	0.5	1
4-Methyl-2-pentanone	N.D.	3	10
Methylcyclohexane	N.D.	1	5
Methylene Chloride	N.D.	0.5	1

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1876058
Reported: 12/20/2017 12:17

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Styrene	N.D.	1	5
1,1,2,2-Tetrachloroethane	N.D.	0.5	1
Tetrachloroethene	N.D.	0.5	1
Toluene	N.D.	0.5	1
1,2,3-Trichlorobenzene	N.D.	1	5
1,2,4-Trichlorobenzene	N.D.	1	5
1,1,1-Trichloroethane	N.D.	0.5	1
1,1,2-Trichloroethane	N.D.	0.5	1
Trichloroethene	N.D.	0.5	1
Trichlorofluoromethane	N.D.	0.5	1
Vinyl Chloride	N.D.	0.5	1
m+p-Xylene	N.D.	0.5	1
o-Xylene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: L173262AA	Sample number(s): 9320927		
Acetone	N.D.	6	20
Benzene	N.D.	0.5	1
Bromochloromethane	N.D.	1	5
Bromodichloromethane	N.D.	0.5	1
Bromoform	N.D.	0.5	4
Bromomethane	N.D.	0.5	1
2-Butanone	N.D.	3	10
Carbon Disulfide	N.D.	1	5
Carbon Tetrachloride	N.D.	0.5	1
Chlorobenzene	N.D.	0.5	1
Chloroethane	N.D.	0.5	1
Chloroform	N.D.	0.5	1
Chloromethane	N.D.	0.5	1
Cyclohexane	N.D.	2	5
1,2-Dibromo-3-chloropropane	N.D.	2	5
Dibromochloromethane	N.D.	0.5	1
1,2-Dibromoethane	N.D.	0.5	1
1,2-Dichlorobenzene	N.D.	1	5
1,3-Dichlorobenzene	N.D.	1	5
1,4-Dichlorobenzene	N.D.	1	5
Dichlorodifluoromethane	N.D.	0.5	1
1,1-Dichloroethane	N.D.	0.5	1
1,2-Dichloroethane	N.D.	0.5	1
1,1-Dichloroethene	N.D.	0.5	1
cis-1,2-Dichloroethene	N.D.	0.5	1
trans-1,2-Dichloroethene	N.D.	0.5	1
1,2-Dichloropropane	N.D.	0.5	1
cis-1,3-Dichloropropene	N.D.	0.5	1
trans-1,3-Dichloropropene	N.D.	0.5	1

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1876058
Reported: 12/20/2017 12:17

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
1,4-Dioxane	N.D.	70	250
Ethylbenzene	N.D.	0.5	1
Freon 113	N.D.	2	10
2-Hexanone	N.D.	3	10
Isopropylbenzene	N.D.	1	5
Methyl Acetate	N.D.	1	5
Methyl Tertiary Butyl Ether	N.D.	0.5	1
4-Methyl-2-pentanone	N.D.	3	10
Methylcyclohexane	N.D.	1	5
Methylene Chloride	N.D.	0.5	1
Styrene	N.D.	1	5
1,1,2,2-Tetrachloroethane	N.D.	0.5	1
Tetrachloroethene	N.D.	0.5	1
Toluene	N.D.	0.5	1
1,2,3-Trichlorobenzene	N.D.	1	5
1,2,4-Trichlorobenzene	N.D.	1	5
1,1,1-Trichloroethane	N.D.	0.5	1
1,1,2-Trichloroethane	N.D.	0.5	1
Trichloroethene	N.D.	0.5	1
Trichlorofluoromethane	N.D.	0.5	1
Vinyl Chloride	N.D.	0.5	1
m+p-Xylene	N.D.	0.5	1
o-Xylene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: 17320WAS026	Sample number(s): 9320906-9320909,9320911-9320915,9320917-9320924,9320927		
Acenaphthene	N.D.	0.1	0.5
Acenaphthylene	N.D.	0.1	0.5
Acetophenone	N.D.	0.5	1
Anthracene	N.D.	0.1	0.5
Atrazine	N.D.	2	5
Benzaldehyde	N.D.	1	5
Benzo(a)anthracene	N.D.	0.1	0.5
Benzo(a)pyrene	N.D.	0.1	0.5
Benzo(b)fluoranthene	N.D.	0.1	0.5
Benzo(g,h,i)perylene	N.D.	0.1	0.5
Benzo(k)fluoranthene	N.D.	0.1	0.5
1,1'-Biphenyl	N.D.	0.5	1
4-Bromophenyl-phenylether	N.D.	0.5	1
Butylbenzylphthalate	N.D.	2	5
Di-n-butylphthalate	N.D.	2	5
Caprolactam	N.D.	5	15
Carbazole	N.D.	0.5	1
4-Chloro-3-methylphenol	N.D.	0.5	1
4-Chloroaniline	N.D.	2	4

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1876058
Reported: 12/20/2017 12:17

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
bis(2-Chloroethoxy)methane	N.D.	0.5	1
bis(2-Chloroethyl)ether	N.D.	0.5	1
bis(2-Chloroisopropyl)ether	N.D.	0.5	1
2-Chloronaphthalene	N.D.	0.4	1
2-Chlorophenol	N.D.	0.5	1
4-Chlorophenyl-phenylether	N.D.	0.5	1
Chrysene	N.D.	0.1	0.5
Dibenz(a,h)anthracene	N.D.	0.1	0.5
Dibenzofuran	N.D.	0.5	1
3,3'-Dichlorobenzidine	N.D.	2	5
2,4-Dichlorophenol	N.D.	0.5	1
Diethylphthalate	N.D.	2	5
2,4-Dimethylphenol	N.D.	0.5	1
Dimethylphthalate	N.D.	2	5
4,6-Dinitro-2-methylphenol	N.D.	5	15
2,4-Dinitrophenol	N.D.	10	30
2,4-Dinitrotoluene	N.D.	1	5
2,6-Dinitrotoluene	N.D.	0.5	1
1,4-Dioxane	N.D.	1	5
bis(2-Ethylhexyl)phthalate	N.D.	2	5
Fluoranthene	N.D.	0.1	0.5
Fluorene	N.D.	0.1	0.5
Hexachlorobenzene	N.D.	0.1	0.5
Hexachlorobutadiene	N.D.	0.5	1
Hexachlorocyclopentadiene	N.D.	5	15
Hexachloroethane	N.D.	1	5
Indeno(1,2,3-cd)pyrene	N.D.	0.1	0.5
Isophorone	N.D.	0.5	1
2-Methylnaphthalene	N.D.	0.1	0.5
2-Methylphenol	N.D.	0.5	1
4-Methylphenol	N.D.	0.5	1
Naphthalene	N.D.	0.1	0.5
2-Nitroaniline	N.D.	0.5	1
3-Nitroaniline	N.D.	0.5	1
4-Nitroaniline	N.D.	0.5	1
Nitrobenzene	N.D.	0.5	1
2-Nitrophenol	N.D.	0.5	1
4-Nitrophenol	N.D.	10	30
N-Nitroso-di-n-propylamine	N.D.	0.5	1
N-Nitrosodiphenylamine	N.D.	0.5	1
Di-n-octylphthalate	N.D.	2	5
Pentachlorophenol	N.D.	1	5
Phenanthrene	N.D.	0.1	0.5
Phenol	N.D.	0.5	1
Pyrene	N.D.	0.1	0.5

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1876058
Reported: 12/20/2017 12:17

Method Blank (continued)

Analysis Name	Result		MDL**	LOQ
	ug/l		ug/l	ug/l
1,2,4,5-Tetrachlorobenzene	N.D.		0.5	1
2,3,4,6-Tetrachlorophenol	N.D.		0.5	1
2,4,5-Trichlorophenol	N.D.		0.5	1
2,4,6-Trichlorophenol	N.D.		0.5	1
Batch number: 173200571305	Sample number(s): 9320912,9320919			
Mercury	N.D.		0.050	0.20
Batch number: 173200571306	Sample number(s): 9320915			
Mercury	N.D.		0.050	0.20
Batch number: 173201063504	Sample number(s): 9320912,9320915,9320919,9320921,9320924			
Aluminum	N.D.		89.4	400
Antimony	N.D.		8.7	40.0
Arsenic	N.D.		9.6	40.0
Barium	N.D.		0.85	10.0
Beryllium	N.D.		2.0	10.0
Cadmium	N.D.		1.8	10.0
Calcium	N.D.		60.0	400
Chromium	N.D.		3.3	30.0
Cobalt	N.D.		1.7	10.0
Copper	N.D.		4.0	20.0
Iron	N.D.		80.5	400
Lead	N.D.		6.0	30.0
Magnesium	41.0	J	37.4	200
Manganese	N.D.		1.6	10.0
Nickel	N.D.		4.0	20.0
Potassium	N.D.		179	1,000
Selenium	N.D.		9.3	40.0
Silver	N.D.		2.4	10.0
Sodium	N.D.		321	2,000
Thallium	N.D.		13.7	60.0
Vanadium	N.D.		1.6	10.0
Zinc	N.D.		6.5	40.0
Batch number: 173210571304	Sample number(s): 9320906-9320911,9320913-9320914,9320917-9320918,9320920-9320924,9320927			
Mercury	N.D.		0.050	0.20
Batch number: 173211063501	Sample number(s): 9320914,9320917-9320918,9320920,9320922-9320923,9320927			
Aluminum	N.D.		89.4	400
Antimony	N.D.		8.7	40.0
Arsenic	N.D.		9.6	40.0
Barium	N.D.		0.85	10.0
Beryllium	N.D.		2.0	10.0
Cadmium	N.D.		1.8	10.0
Calcium	N.D.		60.0	400
Chromium	N.D.		3.3	30.0

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1876058
Reported: 12/20/2017 12:17

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Cobalt	N.D.	1.7	10.0
Copper	N.D.	4.0	20.0
Iron	N.D.	80.5	400
Lead	N.D.	6.0	30.0
Magnesium	N.D.	37.4	200
Manganese	N.D.	1.6	10.0
Nickel	N.D.	4.0	20.0
Potassium	N.D.	179	1,000
Selenium	N.D.	9.3	40.0
Silver	N.D.	2.4	10.0
Sodium	N.D.	321	2,000
Thallium	N.D.	13.7	60.0
Vanadium	N.D.	1.6	10.0
Zinc	N.D.	6.5	40.0
Batch number: 173211063504	Sample number(s): 9320906-9320911,9320913		
Aluminum	N.D.	89.4	400
Antimony	N.D.	8.7	40.0
Arsenic	N.D.	9.6	40.0
Barium	N.D.	0.85	10.0
Beryllium	N.D.	2.0	10.0
Cadmium	N.D.	1.8	10.0
Calcium	N.D.	60.0	400
Chromium	N.D.	3.3	30.0
Cobalt	N.D.	1.7	10.0
Copper	N.D.	4.0	20.0
Iron	N.D.	80.5	400
Lead	N.D.	6.0	30.0
Magnesium	N.D.	37.4	200
Manganese	N.D.	1.6	10.0
Nickel	N.D.	4.0	20.0
Potassium	N.D.	179	1,000
Selenium	N.D.	9.3	40.0
Silver	N.D.	2.4	10.0
Sodium	N.D.	321	2,000
Thallium	N.D.	13.7	60.0
Vanadium	N.D.	1.6	10.0
Zinc	N.D.	6.5	40.0

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1876058
Reported: 12/20/2017 12:17

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: L173242AA	Sample number(s): 9320906-9320909,9320911-9320924								
Acetone	150	148.5			99		44-177		
Benzene	20	20.26			101		78-120		
Bromochloromethane	20	20.37			102		80-125		
Bromodichloromethane	20	18.87			94		71-120		
Bromoform	20	16.99			85		59-120		
Bromomethane	20	20.18			101		44-139		
2-Butanone	150	140.85			94		53-140		
Carbon Disulfide	20	20.27			101		65-128		
Carbon Tetrachloride	20	18.37			92		68-128		
Chlorobenzene	20	19.76			99		80-120		
Chloroethane	20	19.39			97		52-127		
Chloroform	20	20.08			100		80-120		
Chloromethane	20	20.54			103		57-120		
Cyclohexane	20	19.39			97		67-121		
1,2-Dibromo-3-chloropropane	20	16.94			85		64-120		
Dibromochloromethane	20	18.56			93		71-120		
1,2-Dibromoethane	20	19.6			98		75-120		
1,2-Dichlorobenzene	20	18.72			94		80-120		
1,3-Dichlorobenzene	20	18.69			93		80-120		
1,4-Dichlorobenzene	20	18.84			94		80-120		
Dichlorodifluoromethane	20	19.57			98		47-124		
1,1-Dichloroethane	20	19.94			100		80-120		
1,2-Dichloroethane	20	19.98			100		73-124		
1,1-Dichloroethene	20	22.11			111		76-124		
cis-1,2-Dichloroethene	20	20.85			104		80-120		
trans-1,2-Dichloroethene	20	21.27			106		80-120		
1,2-Dichloropropane	20	20.22			101		80-120		
cis-1,3-Dichloropropene	20	18.75			94		75-120		
trans-1,3-Dichloropropene	20	17.83			89		76-120		
1,4-Dioxane	500	430.85			86		58-149		
Ethylbenzene	20	19.9			100		78-120		
Freon 113	20	21.79			109		68-137		
2-Hexanone	100	95.58			96		60-134		
Isopropylbenzene	20	20.27			101		80-120		
Methyl Acetate	20	18.45			92		61-137		
Methyl Tertiary Butyl Ether	20	19.59			98		75-120		
4-Methyl-2-pentanone	100	96.13			96		67-128		
Methylcyclohexane	20	20.04			100		66-126		
Methylene Chloride	20	20.08			100		80-120		
Styrene	20	20.25			101		80-120		
1,1,2,2-Tetrachloroethane	20	18.44			92		72-120		
Tetrachloroethene	20	20.37			102		80-129		
Toluene	20	19.78			99		80-120		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Reported: 12/20/2017 12:17

Group Number: 1876058

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2,3-Trichlorobenzene	20	17.27			86		66-120		
1,2,4-Trichlorobenzene	20	17.06			85		70-120		
1,1,1-Trichloroethane	20	19.26			96		67-120		
1,1,2-Trichloroethane	20	19.67			98		80-120		
Trichloroethene	20	20.41			102		80-120		
Trichlorofluoromethane	20	20.29			101		52-143		
Vinyl Chloride	20	19.61			98		63-121		
m+p-Xylene	40	40.61			102		80-120		
o-Xylene	20	19.71			99		80-120		
Xylene (Total)	60	60.32			101		80-120		
Batch number: L173262AA	Sample number(s): 9320927								
Acetone	150	130.22			87		44-177		
Benzene	20	20.67			103		78-120		
Bromochloromethane	20	20.2			101		80-125		
Bromodichloromethane	20	19.43			97		71-120		
Bromoform	20	17.56			88		59-120		
Bromomethane	20	20.25			101		44-139		
2-Butanone	150	147.92			99		53-140		
Carbon Disulfide	20	22.83			114		65-128		
Carbon Tetrachloride	20	19.24			96		68-128		
Chlorobenzene	20	19.98			100		80-120		
Chloroethane	20	19.41			97		52-127		
Chloroform	20	20.49			102		80-120		
Chloromethane	20	20.79			104		57-120		
Cyclohexane	20	18.23			91		67-121		
1,2-Dibromo-3-chloropropane	20	18.14			91		64-120		
Dibromochloromethane	20	18.87			94		71-120		
1,2-Dibromoethane	20	19.87			99		75-120		
1,2-Dichlorobenzene	20	19.38			97		80-120		
1,3-Dichlorobenzene	20	19.21			96		80-120		
1,4-Dichlorobenzene	20	19.5			98		80-120		
Dichlorodifluoromethane	20	16			80		47-124		
1,1-Dichloroethane	20	20.69			103		80-120		
1,2-Dichloroethane	20	20.3			102		73-124		
1,1-Dichloroethene	20	22.84			114		76-124		
cis-1,2-Dichloroethene	20	21.58			108		80-120		
trans-1,2-Dichloroethene	20	21.94			110		80-120		
1,2-Dichloropropane	20	20.39			102		80-120		
cis-1,3-Dichloropropene	20	18.84			94		75-120		
trans-1,3-Dichloropropene	20	17.9			90		76-120		
1,4-Dioxane	500	428.9			86		58-149		
Ethylbenzene	20	20.2			101		78-120		
Freon 113	20	20.01			100		68-137		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Reported: 12/20/2017 12:17

Group Number: 1876058

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Hexanone	100	97.71			98		60-134		
Isopropylbenzene	20	20.41			102		80-120		
Methyl Acetate	20	19.38			97		61-137		
Methyl Tertiary Butyl Ether	20	20.01			100		75-120		
4-Methyl-2-pentanone	100	98.91			99		67-128		
Methylcyclohexane	20	18.15			91		66-126		
Methylene Chloride	20	20.72			104		80-120		
Styrene	20	20.4			102		80-120		
1,1,2,2-Tetrachloroethane	20	18.75			94		72-120		
Tetrachloroethene	20	20.5			102		80-129		
Toluene	20	20.2			101		80-120		
1,2,3-Trichlorobenzene	20	18.28			91		66-120		
1,2,4-Trichlorobenzene	20	17.8			89		70-120		
1,1,1-Trichloroethane	20	19.51			98		67-120		
1,1,2-Trichloroethane	20	19.9			99		80-120		
Trichloroethene	20	20.68			103		80-120		
Trichlorofluoromethane	20	19.01			95		52-143		
Vinyl Chloride	20	19.4			97		63-121		
m+p-Xylene	40	40.94			102		80-120		
o-Xylene	20	19.98			100		80-120		
Xylene (Total)	60	60.91			102		80-120		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 17320WAS026	Sample number(s): 9320906-9320909,9320911-9320915,9320917-9320924,9320927								
Acenaphthene	50	33.5			67*		68-112		
Acenaphthylene	50	29.25			58*		67-111		
Acetophenone	50	37.11			74		71-108		
Anthracene	50	35.76			72*		73-113		
Atrazine	50	5.78			12*		80-120		
Benzaldehyde	50	N.D.			0*		58-107		
Benzo(a)anthracene	50	40.84			82		74-124		
Benzo(a)pyrene	50	35.64			71		70-113		
Benzo(b)fluoranthene	50	38.41			77		72-117		
Benzo(g,h,i)perylene	50	32.99			66		64-117		
Benzo(k)fluoranthene	50	37.6			75		73-121		
1,1'-Biphenyl	50	31.1			62*		65-107		
4-Bromophenyl-phenylether	50	40.24			80		71-114		
Butylbenzylphthalate	50	37.47			75		52-121		
Di-n-butylphthalate	50	40.24			80		69-117		
Caprolactam	50	5.68			11*		13-37		
Carbazole	50	38.96			78*		79-116		
4-Chloro-3-methylphenol	50	43.99			88		72-116		
4-Chloroaniline	50	33.68			67		42-99		
bis(2-Chloroethoxy)methane	50	40.48			81		72-116		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Reported: 12/20/2017 12:17

Group Number: 1876058

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
bis(2-Chloroethyl)ether	50	36.8			74		63-108		
bis(2-Chloroisopropyl)ether	50	29.98			60		54-116		
2-Chloronaphthalene	50	28.32			57*		59-109		
2-Chlorophenol	50	34.16			68		62-105		
4-Chlorophenyl-phenylether	50	38.09			76		65-112		
Chrysene	50	40.98			82		75-120		
Dibenz(a,h)anthracene	50	35.06			70		68-121		
Dibenzofuran	50	35.65			71		69-110		
3,3'-Dichlorobenzidine	50	28.24			56		37-104		
2,4-Dichlorophenol	50	41.39			83		71-113		
Diethylphthalate	50	39.15			78		55-113		
2,4-Dimethylphenol	50	35.47			71		53-93		
Dimethylphthalate	50	34.04			68		19-119		
4,6-Dinitro-2-methylphenol	50	41.98			84		59-125		
2,4-Dinitrophenol	100	89.15			89		33-133		
2,4-Dinitrotoluene	50	41.55			83		70-122		
2,6-Dinitrotoluene	50	41.47			83		75-121		
1,4-Dioxane	50	18.4			37		28-56		
bis(2-Ethylhexyl)phthalate	50	38.7			77		64-126		
Fluoranthene	50	39.85			80		75-117		
Fluorene	50	35.73			71		68-112		
Hexachlorobenzene	50	38.86			78		66-115		
Hexachlorobutadiene	50	32.57			65		27-111		
Hexachlorocyclopentadiene	100	5.63			6*		10-81		
Hexachloroethane	50	25.27			51		28-103		
Indeno(1,2,3-cd)pyrene	50	32.36			65*		67-117		
Isophorone	50	41.07			82		70-117		
2-Methylnaphthalene	50	32.11			64		54-111		
2-Methylphenol	50	33.92			68		57-105		
4-Methylphenol	50	34.7			69		51-100		
Naphthalene	50	32.29			65		54-109		
2-Nitroaniline	50	38.41			77		74-121		
3-Nitroaniline	50	36.17			72		61-114		
4-Nitroaniline	50	34.16			68		60-106		
Nitrobenzene	50	38.03			76		66-114		
2-Nitrophenol	50	42.57			85		68-120		
4-Nitrophenol	50	20.15			40		18-91		
N-Nitroso-di-n-propylamine	50	37.49			75		67-115		
N-Nitrosodiphenylamine	50	38.15			76		75-116		
Di-n-octylphthalate	50	39.87			80		68-127		
Pentachlorophenol	50	40.64			81		59-134		
Phenanthrene	50	34.82			70*		72-110		
Phenol	50	20.56			41		16-80		
Pyrene	50	35.93			72		72-109		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Reported: 12/20/2017 12:17

Group Number: 1876058

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2,4,5-Tetrachlorobenzene	50	31.25			62		50-108		
2,3,4,6-Tetrachlorophenol	50	46.42			93		69-125		
2,4,5-Trichlorophenol	50	44.23			88		75-118		
2,4,6-Trichlorophenol	50	44.07			88		75-118		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 173200571305	Sample number(s): 9320912,9320919								
Mercury	1.00	0.900			90		80-120		
Batch number: 173200571306	Sample number(s): 9320915								
Mercury	1.00	0.937			94		80-120		
Batch number: 173201063504	Sample number(s): 9320912,9320915,9320919,9320921,9320924								
Aluminum	2000	2111.91			106		80-120		
Antimony	500	506.7			101		80-120		
Arsenic	150	143.25			96		80-120		
Barium	2000	1965.2			98		80-120		
Beryllium	50	46.62			93		80-120		
Cadmium	50	49.79			100		80-120		
Calcium	4000	4068.57			102		80-120		
Chromium	200	191.59			96		80-120		
Cobalt	500	501.62			100		80-120		
Copper	250	247.95			99		80-120		
Iron	1000	1030.1			103		80-120		
Lead	150	145.26			97		80-120		
Magnesium	2000	2062.77			103		80-120		
Manganese	500	495.58			99		80-120		
Nickel	500	508.64			102		80-120		
Potassium	10000	10256.2			103		80-120		
Selenium	150	136.9			91		80-120		
Silver	50	47.77			96		80-120		
Sodium	10000	9821.79			98		80-120		
Thallium	150	146.75			98		80-120		
Vanadium	500	485.5			97		80-120		
Zinc	500	488.02			98		80-120		
Batch number: 173210571304	Sample number(s): 9320906-9320911,9320913-9320914,9320917-9320918,9320920-9320924,9320927								
Mercury	1.00	0.916			92		80-120		
Batch number: 173211063501	Sample number(s): 9320914,9320917-9320918,9320920,9320922-9320923,9320927								
Aluminum	2000	2264.24			113		80-120		
Antimony	500	506.05			101		80-120		
Arsenic	150	156.84			105		80-120		
Barium	2000	2049.41			102		80-120		
Beryllium	50	50.01			100		80-120		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1876058
Reported: 12/20/2017 12:17

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Cadmium	50	51.28			103		80-120		
Calcium	4000	3981.73			100		80-120		
Chromium	200	199.65			100		80-120		
Cobalt	500	520.6			104		80-120		
Copper	250	256.34			103		80-120		
Iron	1000	989.2			99		80-120		
Lead	150	151.24			101		80-120		
Magnesium	2000	2013.54			101		80-120		
Manganese	500	520.66			104		80-120		
Nickel	500	533.77			107		80-120		
Potassium	10000	10051.02			101		80-120		
Selenium	150	146.81			98		80-120		
Silver	50	48.87			98		80-120		
Sodium	10000	9908.79			99		80-120		
Thallium	150	140.22			93		80-120		
Vanadium	500	509.26			102		80-120		
Zinc	500	515.18			103		80-120		
Batch number: 173211063504	Sample number(s): 9320906-9320911,9320913								
Aluminum	2000	2022.4			101		80-120		
Antimony	500	534.91			107		80-120		
Arsenic	150	145.5			97		80-120		
Barium	2000	2014.28			101		80-120		
Beryllium	50	51.18			102		80-120		
Cadmium	50	51.64			103		80-120		
Calcium	4000	4102.33			103		80-120		
Chromium	200	207.45			104		80-120		
Cobalt	500	512.13			102		80-120		
Copper	250	267.04			107		80-120		
Iron	1000	993.88			99		80-120		
Lead	150	156.32			104		80-120		
Magnesium	2000	2055.29			103		80-120		
Manganese	500	530.62			106		80-120		
Nickel	500	521.59			104		80-120		
Potassium	10000	10601.19			106		80-120		
Selenium	150	147.66			98		80-120		
Silver	50	47.94			96		80-120		
Sodium	10000	10001.4			100		80-120		
Thallium	150	144.95			97		80-120		
Vanadium	500	531.14			106		80-120		
Zinc	500	509.7			102		80-120		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1876058
Reported: 12/20/2017 12:17

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: L173242AA	Sample number(s): 9320906-9320909,9320911-9320924 UNSPK: 9320907									
Acetone	N.D.	150	187.37	150	171.57	125	114	44-177	9	30
Benzene	N.D.	20	21.72	20	21.28	109	106	78-120	2	30
Bromochloromethane	N.D.	20	20.76	20	20.61	104	103	80-125	1	30
Bromodichloromethane	N.D.	20	19.81	20	19.47	99	97	71-120	2	30
Bromoform	N.D.	20	17.72	20	17.28	89	86	59-120	3	30
Bromomethane	N.D.	20	21.35	20	21.45	107	107	44-139	0	30
2-Butanone	N.D.	150	132.01	150	123.72	88	82	53-140	6	30
Carbon Disulfide	N.D.	20	23.32	20	22.84	117	114	65-128	2	30
Carbon Tetrachloride	N.D.	20	20.49	20	21.01	102	105	68-128	3	30
Chlorobenzene	N.D.	20	21.26	20	20.63	106	103	80-120	3	30
Chloroethane	N.D.	20	20.45	20	20.53	102	103	52-127	0	30
Chloroform	N.D.	20	21.69	20	21.08	108	105	80-120	3	30
Chloromethane	N.D.	20	20.13	20	20.97	101	105	57-120	4	30
Cyclohexane	N.D.	20	22.41	20	22.33	112	112	67-121	0	30
1,2-Dibromo-3-chloropropane	N.D.	20	16.74	20	16.66	84	83	64-120	0	30
Dibromochloromethane	N.D.	20	19.09	20	18.89	95	94	71-120	1	30
1,2-Dibromoethane	N.D.	20	20.11	20	19.55	101	98	75-120	3	30
1,2-Dichlorobenzene	N.D.	20	19.91	20	19.73	100	99	80-120	1	30
1,3-Dichlorobenzene	N.D.	20	20	20	19.77	100	99	80-120	1	30
1,4-Dichlorobenzene	N.D.	20	20.09	20	19.95	100	100	80-120	1	30
Dichlorodifluoromethane	N.D.	20	22.2	20	22.71	111	114	47-124	2	30
1,1-Dichloroethane	N.D.	20	21.47	20	21.24	107	106	80-120	1	30
1,2-Dichloroethane	N.D.	20	20.77	20	20.08	104	100	73-124	3	30
1,1-Dichloroethene	N.D.	20	25.52	20	24.9	128*	125*	76-124	2	30
cis-1,2-Dichloroethene	N.D.	20	22.72	20	22.25	114	111	80-120	2	30
trans-1,2-Dichloroethene	N.D.	20	23.53	20	22.8	118	114	80-120	3	30
1,2-Dichloropropane	N.D.	20	21.21	20	20.79	106	104	80-120	2	30
cis-1,3-Dichloropropene	N.D.	20	19.03	20	18.74	95	94	75-120	2	30
trans-1,3-Dichloropropene	N.D.	20	18.25	20	18.01	91	90	76-120	1	30
1,4-Dioxane	N.D.	500	418.88	500	389.91	84	78	58-149	7	30
Ethylbenzene	N.D.	20	21.65	20	21.14	108	106	78-120	2	30
Freon 113	N.D.	20	25.83	20	25.71	129	129	68-137	0	30
2-Hexanone	N.D.	100	97.36	100	94.26	97	94	60-134	3	30
Isopropylbenzene	N.D.	20	22.01	20	21.51	110	108	80-120	2	30
Methyl Acetate	N.D.	20	17.41	20	17.1	87	86	61-137	2	30
Methyl Tertiary Butyl Ether	N.D.	20	19.57	20	19.6	98	98	75-120	0	30
4-Methyl-2-pentanone	N.D.	100	96.35	100	94.4	96	94	67-128	2	30
Methylcyclohexane	N.D.	20	22.84	20	22.72	114	114	66-126	0	30
Methylene Chloride	N.D.	20	21.75	20	21.31	109	107	80-120	2	30
Styrene	N.D.	20	21.5	20	20.98	108	105	80-120	2	30
1,1,2,2-Tetrachloroethane	N.D.	20	18.75	20	18.68	94	93	72-120	0	30
Tetrachloroethene	N.D.	20	22.59	20	22.09	113	110	80-129	2	30

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1876058
Reported: 12/20/2017 12:17

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Toluene	N.D.	20	21.5	20	21.03	108	105	80-120	2	30
1,2,3-Trichlorobenzene	N.D.	20	17.43	20	17.41	87	87	66-120	0	30
1,2,4-Trichlorobenzene	N.D.	20	17.62	20	17.64	88	88	70-120	0	30
1,1,1-Trichloroethane	N.D.	20	21.19	20	21.2	106	106	67-120	0	30
1,1,2-Trichloroethane	N.D.	20	20.36	20	19.64	102	98	80-120	4	30
Trichloroethene	N.D.	20	22.15	20	21.59	111	108	80-120	3	30
Trichlorofluoromethane	N.D.	20	23.07	20	23.16	115	116	52-143	0	30
Vinyl Chloride	N.D.	20	21.68	20	21.36	108	107	63-121	1	30
m+p-Xylene	N.D.	40	43.84	40	42.97	110	107	80-120	2	30
o-Xylene	N.D.	20	20.98	20	20.59	105	103	80-120	2	30
Xylene (Total)	N.D.	60	64.82	60	63.56	108	106	80-120	2	30
Batch number: L173262AA	Sample number(s): 9320927 UNSPK: P328320									
Acetone	N.D.	150	131.03	150	137.96	87	92	44-177	5	30
Benzene	N.D.	20	21.12	20	21.57	106	108	78-120	2	30
Bromochloromethane	N.D.	20	19.81	20	20.53	99	103	80-125	4	30
Bromodichloromethane	N.D.	20	18.81	20	19.22	94	96	71-120	2	30
Bromoform	N.D.	20	16.06	20	16.38	80	82	59-120	2	30
Bromomethane	N.D.	20	21.55	20	21.72	108	109	44-139	1	30
2-Butanone	N.D.	150	144.32	150	145.47	96	97	53-140	1	30
Carbon Disulfide	N.D.	20	23.89	20	24.15	119	121	65-128	1	30
Carbon Tetrachloride	N.D.	20	20.03	20	20.46	100	102	68-128	2	30
Chlorobenzene	N.D.	20	19.99	20	20.37	100	102	80-120	2	30
Chloroethane	N.D.	20	20.11	20	20.93	101	105	52-127	4	30
Chloroform	N.D.	20	20.69	20	20.94	103	105	80-120	1	30
Chloromethane	N.D.	20	22.36	20	23.29	112	116	57-120	4	30
Cyclohexane	N.D.	20	21.98	20	22.29	110	111	67-121	1	30
1,2-Dibromo-3-chloropropane	N.D.	20	16.46	20	16.93	82	85	64-120	3	30
Dibromochloromethane	N.D.	20	18.06	20	18.25	90	91	71-120	1	30
1,2-Dibromoethane	N.D.	20	19.12	20	19.63	96	98	75-120	3	30
1,2-Dichlorobenzene	N.D.	20	19.12	20	19.33	96	97	80-120	1	30
1,3-Dichlorobenzene	N.D.	20	19.14	20	19.43	96	97	80-120	1	30
1,4-Dichlorobenzene	N.D.	20	19.33	20	19.5	97	98	80-120	1	30
Dichlorodifluoromethane	N.D.	20	22.71	20	22.16	114	111	47-124	2	30
1,1-Dichloroethane	N.D.	20	20.73	20	21.22	104	106	80-120	2	30
1,2-Dichloroethane	N.D.	20	20.53	20	20.67	103	103	73-124	1	30
1,1-Dichloroethene	N.D.	20	24.81	20	24.77	124	124	76-124	0	30
cis-1,2-Dichloroethene	N.D.	20	22.43	20	22.46	112	112	80-120	0	30
trans-1,2-Dichloroethene	N.D.	20	22.53	20	22.74	113	114	80-120	1	30
1,2-Dichloropropane	N.D.	20	20.67	20	21.06	103	105	80-120	2	30
cis-1,3-Dichloropropene	N.D.	20	18.13	20	18.4	91	92	75-120	1	30
trans-1,3-Dichloropropene	N.D.	20	16.92	20	17.42	85	87	76-120	3	30
1,4-Dioxane	N.D.	500	404.73	500	397.5	81	80	58-149	2	30

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1876058
Reported: 12/20/2017 12:17

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Ethylbenzene	N.D.	20	20.71	20	21.03	104	105	78-120	2	30
Freon 113	N.D.	20	25.14	20	25.06	126	125	68-137	0	30
2-Hexanone	N.D.	100	95.76	100	97.34	96	97	60-134	2	30
Isopropylbenzene	N.D.	20	20.95	20	21.21	105	106	80-120	1	30
Methyl Acetate	N.D.	20	18.62	20	19.2	93	96	61-137	3	30
Methyl Tertiary Butyl Ether	10.35	20	30.67	20	31.23	102	104	75-120	2	30
4-Methyl-2-pentanone	N.D.	100	97.75	100	99.3	98	99	67-128	2	30
Methylcyclohexane	N.D.	20	22.28	20	22.08	111	110	66-126	1	30
Methylene Chloride	N.D.	20	21.1	20	21.43	106	107	80-120	2	30
Styrene	N.D.	20	20.64	20	20.94	103	105	80-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	20	18.09	20	19.02	90	95	72-120	5	30
Tetrachloroethene	N.D.	20	21.48	20	21.51	107	108	80-129	0	30
Toluene	N.D.	20	20.41	20	20.73	102	104	80-120	2	30
1,2,3-Trichlorobenzene	N.D.	20	16.86	20	17.27	84	86	66-120	2	30
1,2,4-Trichlorobenzene	N.D.	20	16.91	20	17.23	85	86	70-120	2	30
1,1,1-Trichloroethane	N.D.	20	18.36	20	18.77	92	94	67-120	2	30
1,1,2-Trichloroethane	N.D.	20	19.71	20	19.75	99	99	80-120	0	30
Trichloroethene	N.D.	20	21.42	20	21.87	107	109	80-120	2	30
Trichlorofluoromethane	N.D.	20	23.02	20	22.9	115	115	52-143	1	30
Vinyl Chloride	N.D.	20	21.8	20	22.07	109	110	63-121	1	30
m+p-Xylene	N.D.	40	41.66	40	42.14	104	105	80-120	1	30
o-Xylene	N.D.	20	20.06	20	20.31	100	102	80-120	1	30
Xylene (Total)	N.D.	60	61.72	60	62.45	103	104	80-120	1	30
	ug/l	**ug/l**	**ug/l**	**ug/l**	**ug/l**					
Batch number: 17320WAS026	Sample number(s): 9320906-9320909,9320911-9320915,9320917-9320924,9320927 UNSPK: 9320907									
Acenaphthene	N.D.	50.4	36.36	49.8	34.32	72	69	68-112	6	30
Acenaphthylene	N.D.	50.4	33.1	49.8	31.41	66*	63*	67-111	5	30
Acetophenone	N.D.	50.4	37.97	49.8	35.85	75	72	71-108	6	30
Anthracene	N.D.	50.4	37.76	49.8	35.51	75	71*	73-113	6	30
Atrazine	N.D.	50.4	6.37	49.8	5.57	13*	11*	80-120	13	30
Benzaldehyde	N.D.	50.4	1.02	49.8	N.D.	2*	0*	58-107	200*	30
Benzo(a)anthracene	N.D.	50.4	41.81	49.8	39.45	83	79	74-124	6	30
Benzo(a)pyrene	N.D.	50.4	35.17	49.8	33.67	70	68*	70-113	4	30
Benzo(b)fluoranthene	N.D.	50.4	37.81	49.8	36.25	75	73	72-117	4	30
Benzo(g,h,i)perylene	N.D.	50.4	34.59	49.8	32.39	69	65	64-117	7	30
Benzo(k)fluoranthene	N.D.	50.4	36.65	49.8	34.73	73	70*	73-121	5	30
1,1'-Biphenyl	N.D.	50.4	33.97	49.8	32.08	67	64*	65-107	6	30
4-Bromophenyl-phenylether	N.D.	50.4	45.1	49.8	42.41	89	85	71-114	6	30
Butylbenzylphthalate	N.D.	50.4	40.88	49.8	38.44	81	77	52-121	6	30
Di-n-butylphthalate	N.D.	50.4	43.41	49.8	41.41	86	83	69-117	5	30
Caprolactam	N.D.	50.4	N.D.	49.8	N.D.	0*	0*	13-37	0	30
Carbazole	N.D.	50.4	41.33	49.8	40.15	82	81	79-116	3	30

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Reported: 12/20/2017 12:17

Group Number: 1876058

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
4-Chloro-3-methylphenol	N.D.	50.4	46.65	49.8	44.29	93	89	72-116	5	30
4-Chloroaniline	N.D.	50.4	30.39	49.8	29.22	60	59	42-99	4	30
bis(2-Chloroethoxy)methane	N.D.	50.4	42.55	49.8	39.55	84	79	72-116	7	30
bis(2-Chloroethyl)ether	N.D.	50.4	36.04	49.8	34.62	71	70	63-108	4	30
bis(2-Chloroisopropyl)ether	N.D.	50.4	30.62	49.8	28.84	61	58	54-116	6	30
2-Chloronaphthalene	N.D.	50.4	32.95	49.8	31.49	65	63	59-109	5	30
2-Chlorophenol	N.D.	50.4	32.86	49.8	29.9	65	60*	62-105	9	30
4-Chlorophenyl-phenylether	N.D.	50.4	42.66	49.8	40.03	85	80	65-112	6	30
Chrysene	N.D.	50.4	41.09	49.8	38.92	82	78	75-120	5	30
Dibenz(a,h)anthracene	N.D.	50.4	36.07	49.8	33.71	72	68	68-121	7	30
Dibenzofuran	N.D.	50.4	38.35	49.8	36.49	76	73	69-110	5	30
3,3'-Dichlorobenzidine	N.D.	50.4	26.19	49.8	25.32	52	51	37-104	3	30
2,4-Dichlorophenol	N.D.	50.4	40.94	49.8	36.24	81	73	71-113	12	30
Diethylphthalate	N.D.	50.4	38.86	49.8	36.99	77	74	55-113	5	30
2,4-Dimethylphenol	N.D.	50.4	36.17	49.8	33.96	72	68	53-93	6	30
Dimethylphthalate	N.D.	50.4	39.01	49.8	37.28	77	75	19-119	5	30
4,6-Dinitro-2-methylphenol	N.D.	50.4	39.67	49.8	36.28	79	73	59-125	9	30
2,4-Dinitrophenol	N.D.	100.81	85.91	99.6	76.81	85	77	33-133	11	30
2,4-Dinitrotoluene	N.D.	50.4	40.08	49.8	39.24	80	79	70-122	2	30
2,6-Dinitrotoluene	N.D.	50.4	44.23	49.8	42.41	88	85	75-121	4	30
1,4-Dioxane	N.D.	50.4	16.71	49.8	16.2	33	33	28-56	3	30
bis(2-Ethylhexyl)phthalate	N.D.	50.4	38.98	49.8	36.13	77	73	64-126	8	30
Fluoranthene	N.D.	50.4	42.15	49.8	40.76	84	82	75-117	3	30
Fluorene	N.D.	50.4	38.55	49.8	37.16	76	75	68-112	4	30
Hexachlorobenzene	N.D.	50.4	42.29	49.8	39.48	84	79	66-115	7	30
Hexachlorobutadiene	N.D.	50.4	36.31	49.8	34.74	72	70	27-111	4	30
Hexachlorocyclopentadiene	N.D.	100.81	10.15	99.6	10.58	10	11	10-81	4	30
Hexachloroethane	N.D.	50.4	26.76	49.8	26.2	53	53	28-103	2	30
Indeno(1,2,3-cd)pyrene	N.D.	50.4	34.63	49.8	33.52	69	67	67-117	3	30
Isophorone	N.D.	50.4	42.14	49.8	39.7	84	80	70-117	6	30
2-Methylnaphthalene	N.D.	50.4	34.63	49.8	32.89	69	66	54-111	5	30
2-Methylphenol	N.D.	50.4	35.96	49.8	33.37	71	67	57-105	7	30
4-Methylphenol	N.D.	50.4	37.45	49.8	34.7	74	70	51-100	8	30
Naphthalene	N.D.	50.4	34	49.8	32.24	67	65	54-109	5	30
2-Nitroaniline	N.D.	50.4	42.14	49.8	39.84	84	80	74-121	6	30
3-Nitroaniline	N.D.	50.4	35.96	49.8	34.44	71	69	61-114	4	30
4-Nitroaniline	N.D.	50.4	33.68	49.8	33.21	67	67	60-106	1	30
Nitrobenzene	N.D.	50.4	39.56	49.8	36.65	78	74	66-114	8	30
2-Nitrophenol	N.D.	50.4	43.03	49.8	38.03	85	76	68-120	12	30
4-Nitrophenol	N.D.	50.4	19.5	49.8	18.86	39	38	18-91	3	30
N-Nitroso-di-n-propylamine	N.D.	50.4	38.5	49.8	36.39	76	73	67-115	6	30
N-Nitrosodiphenylamine	N.D.	50.4	39.32	49.8	37.6	78	75	75-116	4	30
Di-n-octylphthalate	N.D.	50.4	39.57	49.8	37.9	79	76	68-127	4	30

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Reported: 12/20/2017 12:17

Group Number: 1876058

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Pentachlorophenol	N.D.	50.4	45.51	49.8	40.33	90	81	59-134	12	30
Phenanthrene	N.D.	50.4	38.15	49.8	36.96	76	74	72-110	3	30
Phenol	N.D.	50.4	26.68	49.8	24.41	53	49	16-80	9	30
Pyrene	0.192	50.4	37.02	49.8	35.14	73	70*	72-109	5	30
1,2,4,5-Tetrachlorobenzene	N.D.	50.4	34.3	49.8	32.43	68	65	50-108	6	30
2,3,4,6-Tetrachlorophenol	N.D.	50.4	48.14	49.8	42.53	96	85	69-125	12	30
2,4,5-Trichlorophenol	N.D.	50.4	45.25	49.8	40.38	90	81	75-118	11	30
2,4,6-Trichlorophenol	N.D.	50.4	45.75	49.8	39.21	91	79	75-118	15	30
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: 173200571305	Sample number(s): 9320912,9320919 UNSPK: P319477									
Mercury	N.D.	1.00	0.907	1.00	0.872	91	87	80-120	4	20
Batch number: 173200571306	Sample number(s): 9320915 UNSPK: P319633									
Mercury	N.D.	1.00	0.867	1.00	0.921	87	92	80-120	6	20
Batch number: 173201063504	Sample number(s): 9320912,9320915,9320919,9320921,9320924 UNSPK: P319633									
Aluminum	N.D.	2000	2090.39	2000	2013.12	105	101	75-125	4	20
Antimony	11.76	500	517.95	500	506.95	101	99	75-125	2	20
Arsenic	N.D.	150	144.26	150	138.68	96	92	75-125	4	20
Barium	52.29	2000	1972.04	2000	1983.43	96	97	75-125	1	20
Beryllium	N.D.	50	47.24	50	47.53	94	95	75-125	1	20
Cadmium	N.D.	50	48.82	50	49.07	98	98	75-125	1	20
Calcium	25724.05	4000	30089.1	4000	29861.59	109 (2)	103 (2)	75-125	1	20
Chromium	N.D.	200	191.05	200	191.1	96	96	75-125	0	20
Cobalt	N.D.	500	488.02	500	494.27	98	99	75-125	1	20
Copper	N.D.	250	247.33	250	251.02	99	100	75-125	1	20
Iron	916.61	1000	2002.99	1000	1964.72	109	105	75-125	2	20
Lead	N.D.	150	142.89	150	140.38	95	94	75-125	2	20
Magnesium	8621.37	2000	10792.41	2000	10658.81	109 (2)	102 (2)	75-125	1	20
Manganese	65.58	500	570.98	500	573.45	101	102	75-125	0	20
Nickel	N.D.	500	498.02	500	503.13	100	101	75-125	1	20
Potassium	6310.59	10000	16810.52	10000	16685.03	105	104	75-125	1	20
Selenium	N.D.	150	133.7	150	136.46	89	91	75-125	2	20
Silver	N.D.	50	47.68	50	47.51	95	95	75-125	0	20
Sodium	62748.71	10000	72758.64	10000	71757.89	100 (2)	90 (2)	75-125	1	20
Thallium	N.D.	150	144.56	150	133.39	96	89	75-125	8	20
Vanadium	2.04	500	490.54	500	492.95	98	98	75-125	0	20
Zinc	N.D.	500	486.43	500	492.15	97	98	75-125	1	20
Batch number: 173210571304	Sample number(s): 9320906-9320911,9320913-9320914,9320917-9320918,9320920-9320924,9320927 UNSPK: 9320907									
Mercury	N.D.	1.00	0.966	1.00	0.926	97	93	80-120	4	20

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Reported: 12/20/2017 12:17

Group Number: 1876058

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 173211063501	Sample number(s): 9320914,9320917-9320918,9320920,9320922-9320923,9320927 UNSPK: 9320920									
Aluminum	N.D.	2000	2364.44	2000	2319.09	118	116	75-125	2	20
Antimony	N.D.	500	506.51	500	499.35	101	100	75-125	1	20
Arsenic	20	150	172.34	150	157.18	102	91	75-125	9	20
Barium	40.05	2000	2004.69	2000	1999.81	98	98	75-125	0	20
Beryllium	N.D.	50	50.14	50	49.96	100	100	75-125	0	20
Cadmium	N.D.	50	47.42	50	47.48	95	95	75-125	0	20
Calcium	263764.15	4000	268423.56	4000	267240.58	116 (2)	87 (2)	75-125	0	20
Chromium	N.D.	200	194.92	200	196.66	97	98	75-125	1	20
Cobalt	N.D.	500	476.86	500	477.07	95	95	75-125	0	20
Copper	N.D.	250	260.25	250	257.43	104	103	75-125	1	20
Iron	N.D.	1000	1014.24	1000	1017.61	101	102	75-125	0	20
Lead	N.D.	150	144.36	150	141.3	96	94	75-125	2	20
Magnesium	770746.05	2000	770834.1	2000	790458.15	4 (2)	986 (2)	75-125	3	20
Manganese	53.23	500	562.94	500	559.95	102	101	75-125	1	20
Nickel	N.D.	500	481.53	500	480.56	96	96	75-125	0	20
Potassium	264701.04	10000	281211.72	10000	279319.59	165 (2)	146 (2)	75-125	1	20
Selenium	N.D.	150	79.65	150	74.66	53*	50*	75-125	6	20
Silver	N.D.	50	50.66	50	50.73	101	101	75-125	0	20
Sodium	6654885.4	10000	6626253.8	10000	6611954.8	-286 (2)	-429 (2)	75-125	0	20
Thallium	N.D.	150	119.62	150	129.01	80	86	75-125	8	20
Vanadium	N.D.	500	523.83	500	523.21	105	105	75-125	0	20
Zinc	12.15	500	521.22	500	522.37	102	102	75-125	0	20
Batch number: 173211063504	Sample number(s): 9320906-9320911,9320913 UNSPK: 9320907									
Aluminum	N.D.	2000	2000.52	2000	1987.07	100	99	75-125	1	20
Antimony	N.D.	500	533.42	500	529.6	107	106	75-125	1	20
Arsenic	N.D.	150	148.45	150	142.87	99	95	75-125	4	20
Barium	236.64	2000	2200.99	2000	2157.16	98	96	75-125	2	20
Beryllium	N.D.	50	50.12	50	49.02	100	98	75-125	2	20
Cadmium	N.D.	50	49.64	50	48.57	99	97	75-125	2	20
Calcium	123943.16	4000	124957.87	4000	123087.75	25 (2)	-21 (2)	75-125	2	20
Chromium	N.D.	200	202.24	200	197.86	101	99	75-125	2	20
Cobalt	N.D.	500	496.65	500	488.52	99	98	75-125	2	20
Copper	N.D.	250	270.02	250	263.69	108	105	75-125	2	20
Iron	13856.63	1000	15221.19	1000	14331.18	136 (2)	47 (2)	75-125	6	20
Lead	12.46	150	165.01	150	155.41	102	95	75-125	6	20
Magnesium	53341.04	2000	54246.77	2000	53326.2	45 (2)	-1 (2)	75-125	2	20

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Reported: 12/20/2017 12:17

Group Number: 1876058

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Manganese	538.67	500	1031.44	500	1004.53	99	93	75-125	3	20
Nickel	N.D.	500	495.38	500	488.57	99	98	75-125	1	20
Potassium	25156.37	10000	33807.7	10000	33269.99	87	81	75-125	2	20
Selenium	N.D.	150	140.64	150	129.25	94	86	75-125	8	20
Silver	N.D.	50	48.61	50	47.16	97	94	75-125	3	20
Sodium	388741.28	10000	392115.17	10000	388655.44	34 (2)	-1 (2)	75-125	1	20
Thallium	N.D.	150	139.35	150	143	93	95	75-125	3	20
Vanadium	N.D.	500	534	500	525.75	107	105	75-125	2	20
Zinc	N.D.	500	497.59	500	490.74	100	98	75-125	1	20

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc ug/l	DUP Conc ug/l	DUP RPD	DUP RPD Max
Batch number: 173200571305	Sample number(s): 9320912,9320919 BKG: P319477			
Mercury	N.D.	N.D.	0 (1)	20
Batch number: 173200571306	Sample number(s): 9320915 BKG: P319633			
Mercury	N.D.	N.D.	0 (1)	20
Batch number: 173201063504	Sample number(s): 9320912,9320915,9320919,9320921,9320924 BKG: P319633			
Aluminum	N.D.	N.D.	0 (1)	20
Antimony	11.76	N.D.	200* (1)	20
Arsenic	N.D.	N.D.	0 (1)	20
Barium	52.29	52.68	1	20
Beryllium	N.D.	N.D.	0 (1)	20
Cadmium	N.D.	N.D.	0 (1)	20
Calcium	25724.05	26028.84	1	20
Chromium	N.D.	N.D.	0 (1)	20
Cobalt	N.D.	N.D.	0 (1)	20
Copper	N.D.	N.D.	0 (1)	20
Iron	916.61	910.26	1 (1)	20
Lead	N.D.	N.D.	0 (1)	20
Magnesium	8621.37	8758.49	2	20
Manganese	65.58	66.48	1	20
Nickel	N.D.	N.D.	0 (1)	20
Potassium	6310.59	6321.27	0	20
Selenium	N.D.	N.D.	0 (1)	20

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1876058
Reported: 12/20/2017 12:17

Laboratory Duplicate (continued)

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
	ug/l	ug/l		
Silver	N.D.	N.D.	0 (1)	20
Sodium	62748.71	63838.08	2	20
Thallium	N.D.	N.D.	0 (1)	20
Vanadium	2.04	2.19	7 (1)	20
Zinc	N.D.	N.D.	0 (1)	20
Batch number: 173210571304	Sample number(s): 9320906-9320911,9320913-9320914,9320917-9320918,9320920-9320924,9320927 BKG: 9320907			
Mercury	N.D.	N.D.	0 (1)	20
Batch number: 173211063501	Sample number(s): 9320914,9320917-9320918,9320920,9320922-9320923,9320927 BKG: 9320920			
Aluminum	N.D.	N.D.	0 (1)	20
Antimony	N.D.	N.D.	0 (1)	20
Arsenic	20	N.D.	200* (1)	20
Barium	40.05	39.18	2 (1)	20
Beryllium	N.D.	N.D.	0 (1)	20
Cadmium	N.D.	N.D.	0 (1)	20
Calcium	263764.15	262304.79	1	20
Chromium	N.D.	N.D.	0 (1)	20
Cobalt	N.D.	N.D.	0 (1)	20
Copper	N.D.	N.D.	0 (1)	20
Iron	N.D.	N.D.	0 (1)	20
Lead	N.D.	N.D.	0 (1)	20
Magnesium	770746.05	773390.8	0	20
Manganese	53.23	52.64	1	20
Nickel	N.D.	N.D.	0 (1)	20
Potassium	264701.04	266103.52	1	20
Selenium	N.D.	N.D.	0 (1)	20
Silver	N.D.	N.D.	0 (1)	20
Sodium	6654885.4	6501957.8	2	20
Thallium	N.D.	N.D.	0 (1)	20
Vanadium	N.D.	N.D.	0 (1)	20
Zinc	12.15	11.73	4 (1)	20
Batch number: 173211063504	Sample number(s): 9320906-9320911,9320913 BKG: 9320907			
Aluminum	N.D.	N.D.	0 (1)	20
Antimony	N.D.	N.D.	0 (1)	20
Arsenic	N.D.	N.D.	0 (1)	20
Barium	236.64	233.15	1	20
Beryllium	N.D.	N.D.	0 (1)	20
Cadmium	N.D.	N.D.	0 (1)	20
Calcium	123943.16	122530.85	1	20
Chromium	N.D.	N.D.	0 (1)	20
Cobalt	N.D.	N.D.	0 (1)	20

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1876058
Reported: 12/20/2017 12:17

Laboratory Duplicate (continued)

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc ug/l	DUP Conc ug/l	DUP RPD	DUP RPD Max
Copper	N.D.	N.D.	0 (1)	20
Iron	13856.63	13794.38	0	20
Lead	12.46	8.45	38* (1)	20
Magnesium	53341.04	53016.59	1	20
Manganese	538.67	530.87	1	20
Nickel	N.D.	N.D.	0 (1)	20
Potassium	25156.37	25070.03	0	20
Selenium	N.D.	N.D.	0 (1)	20
Silver	N.D.	N.D.	0 (1)	20
Sodium	388741.28	383666.7	1	20
Thallium	N.D.	N.D.	0 (1)	20
Vanadium	N.D.	N.D.	0 (1)	20
Zinc	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report. For dual column analyses, the surrogate (at least one surrogate for multi-surrogate tests) must be within the acceptance limits on at least one of the two columns.

Analysis Name: GC/MS Volatiles - Pratt Oil
Batch number: L173242AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9320906	99	100	97	98
9320907	99	101	98	97
9320908	102	100	98	99
9320909	100	100	99	99
9320911	100	101	97	98
9320912	101	100	98	100
9320913	101	103	97	99
9320914	100	101	98	99
9320915	101	100	98	99
9320916	101	101	98	97
9320917	100	101	97	98
9320918	100	101	98	97
9320919	101	101	98	97
9320920	101	102	97	98
9320921	102	101	98	98
9320922	102	99	97	97

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1876058
Reported: 12/20/2017 12:17

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report. For dual column analyses, the surrogate (at least one surrogate for multi-surrogate tests) must be within the acceptance limits on at least one of the two columns.

Analysis Name: GC/MS Volatiles - Pratt Oil
Batch number: L173242AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9320923	101	101	97	98
9320924	102	102	97	98
Blank	100	102	98	99
LCS	101	100	99	100
MS	102	100	98	99
MSD	100	100	99	99
Limits:	80-120	80-120	80-120	80-120

Analysis Name: GC/MS Volatiles - Pratt Oil
Batch number: L173262AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9320927	101	102	97	98
Blank	102	103	98	98
LCS	102	103	98	100
MS	101	102	98	100
MSD	102	102	98	99
Limits:	80-120	80-120	80-120	80-120

Analysis Name: SVOAs 8270D MINI
Batch number: 17320WAS026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9320906	37	37	93	64	64	69
9320907	29	27	85	55	59	70
9320908	42	42	93	76	71	70
9320909	39	38	83	72	68	69
9320911	26	29	86	52	56	63
9320912	27	24	73	50	55	66
9320913	35	36	74	57	53	63
9320914	36	36	84	67	59	64
9320915	27	34	87	64	62	69
9320917	35	34	70	66	58	63
9320918	25	36	94	72	69	76
9320919	37	41	89	74	70	68
9320920	36	40	90	76	71	69
9320921	35	38	89	70	66	67
9320922	3*	1*	70	12*	30*	71
9320923	30	38	92	72	69	76

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1876058
Reported: 12/20/2017 12:17

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report. For dual column analyses, the surrogate (at least one surrogate for multi-surrogate tests) must be within the acceptance limits on at least one of the two columns.

Analysis Name: SVOAs 8270D MINI
Batch number: 17320WAS026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9320924	37	38	90	63	65	67
9320927	25	31	88	75	69	74
Blank	25	33	83	61	59	80
LCS	34	45	89	74	68	74
MS	42	42	93	76	71	70
MSD	39	38	83	72	68	69
Limits:	10-69	10-83	13-149	40-113	46-104	35-119

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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1376058

Acct. # 13438 Group # _____ EMES-Eurofins Agreement # A2604415 Sample # 9320906-27

Client: Roux Associates, Inc		
Project Name/#: FPOW	Site ID #:	
Project Manager: Tally Sodre	P.O. #: 0172.0291Y003	
Sampler: BT, CH, ND, BC	PWSID #:	
Phone #: (631) 630-2409	Quote #:	
State where samples were collected: ___ NY	For Compliance: Yes ☐ No ☐	

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Tissue	Water: Potable	Ground	Surface	NPDES	Other: Trip Blank	Total # of Containers	VOCs 8260C	SVOCs 8270D	Total Metals6010C/7470A	Dissolved Metals 6010C /7470 A
													Preservation: H		N		
MW-13	11/13/17	8:45						X					6	X	X	X	
MW-10	11/13/17	11:00						X					6	X	X	X	
MW-10 MS	11/13/17	11:10						X					6	X	X	X	
MW-10 MSD	11/13/17	11:20						X					6	X	X	X	
MW-52	11/13/17	13:00						X					6	X	X	X	
MW-49D	11/13/17	9:00						X					6	X	X	X	
MW-31	11/13/17	11:08						X					6	X	X	X	
MW-29	11/13/17	12:45						X					6	X	X	X	
MW-62	11/13/17	15:00						X					6	X	X	X	
TB17311	11/8/17											X	3	X			

Analyses Requested — Preservation and Filtration Codes

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
F = Field Filtered O = Other

Remarks

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address:

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NJ DKQP ☐ NYSDEC Category ☐ A or ☑ B

EDD Required? Yes ☑ No ☐ If yes, format: EQuIS and Excel

Relinquished by:	Date	Time	Received by:	Date	Time
	11/15/17	15:19		11-15-17	1519
	11-15-17	1920			

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt 2.6-4.8 °C

Environmental Analysis Request/Chain of Custody

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Acct. # 13438 Group # 1876058 EMES-Eurofins Agreement # A2604415 Sample # 9320906-27

Client: Roux Associates, Inc	
Project Name/#: FPOW	Site ID #:
Project Manager: Tally Sodre	P.O. #: 0172.0291Y003
Sampler: BT, CH, ND, BC	PWSID #:
Phone #: (631) 630-2409	Quote #:
State where samples were collected: NY	For Compliance: Yes ☐ No ☐

Matrix: ☐ Tissue ☐ Sediment ☐ Soil; Water: ☑ Ground ☐ Surface ☐ Potable ☐ NPDES; Other:

Analyses Requested — Preservation and Filtration Codes: VOCs 8260C (H), SVOCs 8270D, Total Metals6010C/7470A (N), Dissolved Metals 6010C/7470A

Sample Identification	Date	Time	Grab	Composite	Soil	Water	Other	Total # of Containers	VOCs 8260C	SVOCs 8270D	Total Metals6010C/7470A	Dissolved Metals 6010C/7470A	Remarks
DUP111317	11/13/17	9:05				X		6	X	X	X		
FB111317	11/13/17	14:45				X		6	X	X	X		
MW-46	11/15/17	8:35				X		6	X	X	X		
MW-8	11/15/17	9:50				X		6	X	X	X		
MW-11R	11/15/17	11:10				X		6	X	X	X		
MW-21	11/15/17	13:50				X		6	X	X	X		only 2 VOA bottles
MW-60D	11/15/17	8:45				X		6	X	X	X		
MW-20	11/15/17	10:01				X		6	X	X	X		
MW-63	11/15/17	13:52				X		6	H	H		H	Dissolved Metals, hold sample
MW-59	11/15/17	11:51				X		6	X	X	X		

For Lab Use Only
SF #:
SCR #:

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
F = Field Filtered O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:
Rush results requested by (please check): E-Mail ☐ Phone ☐
E-mail Address:
Phone:

Relinquished by	Date	Time	Received by	Date	Time
[signature]	11/15/17	15:19	[signature]	11-15-17	1519
[signature]	11-15-17	1920			
			[signature]	11/15/17	1920

Relinquished by Commercial Carrier:
UPS ______ FedEx ______ Other ______
Temperature upon receipt 2.6-4.8 °C

Data Package Options (please check if required)
Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NJ DKQP ☐ NYSDEC Category ☐ A or ☑ B
EDD Required? Yes ☑ No ☐ If yes, format: EQuIS and Excel

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Sample Administration Receipt Documentation Log

Doc Log ID: 201209

Group Number(s): 1876058

Client: ROUX

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	11/15/2017 19:20
Number of Packages:	3	Number of Projects:	1
State/Province of Origin:	NY		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	3
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Karen Diem (3060) at 22:05 on 11/15/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT42-02	2.6	DT	Wet	Y	Bagged	N
2	DT42-02	4.8	DT	Wet	Y	Bagged	N
3	DT42-02	4.3	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mg**	milligram(s)
C	degrees Celsius	**mL**	milliliter(s)
cfu	colony forming units	**MPN**	Most Probable Number
CP Units	cobalt-chloroplatinate units	**N.D.**	non-detect
F	degrees Fahrenheit	**ng**	nanogram(s)
g	gram(s)	**NTU**	nephelometric turbidity units
IU	International Units	**pg/L**	picogram/liter
kg	kilogram(s)	**RL**	Reporting Limit
L	liter(s)	**TNTC**	Too Numerous To Count
lb.	pound(s)	**µg**	microgram(s)
m3	cubic meter(s)	**µL**	microliter(s)
meq	milliequivalents	**umhos/cm**	micromhos/cm

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

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ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

ExxonMobil c/o Roux Associates
209 Shafter Street
Islandia NY 11749

Report Date: December 10, 2017 18:42

Project: FPOW

Account #: 13438
Group Number: 1877250
SDG: POW02
PO Number: 0172.0291Y003
State of Sample Origin: NY

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To	Roux Associates	Attn: Tally Sodre
Electronic Copy To	Roux Associates	Attn: Brandon Tufano

Respectfully Submitted,

Megan A. Moeller
Senior Specialist

(717) 556-7261



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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
MW-37 Grab Groundwater	11/16/2017 09:10	9326082
DUP111617 Grab Groundwater	11/16/2017 09:00	9326083
MW-69 Grab Groundwater	11/16/2017 12:35	9326084
MW-69 MS Grab Groundwater	11/16/2017 12:35	9326085
MW-69 MSD Grab Groundwater	11/16/2017 12:35	9326086
MW-69 DUP Grab Groundwater	11/16/2017 12:35	9326087
MW-1 Grab Groundwater	11/16/2017 09:20	9326088
MW-4D Grab Groundwater	11/16/2017 10:55	9326089
MW-15 Grab Groundwater	11/16/2017 13:45	9326090
FB111617 Grab Water	11/16/2017 14:30	9326091
MW-28 Grab Groundwater	11/17/2017 10:10	9326092
MW-28D Grab Groundwater	11/17/2017 11:00	9326093
TB17311 Water	11/08/2017	9326094

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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Project Name: FPOW
ELLE Group #: 1877250

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below.
Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set.

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

For dual column analyses, the surrogate (for multi-surrogate tests, at least one surrogate) must be within the acceptance limits on at least one of the two columns.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

SW-846 8260C, GC/MS Volatiles

Sample #s: 9326082, 9326083, 9326092, 9326093

Reporting limits were raised due to sample foaming.

Batch #: L173331AA (Sample number(s): 9326082-9326086, 9326088-9326091 UNSPK: 9326084)

The recovery(ies) for the following analyte(s) in the MS and/or MSD exceeded the acceptance window indicating a positive bias: 1,1-Dichloroethene

Batch #: L173341AA (Sample number(s): 9326092-9326094 UNSPK: P333976)

The recovery(ies) for the following analyte(s) in the MS and/or MSD exceeded the acceptance window indicating a positive bias: 1,1-Dichloroethene

SW-846 8270D, GC/MS Semivolatiles

Sample #s: 9326082, 9326083

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

Sample #s: 9326084, 9326085, 9326086, 9326088, 9326089, 9326090, 9326091, 9326092, 9326093

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is again outside of the acceptance limits. The data is reported from the initial trial. Similar results were obtained in both

trials.

Batch #: 17325WAS026 (Sample number(s): 9326082-9326083 UNSPK: 25WSUS)

The recovery(ies) for the following analyte(s) in the LCS were below the acceptance window: Acenaphthylene, Pyrene, Benzo(k)fluoranthene, Carbazole

The recovery(ies) for the following analyte(s) in the MS and/or MSD were below the acceptance window: 2,4,5-Trichlorophenol, 2-Chlorophenol, 2,4-Dichlorophenol, 2,4,6-Trichlorophenol, Pentachlorophenol, Acenaphthylene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene, 1,1'-Biphenyl, 2,3,4,6-Tetrachlorophenol, 1,4-Dioxane, 2-Nitroaniline, 3-Nitroaniline, 4-Nitroaniline, 2-Nitrophenol, 2,4-Dinitrophenol, 4-Nitrophenol, 4,6-Dinitro-2-methylphenol, N-Nitrosodiphenylamine, 4-Bromophenyl-phenylether, Hexachlorobenzene, 2-Methylphenol, Carbazole, Caprolactam

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside acceptance windows: 2,3,4,6-Tetrachlorophenol, 4-Methylphenol, 1,4-Dioxane, 2,4,5-Trichlorophenol, 2-Chlorophenol, Phenol, 2-Nitrophenol, 2,4-Dichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrophenol, 4-Nitrophenol, 4,6-Dinitro-2-methylphenol, Pentachlorophenol, Caprolactam

The recovery(ies) for one or more surrogates were below the acceptance window for sample(s) MS

Batch #: 17326WAA026 (Sample number(s): 9326084-9326086, 9326088-9326093 UNSPK: 9326084)

The recovery(ies) for the following analyte(s) in the LCS were below the acceptance window: 4-Chloroaniline, 3-Nitroaniline, Hexachlorocyclopentadiene, Acenaphthylene

The recovery(ies) for the following analyte(s) in the MS and/or MSD were below the acceptance window: Acenaphthylene

SW-846 6010C, Metals

Batch #: 173241063502 (Sample number(s): 9326092 UNSPK: P322204 BKG: P322204)

The recovery(ies) for the following analyte(s) in the MS and/or MSD were below the acceptance window: Calcium

Batch #: 173251063502 (Sample number(s): 9326082-9326091, 9326093 UNSPK: 9326084 BKG: 9326084)

The recovery(ies) for the following analyte(s) in the MS and/or MSD were below the acceptance window: Calcium, Magnesium, Sodium

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Aluminum, Iron

Sample Description: **MW-37 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 09:10
SDG#: POW02-01

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326082
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	60	200	10
11997	Benzene	71-43-2	27	5	10	10
11997	Bromochloromethane	74-97-5	N.D.	10	50	10
11997	Bromodichloromethane	75-27-4	N.D.	5	10	10
11997	Bromoform	75-25-2	N.D.	5	40	10
11997	Bromomethane	74-83-9	N.D.	5	10	10
11997	2-Butanone	78-93-3	N.D.	30	100	10
11997	Carbon Disulfide	75-15-0	N.D.	10	50	10
11997	Carbon Tetrachloride	56-23-5	N.D.	5	10	10
11997	Chlorobenzene	108-90-7	7 J	5	10	10
11997	Chloroethane	75-00-3	18	5	10	10
11997	Chloroform	67-66-3	N.D.	5	10	10
11997	Chloromethane	74-87-3	N.D.	5	10	10
11997	Cyclohexane	110-82-7	N.D.	20	50	10
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	20	50	10
11997	Dibromochloromethane	124-48-1	N.D.	5	10	10
11997	1,2-Dibromoethane	106-93-4	N.D.	5	10	10
11997	1,2-Dichlorobenzene	95-50-1	N.D.	10	50	10
11997	1,3-Dichlorobenzene	541-73-1	N.D.	10	50	10
11997	1,4-Dichlorobenzene	106-46-7	N.D.	10	50	10
11997	Dichlorodifluoromethane	75-71-8	N.D.	5	10	10
11997	1,1-Dichloroethane	75-34-3	N.D.	5	10	10
11997	1,2-Dichloroethane	107-06-2	N.D.	5	10	10
11997	1,1-Dichloroethene	75-35-4	N.D.	5	10	10
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	5	10	10
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	5	10	10
11997	1,2-Dichloropropane	78-87-5	N.D.	5	10	10
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	5	10	10
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	5	10	10
11997	Ethylbenzene	100-41-4	N.D.	5	10	10
11997	Freon 113	76-13-1	N.D.	20	100	10
11997	2-Hexanone	591-78-6	N.D.	30	100	10
11997	Isopropylbenzene	98-82-8	N.D.	10	50	10
11997	Methyl Acetate	79-20-9	N.D.	10	50	10
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	5	10	10
11997	4-Methyl-2-pentanone	108-10-1	N.D.	30	100	10
11997	Methylcyclohexane	108-87-2	N.D.	10	50	10
11997	Methylene Chloride	75-09-2	N.D.	5	10	10
11997	Styrene	100-42-5	N.D.	10	50	10
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	5	10	10

*=This limit was used in the evaluation of the final result

Sample Description: **MW-37 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 09:10
SDG#: POW02-01

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326082
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	5	10	10
11997	Toluene	108-88-3	N.D.	5	10	10
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	10	50	10
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	10	50	10
11997	1,1,1-Trichloroethane	71-55-6	N.D.	5	10	10
11997	1,1,2-Trichloroethane	79-00-5	N.D.	5	10	10
11997	Trichloroethene	79-01-6	N.D.	5	10	10
11997	Trichlorofluoromethane	75-69-4	N.D.	5	10	10
11997	Vinyl Chloride	75-01-4	N.D.	5	10	10
11997	m+p-Xylene	179601-23-1	N.D.	5	10	10
11997	o-Xylene	95-47-6	N.D.	5	10	10
11997	Xylene (Total)	1330-20-7	N.D.	5	10	10
	Reporting limits were raised due to sample foaming.					
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	0.7	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	0.2 J	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	0.1 J	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					

*=This limit was used in the evaluation of the final result

Sample Description: **MW-37 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 09:10
SDG#: POW02-01

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326082
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	0.3 J	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-37 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 09:10
SDG#: POW02-01

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326082
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	0.2 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	267	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	200,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	1.9 J	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	4,000	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	15,500	37.4	200	1
07058	Manganese	7439-96-5	917	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	40,200	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	394,000	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	1.7 J	1.6	10.0	1
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-37 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 09:10
SDG#: POW02-01

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326082
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173331AA	11/29/2017 11:40	Linda C Pape	10
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173331AA	11/29/2017 11:40	Linda C Pape	10
14241	SVOAs 8270D MINI	SW-846 8270D	1	17325WAS026	11/30/2017 14:07	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17325WAS026	11/22/2017 08:00	Bradley W VanLeuven	1
01743	Aluminum	SW-846 6010C	1	173251063502	11/25/2017 12:05	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173251063502	11/25/2017 12:05	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173251063502	11/25/2017 12:05	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	173251063502	11/25/2017 12:05	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173251063502	11/25/2017 12:05	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173251063502	11/25/2017 12:05	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173251063502	11/25/2017 12:05	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173251063502	11/25/2017 12:05	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173251063502	11/25/2017 12:05	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173251063502	11/28/2017 05:55	Jonathan J Allen	1
01754	Iron	SW-846 6010C	1	173251063502	11/25/2017 12:05	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173251063502	11/28/2017 05:55	Jonathan J Allen	1
01757	Magnesium	SW-846 6010C	1	173251063502	11/25/2017 12:05	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173251063502	11/25/2017 12:05	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173251063502	11/25/2017 12:05	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173251063502	11/25/2017 12:05	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	173251063502	11/25/2017 12:05	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010C	1	173251063502	11/25/2017 12:05	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173251063502	11/25/2017 12:05	Elaine F Stoltzfus	1
07022	Thallium	SW-846 6010C	1	173251063502	11/25/2017 12:05	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173251063502	11/25/2017 12:05	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173251063502	11/25/2017 12:05	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173250571303	11/26/2017 06:56	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173251063502	11/22/2017 16:45	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173250571303	11/22/2017 17:55	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP111617 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 09:00
SDG#: POW02-02FD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326083
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	60	200	10
11997	Benzene	71-43-2	27	5	10	10
11997	Bromochloromethane	74-97-5	N.D.	10	50	10
11997	Bromodichloromethane	75-27-4	N.D.	5	10	10
11997	Bromoform	75-25-2	N.D.	5	40	10
11997	Bromomethane	74-83-9	N.D.	5	10	10
11997	2-Butanone	78-93-3	N.D.	30	100	10
11997	Carbon Disulfide	75-15-0	N.D.	10	50	10
11997	Carbon Tetrachloride	56-23-5	N.D.	5	10	10
11997	Chlorobenzene	108-90-7	6 J	5	10	10
11997	Chloroethane	75-00-3	20	5	10	10
11997	Chloroform	67-66-3	N.D.	5	10	10
11997	Chloromethane	74-87-3	N.D.	5	10	10
11997	Cyclohexane	110-82-7	N.D.	20	50	10
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	20	50	10
11997	Dibromochloromethane	124-48-1	N.D.	5	10	10
11997	1,2-Dibromoethane	106-93-4	N.D.	5	10	10
11997	1,2-Dichlorobenzene	95-50-1	N.D.	10	50	10
11997	1,3-Dichlorobenzene	541-73-1	N.D.	10	50	10
11997	1,4-Dichlorobenzene	106-46-7	N.D.	10	50	10
11997	Dichlorodifluoromethane	75-71-8	N.D.	5	10	10
11997	1,1-Dichloroethane	75-34-3	N.D.	5	10	10
11997	1,2-Dichloroethane	107-06-2	N.D.	5	10	10
11997	1,1-Dichloroethene	75-35-4	N.D.	5	10	10
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	5	10	10
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	5	10	10
11997	1,2-Dichloropropane	78-87-5	N.D.	5	10	10
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	5	10	10
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	5	10	10
11997	Ethylbenzene	100-41-4	N.D.	5	10	10
11997	Freon 113	76-13-1	N.D.	20	100	10
11997	2-Hexanone	591-78-6	N.D.	30	100	10
11997	Isopropylbenzene	98-82-8	N.D.	10	50	10
11997	Methyl Acetate	79-20-9	N.D.	10	50	10
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	5	10	10
11997	4-Methyl-2-pentanone	108-10-1	N.D.	30	100	10
11997	Methylcyclohexane	108-87-2	N.D.	10	50	10
11997	Methylene Chloride	75-09-2	N.D.	5	10	10
11997	Styrene	100-42-5	N.D.	10	50	10
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	5	10	10

*=This limit was used in the evaluation of the final result

Sample Description: **DUP111617 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 09:00
SDG#: POW02-02FD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326083
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	5	10	10
11997	Toluene	108-88-3	N.D.	5	10	10
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	10	50	10
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	10	50	10
11997	1,1,1-Trichloroethane	71-55-6	N.D.	5	10	10
11997	1,1,2-Trichloroethane	79-00-5	N.D.	5	10	10
11997	Trichloroethene	79-01-6	N.D.	5	10	10
11997	Trichlorofluoromethane	75-69-4	N.D.	5	10	10
11997	Vinyl Chloride	75-01-4	N.D.	5	10	10
11997	m+p-Xylene	179601-23-1	N.D.	5	10	10
11997	o-Xylene	95-47-6	N.D.	5	10	10
11997	Xylene (Total)	1330-20-7	N.D.	5	10	10
	Reporting limits were raised due to sample foaming.					
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	1	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					

*=This limit was used in the evaluation of the final result

Sample Description: **DUP111617 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 09:00
SDG#: POW02-02FD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326083
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	0.5 J	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	0.1 J	0.1	0.5	1
14241	Fluorene	86-73-7	0.4 J	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP111617 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 09:00
SDG#: POW02-02FD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326083
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	0.2 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	264	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	199,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	3,960	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	15,500	37.4	200	1
07058	Manganese	7439-96-5	917	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	39,800	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	2.9 J	2.4	10.0	1
01767	Sodium	7440-23-5	389,000	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP111617 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 09:00
SDG#: POW02-02FD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326083
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173331AA	11/29/2017 12:02	Linda C Pape	10
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173331AA	11/29/2017 12:02	Linda C Pape	10
14241	SVOAs 8270D MINI	SW-846 8270D	1	17325WAS026	11/30/2017 14:35	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17325WAS026	11/22/2017 08:00	Bradley W VanLeuven	1
01743	Aluminum	SW-846 6010C	1	173251063502	11/25/2017 12:16	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173251063502	11/25/2017 12:16	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173251063502	11/25/2017 12:16	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	173251063502	11/25/2017 12:16	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173251063502	11/25/2017 12:16	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173251063502	11/25/2017 12:16	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173251063502	11/25/2017 12:16	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173251063502	11/25/2017 12:16	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173251063502	11/25/2017 12:16	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173251063502	11/29/2017 23:16	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	173251063502	11/25/2017 12:16	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173251063502	11/29/2017 23:16	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	173251063502	11/25/2017 12:16	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173251063502	11/25/2017 12:16	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173251063502	11/25/2017 12:16	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173251063502	11/25/2017 12:16	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	173251063502	11/25/2017 12:16	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010C	1	173251063502	11/25/2017 12:16	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173251063502	11/25/2017 12:16	Elaine F Stoltzfus	1
07022	Thallium	SW-846 6010C	1	173251063502	11/25/2017 12:16	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173251063502	11/25/2017 12:16	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173251063502	11/25/2017 12:16	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173250571303	11/26/2017 06:58	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173251063502	11/22/2017 16:45	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173250571303	11/22/2017 17:55	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 12:35
SDG#: POW02-03BKG

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326084
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 12:35
SDG#: POW02-03BKG

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326084
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 12:35
SDG#: POW02-03BKG

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326084
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 12:35
SDG#: POW02-03BKG

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326084
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	N.D.	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is again outside of the acceptance limits. The data is reported from the initial trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	115	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	144,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	N.D.	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	34,400	37.4	200	1
07058	Manganese	7439-96-5	14.0	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	2,600	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	61,700	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 12:35
SDG#: POW02-03BKG

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326084
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1
Metals	**SW-846 7470A**		**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173331AA	11/29/2017 12:24	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173331AA	11/29/2017 12:24	Linda C Pape	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17326WAA026	11/28/2017 14:00	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17326WAA026	11/22/2017 17:19	Kate E Lutte	1
01743	Aluminum	SW-846 6010C	1	173251063502	11/25/2017 11:39	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173251063502	11/25/2017 11:39	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173251063502	11/25/2017 11:39	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	173251063502	11/25/2017 11:39	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173251063502	11/25/2017 11:39	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173251063502	11/25/2017 11:39	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173251063502	11/25/2017 11:39	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173251063502	11/25/2017 11:39	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173251063502	11/25/2017 11:39	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173251063502	11/28/2017 05:32	Jonathan J Allen	1
01754	Iron	SW-846 6010C	1	173251063502	11/25/2017 11:39	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173251063502	11/28/2017 05:32	Jonathan J Allen	1
01757	Magnesium	SW-846 6010C	1	173251063502	11/25/2017 11:39	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173251063502	11/25/2017 11:39	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173251063502	11/25/2017 11:39	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173251063502	11/25/2017 11:39	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	173251063502	11/25/2017 11:39	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010C	1	173251063502	11/25/2017 11:39	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173251063502	11/25/2017 11:39	Elaine F Stoltzfus	1
07022	Thallium	SW-846 6010C	1	173251063502	11/25/2017 11:39	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173251063502	11/25/2017 11:39	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173251063502	11/25/2017 11:39	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173250571303	11/26/2017 06:36	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173251063502	11/22/2017 16:45	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173250571303	11/22/2017 17:55	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 MS Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 12:35
SDG#: POW02-03MS

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326085
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	140	6	20	1
11997	Benzene	71-43-2	21	0.5	1	1
11997	Bromochloromethane	74-97-5	20	1	5	1
11997	Bromodichloromethane	75-27-4	20	0.5	1	1
11997	Bromoform	75-25-2	18	0.5	4	1
11997	Bromomethane	74-83-9	22	0.5	1	1
11997	2-Butanone	78-93-3	150	3	10	1
11997	Carbon Disulfide	75-15-0	23	1	5	1
11997	Carbon Tetrachloride	56-23-5	21	0.5	1	1
11997	Chlorobenzene	108-90-7	20	0.5	1	1
11997	Chloroethane	75-00-3	21	0.5	1	1
11997	Chloroform	67-66-3	21	0.5	1	1
11997	Chloromethane	74-87-3	22	0.5	1	1
11997	Cyclohexane	110-82-7	22	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	17	2	5	1
11997	Dibromochloromethane	124-48-1	19	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	20	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	20	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	20	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	20	1	5	1
11997	Dichlorodifluoromethane	75-71-8	22	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	21	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	20	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	25	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	22	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	23	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	21	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	19	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	18	0.5	1	1
11997	Ethylbenzene	100-41-4	21	0.5	1	1
11997	Freon 113	76-13-1	26	2	10	1
11997	2-Hexanone	591-78-6	98	3	10	1
11997	Isopropylbenzene	98-82-8	21	1	5	1
11997	Methyl Acetate	79-20-9	19	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	20	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	98	3	10	1
11997	Methylcyclohexane	108-87-2	22	1	5	1
11997	Methylene Chloride	75-09-2	21	0.5	1	1
11997	Styrene	100-42-5	21	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	19	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 MS Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 12:35
SDG#: POW02-03MS

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326085
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**		**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	22		0.5	1	1
11997	Toluene	108-88-3	21		0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	17		1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	17		1	5	1
11997	1,1,1-Trichloroethane	71-55-6	20		0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	20		0.5	1	1
11997	Trichloroethene	79-01-6	21		0.5	1	1
11997	Trichlorofluoromethane	75-69-4	23		0.5	1	1
11997	Vinyl Chloride	75-01-4	22		0.5	1	1
11997	m+p-Xylene	179601-23-1	42		0.5	1	1
11997	o-Xylene	95-47-6	20		0.5	1	1
11997	Xylene (Total)	1330-20-7	63		0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**		**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	38		0.1	0.5	1
14241	Acenaphthylene	208-96-8	1		0.1	0.5	1
14241	Acetophenone	98-86-2	38		0.5	1	1
14241	Anthracene	120-12-7	39		0.1	0.5	1
14241	Atrazine	1912-24-9	42		2	5	1
14241	Benzaldehyde	100-52-7	40		1	5	1
14241	Benzo(a)anthracene	56-55-3	45		0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	38		0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	40		0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	37		0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	40		0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	36		0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	44		0.5	1	1
14241	Butylbenzylphthalate	85-68-7	41		2	5	1
14241	Di-n-butylphthalate	84-74-2	42		2	5	1
14241	Caprolactam	105-60-2	12	J	5	15	1
14241	Carbazole	86-74-8	41		0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	47		0.5	1	1
14241	4-Chloroaniline	106-47-8	22		2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	42		0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	37		0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	31		0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
14241	2-Chloronaphthalene	91-58-7	33		0.4	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 MS Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 12:35
SDG#: POW02-03MS

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326085
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**		**ug/l**	**ug/l**	
14241	2-Chlorophenol	95-57-8	35		0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	44		0.5	1	1
14241	Chrysene	218-01-9	45		0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	39		0.1	0.5	1
14241	Dibenzofuran	132-64-9	41		0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	38		2	5	1
14241	2,4-Dichlorophenol	120-83-2	42		0.5	1	1
14241	Diethylphthalate	84-66-2	42		2	5	1
14241	2,4-Dimethylphenol	105-67-9	36		0.5	1	1
14241	Dimethylphthalate	131-11-3	41		2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	43		5	15	1
14241	2,4-Dinitrophenol	51-28-5	99		10	30	1
14241	2,4-Dinitrotoluene	121-14-2	44		1	5	1
14241	2,6-Dinitrotoluene	606-20-2	44		0.5	1	1
14241	1,4-Dioxane	123-91-1	16		1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	42		2	5	1
14241	Fluoranthene	206-44-0	42		0.1	0.5	1
14241	Fluorene	86-73-7	41		0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	42		0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	37		0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	19		5	15	1
14241	Hexachloroethane	67-72-1	28		1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	38		0.1	0.5	1
14241	Isophorone	78-59-1	42		0.5	1	1
14241	2-Methylnaphthalene	91-57-6	37		0.1	0.5	1
14241	2-Methylphenol	95-48-7	37		0.5	1	1
14241	4-Methylphenol	106-44-5	39		0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
14241	Naphthalene	91-20-3	35		0.1	0.5	1
14241	2-Nitroaniline	88-74-4	41		0.5	1	1
14241	3-Nitroaniline	99-09-2	31		0.5	1	1
14241	4-Nitroaniline	100-01-6	38		0.5	1	1
14241	Nitrobenzene	98-95-3	39		0.5	1	1
14241	2-Nitrophenol	88-75-5	44		0.5	1	1
14241	4-Nitrophenol	100-02-7	25	J	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	40		0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	40		0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 MS Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 12:35
SDG#: POW02-03MS

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326085
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	40	2	5	1
14241	Pentachlorophenol	87-86-5	43	1	5	1
14241	Phenanthrene	85-01-8	38	0.1	0.5	1
14241	Phenol	108-95-2	29	0.5	1	1
14241	Pyrene	129-00-0	39	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	37	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	52	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	46	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	45	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is again outside of the acceptance limits. The data is reported from the initial trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	2,190	89.4	400	1
07044	Antimony	7440-36-0	498	8.7	40.0	1
07035	Arsenic	7440-38-2	153	9.6	40.0	1
07046	Barium	7440-39-3	2,150	0.85	10.0	1
07047	Beryllium	7440-41-7	49.6	2.0	10.0	1
07049	Cadmium	7440-43-9	49.7	1.8	10.0	1
01750	Calcium	7440-70-2	144,000	60.0	400	1
07051	Chromium	7440-47-3	195	3.3	30.0	1
07052	Cobalt	7440-48-4	499	1.7	10.0	1
07053	Copper	7440-50-8	242	4.0	20.0	1
01754	Iron	7439-89-6	1,050	80.5	400	1
07055	Lead	7439-92-1	143	6.0	30.0	1
01757	Magnesium	7439-95-4	35,800	37.4	200	1
07058	Manganese	7439-96-5	527	1.6	10.0	1
07061	Nickel	7440-02-0	506	4.0	20.0	1
01762	Potassium	7440-09-7	12,600	179	1,000	1
07036	Selenium	7782-49-2	152	9.3	40.0	1
07066	Silver	7440-22-4	52.4	2.4	10.0	1
01767	Sodium	7440-23-5	69,100	321	2,000	1
07022	Thallium	7440-28-0	145	13.7	60.0	1
07071	Vanadium	7440-62-2	507	1.6	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 MS Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 12:35
SDG#: POW02-03MS

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326085
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010C**	**ug/l**	**ug/l**	**ug/l**	
07072	Zinc	7440-66-6	502	6.5	40.0	1
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	0.96	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173331AA	11/29/2017 12:46	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173331AA	11/29/2017 12:46	Linda C Pape	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17326WAA026	11/28/2017 14:27	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17326WAA026	11/22/2017 17:19	Kate E Lutte	1
01743	Aluminum	SW-846 6010C	1	173251063502	11/25/2017 11:50	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173251063502	11/25/2017 11:50	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173251063502	11/25/2017 11:50	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	173251063502	11/25/2017 11:50	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173251063502	11/25/2017 11:50	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173251063502	11/25/2017 11:50	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173251063502	11/25/2017 11:50	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173251063502	11/25/2017 11:50	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173251063502	11/25/2017 11:50	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173251063502	11/28/2017 05:44	Jonathan J Allen	1
01754	Iron	SW-846 6010C	1	173251063502	11/25/2017 11:50	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173251063502	11/28/2017 05:44	Jonathan J Allen	1
01757	Magnesium	SW-846 6010C	1	173251063502	11/25/2017 11:50	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173251063502	11/25/2017 11:50	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173251063502	11/25/2017 11:50	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173251063502	11/25/2017 11:50	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	173251063502	11/25/2017 11:50	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010C	1	173251063502	11/25/2017 11:50	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173251063502	11/25/2017 11:50	Elaine F Stoltzfus	1
07022	Thallium	SW-846 6010C	1	173251063502	11/25/2017 11:50	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173251063502	11/25/2017 11:50	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173251063502	11/25/2017 11:50	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173250571303	11/26/2017 06:40	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173251063502	11/22/2017 16:45	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173250571303	11/22/2017 17:55	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 MSD Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 12:35
SDG#: POW02-03MSD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326086
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	120	6	20	1
11997	Benzene	71-43-2	21	0.5	1	1
11997	Bromochloromethane	74-97-5	20	1	5	1
11997	Bromodichloromethane	75-27-4	20	0.5	1	1
11997	Bromoform	75-25-2	18	0.5	4	1
11997	Bromomethane	74-83-9	21	0.5	1	1
11997	2-Butanone	78-93-3	150	3	10	1
11997	Carbon Disulfide	75-15-0	23	1	5	1
11997	Carbon Tetrachloride	56-23-5	21	0.5	1	1
11997	Chlorobenzene	108-90-7	21	0.5	1	1
11997	Chloroethane	75-00-3	19	0.5	1	1
11997	Chloroform	67-66-3	21	0.5	1	1
11997	Chloromethane	74-87-3	21	0.5	1	1
11997	Cyclohexane	110-82-7	22	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	17	2	5	1
11997	Dibromochloromethane	124-48-1	19	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	20	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	20	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	20	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	20	1	5	1
11997	Dichlorodifluoromethane	75-71-8	21	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	21	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	20	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	25	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	22	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	23	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	21	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	19	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	19	0.5	1	1
11997	Ethylbenzene	100-41-4	21	0.5	1	1
11997	Freon 113	76-13-1	25	2	10	1
11997	2-Hexanone	591-78-6	99	3	10	1
11997	Isopropylbenzene	98-82-8	21	1	5	1
11997	Methyl Acetate	79-20-9	20	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	20	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	100	3	10	1
11997	Methylcyclohexane	108-87-2	22	1	5	1
11997	Methylene Chloride	75-09-2	21	0.5	1	1
11997	Styrene	100-42-5	21	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	19	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 MSD Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 12:35
SDG#: POW02-03MSD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326086
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**		**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	22		0.5	1	1
11997	Toluene	108-88-3	21		0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	18		1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	17		1	5	1
11997	1,1,1-Trichloroethane	71-55-6	21		0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	20		0.5	1	1
11997	Trichloroethene	79-01-6	22		0.5	1	1
11997	Trichlorofluoromethane	75-69-4	22		0.5	1	1
11997	Vinyl Chloride	75-01-4	21		0.5	1	1
11997	m+p-Xylene	179601-23-1	42		0.5	1	1
11997	o-Xylene	95-47-6	20		0.5	1	1
11997	Xylene (Total)	1330-20-7	63		0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**		**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	37		0.1	0.5	1
14241	Acenaphthylene	208-96-8	1		0.1	0.5	1
14241	Acetophenone	98-86-2	38		0.5	1	1
14241	Anthracene	120-12-7	38		0.1	0.5	1
14241	Atrazine	1912-24-9	42		2	5	1
14241	Benzaldehyde	100-52-7	39		1	5	1
14241	Benzo(a)anthracene	56-55-3	42		0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	37		0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	40		0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	33		0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	39		0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	34		0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	43		0.5	1	1
14241	Butylbenzylphthalate	85-68-7	38		2	5	1
14241	Di-n-butylphthalate	84-74-2	41		2	5	1
14241	Caprolactam	105-60-2	12	J	5	15	1
14241	Carbazole	86-74-8	40		0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	48		0.5	1	1
14241	4-Chloroaniline	106-47-8	23		2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	41		0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	37		0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	31		0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
14241	2-Chloronaphthalene	91-58-7	30		0.4	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 MSD Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 12:35
SDG#: POW02-03MSD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326086
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**		**ug/l**	**ug/l**	
14241	2-Chlorophenol	95-57-8	35		0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	42		0.5	1	1
14241	Chrysene	218-01-9	41		0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	36		0.1	0.5	1
14241	Dibenzofuran	132-64-9	38		0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	33		2	5	1
14241	2,4-Dichlorophenol	120-83-2	43		0.5	1	1
14241	Diethylphthalate	84-66-2	43		2	5	1
14241	2,4-Dimethylphenol	105-67-9	36		0.5	1	1
14241	Dimethylphthalate	131-11-3	40		2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	44		5	15	1
14241	2,4-Dinitrophenol	51-28-5	100		10	30	1
14241	2,4-Dinitrotoluene	121-14-2	44		1	5	1
14241	2,6-Dinitrotoluene	606-20-2	43		0.5	1	1
14241	1,4-Dioxane	123-91-1	17		1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	39		2	5	1
14241	Fluoranthene	206-44-0	42		0.1	0.5	1
14241	Fluorene	86-73-7	40		0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	40		0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	36		0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	17		5	15	1
14241	Hexachloroethane	67-72-1	28		1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	34		0.1	0.5	1
14241	Isophorone	78-59-1	42		0.5	1	1
14241	2-Methylnaphthalene	91-57-6	37		0.1	0.5	1
14241	2-Methylphenol	95-48-7	38		0.5	1	1
14241	4-Methylphenol	106-44-5	40		0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
14241	Naphthalene	91-20-3	34		0.1	0.5	1
14241	2-Nitroaniline	88-74-4	40		0.5	1	1
14241	3-Nitroaniline	99-09-2	31		0.5	1	1
14241	4-Nitroaniline	100-01-6	37		0.5	1	1
14241	Nitrobenzene	98-95-3	38		0.5	1	1
14241	2-Nitrophenol	88-75-5	44		0.5	1	1
14241	4-Nitrophenol	100-02-7	24	J	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	41		0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	39		0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 MSD Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 12:35
SDG#: POW02-03MSD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326086
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	40	2	5	1
14241	Pentachlorophenol	87-86-5	43	1	5	1
14241	Phenanthrene	85-01-8	37	0.1	0.5	1
14241	Phenol	108-95-2	28	0.5	1	1
14241	Pyrene	129-00-0	37	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	34	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	51	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	46	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	45	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is again outside of the acceptance limits. The data is reported from the initial trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	2,210	89.4	400	1
07044	Antimony	7440-36-0	516	8.7	40.0	1
07035	Arsenic	7440-38-2	155	9.6	40.0	1
07046	Barium	7440-39-3	2,280	0.85	10.0	1
07047	Beryllium	7440-41-7	50.6	2.0	10.0	1
07049	Cadmium	7440-43-9	50.6	1.8	10.0	1
01750	Calcium	7440-70-2	144,000	60.0	400	1
07051	Chromium	7440-47-3	197	3.3	30.0	1
07052	Cobalt	7440-48-4	507	1.7	10.0	1
07053	Copper	7440-50-8	245	4.0	20.0	1
01754	Iron	7439-89-6	1,030	80.5	400	1
07055	Lead	7439-92-1	144	6.0	30.0	1
01757	Magnesium	7439-95-4	35,800	37.4	200	1
07058	Manganese	7439-96-5	535	1.6	10.0	1
07061	Nickel	7440-02-0	514	4.0	20.0	1
01762	Potassium	7440-09-7	12,600	179	1,000	1
07036	Selenium	7782-49-2	167	9.3	40.0	1
07066	Silver	7440-22-4	52.1	2.4	10.0	1
01767	Sodium	7440-23-5	68,500	321	2,000	1
07022	Thallium	7440-28-0	156	13.7	60.0	1
07071	Vanadium	7440-62-2	514	1.6	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 MSD Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 12:35
SDG#: POW02-03MSD

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326086
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
07072	Zinc	7440-66-6	513	6.5	40.0	1
Metals	**SW-846 7470A**		**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	0.95	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173331AA	11/29/2017 13:08	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173331AA	11/29/2017 13:08	Linda C Pape	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17326WAA026	11/28/2017 14:54	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17326WAA026	11/22/2017 17:19	Kate E Lutte	1
01743	Aluminum	SW-846 6010C	1	173251063502	11/25/2017 11:54	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173251063502	11/25/2017 11:54	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173251063502	11/25/2017 11:54	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	173251063502	11/25/2017 11:54	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173251063502	11/25/2017 11:54	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173251063502	11/25/2017 11:54	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173251063502	11/25/2017 11:54	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173251063502	11/25/2017 11:54	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173251063502	11/25/2017 11:54	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173251063502	11/28/2017 05:47	Jonathan J Allen	1
01754	Iron	SW-846 6010C	1	173251063502	11/25/2017 11:54	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173251063502	11/28/2017 05:47	Jonathan J Allen	1
01757	Magnesium	SW-846 6010C	1	173251063502	11/25/2017 11:54	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173251063502	11/25/2017 11:54	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173251063502	11/25/2017 11:54	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173251063502	11/25/2017 11:54	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	173251063502	11/25/2017 11:54	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010C	1	173251063502	11/25/2017 11:54	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173251063502	11/25/2017 11:54	Elaine F Stoltzfus	1
07022	Thallium	SW-846 6010C	1	173251063502	11/25/2017 11:54	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173251063502	11/25/2017 11:54	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173251063502	11/25/2017 11:54	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173250571303	11/26/2017 06:42	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173251063502	11/22/2017 16:45	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173250571303	11/22/2017 17:55	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 DUP Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 12:35
SDG#: POW02-03DUP

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326087
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	95.7 J	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	114	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	142,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	99.1 J	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	34,400	37.4	200	1
07058	Manganese	7439-96-5	15.7	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	2,790	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	61,400	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1
	SW-846 7470A		**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010C	1	173251063502	11/25/2017 11:47	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173251063502	11/25/2017 11:47	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173251063502	11/25/2017 11:47	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	173251063502	11/25/2017 11:47	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173251063502	11/25/2017 11:47	Elaine F Stoltzfus	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-69 DUP Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 12:35
SDG#: POW02-03DUP

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326087
ELLE Group #: 1877250
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010C	1	173251063502	11/25/2017 11:47	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173251063502	11/25/2017 11:47	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173251063502	11/25/2017 11:47	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173251063502	11/25/2017 11:47	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173251063502	11/28/2017 05:40	Jonathan J Allen	1
01754	Iron	SW-846 6010C	1	173251063502	11/25/2017 11:47	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173251063502	11/28/2017 05:40	Jonathan J Allen	1
01757	Magnesium	SW-846 6010C	1	173251063502	11/25/2017 11:47	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173251063502	11/25/2017 11:47	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173251063502	11/25/2017 11:47	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173251063502	11/25/2017 11:47	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	173251063502	11/25/2017 11:47	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010C	1	173251063502	11/25/2017 11:47	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173251063502	11/25/2017 11:47	Elaine F Stoltzfus	1
07022	Thallium	SW-846 6010C	1	173251063502	11/25/2017 11:47	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173251063502	11/25/2017 11:47	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173251063502	11/25/2017 11:47	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173250571303	11/26/2017 06:38	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173251063502	11/22/2017 16:45	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173250571303	11/22/2017 17:55	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-1 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 09:20
SDG#: POW02-04

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326088
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	2	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	0.7 J	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	3	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	2	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-1 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 09:20
SDG#: POW02-04

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326088
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	2	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	0.3 J	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	0.2 J	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-1 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 09:20
SDG#: POW02-04

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326088
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	0.3 J	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	0.2 J	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-1 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 09:20
SDG#: POW02-04

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326088
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	0.2 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is again outside of the acceptance limits. The data is reported from the initial trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	377	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	264,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	1.8 J	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	430	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	21,200	37.4	200	1
07058	Manganese	7439-96-5	1,850	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	21,600	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	357,000	321	2,000	1
07022	Thallium	7440-28-0	14.6 J	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-1 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 09:20
SDG#: POW02-04

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326088
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010C**	**ug/l**	**ug/l**	**ug/l**	
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173331AA	11/29/2017 13:29	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173331AA	11/29/2017 13:29	Linda C Pape	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17326WAA026	11/28/2017 15:22	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17326WAA026	11/22/2017 17:19	Kate E Lutte	1
01743	Aluminum	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173251063502	11/29/2017 23:27	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
07022	Thallium	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173251063502	11/25/2017 12:20	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173250571303	11/26/2017 07:00	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173251063502	11/22/2017 16:45	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173250571303	11/22/2017 17:55	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-4D Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 10:55
SDG#: POW02-05

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326089
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	70	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	7	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	3 J	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	3 J	3	10	1
11997	Methylcyclohexane	108-87-2	11	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-4D Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 10:55
SDG#: POW02-05

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326089
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	0.5 J	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.5 J	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	0.3 J	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	0.2 J	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	0.1 J	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	0.2 J	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	0.1 J	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-4D Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 10:55
SDG#: POW02-05

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326089
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	0.2 J	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	0.6	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-4D Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 10:55
SDG#: POW02-05

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326089
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	0.5 J	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	0.2 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is again outside of the acceptance limits. The data is reported from the initial trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	62.9	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	25,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	1.8 J	1.7	10.0	1
07053	Copper	7440-50-8	9.0 J	4.0	20.0	1
01754	Iron	7439-89-6	9,100	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	3,550	37.4	200	1
07058	Manganese	7439-96-5	156	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	6,230	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	54,200	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-4D Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 10:55
SDG#: POW02-05

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326089
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010C**	**ug/l**	**ug/l**	**ug/l**	
07072	Zinc	7440-66-6	174	6.5	40.0	1
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173331AA	11/29/2017 13:51	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173331AA	11/29/2017 13:51	Linda C Pape	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17326WAA026	11/28/2017 15:49	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17326WAA026	11/22/2017 17:19	Kate E Lutte	1
01743	Aluminum	SW-846 6010C	1	173251063502	11/25/2017 12:23	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173251063502	11/25/2017 12:23	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173251063502	11/25/2017 12:23	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	173251063502	11/25/2017 12:23	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173251063502	11/25/2017 12:23	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173251063502	11/25/2017 12:23	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173251063502	11/25/2017 12:23	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173251063502	11/25/2017 12:23	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173251063502	11/25/2017 12:23	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173251063502	11/28/2017 06:14	Jonathan J Allen	1
01754	Iron	SW-846 6010C	1	173251063502	11/25/2017 12:23	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173251063502	11/28/2017 06:14	Jonathan J Allen	1
01757	Magnesium	SW-846 6010C	1	173251063502	11/25/2017 12:23	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173251063502	11/25/2017 12:23	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173251063502	11/25/2017 12:23	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173251063502	11/25/2017 12:23	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	173251063502	11/25/2017 12:23	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010C	1	173251063502	11/25/2017 12:23	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173251063502	11/25/2017 12:23	Elaine F Stoltzfus	1
07022	Thallium	SW-846 6010C	1	173251063502	11/25/2017 12:23	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173251063502	11/25/2017 12:23	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173251063502	11/25/2017 12:23	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173250571303	11/26/2017 07:02	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173251063502	11/22/2017 16:45	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173250571303	11/22/2017 17:55	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-15 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 13:45
SDG#: POW02-06

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326090
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	0.7 J	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-15 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 13:45
SDG#: POW02-06

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326090
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	0.2 J	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	0.1 J	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	0.1 J	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-15 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 13:45
SDG#: POW02-06

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326090
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	0.1 J	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	0.4 J	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-15 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 13:45
SDG#: POW02-06

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326090
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	0.2 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is again outside of the acceptance limits. The data is reported from the initial trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	119 J	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	20.8 J	9.6	40.0	1
07046	Barium	7440-39-3	177	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	2.8 J	1.8	10.0	1
01750	Calcium	7440-70-2	59,900	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	6.0 J	4.0	20.0	1
01754	Iron	7439-89-6	52,900	80.5	400	1
07055	Lead	7439-92-1	6.6 J	6.0	30.0	1
01757	Magnesium	7439-95-4	7,290	37.4	200	1
07058	Manganese	7439-96-5	604	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	12,500	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	200,000	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-15 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 13:45
SDG#: POW02-06

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326090
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010C**	**ug/l**		**ug/l**	**ug/l**	
07072	Zinc	7440-66-6	13.3	J	6.5	40.0	1
Metals		**SW-846 7470A**	**ug/l**		**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.		0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173331AA	11/29/2017 14:13	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173331AA	11/29/2017 14:13	Linda C Pape	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17326WAA026	11/28/2017 16:16	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17326WAA026	11/22/2017 17:19	Kate E Lutte	1
01743	Aluminum	SW-846 6010C	1	173251063502	11/25/2017 12:27	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173251063502	11/25/2017 12:27	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173251063502	11/25/2017 12:27	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	173251063502	11/25/2017 12:27	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173251063502	11/25/2017 12:27	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173251063502	11/25/2017 12:27	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173251063502	11/25/2017 12:27	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173251063502	11/25/2017 12:27	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173251063502	11/25/2017 12:27	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173251063502	11/28/2017 06:18	Jonathan J Allen	1
01754	Iron	SW-846 6010C	1	173251063502	11/25/2017 12:27	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173251063502	11/28/2017 06:18	Jonathan J Allen	1
01757	Magnesium	SW-846 6010C	1	173251063502	11/25/2017 12:27	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173251063502	11/25/2017 12:27	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173251063502	11/25/2017 12:27	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173251063502	11/25/2017 12:27	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	173251063502	11/25/2017 12:27	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010C	1	173251063502	11/25/2017 12:27	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173251063502	11/25/2017 12:27	Elaine F Stoltzfus	1
07022	Thallium	SW-846 6010C	1	173251063502	11/25/2017 12:27	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173251063502	11/25/2017 12:27	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173251063502	11/25/2017 12:27	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173250571303	11/26/2017 07:04	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173251063502	11/22/2017 16:45	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173250571303	11/22/2017 17:55	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **FB111617 Grab Water**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 14:30
SDG#: POW02-07FB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326091
ELLE Group #: 1877250
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **FB111617 Grab Water**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 14:30
SDG#: POW02-07FB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326091
ELLE Group #: 1877250
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **FB111617 Grab Water**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 14:30
SDG#: POW02-07FB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326091
ELLE Group #: 1877250
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	N.D.	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **FB111617 Grab Water**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 14:30
SDG#: POW02-07FB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326091
ELLE Group #: 1877250
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	N.D.	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is again outside of the acceptance limits. The data is reported from the initial trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	N.D.	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	N.D.	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	N.D.	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	N.D.	37.4	200	1
07058	Manganese	7439-96-5	N.D.	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	N.D.	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	N.D.	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	N.D.	1.6	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **FB111617 Grab Water**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/16/2017 14:30
SDG#: POW02-07FB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326091
ELLE Group #: 1877250
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010C**	**ug/l**	**ug/l**	**ug/l**	
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173331AA	11/29/2017 14:35	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173331AA	11/29/2017 14:35	Linda C Pape	1
14241	SVOAs 8270D MINI	SW-846 8270D	1	17326WAA026	11/28/2017 16:44	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17326WAA026	11/22/2017 17:19	Kate E Lutte	1
01743	Aluminum	SW-846 6010C	1	173251063502	11/25/2017 12:30	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173251063502	11/25/2017 12:30	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173251063502	11/25/2017 12:30	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	173251063502	11/25/2017 12:30	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173251063502	11/25/2017 12:30	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173251063502	11/25/2017 12:30	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173251063502	11/25/2017 12:30	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173251063502	11/25/2017 12:30	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173251063502	11/25/2017 12:30	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173251063502	11/28/2017 06:22	Jonathan J Allen	1
01754	Iron	SW-846 6010C	1	173251063502	11/25/2017 12:30	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173251063502	11/28/2017 06:22	Jonathan J Allen	1
01757	Magnesium	SW-846 6010C	1	173251063502	11/25/2017 12:30	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173251063502	11/25/2017 12:30	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173251063502	11/25/2017 12:30	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173251063502	11/25/2017 12:30	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	173251063502	11/25/2017 12:30	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010C	1	173251063502	11/25/2017 12:30	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173251063502	11/25/2017 12:30	Elaine F Stoltzfus	1
07022	Thallium	SW-846 6010C	1	173251063502	11/25/2017 12:30	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173251063502	11/25/2017 12:30	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173251063502	11/25/2017 12:30	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173250571303	11/26/2017 07:06	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173251063502	11/22/2017 16:45	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173250571303	11/22/2017 17:55	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-28 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/17/2017 10:10
SDG#: POW02-08

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326092
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	60	200	10
11997	Benzene	71-43-2	7 J	5	10	10
11997	Bromochloromethane	74-97-5	N.D.	10	50	10
11997	Bromodichloromethane	75-27-4	N.D.	5	10	10
11997	Bromoform	75-25-2	N.D.	5	40	10
11997	Bromomethane	74-83-9	N.D.	5	10	10
11997	2-Butanone	78-93-3	N.D.	30	100	10
11997	Carbon Disulfide	75-15-0	N.D.	10	50	10
11997	Carbon Tetrachloride	56-23-5	N.D.	5	10	10
11997	Chlorobenzene	108-90-7	N.D.	5	10	10
11997	Chloroethane	75-00-3	30	5	10	10
11997	Chloroform	67-66-3	N.D.	5	10	10
11997	Chloromethane	74-87-3	N.D.	5	10	10
11997	Cyclohexane	110-82-7	N.D.	20	50	10
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	20	50	10
11997	Dibromochloromethane	124-48-1	N.D.	5	10	10
11997	1,2-Dibromoethane	106-93-4	N.D.	5	10	10
11997	1,2-Dichlorobenzene	95-50-1	N.D.	10	50	10
11997	1,3-Dichlorobenzene	541-73-1	N.D.	10	50	10
11997	1,4-Dichlorobenzene	106-46-7	N.D.	10	50	10
11997	Dichlorodifluoromethane	75-71-8	N.D.	5	10	10
11997	1,1-Dichloroethane	75-34-3	N.D.	5	10	10
11997	1,2-Dichloroethane	107-06-2	N.D.	5	10	10
11997	1,1-Dichloroethene	75-35-4	N.D.	5	10	10
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	5	10	10
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	5	10	10
11997	1,2-Dichloropropane	78-87-5	N.D.	5	10	10
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	5	10	10
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	5	10	10
11997	Ethylbenzene	100-41-4	N.D.	5	10	10
11997	Freon 113	76-13-1	N.D.	20	100	10
11997	2-Hexanone	591-78-6	N.D.	30	100	10
11997	Isopropylbenzene	98-82-8	N.D.	10	50	10
11997	Methyl Acetate	79-20-9	N.D.	10	50	10
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	5	10	10
11997	4-Methyl-2-pentanone	108-10-1	N.D.	30	100	10
11997	Methylcyclohexane	108-87-2	16 J	10	50	10
11997	Methylene Chloride	75-09-2	N.D.	5	10	10
11997	Styrene	100-42-5	N.D.	10	50	10
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	5	10	10

*=This limit was used in the evaluation of the final result

Sample Description: **MW-28 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/17/2017 10:10
SDG#: POW02-08

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326092
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	5	10	10
11997	Toluene	108-88-3	N.D.	5	10	10
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	10	50	10
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	10	50	10
11997	1,1,1-Trichloroethane	71-55-6	N.D.	5	10	10
11997	1,1,2-Trichloroethane	79-00-5	N.D.	5	10	10
11997	Trichloroethene	79-01-6	N.D.	5	10	10
11997	Trichlorofluoromethane	75-69-4	N.D.	5	10	10
11997	Vinyl Chloride	75-01-4	N.D.	5	10	10
11997	m+p-Xylene	179601-23-1	N.D.	5	10	10
11997	o-Xylene	95-47-6	N.D.	5	10	10
11997	Xylene (Total)	1330-20-7	N.D.	5	10	10
	Reporting limits were raised due to sample foaming.					
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	1	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	0.4 J	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	0.9	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	1	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	0.6	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	0.6	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	0.1 J	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					

*=This limit was used in the evaluation of the final result

Sample Description: **MW-28 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/17/2017 10:10
SDG#: POW02-08

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326092
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	1	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.4 J	0.1	0.5	1
14241	Dibenzofuran	132-64-9	0.6 J	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
14241	Fluoranthene	206-44-0	0.3 J	0.1	0.5	1
14241	Fluorene	86-73-7	2	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.3 J	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-28 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/17/2017 10:10
SDG#: POW02-08

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326092
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	1	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	0.8	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is again outside of the acceptance limits. The data is reported from the initial trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	126 J	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	N.D.	9.6	40.0	1
07046	Barium	7440-39-3	91.2	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	44,000	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	N.D.	1.7	10.0	1
07053	Copper	7440-50-8	N.D.	4.0	20.0	1
01754	Iron	7439-89-6	264 J	80.5	400	1
07055	Lead	7439-92-1	N.D.	6.0	30.0	1
01757	Magnesium	7439-95-4	3,480	37.4	200	1
07058	Manganese	7439-96-5	157	1.6	10.0	1
07061	Nickel	7440-02-0	N.D.	4.0	20.0	1
01762	Potassium	7440-09-7	25,100	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	182,000	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	4.1 J	1.6	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-28 Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/17/2017 10:10
SDG#: POW02-08

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326092
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010C**	**ug/l**	**ug/l**	**ug/l**	
07072	Zinc	7440-66-6	N.D.	6.5	40.0	1
Metals		**SW-846 7470A**	**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173341AA	11/30/2017 16:39	Brett W Kenyon	10
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173341AA	11/30/2017 16:39	Brett W Kenyon	10
14241	SVOAs 8270D MINI	SW-846 8270D	1	17326WAA026	11/28/2017 17:11	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17326WAA026	11/22/2017 17:19	Kate E Lutte	1
01743	Aluminum	SW-846 6010C	1	173241063502	12/01/2017 01:28	Jonathan J Allen	1
07044	Antimony	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
07022	Thallium	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173241063502	11/29/2017 23:13	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173250571303	11/26/2017 07:09	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173241063502	11/20/2017 15:55	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173250571303	11/22/2017 17:55	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-28D Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/17/2017 11:00
SDG#: POW02-09

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326093
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	60	200	10
11997	Benzene	71-43-2	N.D.	5	10	10
11997	Bromochloromethane	74-97-5	N.D.	10	50	10
11997	Bromodichloromethane	75-27-4	N.D.	5	10	10
11997	Bromoform	75-25-2	N.D.	5	40	10
11997	Bromomethane	74-83-9	N.D.	5	10	10
11997	2-Butanone	78-93-3	N.D.	30	100	10
11997	Carbon Disulfide	75-15-0	N.D.	10	50	10
11997	Carbon Tetrachloride	56-23-5	N.D.	5	10	10
11997	Chlorobenzene	108-90-7	N.D.	5	10	10
11997	Chloroethane	75-00-3	N.D.	5	10	10
11997	Chloroform	67-66-3	N.D.	5	10	10
11997	Chloromethane	74-87-3	N.D.	5	10	10
11997	Cyclohexane	110-82-7	N.D.	20	50	10
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	20	50	10
11997	Dibromochloromethane	124-48-1	N.D.	5	10	10
11997	1,2-Dibromoethane	106-93-4	N.D.	5	10	10
11997	1,2-Dichlorobenzene	95-50-1	N.D.	10	50	10
11997	1,3-Dichlorobenzene	541-73-1	N.D.	10	50	10
11997	1,4-Dichlorobenzene	106-46-7	N.D.	10	50	10
11997	Dichlorodifluoromethane	75-71-8	N.D.	5	10	10
11997	1,1-Dichloroethane	75-34-3	5 J	5	10	10
11997	1,2-Dichloroethane	107-06-2	N.D.	5	10	10
11997	1,1-Dichloroethene	75-35-4	N.D.	5	10	10
11997	cis-1,2-Dichloroethene	156-59-2	9 J	5	10	10
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	5	10	10
11997	1,2-Dichloropropane	78-87-5	N.D.	5	10	10
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	5	10	10
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	5	10	10
11997	Ethylbenzene	100-41-4	N.D.	5	10	10
11997	Freon 113	76-13-1	N.D.	20	100	10
11997	2-Hexanone	591-78-6	N.D.	30	100	10
11997	Isopropylbenzene	98-82-8	N.D.	10	50	10
11997	Methyl Acetate	79-20-9	N.D.	10	50	10
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	5	10	10
11997	4-Methyl-2-pentanone	108-10-1	N.D.	30	100	10
11997	Methylcyclohexane	108-87-2	N.D.	10	50	10
11997	Methylene Chloride	75-09-2	N.D.	5	10	10
11997	Styrene	100-42-5	N.D.	10	50	10
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	5	10	10

*=This limit was used in the evaluation of the final result

Sample Description: **MW-28D Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/17/2017 11:00
SDG#: POW02-09

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326093
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	5	10	10
11997	Toluene	108-88-3	N.D.	5	10	10
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	10	50	10
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	10	50	10
11997	1,1,1-Trichloroethane	71-55-6	N.D.	5	10	10
11997	1,1,2-Trichloroethane	79-00-5	N.D.	5	10	10
11997	Trichloroethene	79-01-6	N.D.	5	10	10
11997	Trichlorofluoromethane	75-69-4	N.D.	5	10	10
11997	Vinyl Chloride	75-01-4	6 J	5	10	10
11997	m+p-Xylene	179601-23-1	N.D.	5	10	10
11997	o-Xylene	95-47-6	N.D.	5	10	10
11997	Xylene (Total)	1330-20-7	N.D.	5	10	10

Reporting limits were raised due to sample foaming.

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14241	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14241	Acetophenone	98-86-2	N.D.	0.5	1	1
14241	Anthracene	120-12-7	N.D.	0.1	0.5	1
14241	Atrazine	1912-24-9	N.D.	2	5	1
14241	Benzaldehyde	100-52-7	N.D.	1	5	1
14241	Benzo(a)anthracene	56-55-3	0.2 J	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	0.5 J	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	0.4 J	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	0.4 J	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	N.D.	0.5	1	1
14241	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
14241	Butylbenzylphthalate	85-68-7	N.D.	2	5	1
14241	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
14241	Caprolactam	105-60-2	N.D.	5	15	1
14241	Carbazole	86-74-8	N.D.	0.5	1	1
14241	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
14241	4-Chloroaniline	106-47-8	N.D.	2	4	1
14241	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
14241	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.5	1	1

Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: **MW-28D Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/17/2017 11:00
SDG#: POW02-09

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326093
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
14241	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
14241	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
14241	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
14241	Chrysene	218-01-9	0.1 J	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.2 J	0.1	0.5	1
14241	Dibenzofuran	132-64-9	N.D.	0.5	1	1
14241	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
14241	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
14241	Diethylphthalate	84-66-2	N.D.	2	5	1
14241	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
14241	Dimethylphthalate	131-11-3	N.D.	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
14241	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
14241	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
14241	1,4-Dioxane	123-91-1	N.D.	1	5	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	3 J	2	5	1
14241	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14241	Fluorene	86-73-7	N.D.	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
14241	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
14241	Hexachloroethane	67-72-1	N.D.	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.2 J	0.1	0.5	1
14241	Isophorone	78-59-1	N.D.	0.5	1	1
14241	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
14241	2-Methylphenol	95-48-7	N.D.	0.5	1	1
14241	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14241	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
14241	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
14241	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
14241	Nitrobenzene	98-95-3	N.D.	0.5	1	1
14241	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
14241	4-Nitrophenol	100-02-7	N.D.	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
14241	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-28D Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/17/2017 11:00
SDG#: POW02-09

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326093
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
14241	Pentachlorophenol	87-86-5	N.D.	1	5	1
14241	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14241	Phenol	108-95-2	N.D.	0.5	1	1
14241	Pyrene	129-00-0	0.1 J	0.1	0.5	1
14241	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	0.5	1	1
14241	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	0.5	1	1
14241	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
14241	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is again outside of the acceptance limits. The data is reported from the initial trial. Similar results were obtained in both trials.					
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
01743	Aluminum	7429-90-5	N.D.	89.4	400	1
07044	Antimony	7440-36-0	N.D.	8.7	40.0	1
07035	Arsenic	7440-38-2	19.5 J	9.6	40.0	1
07046	Barium	7440-39-3	41.3	0.85	10.0	1
07047	Beryllium	7440-41-7	N.D.	2.0	10.0	1
07049	Cadmium	7440-43-9	N.D.	1.8	10.0	1
01750	Calcium	7440-70-2	93,500	60.0	400	1
07051	Chromium	7440-47-3	N.D.	3.3	30.0	1
07052	Cobalt	7440-48-4	1.8 J	1.7	10.0	1
07053	Copper	7440-50-8	8.8 J	4.0	20.0	1
01754	Iron	7439-89-6	470	80.5	400	1
07055	Lead	7439-92-1	18.6 J	6.0	30.0	1
01757	Magnesium	7439-95-4	5,890	37.4	200	1
07058	Manganese	7439-96-5	145	1.6	10.0	1
07061	Nickel	7440-02-0	10.5 J	4.0	20.0	1
01762	Potassium	7440-09-7	22,500	179	1,000	1
07036	Selenium	7782-49-2	N.D.	9.3	40.0	1
07066	Silver	7440-22-4	N.D.	2.4	10.0	1
01767	Sodium	7440-23-5	150,000	321	2,000	1
07022	Thallium	7440-28-0	N.D.	13.7	60.0	1
07071	Vanadium	7440-62-2	37.1	1.6	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-28D Grab Groundwater**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/17/2017 11:00
SDG#: POW02-09

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326093
ELLE Group #: 1877250
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010C**		**ug/l**	**ug/l**	**ug/l**	
07072	Zinc	7440-66-6	36.7 J	6.5	40.0	1
Metals	**SW-846 7470A**		**ug/l**	**ug/l**	**ug/l**	
00259	Mercury	7439-97-6	N.D.	0.050	0.20	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173341AA	11/30/2017 17:01	Brett W Kenyon	10
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173341AA	11/30/2017 17:01	Brett W Kenyon	10
14241	SVOAs 8270D MINI	SW-846 8270D	1	17326WAA026	11/28/2017 17:38	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	17326WAA026	11/22/2017 17:19	Kate E Lutte	1
01743	Aluminum	SW-846 6010C	1	173251063502	11/25/2017 12:34	Elaine F Stoltzfus	1
07044	Antimony	SW-846 6010C	1	173251063502	11/25/2017 12:34	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	173251063502	11/25/2017 12:34	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	173251063502	11/25/2017 12:34	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	173251063502	11/25/2017 12:34	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	173251063502	11/25/2017 12:34	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	173251063502	11/25/2017 12:34	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	173251063502	11/25/2017 12:34	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	173251063502	11/25/2017 12:34	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	173251063502	11/28/2017 06:25	Jonathan J Allen	1
01754	Iron	SW-846 6010C	1	173251063502	11/25/2017 12:34	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	173251063502	11/28/2017 06:25	Jonathan J Allen	1
01757	Magnesium	SW-846 6010C	1	173251063502	11/25/2017 12:34	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	173251063502	11/25/2017 12:34	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	173251063502	11/25/2017 12:34	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	173251063502	11/25/2017 12:34	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	173251063502	11/25/2017 12:34	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010C	1	173251063502	11/25/2017 12:34	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	173251063502	11/25/2017 12:34	Elaine F Stoltzfus	1
07022	Thallium	SW-846 6010C	1	173251063502	11/25/2017 12:34	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	173251063502	11/25/2017 12:34	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	173251063502	11/25/2017 12:34	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	173320571305	11/30/2017 06:45	Damary Valentin	1
10635	ICP-WW, 3005A (tot rec) - U4	SW-846 3005A	1	173251063502	11/22/2017 16:45	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	173320571305	11/29/2017 19:30	Barbara A Kane	1

*=This limit was used in the evaluation of the final result

Sample Description: **TB17311 Water**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/08/2017
SDG#: POW02-10TB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326094
ELLE Group #: 1877250
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acetone	67-64-1	N.D.	6	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromochloromethane	74-97-5	N.D.	1	5	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	2-Butanone	78-93-3	N.D.	3	10	1
11997	Carbon Disulfide	75-15-0	N.D.	1	5	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Cyclohexane	110-82-7	N.D.	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Freon 113	76-13-1	N.D.	2	10	1
11997	2-Hexanone	591-78-6	N.D.	3	10	1
11997	Isopropylbenzene	98-82-8	N.D.	1	5	1
11997	Methyl Acetate	79-20-9	N.D.	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
11997	Methylcyclohexane	108-87-2	N.D.	1	5	1
11997	Methylene Chloride	75-09-2	N.D.	0.5	1	1
11997	Styrene	100-42-5	N.D.	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1

*=This limit was used in the evaluation of the final result

Sample Description: **TB17311 Water**
0172.0291Y003
FPOW - Brooklyn, NY

Project Name: **FPOW**

Submittal Date/Time: 11/17/2017 20:30
Collection Date/Time: 11/08/2017
SDG#: POW02-10TB

ExxonMobil c/o Roux Associates
ELLE Sample #: WW 9326094
ELLE Group #: 1877250
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
11997	o-Xylene	95-47-6	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	GC/MS Volatiles - Pratt Oil	SW-846 8260C	1	L173341AA	11/30/2017 13:44	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L173341AA	11/30/2017 13:44	Brett W Kenyon	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates Group Number: 1877250
Reported: 12/10/2017 18:42

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Batch number: L173331AA	Sample number(s): 9326082-9326086,9326088-9326091		
Acetone	N.D.	6	20
Benzene	N.D.	0.5	1
Bromochloromethane	N.D.	1	5
Bromodichloromethane	N.D.	0.5	1
Bromoform	N.D.	0.5	4
Bromomethane	N.D.	0.5	1
2-Butanone	N.D.	3	10
Carbon Disulfide	N.D.	1	5
Carbon Tetrachloride	N.D.	0.5	1
Chlorobenzene	N.D.	0.5	1
Chloroethane	N.D.	0.5	1
Chloroform	N.D.	0.5	1
Chloromethane	N.D.	0.5	1
Cyclohexane	N.D.	2	5
1,2-Dibromo-3-chloropropane	N.D.	2	5
Dibromochloromethane	N.D.	0.5	1
1,2-Dibromoethane	N.D.	0.5	1
1,2-Dichlorobenzene	N.D.	1	5
1,3-Dichlorobenzene	N.D.	1	5
1,4-Dichlorobenzene	N.D.	1	5
Dichlorodifluoromethane	N.D.	0.5	1
1,1-Dichloroethane	N.D.	0.5	1
1,2-Dichloroethane	N.D.	0.5	1
1,1-Dichloroethene	N.D.	0.5	1
cis-1,2-Dichloroethene	N.D.	0.5	1
trans-1,2-Dichloroethene	N.D.	0.5	1
1,2-Dichloropropane	N.D.	0.5	1
cis-1,3-Dichloropropene	N.D.	0.5	1
trans-1,3-Dichloropropene	N.D.	0.5	1
Ethylbenzene	N.D.	0.5	1
Freon 113	N.D.	2	10
2-Hexanone	N.D.	3	10
Isopropylbenzene	N.D.	1	5
Methyl Acetate	N.D.	1	5
Methyl Tertiary Butyl Ether	N.D.	0.5	1
4-Methyl-2-pentanone	N.D.	3	10
Methylcyclohexane	N.D.	1	5
Methylene Chloride	N.D.	0.5	1
Styrene	N.D.	1	5

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1877250
Reported: 12/10/2017 18:42

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
1,1,2,2-Tetrachloroethane	N.D.	0.5	1
Tetrachloroethene	N.D.	0.5	1
Toluene	N.D.	0.5	1
1,2,3-Trichlorobenzene	N.D.	1	5
1,2,4-Trichlorobenzene	N.D.	1	5
1,1,1-Trichloroethane	N.D.	0.5	1
1,1,2-Trichloroethane	N.D.	0.5	1
Trichloroethene	N.D.	0.5	1
Trichlorofluoromethane	N.D.	0.5	1
Vinyl Chloride	N.D.	0.5	1
m+p-Xylene	N.D.	0.5	1
o-Xylene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: L173341AA	Sample number(s): 9326092-9326094		
Acetone	N.D.	6	20
Benzene	N.D.	0.5	1
Bromochloromethane	N.D.	1	5
Bromodichloromethane	N.D.	0.5	1
Bromoform	N.D.	0.5	4
Bromomethane	N.D.	0.5	1
2-Butanone	N.D.	3	10
Carbon Disulfide	N.D.	1	5
Carbon Tetrachloride	N.D.	0.5	1
Chlorobenzene	N.D.	0.5	1
Chloroethane	N.D.	0.5	1
Chloroform	N.D.	0.5	1
Chloromethane	N.D.	0.5	1
Cyclohexane	N.D.	2	5
1,2-Dibromo-3-chloropropane	N.D.	2	5
Dibromochloromethane	N.D.	0.5	1
1,2-Dibromoethane	N.D.	0.5	1
1,2-Dichlorobenzene	N.D.	1	5
1,3-Dichlorobenzene	N.D.	1	5
1,4-Dichlorobenzene	N.D.	1	5
Dichlorodifluoromethane	N.D.	0.5	1
1,1-Dichloroethane	N.D.	0.5	1
1,2-Dichloroethane	N.D.	0.5	1
1,1-Dichloroethene	N.D.	0.5	1
cis-1,2-Dichloroethene	N.D.	0.5	1
trans-1,2-Dichloroethene	N.D.	0.5	1
1,2-Dichloropropane	N.D.	0.5	1
cis-1,3-Dichloropropene	N.D.	0.5	1
trans-1,3-Dichloropropene	N.D.	0.5	1
Ethylbenzene	N.D.	0.5	1

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1877250
Reported: 12/10/2017 18:42

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Freon 113	N.D.	2	10
2-Hexanone	N.D.	3	10
Isopropylbenzene	N.D.	1	5
Methyl Acetate	N.D.	1	5
Methyl Tertiary Butyl Ether	N.D.	0.5	1
4-Methyl-2-pentanone	N.D.	3	10
Methylcyclohexane	N.D.	1	5
Methylene Chloride	N.D.	0.5	1
Styrene	N.D.	1	5
1,1,2,2-Tetrachloroethane	N.D.	0.5	1
Tetrachloroethene	N.D.	0.5	1
Toluene	N.D.	0.5	1
1,2,3-Trichlorobenzene	N.D.	1	5
1,2,4-Trichlorobenzene	N.D.	1	5
1,1,1-Trichloroethane	N.D.	0.5	1
1,1,2-Trichloroethane	N.D.	0.5	1
Trichloroethene	N.D.	0.5	1
Trichlorofluoromethane	N.D.	0.5	1
Vinyl Chloride	N.D.	0.5	1
m+p-Xylene	N.D.	0.5	1
o-Xylene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: 17325WAS026	Sample number(s): 9326082-9326083		
Acenaphthene	N.D.	0.1	0.5
Acenaphthylene	N.D.	0.1	0.5
Acetophenone	N.D.	0.5	1
Anthracene	N.D.	0.1	0.5
Atrazine	N.D.	2	5
Benzaldehyde	N.D.	1	5
Benzo(a)anthracene	N.D.	0.1	0.5
Benzo(a)pyrene	N.D.	0.1	0.5
Benzo(b)fluoranthene	N.D.	0.1	0.5
Benzo(g,h,i)perylene	N.D.	0.1	0.5
Benzo(k)fluoranthene	N.D.	0.1	0.5
1,1'-Biphenyl	N.D.	0.5	1
4-Bromophenyl-phenylether	N.D.	0.5	1
Butylbenzylphthalate	N.D.	2	5
Di-n-butylphthalate	N.D.	2	5
Caprolactam	N.D.	5	15
Carbazole	N.D.	0.5	1
4-Chloro-3-methylphenol	N.D.	0.5	1
4-Chloroaniline	N.D.	2	4
bis(2-Chloroethoxy)methane	N.D.	0.5	1
bis(2-Chloroethyl)ether	N.D.	0.5	1

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1877250
Reported: 12/10/2017 18:42

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
bis(2-Chloroisopropyl)ether	N.D.	0.5	1
2-Chloronaphthalene	N.D.	0.4	1
2-Chlorophenol	N.D.	0.5	1
4-Chlorophenyl-phenylether	N.D.	0.5	1
Chrysene	N.D.	0.1	0.5
Dibenz(a,h)anthracene	N.D.	0.1	0.5
Dibenzofuran	N.D.	0.5	1
3,3'-Dichlorobenzidine	N.D.	2	5
2,4-Dichlorophenol	N.D.	0.5	1
Diethylphthalate	N.D.	2	5
2,4-Dimethylphenol	N.D.	0.5	1
Dimethylphthalate	N.D.	2	5
4,6-Dinitro-2-methylphenol	N.D.	5	15
2,4-Dinitrophenol	N.D.	10	30
2,4-Dinitrotoluene	N.D.	1	5
2,6-Dinitrotoluene	N.D.	0.5	1
1,4-Dioxane	N.D.	1	5
bis(2-Ethylhexyl)phthalate	N.D.	2	5
Fluoranthene	N.D.	0.1	0.5
Fluorene	N.D.	0.1	0.5
Hexachlorobenzene	N.D.	0.1	0.5
Hexachlorobutadiene	N.D.	0.5	1
Hexachlorocyclopentadiene	N.D.	5	15
Hexachloroethane	N.D.	1	5
Indeno(1,2,3-cd)pyrene	N.D.	0.1	0.5
Isophorone	N.D.	0.5	1
2-Methylnaphthalene	N.D.	0.1	0.5
2-Methylphenol	N.D.	0.5	1
4-Methylphenol	N.D.	0.5	1
Naphthalene	N.D.	0.1	0.5
2-Nitroaniline	N.D.	0.5	1
3-Nitroaniline	N.D.	0.5	1
4-Nitroaniline	N.D.	0.5	1
Nitrobenzene	N.D.	0.5	1
2-Nitrophenol	N.D.	0.5	1
4-Nitrophenol	N.D.	10	30
N-Nitroso-di-n-propylamine	N.D.	0.5	1
N-Nitrosodiphenylamine	N.D.	0.5	1
Di-n-octylphthalate	N.D.	2	5
Pentachlorophenol	N.D.	1	5
Phenanthrene	N.D.	0.1	0.5
Phenol	N.D.	0.5	1
Pyrene	N.D.	0.1	0.5
1,2,4,5-Tetrachlorobenzene	N.D.	0.5	1
2,3,4,6-Tetrachlorophenol	N.D.	0.5	1

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1877250
Reported: 12/10/2017 18:42

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
2,4,5-Trichlorophenol	N.D.	0.5	1
2,4,6-Trichlorophenol	N.D.	0.5	1
Batch number: 17326WAA026	Sample number(s): 9326084-9326086,9326088-9326093		
Acenaphthene	N.D.	0.1	0.5
Acenaphthylene	N.D.	0.1	0.5
Acetophenone	N.D.	0.5	1
Anthracene	N.D.	0.1	0.5
Atrazine	N.D.	2	5
Benzaldehyde	N.D.	1	5
Benzo(a)anthracene	N.D.	0.1	0.5
Benzo(a)pyrene	N.D.	0.1	0.5
Benzo(b)fluoranthene	N.D.	0.1	0.5
Benzo(g,h,i)perylene	N.D.	0.1	0.5
Benzo(k)fluoranthene	N.D.	0.1	0.5
1,1'-Biphenyl	N.D.	0.5	1
4-Bromophenyl-phenylether	N.D.	0.5	1
Butylbenzylphthalate	N.D.	2	5
Di-n-butylphthalate	N.D.	2	5
Caprolactam	N.D.	5	15
Carbazole	N.D.	0.5	1
4-Chloro-3-methylphenol	N.D.	0.5	1
4-Chloroaniline	N.D.	2	4
bis(2-Chloroethoxy)methane	N.D.	0.5	1
bis(2-Chloroethyl)ether	N.D.	0.5	1
bis(2-Chloroisopropyl)ether	N.D.	0.5	1
2-Chloronaphthalene	N.D.	0.4	1
2-Chlorophenol	N.D.	0.5	1
4-Chlorophenyl-phenylether	N.D.	0.5	1
Chrysene	N.D.	0.1	0.5
Dibenz(a,h)anthracene	N.D.	0.1	0.5
Dibenzofuran	N.D.	0.5	1
3,3'-Dichlorobenzidine	N.D.	2	5
2,4-Dichlorophenol	N.D.	0.5	1
Diethylphthalate	N.D.	2	5
2,4-Dimethylphenol	N.D.	0.5	1
Dimethylphthalate	N.D.	2	5
4,6-Dinitro-2-methylphenol	N.D.	5	15
2,4-Dinitrophenol	N.D.	10	30
2,4-Dinitrotoluene	N.D.	1	5
2,6-Dinitrotoluene	N.D.	0.5	1
1,4-Dioxane	N.D.	1	5
bis(2-Ethylhexyl)phthalate	N.D.	2	5
Fluoranthene	N.D.	0.1	0.5
Fluorene	N.D.	0.1	0.5

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1877250
Reported: 12/10/2017 18:42

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Hexachlorobenzene	N.D.	0.1	0.5
Hexachlorobutadiene	N.D.	0.5	1
Hexachlorocyclopentadiene	N.D.	5	15
Hexachloroethane	N.D.	1	5
Indeno(1,2,3-cd)pyrene	N.D.	0.1	0.5
Isophorone	N.D.	0.5	1
2-Methylnaphthalene	N.D.	0.1	0.5
2-Methylphenol	N.D.	0.5	1
4-Methylphenol	N.D.	0.5	1
Naphthalene	N.D.	0.1	0.5
2-Nitroaniline	N.D.	0.5	1
3-Nitroaniline	N.D.	0.5	1
4-Nitroaniline	N.D.	0.5	1
Nitrobenzene	N.D.	0.5	1
2-Nitrophenol	N.D.	0.5	1
4-Nitrophenol	N.D.	10	30
N-Nitroso-di-n-propylamine	N.D.	0.5	1
N-Nitrosodiphenylamine	N.D.	0.5	1
Di-n-octylphthalate	N.D.	2	5
Pentachlorophenol	N.D.	1	5
Phenanthrene	N.D.	0.1	0.5
Phenol	N.D.	0.5	1
Pyrene	N.D.	0.1	0.5
1,2,4,5-Tetrachlorobenzene	N.D.	0.5	1
2,3,4,6-Tetrachlorophenol	N.D.	0.5	1
2,4,5-Trichlorophenol	N.D.	0.5	1
2,4,6-Trichlorophenol	N.D.	0.5	1
Batch number: 173241063502	Sample number(s): 9326092		
Aluminum	N.D.	89.4	400
Antimony	N.D.	8.7	40.0
Arsenic	N.D.	9.6	40.0
Barium	N.D.	0.85	10.0
Beryllium	N.D.	2.0	10.0
Cadmium	N.D.	1.8	10.0
Calcium	N.D.	60.0	400
Chromium	N.D.	3.3	30.0
Cobalt	N.D.	1.7	10.0
Copper	N.D.	4.0	20.0
Iron	N.D.	80.5	400
Lead	N.D.	6.0	30.0
Magnesium	N.D.	37.4	200
Manganese	N.D.	1.6	10.0
Nickel	N.D.	4.0	20.0
Potassium	N.D.	179	1,000

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1877250
Reported: 12/10/2017 18:42

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Selenium	N.D.	9.3	40.0
Silver	N.D.	2.4	10.0
Sodium	N.D.	321	2,000
Thallium	N.D.	13.7	60.0
Vanadium	N.D.	1.6	10.0
Zinc	N.D.	6.5	40.0
Batch number: 173250571303	Sample number(s): 9326082-9326092		
Mercury	N.D.	0.050	0.20
Batch number: 173251063502	Sample number(s): 9326082-9326091,9326093		
Aluminum	N.D.	89.4	400
Antimony	N.D.	8.7	40.0
Arsenic	N.D.	9.6	40.0
Barium	N.D.	0.85	10.0
Beryllium	N.D.	2.0	10.0
Cadmium	N.D.	1.8	10.0
Calcium	N.D.	60.0	400
Chromium	N.D.	3.3	30.0
Cobalt	N.D.	1.7	10.0
Copper	N.D.	4.0	20.0
Iron	N.D.	80.5	400
Lead	8.6 J	6.0	30.0
Magnesium	N.D.	37.4	200
Manganese	N.D.	1.6	10.0
Nickel	N.D.	4.0	20.0
Potassium	N.D.	179	1,000
Selenium	N.D.	9.3	40.0
Silver	N.D.	2.4	10.0
Sodium	N.D.	321	2,000
Thallium	N.D.	13.7	60.0
Vanadium	N.D.	1.6	10.0
Zinc	N.D.	6.5	40.0
Batch number: 173320571305	Sample number(s): 9326093		
Mercury	N.D.	0.050	0.20

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: L173331AA	Sample number(s): 9326082-9326086,9326088-9326091								

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Reported: 12/10/2017 18:42

Group Number: 1877250

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acetone	150	143.61			96		44-177		
Benzene	20	19.42			97		78-120		
Bromochloromethane	20	18.88			94		80-125		
Bromodichloromethane	20	18.43			92		71-120		
Bromoform	20	16.91			85		59-120		
Bromomethane	20	18.43			92		44-139		
2-Butanone	150	144.42			96		53-140		
Carbon Disulfide	20	19.61			98		65-128		
Carbon Tetrachloride	20	18.34			92		68-128		
Chlorobenzene	20	18.89			94		80-120		
Chloroethane	20	17.66			88		52-127		
Chloroform	20	19.36			97		80-120		
Chloromethane	20	18.14			91		57-120		
Cyclohexane	20	18.67			93		67-121		
1,2-Dibromo-3-chloropropane	20	16.74			84		64-120		
Dibromochloromethane	20	18.11			91		71-120		
1,2-Dibromoethane	20	18.89			94		75-120		
1,2-Dichlorobenzene	20	18.24			91		80-120		
1,3-Dichlorobenzene	20	18.2			91		80-120		
1,4-Dichlorobenzene	20	18.55			93		80-120		
Dichlorodifluoromethane	20	16.82			84		47-124		
1,1-Dichloroethane	20	19.23			96		80-120		
1,2-Dichloroethane	20	19.38			97		73-124		
1,1-Dichloroethene	20	21.23			106		76-124		
cis-1,2-Dichloroethene	20	20			100		80-120		
trans-1,2-Dichloroethene	20	20.47			102		80-120		
1,2-Dichloropropane	20	19.27			96		80-120		
cis-1,3-Dichloropropene	20	18.18			91		75-120		
trans-1,3-Dichloropropene	20	17.35			87		76-120		
Ethylbenzene	20	18.96			95		78-120		
Freon 113	20	21.47			107		68-137		
2-Hexanone	100	94.84			95		60-134		
Isopropylbenzene	20	19.14			96		80-120		
Methyl Acetate	20	19.3			97		61-137		
Methyl Tertiary Butyl Ether	20	18.91			95		75-120		
4-Methyl-2-pentanone	100	96.1			96		67-128		
Methylcyclohexane	20	18.88			94		66-126		
Methylene Chloride	20	19.83			99		80-120		
Styrene	20	19.26			96		80-120		
1,1,2,2-Tetrachloroethane	20	18.23			91		72-120		
Tetrachloroethene	20	19.02			95		80-129		
Toluene	20	18.96			95		80-120		
1,2,3-Trichlorobenzene	20	16.63			83		66-120		
1,2,4-Trichlorobenzene	20	16.27			81		70-120		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Reported: 12/10/2017 18:42

Group Number: 1877250

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1,1-Trichloroethane	20	17.84			89		67-120		
1,1,2-Trichloroethane	20	19			95		80-120		
Trichloroethene	20	19.2			96		80-120		
Trichlorofluoromethane	20	18.87			94		52-143		
Vinyl Chloride	20	17.74			89		63-121		
m+p-Xylene	40	38.49			96		80-120		
o-Xylene	20	18.65			93		80-120		
Xylene (Total)	60	57.13			95		80-120		
Batch number: L173341AA	Sample number(s): 9326092-9326094								
Acetone	150	138.14	150	133.33	92	89	44-177	4	30
Benzene	20	18.79	20	18.54	94	93	78-120	1	30
Bromochloromethane	20	19.11	20	19.01	96	95	80-125	1	30
Bromodichloromethane	20	18.06	20	17.85	90	89	71-120	1	30
Bromoform	20	17.32	20	17.2	87	86	59-120	1	30
Bromomethane	20	19.09	20	18.72	95	94	44-139	2	30
2-Butanone	150	143.63	150	143.4	96	96	53-140	0	30
Carbon Disulfide	20	20.55	20	20.12	103	101	65-128	2	30
Carbon Tetrachloride	20	18.39	20	18.2	92	91	68-128	1	30
Chlorobenzene	20	18.32	20	18.14	92	91	80-120	1	30
Chloroethane	20	18.54	20	18.47	93	92	52-127	0	30
Chloroform	20	18.63	20	18.54	93	93	80-120	0	30
Chloromethane	20	19.25	20	18.49	96	92	57-120	4	30
Cyclohexane	20	18.72	20	18.43	94	92	67-121	2	30
1,2-Dibromo-3-chloropropane	20	17.48	20	17.26	87	86	64-120	1	30
Dibromochloromethane	20	18.25	20	18.07	91	90	71-120	1	30
1,2-Dibromoethane	20	19.01	20	18.68	95	93	75-120	2	30
1,2-Dichlorobenzene	20	17.91	20	17.72	90	89	80-120	1	30
1,3-Dichlorobenzene	20	17.81	20	17.59	89	88	80-120	1	30
1,4-Dichlorobenzene	20	18.07	20	17.87	90	89	80-120	1	30
Dichlorodifluoromethane	20	17.61	20	17.56	88	88	47-124	0	30
1,1-Dichloroethane	20	18.68	20	18.54	93	93	80-120	1	30
1,2-Dichloroethane	20	18.77	20	18.77	94	94	73-124	0	30
1,1-Dichloroethene	20	21.24	20	21.04	106	105	76-124	1	30
cis-1,2-Dichloroethene	20	19.59	20	19.19	98	96	80-120	2	30
trans-1,2-Dichloroethene	20	19.85	20	19.57	99	98	80-120	1	30
1,2-Dichloropropane	20	18.97	20	18.78	95	94	80-120	1	30
cis-1,3-Dichloropropene	20	18	20	17.74	90	89	75-120	1	30
trans-1,3-Dichloropropene	20	17.59	20	17.52	88	88	76-120	0	30
Ethylbenzene	20	18.4	20	18.07	92	90	78-120	2	30
Freon 113	20	21.5	20	21.21	108	106	68-137	1	30
2-Hexanone	100	96.18	100	96.11	96	96	60-134	0	30
Isopropylbenzene	20	18.43	20	18.11	92	91	80-120	2	30
Methyl Acetate	20	19.28	20	19.45	96	97	61-137	1	30

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Reported: 12/10/2017 18:42

Group Number: 1877250

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	20	18.56	20	18.75	93	94	75-120	1	30
4-Methyl-2-pentanone	100	95.77	100	95.79	96	96	67-128	0	30
Methylcyclohexane	20	19.05	20	18.5	95	92	66-126	3	30
Methylene Chloride	20	19.11	20	19.1	96	95	80-120	0	30
Styrene	20	18.78	20	18.57	94	93	80-120	1	30
1,1,2,2-Tetrachloroethane	20	18.22	20	18.04	91	90	72-120	1	30
Tetrachloroethene	20	18.57	20	18.21	93	91	80-129	2	30
Toluene	20	18.35	20	18.27	92	91	80-120	0	30
1,2,3-Trichlorobenzene	20	16.31	20	16.09	82	80	66-120	1	30
1,2,4-Trichlorobenzene	20	15.95	20	15.87	80	79	70-120	0	30
1,1,1-Trichloroethane	20	18.16	20	18.08	91	90	67-120	0	30
1,1,2-Trichloroethane	20	18.98	20	18.96	95	95	80-120	0	30
Trichloroethene	20	18.77	20	18.4	94	92	80-120	2	30
Trichlorofluoromethane	20	18.93	20	18.8	95	94	52-143	1	30
Vinyl Chloride	20	18.4	20	18.01	92	90	63-121	2	30
m+p-Xylene	40	37.25	40	36.76	93	92	80-120	1	30
o-Xylene	20	17.96	20	17.87	90	89	80-120	1	30
Xylene (Total)	60	55.21	60	54.63	92	91	80-120	1	30
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 17325WAS026	Sample number(s): 9326082-9326083								
Acenaphthene	50	36.51			73		68-112		
Acenaphthylene	50	1.11			2*		67-111		
Acetophenone	50	36.83			74		71-108		
Anthracene	50	36.65			73		73-113		
Atrazine	50	43.29			87		80-120		
Benzaldehyde	50	37.67			75		58-107		
Benzo(a)anthracene	50	40.72			81		74-124		
Benzo(a)pyrene	50	35.12			70		70-113		
Benzo(b)fluoranthene	50	37.56			75		72-117		
Benzo(g,h,i)perylene	50	36.71			73		64-117		
Benzo(k)fluoranthene	50	35.77			72*		73-121		
1,1'-Biphenyl	50	34.48			69		65-107		
4-Bromophenyl-phenylether	50	41.39			83		71-114		
Butylbenzylphthalate	50	38.1			76		52-121		
Di-n-butylphthalate	50	40.91			82		69-117		
Caprolactam	50	12.69			25		13-37		
Carbazole	50	38.38			77*		79-116		
4-Chloro-3-methylphenol	50	45.05			90		72-116		
4-Chloroaniline	50	24.92			50		42-99		
bis(2-Chloroethoxy)methane	50	40.03			80		72-116		
bis(2-Chloroethyl)ether	50	35.32			71		63-108		
bis(2-Chloroisopropyl)ether	50	30.49			61		54-116		
2-Chloronaphthalene	50	32.29			65		59-109		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Reported: 12/10/2017 18:42

Group Number: 1877250

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chlorophenol	50	33.44			67		62-105		
4-Chlorophenyl-phenylether	50	42.07			84		65-112		
Chrysene	50	40.59			81		75-120		
Dibenz(a,h)anthracene	50	36.62			73		68-121		
Dibenzofuran	50	38.3			77		69-110		
3,3'-Dichlorobenzidine	50	22.62			45		37-104		
2,4-Dichlorophenol	50	40.98			82		71-113		
Diethylphthalate	50	41.31			83		55-113		
2,4-Dimethylphenol	50	35.15			70		53-93		
Dimethylphthalate	50	37.58			75		19-119		
4,6-Dinitro-2-methylphenol	50	41.42			83		59-125		
2,4-Dinitrophenol	100	92.72			93		33-133		
2,4-Dinitrotoluene	50	42.01			84		70-122		
2,6-Dinitrotoluene	50	41.62			83		75-121		
1,4-Dioxane	50	18.57			37		28-56		
bis(2-Ethylhexyl)phthalate	50	37.53			75		64-126		
Fluoranthene	50	40.61			81		75-117		
Fluorene	50	38.96			78		68-112		
Hexachlorobenzene	50	39.42			79		66-115		
Hexachlorobutadiene	50	39.58			79		27-111		
Hexachlorocyclopentadiene	100	18.88			19		10-81		
Hexachloroethane	50	29.2			58		28-103		
Indeno(1,2,3-cd)pyrene	50	37.09			74		67-117		
Isophorone	50	40.25			80		70-117		
2-Methylnaphthalene	50	36.63			73		54-111		
2-Methylphenol	50	34.42			69		57-105		
4-Methylphenol	50	34.63			69		51-100		
Naphthalene	50	34.78			70		54-109		
2-Nitroaniline	50	37.84			76		74-121		
3-Nitroaniline	50	32.28			65		61-114		
4-Nitroaniline	50	32			64		60-106		
Nitrobenzene	50	37.47			75		66-114		
2-Nitrophenol	50	41.89			84		68-120		
4-Nitrophenol	50	23.19			46		18-91		
N-Nitroso-di-n-propylamine	50	37.44			75		67-115		
N-Nitrosodiphenylamine	50	37.25			75		75-116		
Di-n-octylphthalate	50	37.23			74		68-127		
Pentachlorophenol	50	40.79			82		59-134		
Phenanthrene	50	36			72		72-110		
Phenol	50	22.03			44		16-80		
Pyrene	50	35.46			71*		72-109		
1,2,4,5-Tetrachlorobenzene	50	35.84			72		50-108		
2,3,4,6-Tetrachlorophenol	50	47.34			95		69-125		
2,4,5-Trichlorophenol	50	44.88			90		75-118		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1877250
Reported: 12/10/2017 18:42

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,6-Trichlorophenol	50	43.76			88		75-118		
Batch number: 17326WAA026	Sample number(s): 9326084-9326086,9326088-9326093								
Acenaphthene	50	35.36			71		68-112		
Acenaphthylene	50	1.11			2*		67-111		
Acetophenone	50	38.3			77		71-108		
Anthracene	50	36.43			73		73-113		
Atrazine	50	42.45			85		80-120		
Benzaldehyde	50	35.02			70		58-107		
Benzo(a)anthracene	50	42.22			84		74-124		
Benzo(a)pyrene	50	36.74			73		70-113		
Benzo(b)fluoranthene	50	39.4			79		72-117		
Benzo(g,h,i)perylene	50	34.48			69		64-117		
Benzo(k)fluoranthene	50	38.85			78		73-121		
1,1'-Biphenyl	50	32.92			66		65-107		
4-Bromophenyl-phenylether	50	39.94			80		71-114		
Butylbenzylphthalate	50	28.88			58		52-121		
Di-n-butylphthalate	50	37.97			76		69-117		
Caprolactam	50	12.82			26		13-37		
Carbazole	50	39.67			79		79-116		
4-Chloro-3-methylphenol	50	46.03			92		72-116		
4-Chloroaniline	50	18.77			38*		42-99		
bis(2-Chloroethoxy)methane	50	41.64			83		72-116		
bis(2-Chloroethyl)ether	50	36.77			74		63-108		
bis(2-Chloroisopropyl)ether	50	30.3			61		54-116		
2-Chloronaphthalene	50	31.74			63		59-109		
2-Chlorophenol	50	34.38			69		62-105		
4-Chlorophenyl-phenylether	50	40.15			80		65-112		
Chrysene	50	41.89			84		75-120		
Dibenz(a,h)anthracene	50	38.15			76		68-121		
Dibenzofuran	50	37.57			75		69-110		
3,3'-Dichlorobenzidine	50	27.13			54		37-104		
2,4-Dichlorophenol	50	41.92			84		71-113		
Diethylphthalate	50	34.94			70		55-113		
2,4-Dimethylphenol	50	33.99			68		53-93		
Dimethylphthalate	50	22.51			45		19-119		
4,6-Dinitro-2-methylphenol	50	43.61			87		59-125		
2,4-Dinitrophenol	100	96.29			96		33-133		
2,4-Dinitrotoluene	50	43.59			87		70-122		
2,6-Dinitrotoluene	50	43.34			87		75-121		
1,4-Dioxane	50	17.48			35		28-56		
bis(2-Ethylhexyl)phthalate	50	38.99			78		64-126		
Fluoranthene	50	41.16			82		75-117		
Fluorene	50	38.18			76		68-112		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Reported: 12/10/2017 18:42

Group Number: 1877250

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorobenzene	50	40.36			81		66-115		
Hexachlorobutadiene	50	33.54			67		27-111		
Hexachlorocyclopentadiene	100	3.07			3*		10-81		
Hexachloroethane	50	26.69			53		28-103		
Indeno(1,2,3-cd)pyrene	50	36.38			73		67-117		
Isophorone	50	41.5			83		70-117		
2-Methylnaphthalene	50	35.39			71		54-111		
2-Methylphenol	50	33.55			67		57-105		
4-Methylphenol	50	33.61			67		51-100		
Naphthalene	50	33.46			67		54-109		
2-Nitroaniline	50	39.41			79		74-121		
3-Nitroaniline	50	26.31			53*		61-114		
4-Nitroaniline	50	35.05			70		60-106		
Nitrobenzene	50	38.34			77		66-114		
2-Nitrophenol	50	44.22			88		68-120		
4-Nitrophenol	50	26.58			53		18-91		
N-Nitroso-di-n-propylamine	50	39.26			79		67-115		
N-Nitrosodiphenylamine	50	38.05			76		75-116		
Di-n-octylphthalate	50	39.56			79		68-127		
Pentachlorophenol	50	43.52			87		59-134		
Phenanthrene	50	36.05			72		72-110		
Phenol	50	21.57			43		16-80		
Pyrene	50	36.81			74		72-109		
1,2,4,5-Tetrachlorobenzene	50	32.25			65		50-108		
2,3,4,6-Tetrachlorophenol	50	51.52			103		69-125		
2,4,5-Trichlorophenol	50	45.09			90		75-118		
2,4,6-Trichlorophenol	50	45.19			90		75-118		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 173241063502	Sample number(s): 9326092								
Aluminum	2000	1986.71			99		80-120		
Antimony	500	470.69			94		80-120		
Arsenic	150	141.71			94		80-120		
Barium	2000	1903.9			95		80-120		
Beryllium	50	47.71			95		80-120		
Cadmium	50	48.99			98		80-120		
Calcium	4000	3895.71			97		80-120		
Chromium	200	186.11			93		80-120		
Cobalt	500	484.91			97		80-120		
Copper	250	238.86			96		80-120		
Iron	1000	978.52			98		80-120		
Lead	150	132.46			88		80-120		
Magnesium	2000	2005.64			100		80-120		
Manganese	500	489.45			98		80-120		

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1877250
Reported: 12/10/2017 18:42

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nickel	500	476.3			95		80-120		
Potassium	10000	9671.52			97		80-120		
Selenium	150	135.4			90		80-120		
Silver	50	54.78			110		80-120		
Sodium	10000	9762.86			98		80-120		
Thallium	150	134.89			90		80-120		
Vanadium	500	466.52			93		80-120		
Zinc	500	481.41			96		80-120		
Batch number: 173250571303	Sample number(s): 9326082-9326092								
Mercury	1.00	0.916			92		80-120		
Batch number: 173251063502	Sample number(s): 9326082-9326091,9326093								
Aluminum	2000	2186.83			109		80-120		
Antimony	500	498.5			100		80-120		
Arsenic	150	143.64			96		80-120		
Barium	2000	2023.33			101		80-120		
Beryllium	50	49.27			99		80-120		
Cadmium	50	51.32			103		80-120		
Calcium	4000	3944.21			99		80-120		
Chromium	200	193.92			97		80-120		
Cobalt	500	516.22			103		80-120		
Copper	250	242.16			97		80-120		
Iron	1000	976.17			98		80-120		
Lead	150	148.3			99		80-120		
Magnesium	2000	2008.84			100		80-120		
Manganese	500	525.28			105		80-120		
Nickel	500	527.04			105		80-120		
Potassium	10000	9912.85			99		80-120		
Selenium	150	141.16			94		80-120		
Silver	50	50.78			102		80-120		
Sodium	10000	9871.44			99		80-120		
Thallium	150	144.98			97		80-120		
Vanadium	500	499.36			100		80-120		
Zinc	500	507.25			101		80-120		
Batch number: 173320571305	Sample number(s): 9326093								
Mercury	1.00	0.953			95		80-120		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1877250
Reported: 12/10/2017 18:42

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: L173331AA	Sample number(s): 9326082-9326086,9326088-9326091 UNSPK: 9326084									
Acetone	N.D.	150	143.78	150	124.42	96	83	44-177	14	30
Benzene	N.D.	20	21.25	20	21.47	106	107	78-120	1	30
Bromochloromethane	N.D.	20	20.08	20	20.16	100	101	80-125	0	30
Bromodichloromethane	N.D.	20	19.55	20	19.8	98	99	71-120	1	30
Bromoform	N.D.	20	17.66	20	17.59	88	88	59-120	0	30
Bromomethane	N.D.	20	21.78	20	20.5	109	103	44-139	6	30
2-Butanone	N.D.	150	145.32	150	149.4	97	100	53-140	3	30
Carbon Disulfide	N.D.	20	22.89	20	22.87	114	114	65-128	0	30
Carbon Tetrachloride	N.D.	20	20.92	20	21.49	105	107	68-128	3	30
Chlorobenzene	N.D.	20	20.36	20	20.52	102	103	80-120	1	30
Chloroethane	N.D.	20	20.65	20	19.5	103	97	52-127	6	30
Chloroform	N.D.	20	21.02	20	21.3	105	106	80-120	1	30
Chloromethane	N.D.	20	21.84	20	20.6	109	103	57-120	6	30
Cyclohexane	N.D.	20	22.08	20	22.33	110	112	67-121	1	30
1,2-Dibromo-3-chloropropane	N.D.	20	17.46	20	17.36	87	87	64-120	1	30
Dibromochloromethane	N.D.	20	19.02	20	18.98	95	95	71-120	0	30
1,2-Dibromoethane	N.D.	20	19.64	20	20.1	98	101	75-120	2	30
1,2-Dichlorobenzene	N.D.	20	19.56	20	19.51	98	98	80-120	0	30
1,3-Dichlorobenzene	N.D.	20	19.54	20	19.71	98	99	80-120	1	30
1,4-Dichlorobenzene	N.D.	20	19.85	20	19.91	99	100	80-120	0	30
Dichlorodifluoromethane	N.D.	20	21.94	20	21.31	110	107	47-124	3	30
1,1-Dichloroethane	N.D.	20	21.15	20	21.45	106	107	80-120	1	30
1,2-Dichloroethane	N.D.	20	20.39	20	20.43	102	102	73-124	0	30
1,1-Dichloroethene	N.D.	20	25.05	20	24.83	125*	124	76-124	1	30
cis-1,2-Dichloroethene	N.D.	20	22.22	20	22.16	111	111	80-120	0	30
trans-1,2-Dichloroethene	N.D.	20	23.03	20	22.77	115	114	80-120	1	30
1,2-Dichloropropane	N.D.	20	20.67	20	21.16	103	106	80-120	2	30
cis-1,3-Dichloropropene	N.D.	20	18.83	20	19.24	94	96	75-120	2	30
trans-1,3-Dichloropropene	N.D.	20	18.22	20	18.53	91	93	76-120	2	30
Ethylbenzene	N.D.	20	20.88	20	21.02	104	105	78-120	1	30
Freon 113	N.D.	20	25.69	20	25.5	128	127	68-137	1	30
2-Hexanone	N.D.	100	97.98	100	99.15	98	99	60-134	1	30
Isopropylbenzene	N.D.	20	21.31	20	21.24	107	106	80-120	0	30
Methyl Acetate	N.D.	20	19.28	20	19.63	96	98	61-137	2	30
Methyl Tertiary Butyl Ether	N.D.	20	19.52	20	19.89	98	99	75-120	2	30
4-Methyl-2-pentanone	N.D.	100	98.01	100	99.89	98	100	67-128	2	30
Methylcyclohexane	N.D.	20	22.23	20	21.97	111	110	66-126	1	30
Methylene Chloride	N.D.	20	21.43	20	21.44	107	107	80-120	0	30
Styrene	N.D.	20	20.98	20	20.74	105	104	80-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	20	19	20	19.05	95	95	72-120	0	30
Tetrachloroethene	N.D.	20	21.81	20	21.77	109	109	80-129	0	30
Toluene	N.D.	20	20.83	20	20.85	104	104	80-120	0	30

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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1877250
Reported: 12/10/2017 18:42

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
1,2,3-Trichlorobenzene	N.D.	20	17.38	20	17.65	87	88	66-120	2	30
1,2,4-Trichlorobenzene	N.D.	20	17.17	20	17.35	86	87	70-120	1	30
1,1,1-Trichloroethane	N.D.	20	20.41	20	20.59	102	103	67-120	1	30
1,1,2-Trichloroethane	N.D.	20	20.18	20	20.22	101	101	80-120	0	30
Trichloroethene	N.D.	20	21.46	20	21.85	107	109	80-120	2	30
Trichlorofluoromethane	N.D.	20	23.43	20	22.34	117	112	52-143	5	30
Vinyl Chloride	N.D.	20	21.75	20	20.87	109	104	63-121	4	30
m+p-Xylene	N.D.	40	42.34	40	42.48	106	106	80-120	0	30
o-Xylene	N.D.	20	20.4	20	20.41	102	102	80-120	0	30
Xylene (Total)	N.D.	60	62.74	60	62.89	105	105	80-120	0	30
Batch number: L173341AA	Sample number(s): 9326092-9326094 UNSPK: P333976									
Acetone	N.D.	150	148.38	150	144.13	99	96	44-177	3	30
Benzene	N.D.	20	21.73	20	21.8	109	109	78-120	0	30
Bromochloromethane	N.D.	20	20.76	20	20.44	104	102	80-125	2	30
Bromodichloromethane	N.D.	20	20.06	20	20.06	100	100	71-120	0	30
Bromoform	N.D.	20	18.02	20	17.97	90	90	59-120	0	30
Bromomethane	N.D.	20	20.24	20	20.73	101	104	44-139	2	30
2-Butanone	N.D.	150	149.88	150	148.87	100	99	53-140	1	30
Carbon Disulfide	N.D.	20	23.55	20	23.65	118	118	65-128	0	30
Carbon Tetrachloride	N.D.	20	21.84	20	22.05	109	110	68-128	1	30
Chlorobenzene	N.D.	20	20.49	20	20.68	102	103	80-120	1	30
Chloroethane	N.D.	20	19.29	20	20.29	96	101	52-127	5	30
Chloroform	N.D.	20	21.34	20	21.27	107	106	80-120	0	30
Chloromethane	N.D.	20	21.27	20	21.58	106	108	57-120	1	30
Cyclohexane	N.D.	20	22.5	20	22.71	113	114	67-121	1	30
1,2-Dibromo-3-chloropropane	N.D.	20	17.32	20	17.75	87	89	64-120	2	30
Dibromochloromethane	N.D.	20	19.23	20	19.52	96	98	71-120	2	30
1,2-Dibromoethane	N.D.	20	20.06	20	20.1	100	101	75-120	0	30
1,2-Dichlorobenzene	N.D.	20	19.24	20	19.53	96	98	80-120	2	30
1,3-Dichlorobenzene	N.D.	20	19.42	20	19.68	97	98	80-120	1	30
1,4-Dichlorobenzene	N.D.	20	19.61	20	19.91	98	100	80-120	2	30
Dichlorodifluoromethane	N.D.	20	21.32	20	21.68	107	108	47-124	2	30
1,1-Dichloroethane	0.872	20	22.6	20	22.65	109	109	80-120	0	30
1,2-Dichloroethane	N.D.	20	20.71	20	20.76	104	104	73-124	0	30
1,1-Dichloroethene	35.11	20	60.52	20	60.67	127*	128*	76-124	0	30
cis-1,2-Dichloroethene	1.82	20	24.37	20	24.3	113	112	80-120	0	30
trans-1,2-Dichloroethene	N.D.	20	23.32	20	23.41	117	117	80-120	0	30
1,2-Dichloropropane	N.D.	20	21.41	20	21.48	107	107	80-120	0	30
cis-1,3-Dichloropropene	N.D.	20	19.81	20	19.76	99	99	75-120	0	30
trans-1,3-Dichloropropene	N.D.	20	18.82	20	19.05	94	95	76-120	1	30
Ethylbenzene	N.D.	20	20.88	20	21.42	104	107	78-120	3	30
Freon 113	N.D.	20	26.11	20	26.13	131	131	68-137	0	30

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Reported: 12/10/2017 18:42

Group Number: 1877250

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
2-Hexanone	N.D.	100	98.17	100	99.17	98	99	60-134	1	30
Isopropylbenzene	N.D.	20	21.12	20	21.62	106	108	80-120	2	30
Methyl Acetate	N.D.	20	19.98	20	19.88	100	99	61-137	0	30
Methyl Tertiary Butyl Ether	N.D.	20	20.13	20	20.24	101	101	75-120	1	30
4-Methyl-2-pentanone	N.D.	100	100.31	100	100.64	100	101	67-128	0	30
Methylcyclohexane	N.D.	20	22.55	20	22.99	113	115	66-126	2	30
Methylene Chloride	N.D.	20	21.83	20	21.93	109	110	80-120	0	30
Styrene	N.D.	20	20.85	20	20.94	104	105	80-120	0	30
1,1,2,2-Tetrachloroethane	N.D.	20	18.44	20	18.74	92	94	72-120	2	30
Tetrachloroethene	0.836	20	22.36	20	22.79	108	110	80-129	2	30
Toluene	N.D.	20	20.78	20	21.29	104	106	80-120	2	30
1,2,3-Trichlorobenzene	N.D.	20	17.15	20	17.78	86	89	66-120	4	30
1,2,4-Trichlorobenzene	N.D.	20	16.89	20	17.46	84	87	70-120	3	30
1,1,1-Trichloroethane	3.12	20	24.63	20	24.69	108	108	67-120	0	30
1,1,2-Trichloroethane	N.D.	20	20.09	20	20.36	100	102	80-120	1	30
Trichloroethene	41.95	20	63.99	20	64.37	110	112	80-120	1	30
Trichlorofluoromethane	N.D.	20	22.01	20	22.47	110	112	52-143	2	30
Vinyl Chloride	N.D.	20	20.72	20	20.98	104	105	63-121	1	30
m+p-Xylene	N.D.	40	42.33	40	43.13	106	108	80-120	2	30
o-Xylene	N.D.	20	20.17	20	20.71	101	104	80-120	3	30
Xylene (Total)	N.D.	60	62.49	60	63.85	104	106	80-120	2	30
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: 17325WAS026	Sample number(s): 9326082-9326083 UNSPK: P25WSUS									
Acenaphthene	N.D.	50.61	34.34	50.61	37.43	68	74	68-112	9	30
Acenaphthylene	N.D.	50.61	0.909	50.61	1.15	2*	2*	67-111	24	30
Acetophenone	N.D.	50.61	36.34	50.61	39.13	72	77	71-108	7	30
Anthracene	N.D.	50.61	31.31	50.61	35.16	62*	69*	73-113	12	30
Atrazine	N.D.	50.61	40.52	50.61	44.03	80	87	80-120	8	30
Benzaldehyde	N.D.	50.61	37.65	50.61	37.44	74	74	58-107	1	30
Benzo(a)anthracene	N.D.	50.61	29.81	50.61	31.4	59*	62*	74-124	5	30
Benzo(a)pyrene	0.107	50.61	24.99	50.61	25.69	49*	51*	70-113	3	30
Benzo(b)fluoranthene	0.169	50.61	26.14	50.61	27.08	51*	53*	72-117	4	30
Benzo(g,h,i)perylene	0.156	50.61	21.87	50.61	23.2	43*	46*	64-117	6	30
Benzo(k)fluoranthene	N.D.	50.61	26.18	50.61	27.16	52*	54*	73-121	4	30
1,1'-Biphenyl	N.D.	50.61	32.64	50.61	35.8	64*	71	65-107	9	30
4-Bromophenyl-phenylether	N.D.	50.61	35.56	50.61	38.66	70*	76	71-114	8	30
Butylbenzylphthalate	N.D.	50.61	32.3	50.61	33.83	64	67	52-121	5	30
Di-n-butylphthalate	N.D.	50.61	35.16	50.61	38.13	69	75	69-117	8	30
Caprolactam	N.D.	50.61	5.29	50.61	11.2	10*	22	13-37	72*	30
Carbazole	N.D.	50.61	35.9	50.61	39.81	71*	79	79-116	10	30
4-Chloro-3-methylphenol	N.D.	50.61	36.39	50.61	46.24	72	91	72-116	24	30
4-Chloroaniline	N.D.	50.61	23.54	50.61	23.19	47	46	42-99	1	30

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Reported: 12/10/2017 18:42

Group Number: 1877250

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
bis(2-Chloroethoxy)methane	N.D.	50.61	39.14	50.61	42.31	77	84	72-116	8	30
bis(2-Chloroethyl)ether	N.D.	50.61	33.63	50.61	36.81	66	73	63-108	9	30
bis(2-Chloroisopropyl)ether	N.D.	50.61	29.34	50.61	31.35	58	62	54-116	7	30
2-Chloronaphthalene	N.D.	50.61	31.16	50.61	34.5	62	68	59-109	10	30
2-Chlorophenol	N.D.	50.61	8.39	50.61	29.06	17*	57*	62-105	110*	30
4-Chlorophenyl-phenylether	N.D.	50.61	37.72	50.61	41.22	75	81	65-112	9	30
Chrysene	0.110	50.61	29.97	50.61	31.69	59*	62*	75-120	6	30
Dibenz(a,h)anthracene	N.D.	50.61	22.95	50.61	24.34	45*	48*	68-121	6	30
Dibenzofuran	N.D.	50.61	36.19	50.61	39.44	72	78	69-110	9	30
3,3'-Dichlorobenzidine	N.D.	50.61	26.72	50.61	20.99	53	41	37-104	24	30
2,4-Dichlorophenol	N.D.	50.61	8.94	50.61	35.1	18*	69*	71-113	119*	30
Diethylphthalate	N.D.	50.61	39.17	50.61	41.72	77	82	55-113	6	30
2,4-Dimethylphenol	N.D.	50.61	30.79	50.61	35.91	61	71	53-93	15	30
Dimethylphthalate	N.D.	50.61	39.34	50.61	41.5	78	82	19-119	5	30
4,6-Dinitro-2-methylphenol	N.D.	50.61	N.D.	50.61	32.38	0*	64	59-125	200*	30
2,4-Dinitrophenol	N.D.	101.21	N.D.	101.21	64.02	0*	63	33-133	200*	30
2,4-Dinitrotoluene	N.D.	50.61	38.42	50.61	42.03	76	83	70-122	9	30
2,6-Dinitrotoluene	N.D.	50.61	39.5	50.61	41.65	78	82	75-121	5	30
1,4-Dioxane	N.D.	50.61	9.82	50.61	17.51	19*	35	28-56	56*	30
bis(2-Ethylhexyl)phthalate	N.D.	50.61	26.23	50.61	27.42	52*	54*	64-126	4	30
Fluoranthene	0.150	50.61	32.6	50.61	35.77	64*	70*	75-117	9	30
Fluorene	N.D.	50.61	35.6	50.61	38.91	70	77	68-112	9	30
Hexachlorobenzene	N.D.	50.61	30.79	50.61	33.98	61*	67	66-115	10	30
Hexachlorobutadiene	N.D.	50.61	37.58	50.61	41.92	74	83	27-111	11	30
Hexachlorocyclopentadiene	N.D.	101.21	25.4	101.21	27.71	25	27	10-81	9	30
Hexachloroethane	N.D.	50.61	30.36	50.61	33.31	60	66	28-103	9	30
Indeno(1,2,3-cd)pyrene	0.135	50.61	22.92	50.61	24.11	45*	47*	67-117	5	30
Isophorone	N.D.	50.61	38.82	50.61	41.94	77	83	70-117	8	30
2-Methylnaphthalene	N.D.	50.61	35.38	50.61	38.93	70	77	54-111	10	30
2-Methylphenol	N.D.	50.61	27.45	50.61	35.69	54*	71	57-105	26	30
4-Methylphenol	N.D.	50.61	26.63	50.61	37.11	53	73	51-100	33*	30
Naphthalene	N.D.	50.61	35.01	50.61	37.55	69	74	54-109	7	30
2-Nitroaniline	N.D.	50.61	35.31	50.61	38.49	70*	76	74-121	9	30
3-Nitroaniline	N.D.	50.61	29.79	50.61	30.73	59*	61	61-114	3	30
4-Nitroaniline	N.D.	50.61	29.41	50.61	30.25	58*	60	60-106	3	30
Nitrobenzene	N.D.	50.61	36.42	50.61	38.59	72	76	66-114	6	30
2-Nitrophenol	N.D.	50.61	7.10	50.61	36.53	14*	72	68-120	135*	30
4-Nitrophenol	N.D.	50.61	N.D.	50.61	17.2	0*	34	18-91	200*	30
N-Nitroso-di-n-propylamine	N.D.	50.61	37.14	50.61	39.68	73	78	67-115	7	30
N-Nitrosodiphenylamine	N.D.	50.61	34.49	50.61	38.25	68*	76	75-116	10	30
Di-n-octylphthalate	N.D.	50.61	26.61	50.61	27.19	53*	54*	68-127	2	30
Pentachlorophenol	N.D.	50.61	N.D.	50.61	29.18	0*	58*	59-134	200*	30
Phenanthrene	N.D.	50.61	31.59	50.61	35.18	62*	70*	72-110	11	30

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Reported: 12/10/2017 18:42

Group Number: 1877250

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Phenol	N.D.	50.61	14.27	50.61	26.16	28	52	16-80	59*	30
Pyrene	0.135	50.61	28.62	50.61	30.95	56*	61*	72-109	8	30
1,2,4,5-Tetrachlorobenzene	N.D.	50.61	34.22	50.61	38.07	68	75	50-108	11	30
2,3,4,6-Tetrachlorophenol	N.D.	50.61	1.00	50.61	36.4	2*	72	69-125	189*	30
2,4,5-Trichlorophenol	N.D.	50.61	4.73	50.61	36.06	9*	71*	75-118	154*	30
2,4,6-Trichlorophenol	N.D.	50.61	1.56	50.61	35.36	3*	70*	75-118	183*	30
Batch number: 17326WAA026	Sample number(s): 9326084-9326086,9326088-9326093 UNSPK: 9326084									
Acenaphthene	N.D.	50	38.08	50	36.67	76	73	68-112	4	30
Acenaphthylene	N.D.	50	1.25	50	1.19	2*	2*	67-111	5	30
Acetophenone	N.D.	50	38.45	50	38.28	77	77	71-108	0	30
Anthracene	N.D.	50	38.62	50	37.87	77	76	73-113	2	30
Atrazine	N.D.	50	42.36	50	42.01	85	84	80-120	1	30
Benzaldehyde	N.D.	50	40.17	50	38.6	80	77	58-107	4	30
Benzo(a)anthracene	N.D.	50	44.73	50	42.02	89	84	74-124	6	30
Benzo(a)pyrene	N.D.	50	37.93	50	37.22	76	74	70-113	2	30
Benzo(b)fluoranthene	N.D.	50	39.77	50	39.62	80	79	72-117	0	30
Benzo(g,h,i)perylene	N.D.	50	37.05	50	33.06	74	66	64-117	11	30
Benzo(k)fluoranthene	N.D.	50	39.55	50	39.17	79	78	73-121	1	30
1,1'-Biphenyl	N.D.	50	35.71	50	33.85	71	68	65-107	5	30
4-Bromophenyl-phenylether	N.D.	50	43.93	50	42.78	88	86	71-114	3	30
Butylbenzylphthalate	N.D.	50	40.99	50	38.43	82	77	52-121	6	30
Di-n-butylphthalate	N.D.	50	41.82	50	41.13	84	82	69-117	2	30
Caprolactam	N.D.	50	11.59	50	12.46	23	25	13-37	7	30
Carbazole	N.D.	50	40.93	50	40.4	82	81	79-116	1	30
4-Chloro-3-methylphenol	N.D.	50	46.78	50	48.22	94	96	72-116	3	30
4-Chloroaniline	N.D.	50	21.65	50	22.83	43	46	42-99	5	30
bis(2-Chloroethoxy)methane	N.D.	50	41.9	50	41.22	84	82	72-116	2	30
bis(2-Chloroethyl)ether	N.D.	50	36.99	50	36.56	74	73	63-108	1	30
bis(2-Chloroisopropyl)ether	N.D.	50	31.34	50	31.16	63	62	54-116	1	30
2-Chloronaphthalene	N.D.	50	32.61	50	30.15	65	60	59-109	8	30
2-Chlorophenol	N.D.	50	34.79	50	35.06	70	70	62-105	1	30
4-Chlorophenyl-phenylether	N.D.	50	43.65	50	42.04	87	84	65-112	4	30
Chrysene	N.D.	50	44.95	50	41.21	90	82	75-120	9	30
Dibenz(a,h)anthracene	N.D.	50	38.7	50	35.95	77	72	68-121	7	30
Dibenzofuran	N.D.	50	40.53	50	38.28	81	77	69-110	6	30
3,3'-Dichlorobenzidine	N.D.	50	37.53	50	33.05	75	66	37-104	13	30
2,4-Dichlorophenol	N.D.	50	41.8	50	43.37	84	87	71-113	4	30
Diethylphthalate	N.D.	50	42.04	50	43.07	84	86	55-113	2	30
2,4-Dimethylphenol	N.D.	50	36.26	50	36.48	73	73	53-93	1	30
Dimethylphthalate	N.D.	50	40.83	50	39.51	82	79	19-119	3	30
4,6-Dinitro-2-methylphenol	N.D.	50	43.08	50	43.63	86	87	59-125	1	30
2,4-Dinitrophenol	N.D.	100	98.78	100	99.98	99	100	33-133	1	30

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Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Reported: 12/10/2017 18:42

Group Number: 1877250

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
2,4-Dinitrotoluene	N.D.	50	44.22	50	44.06	88	88	70-122	0	30
2,6-Dinitrotoluene	N.D.	50	43.81	50	42.83	88	86	75-121	2	30
1,4-Dioxane	N.D.	50	16.2	50	16.77	32	34	28-56	4	30
bis(2-Ethylhexyl)phthalate	N.D.	50	41.63	50	38.83	83	78	64-126	7	30
Fluoranthene	N.D.	50	42.27	50	41.53	85	83	75-117	2	30
Fluorene	N.D.	50	40.8	50	39.73	82	79	68-112	3	30
Hexachlorobenzene	N.D.	50	41.85	50	40.42	84	81	66-115	3	30
Hexachlorobutadiene	N.D.	50	36.73	50	35.53	73	71	27-111	3	30
Hexachlorocyclopentadiene	N.D.	100	19.17	100	17.28	19	17	10-81	10	30
Hexachloroethane	N.D.	50	28.38	50	27.98	57	56	28-103	1	30
Indeno(1,2,3-cd)pyrene	N.D.	50	38.44	50	34.5	77	69	67-117	11	30
Isophorone	N.D.	50	42.22	50	41.88	84	84	70-117	1	30
2-Methylnaphthalene	N.D.	50	37	50	36.99	74	74	54-111	0	30
2-Methylphenol	N.D.	50	36.97	50	37.59	74	75	57-105	2	30
4-Methylphenol	N.D.	50	38.55	50	39.96	77	80	51-100	4	30
Naphthalene	N.D.	50	35.38	50	34.29	71	69	54-109	3	30
2-Nitroaniline	N.D.	50	40.86	50	40.03	82	80	74-121	2	30
3-Nitroaniline	N.D.	50	30.61	50	30.6	61	61	61-114	0	30
4-Nitroaniline	N.D.	50	37.68	50	37.19	75	74	60-106	1	30
Nitrobenzene	N.D.	50	39.06	50	38.12	78	76	66-114	2	30
2-Nitrophenol	N.D.	50	44.24	50	44.37	88	89	68-120	0	30
4-Nitrophenol	N.D.	50	24.97	50	24.38	50	49	18-91	2	30
N-Nitroso-di-n-propylamine	N.D.	50	39.89	50	40.79	80	82	67-115	2	30
N-Nitrosodiphenylamine	N.D.	50	39.96	50	38.67	80	77	75-116	3	30
Di-n-octylphthalate	N.D.	50	40.26	50	40.4	81	81	68-127	0	30
Pentachlorophenol	N.D.	50	42.9	50	42.71	86	85	59-134	0	30
Phenanthrene	N.D.	50	38.01	50	37.14	76	74	72-110	2	30
Phenol	N.D.	50	28.55	50	27.87	57	56	16-80	2	30
Pyrene	N.D.	50	38.73	50	36.92	77	74	72-109	5	30
1,2,4,5-Tetrachlorobenzene	N.D.	50	36.53	50	33.72	73	67	50-108	8	30
2,3,4,6-Tetrachlorophenol	N.D.	50	52.27	50	51.07	105	102	69-125	2	30
2,4,5-Trichlorophenol	N.D.	50	46.29	50	45.74	93	91	75-118	1	30
2,4,6-Trichlorophenol	N.D.	50	45.39	50	45.27	91	91	75-118	0	30
	ug/l	**ug/l**	**ug/l**	**ug/l**	**ug/l**					
Batch number: 173241063502	Sample number(s): 9326092 UNSPK: P322204									
Aluminum	N.D.	2000	2091.66	2000	2097.91	105	105	75-125	0	20
Antimony	N.D.	500	479.22	500	512.41	96	102	75-125	7	20
Arsenic	N.D.	150	143.75	150	142.02	96	95	75-125	1	20
Barium	167.56	2000	2065.75	2000	2101.03	95	97	75-125	2	20
Beryllium	N.D.	50	47.92	50	48.76	96	98	75-125	2	20
Cadmium	N.D.	50	48.39	50	49.73	97	99	75-125	3	20
Calcium	57927.3	4000	60595.33	4000	62406.78	67 (2)	112 (2)	75-125	3	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1877250
Reported: 12/10/2017 18:42

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Chromium	N.D.	200	185.69	200	187.5	93	94	75-125	1	20
Cobalt	N.D.	500	473.42	500	487.67	95	98	75-125	3	20
Copper	N.D.	250	244.79	250	247.82	98	99	75-125	1	20
Iron	96.69	1000	1095.45	1000	1074.89	100	98	75-125	2	20
Lead	N.D.	150	133.26	150	138.09	89	92	75-125	4	20
Magnesium	12173.75	2000	13987.65	2000	14286.23	91 (2)	106 (2)	75-125	2	20
Manganese	57.47	500	555.54	500	532.24	100	95	75-125	4	20
Nickel	N.D.	500	463.44	500	478.07	93	96	75-125	3	20
Potassium	1539.73	10000	11358.08	10000	11844.81	98	103	75-125	4	20
Selenium	N.D.	150	134.13	150	148.96	89	99	75-125	10	20
Silver	N.D.	50	54.66	50	54.93	109	110	75-125	0	20
Sodium	42111.37	10000	51121.01	10000	53025.84	90 (2)	109 (2)	75-125	4	20
Thallium	N.D.	150	134.88	150	138.69	90	92	75-125	3	20
Vanadium	N.D.	500	471.19	500	478.49	94	96	75-125	2	20
Zinc	N.D.	500	479.09	500	513.41	96	103	75-125	7	20
Batch number: 173250571303	Sample number(s): 9326082-9326092 UNSPK: 9326084									
Mercury	N.D.	1.00	0.959	1.00	0.946	96	95	80-120	1	20
Batch number: 173251063502	Sample number(s): 9326082-9326091,9326093 UNSPK: 9326084									
Aluminum	N.D.	2000	2187.21	2000	2213.75	109	111	75-125	1	20
Antimony	N.D.	500	498.42	500	515.74	100	103	75-125	3	20
Arsenic	N.D.	150	153.05	150	154.88	102	103	75-125	1	20
Barium	114.88	2000	2145.21	2000	2282.19	102	108	75-125	6	20
Beryllium	N.D.	50	49.55	50	50.6	99	101	75-125	2	20
Cadmium	N.D.	50	49.69	50	50.57	99	101	75-125	2	20
Calcium	143925.12	4000	144413.37	4000	144371.19	12 (2)	11 (2)	75-125	0	20
Chromium	N.D.	200	194.68	200	197.12	97	99	75-125	1	20
Cobalt	N.D.	500	498.58	500	506.74	100	101	75-125	2	20
Copper	N.D.	250	242.26	250	245.34	97	98	75-125	1	20
Iron	N.D.	1000	1050.33	1000	1034.49	105	103	75-125	2	20
Lead	N.D.	150	143.34	150	144.25	96	96	75-125	1	20
Magnesium	34445.3	2000	35786.14	2000	35757.4	67 (2)	66 (2)	75-125	0	20
Manganese	13.99	500	527.27	500	535.07	103	104	75-125	1	20
Nickel	N.D.	500	505.74	500	514.28	101	103	75-125	2	20
Potassium	2604.02	10000	12596.99	10000	12641.74	100	100	75-125	0	20
Selenium	N.D.	150	151.82	150	167.27	101	112	75-125	10	20
Silver	N.D.	50	52.35	50	52.11	105	104	75-125	0	20
Sodium	61678.95	10000	69104.15	10000	68522.62	74 (2)	68 (2)	75-125	1	20
Thallium	N.D.	150	145.19	150	156.35	97	104	75-125	7	20
Vanadium	N.D.	500	507.38	500	514.05	101	103	75-125	1	20
Zinc	N.D.	500	501.73	500	512.71	100	103	75-125	2	20

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1877250
Reported: 12/10/2017 18:42

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 173320571305	Sample number(s): 9326093 UNSPK: 9326093									
Mercury	N.D.	1.00	0.935	1.00	0.932	94	93	80-120	0	20

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc ug/l	DUP Conc ug/l	DUP RPD	DUP RPD Max
Batch number: 173241063502	Sample number(s): 9326092 BKG: P322204			
Aluminum	N.D.	N.D.	0 (1)	20
Antimony	N.D.	N.D.	0 (1)	20
Arsenic	N.D.	N.D.	0 (1)	20
Barium	167.56	172.39	3	20
Beryllium	N.D.	N.D.	0 (1)	20
Cadmium	N.D.	N.D.	0 (1)	20
Calcium	57927.3	59031.19	2	20
Chromium	N.D.	N.D.	0 (1)	20
Cobalt	N.D.	N.D.	0 (1)	20
Copper	N.D.	N.D.	0 (1)	20
Iron	96.69	82.13	16 (1)	20
Lead	N.D.	N.D.	0 (1)	20
Magnesium	12173.75	12416.23	2	20
Manganese	57.47	59	3	20
Nickel	N.D.	N.D.	0 (1)	20
Potassium	1539.73	1602.22	4 (1)	20
Selenium	N.D.	N.D.	0 (1)	20
Silver	N.D.	N.D.	0 (1)	20
Sodium	42111.37	43349.34	3	20
Thallium	N.D.	N.D.	0 (1)	20
Vanadium	N.D.	N.D.	0 (1)	20
Zinc	N.D.	N.D.	0 (1)	20
Batch number: 173250571303	Sample number(s): 9326082-9326092 BKG: 9326084			
Mercury	N.D.	N.D.	0 (1)	20
Batch number: 173251063502	Sample number(s): 9326082-9326091,9326093 BKG: 9326084			
Aluminum	N.D.	95.69	200* (1)	20
Antimony	N.D.	N.D.	0 (1)	20
Arsenic	N.D.	N.D.	0 (1)	20
Barium	114.88	113.72	1	20

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P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1877250
Reported: 12/10/2017 18:42

Laboratory Duplicate (continued)

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc ug/l	DUP Conc ug/l	DUP RPD	DUP RPD Max
Beryllium	N.D.	N.D.	0 (1)	20
Cadmium	N.D.	N.D.	0 (1)	20
Calcium	143925.12	142475.4	1	20
Chromium	N.D.	N.D.	0 (1)	20
Cobalt	N.D.	N.D.	0 (1)	20
Copper	N.D.	N.D.	0 (1)	20
Iron	N.D.	99.06	200* (1)	20
Lead	N.D.	N.D.	0 (1)	20
Magnesium	34445.3	34403.69	0	20
Manganese	13.99	15.65	11 (1)	20
Nickel	N.D.	N.D.	0 (1)	20
Potassium	2604.02	2787.67	7 (1)	20
Selenium	N.D.	N.D.	0 (1)	20
Silver	N.D.	N.D.	0 (1)	20
Sodium	61678.95	61376.74	0	20
Thallium	N.D.	N.D.	0 (1)	20
Vanadium	N.D.	N.D.	0 (1)	20
Zinc	N.D.	N.D.	0 (1)	20
Batch number: 173320571305	Sample number(s): 9326093 BKG: 9326093			
Mercury	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report. For dual column analyses, the surrogate (at least one surrogate for multi-surrogate tests) must be within the acceptance limits on at least one of the two columns.

Analysis Name: GC/MS Volatiles - Pratt Oil
Batch number: L173331AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9326082	100	100	97	99
9326083	101	101	97	98
9326084	101	101	97	98
9326085	101	102	98	99
9326086	101	100	98	99
9326088	102	103	97	99
9326089	102	103	98	99
9326090	101	102	97	99
9326091	102	104	97	99

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1877250
Reported: 12/10/2017 18:42

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report. For dual column analyses, the surrogate (at least one surrogate for multi-surrogate tests) must be within the acceptance limits on at least one of the two columns.

Analysis Name: GC/MS Volatiles - Pratt Oil
Batch number: L173331AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	102	104	97	98
LCS	101	101	98	99
MS	101	102	98	99
MSD	101	100	98	99
Limits:	80-120	80-120	80-120	80-120

Analysis Name: GC/MS Volatiles - Pratt Oil
Batch number: L173341AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9326092	101	103	98	99
9326093	101	101	97	98
9326094	101	103	97	98
Blank	101	104	97	98
LCS	101	102	99	100
LCSD	100	102	99	100
MS	102	102	98	100
MSD	100	100	99	99
Limits:	80-120	80-120	80-120	80-120

Analysis Name: SVOAs 8270D MINI
Batch number: 17325WAS026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9326082	30	29	57	52	51	51
9326083	35	36	70	62	59	65
Blank	31	40	86	66	61	68
LCS	37	46	88	72	67	74
MS	23	6*	8*	69	64	42
MSD	45	39	72	75	70	46
Limits:	10-69	10-83	13-149	40-113	46-104	35-119

Analysis Name: SVOAs 8270D MINI
Batch number: 17326WAA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9326084	29	31	86	60	60	58
9326085	49	47	92	74	70	76
9326086	48	47	93	72	66	72

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: ExxonMobil c/o Roux Associates
Group Number: 1877250
Reported: 12/10/2017 18:42

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report. For dual column analyses, the surrogate (at least one surrogate for multi-surrogate tests) must be within the acceptance limits on at least one of the two columns.

Analysis Name: SVOAs 8270D MINI
Batch number: 17326WAA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9326088	33	31	89	55	55	70
9326089	17	19	65	54	53	55
9326090	30	27	69	40	56	42
9326091	24	34	87	71	63	63
9326092	20	25	65	62	56	54
9326093	21	25	65	65	58	52
Blank	26	37	91	71	66	80
LCS	37	47	93	72	62	77
MS	49	47	92	74	70	76
MSD	48	47	93	72	66	72
Limits:	10-69	10-83	13-149	40-113	46-104	35-119

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
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Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 13438 Group # 1877250 EMES-Eurofins Agreement # A2604415 Sample # 9326082-94

Client: Roux Associates, Inc	
Project Name/#: FPOW	Site ID #:
Project Manager: Tally Sodre	P.O. #: 0172.0291Y003
Sampler: BT, CH, BC, MD	PWSID #:
Phone #: (631) 630-2409	Quote #:
State where samples were collected: ___ NY	For Compliance: Yes ☐ No ☐

Matrix: ☐ Tissue ☐ Sediment ☐ Soil; Water: ☑ Ground ☐ Surface ☐ Potable ☐ NPDES; Other: Trip Blank

Analyses Requested — Preservation and Filtration Codes: H (VOCs 8260C), N (Total Metals6010C/7470A)

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil/Sediment/Tissue	Water	Other	Total # of Containers	VOCs 8260C (H)	SVOCs 8270D	Total Metals6010C/7470A (N)							Remarks
MW-37	11/16/17	9:10				X		6	X	X	X							
DUP111617	11/16/17	9:00				X		6	X	X	X							
MW-69	11/16/17	12:35				X		6	X	X	X							
MW-69 MS	11/16/17	12:35				X		6	X	X	X							
MW-69 MSD	11/16/17	12:35				X		6	X	X	X							
MW-1	11/16/17	9:20				X		6	X	X	X							
MW-4D	11/16/17	10:55				X		6	X	X	X							
MW-15	11/16/17	13:45				X		6	X	X	X							
FB111617	11/16/17	14:30				X		6	X	X	X							
MW-28	11/17/17	10:10				X		6	X	X	X							

For Lab Use Only
SF #: ________
SCR #: ________

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
F = Field Filtered O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:
Rush results requested by (please check): E-Mail ☐ Phone ☐
E-mail Address:
Phone:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	11/17/17	15:25	[signature]	11/17/17	15:15
[signature]	11/17/17	20:30	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	[signature]	11-17-17	2030

Relinquished by Commercial Carrier:
UPS ______ FedEx ______ Other ______

Temperature upon receipt 1.3-1.8 °C

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☑ B

EDD Required? Yes ☑ No ☐ If yes, format: EQuIS and Excel

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 13438 Group # 1877250 EMES-Eurofins Agreement # A2604415 Sample # 9326082-94

Client: Roux Associates, Inc

Project Name/#: FPOW | Site ID #:

Project Manager: Tally Sodre | P.O. #: 0172.0291Y003

Sampler: BT, CH, BC, MD | PWSID #:

Phone #: (631) 630-2409 | Quote #:

State where samples were collected: NY | For Compliance: Yes ☐ No ☐

Matrix: Tissue ☐ Sediment ☐ Soil ☐ | Water: Ground ☑ Surface ☐ Potable ☐ NPDES ☐ | Other: Trip Blank

Analyses Requested / Preservation and Filtration Codes

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil/Sediment/Tissue	Water	Other	Total # of Containers	VOCs 8260C (H)	SVOCs 8270D	Total Metals6010C/7470A (N)								Remarks
MW-28D	11/17/17	11:00				X		6	X	X	X								
TB17311	11/8/17	--					X	3	X										

For Lab Use Only

SF #: ____

SCR #: ____

Preservation Codes

H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
F = Field Filtered O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address:

Phone:

Relinquished by	Date	Time	Received by	Date	Time
[signature]	11/17/17	15:25	[signature]	11/17/17	1525
[signature]	11/17/17	20:30			
			[signature]	11-17-17	2030

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ____

Temperature upon receipt 1.3-1.8 °C

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NJ DKQP ☐ NYSDEC Category ☐ A or ☑ B

EDD Required? Yes ☑ No ☐ If yes, format: EQuIS and Excel

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Sample Administration Receipt Documentation Log

Doc Log ID: 201586

Group Number(s): 1877250

Client: ExxonMobil

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	11/17/2017 20:30
Number of Packages:	2	Number of Projects:	2
State/Province of Origin:	NY		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	3
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Cory Jeremiah (10469) at 22:56 on 11/17/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT42-01	1.8	DT	Wet	Y	Bagged	N
2	DT42-01	1.3	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mg**	milligram(s)
C	degrees Celsius	**mL**	milliliter(s)
cfu	colony forming units	**MPN**	Most Probable Number
CP Units	cobalt-chloroplatinate units	**N.D.**	non-detect
F	degrees Fahrenheit	**ng**	nanogram(s)
g	gram(s)	**NTU**	nephelometric turbidity units
IU	International Units	**pg/L**	picogram/liter
kg	kilogram(s)	**RL**	Reporting Limit
L	liter(s)	**TNTC**	Too Numerous To Count
lb.	pound(s)	**µg**	microgram(s)
m3	cubic meter(s)	**µL**	microliter(s)
meq	milliequivalents	**umhos/cm**	micromhos/cm

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

PLATES

1. Site Plan
2. Groundwater Elevations and Apparent LNAPL Thickness November 14, 2017
3. VOC Exceedances in Groundwater
4. SVOC Exceedances in Groundwater
5. Metals Exceedances in Groundwater



SOURCE

CONTROL POINT ASSOCIATES, INC. BOUNDARY, LOCATION & UTILITY SURVEY MARCH 6, 2009, DRAWING 1 OF 1 AND BOUNDARY, LOCATION AND UTILITY SURVEY NEWTOWN CREEK AND REVIEW AVENUE LOTS 349, 362, 500, 1362, AND 1367 BLOCK 312 SECTION Z. JULY 6, 2009 AND REVIEW AVENUE LOT 89, BLOCK 312, SECTION 2 FEBRUARY 18, 2011.

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BUILDINGS IN PARCEL C, PARCEL F, PARCEL H AND PARCEL J ARE BASED ON 2014 SATELLITE IMAGE.

CONTROL POINT ASSOCIATES, INC. PIEZOMETER WELL LOCATIONS, MARCH 18, 2016, DRAWING 1 OF 1.

CONTRACTOR'S LINE AND GRADE SOUTH LLC, EXISTING CONDITIONS SURVEY FOR BLOCK 312 LOT 300, JULY 20, 2015.

Parcel	Block/Lot
Parcel A	312 / 300 312 / 1367
Parcel B	312 / 309 312 / 315
Parcel C	312 / 348
Parcel D	312 / 1362
Parcel E	312 / 362 312 / 500
Parcel F	312 / 343
Parcel G	312 / 349
Parcel H	312 / 330
Parcel I	312 / 89
Parcel J	312 / 79
Parcel K	312 / 350

60' 0 60'

Title:

SITE PLAN

SITE STATUS UPDATE REPORT
FORMER PRATT OIL WORKS
LONG ISLAND CITY, QUEENS, NEW YORK

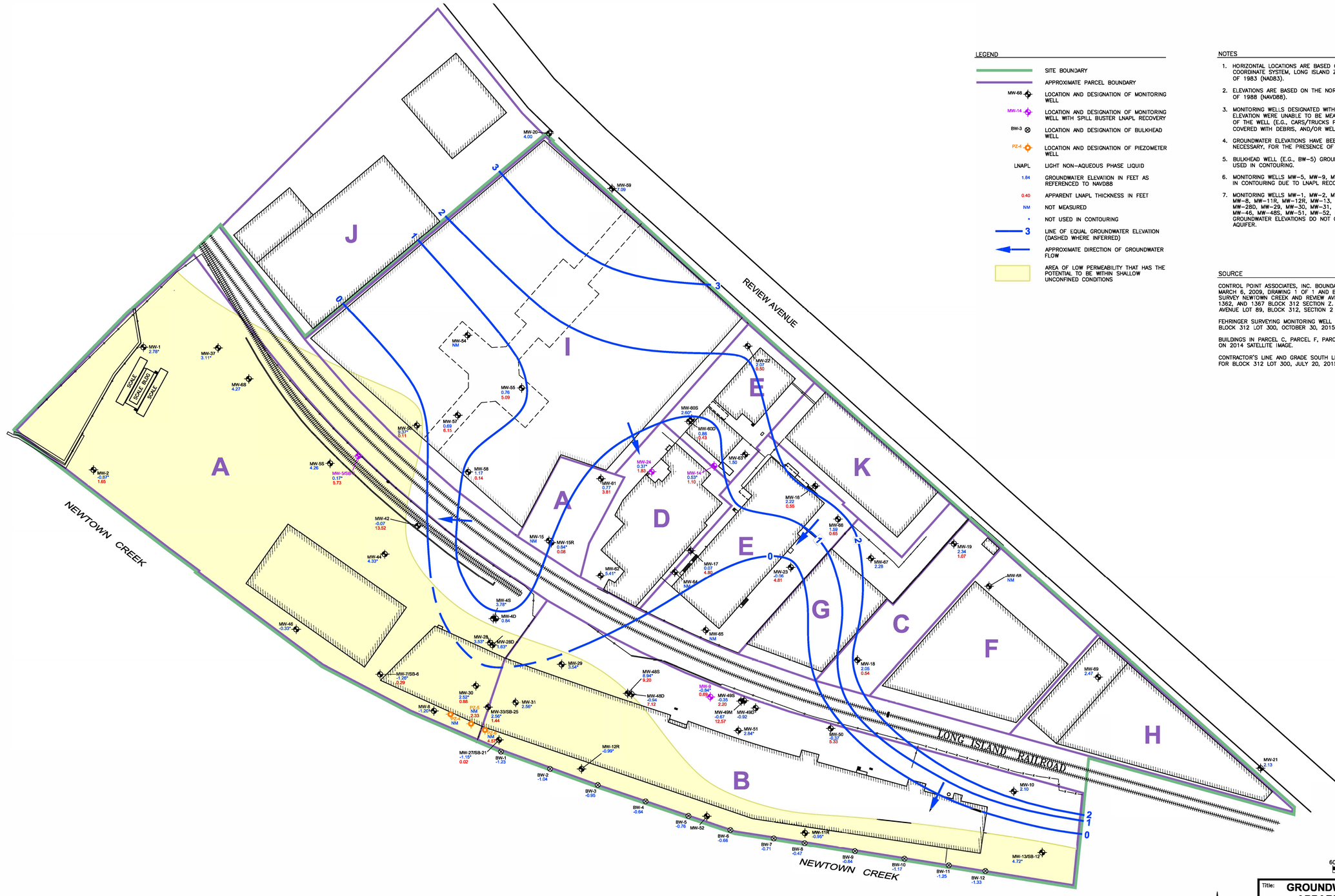
Prepared For:

EXXONMOBIL OIL CORPORATION
BROOKLYN, NEW YORK

ROUX

Compiled by: B.T.	Date: 06MAR18	PLATE
Prepared by: G.M.	Scale: AS SHOWN	1
Project Mgr: T.S .	Project: 0172.0291Y004	
File: 0172.0291Y229.03.DWG		

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LEGEND

- SITE BOUNDARY
- APPROXIMATE PARCEL BOUNDARY
- MW-68 — LOCATION AND DESIGNATION OF MONITORING WELL
- MW-14 — LOCATION AND DESIGNATION OF MONITORING WELL WITH SPILL BUSTER LNAPL RECOVERY
- BW-3 — LOCATION AND DESIGNATION OF BULKHEAD WELL
- PZ-4 — LOCATION AND DESIGNATION OF PIEZOMETER WELL
- LNAPL — LIGHT NON-AQUEOUS PHASE LIQUID
- 1.84 — GROUNDWATER ELEVATION IN FEET AS REFERENCED TO NAVD88
- 0.40 — APPARENT LNAPL THICKNESS IN FEET
- NM — NOT MEASURED
- • — NOT USED IN CONTOURING
- 3 — LINE OF EQUAL GROUNDWATER ELEVATION (DASHED WHERE INFERRED)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- AREA OF LOW PERMEABILITY THAT HAS THE POTENTIAL TO BE WITHIN SHALLOW UNCONFINED CONDITIONS

NOTES

1. HORIZONTAL LOCATIONS ARE BASED ON THE NEW YORK STATE PLAN COORDINATE SYSTEM, LONG ISLAND ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. MONITORING WELLS DESIGNATED WITH "NM" FOR GROUNDWATER ELEVATION WERE UNABLE TO BE MEASURED DUE TO INACCESSIBILITY OF THE WELL (E.G., CARS/TRUCKS PARKED ON TOP OF WELL, WELL COVERED WITH DEBRIS, AND/OR WELL COULD NOT BE LOCATED).
4. GROUNDWATER ELEVATIONS HAVE BEEN CORRECTED, WHERE NECESSARY, FOR THE PRESENCE OF LNAPL.
5. BULKHEAD WELL (E.G., BW-5) GROUNDWATER ELEVATIONS WERE NOT USED IN CONTOURING.
6. MONITORING WELLS MW-5, MW-9, MW-14, AND MW-24 NOT USED IN CONTOURING DUE TO LNAPL RECOVERY SYSTEM OPERATING.
7. MONITORING WELLS MW-1, MW-2, MW-4S, MW-5S, MW-6S, MW-7, MW-8, MW-11R, MW-12R, MW-13, ME-15R, MW-27, MW-28, MW-28D, MW-29, MW-30, MW-31, MW-33, MW-37, MW-44, MW-46, MW-48S, MW-51, MW-52, MW-56, MW-60D AND MW-62 GROUNDWATER ELEVATIONS DO NOT CORRESPOND TO REGIONAL AQUIFER.

SOURCE

CONTROL POINT ASSOCIATES, INC. BOUNDARY, LOCATION & UTILITY SURVEY MARCH 6, 2009, DRAWING 1 OF 1 AND BOUNDARY, LOCATION AND UTILITY SURVEY NEWTOWN CREEK AND REVIEW AVENUE LOTS 349, 362, 500, 1,362, AND 1,367 BLOCK 312 SECTION 2. JULY 6, 2009 AND REVIEW AVENUE LOT 89, BLOCK 312, SECTION 2 FEBRUARY 18, 2011.

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BUILDINGS IN PARCEL C, PARCEL F, PARCEL H, AND PARCEL J ARE BASED ON 2014 SATELLITE IMAGE.

CONTRACTOR'S LINE AND GRADE SOUTH LLC, EXISTING CONDITIONS SURVEY FOR BLOCK 312 LOT 300, JULY 20, 2015.

60' 0 60'

N

Title: **GROUNDWATER ELEVATIONS AND APPARENT LNAPL THICKNESS NOVEMBER 14, 2017**

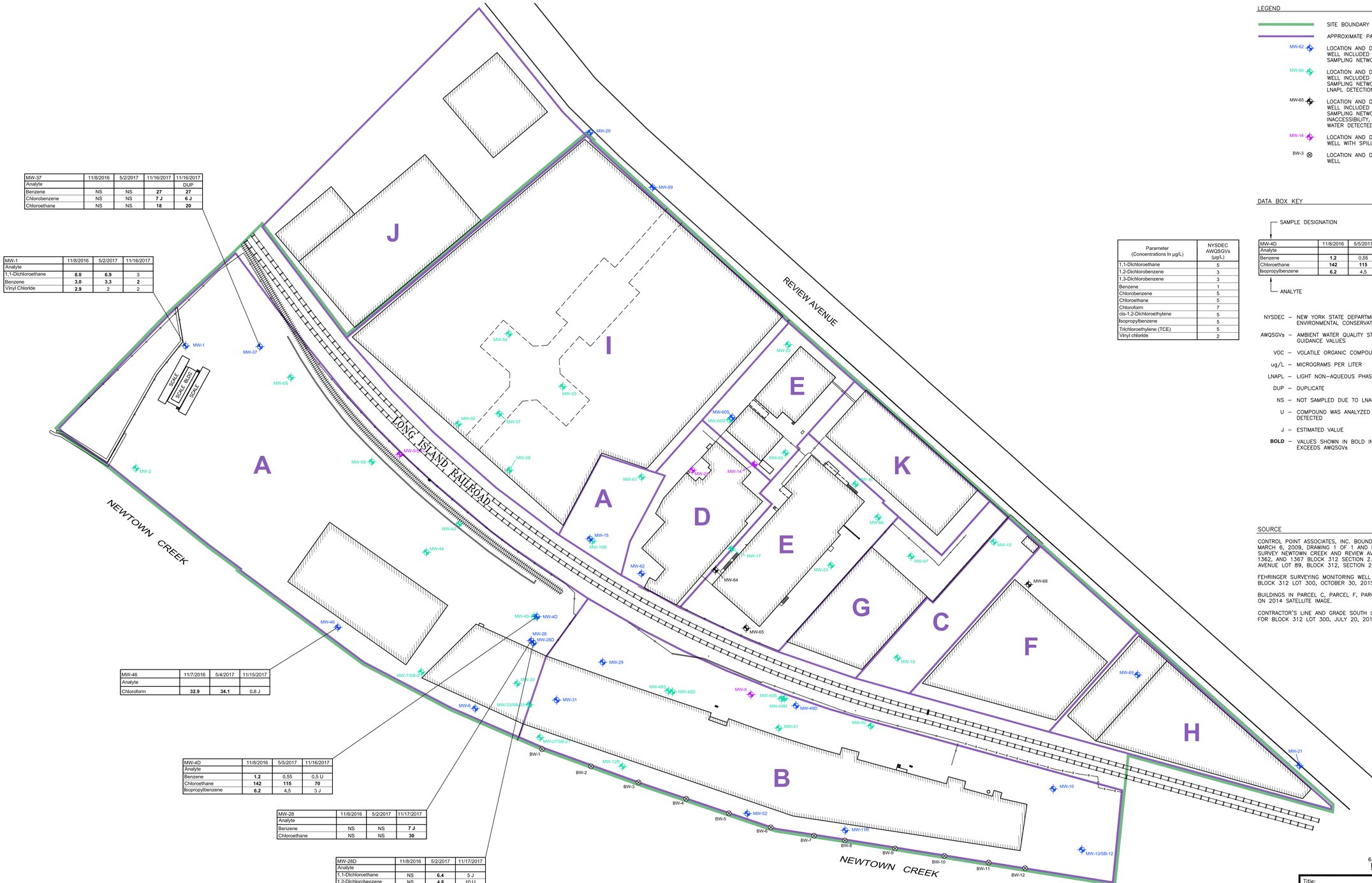
SITE STATUS UPDATE REPORT
FORMER PRATT OIL WORKS
LONG ISLAND CITY, QUEENS, NEW YORK

Prepared For:
EXXONMOBIL OIL CORPORATION
BROOKLYN, NEW YORK

ROUX

Compiled by: B.T.	Date: 06MAR18	PLATE 2
Prepared by: G.M.	Scale: AS SHOWN	
Project Mgr: T.S.	Project: 0172.0291Y004	
File: 0172.0291Y229.02.DWG		

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MW-37	11/8/2016	5/2/2017	11/16/2017	11/16/2017
Analyte				DUP
Benzene	NS	NS	**27**	**27**
Chlorobenzene	NS	NS	**7 J**	**6 J**
Chloroethane	NS	NS	**18**	**20**

MW-1	11/8/2016	5/2/2017	11/16/2017
Analyte			
1,1-Dichloroethane	**8.0**	**6.9**	3
Benzene	**3.0**	**3.3**	**2**
Vinyl Chloride	**2.9**	2	2

MW-46	11/7/2016	5/4/2017	11/15/2017
Analyte			
Chloroform	**32.9**	**34.1**	0.8 J

MW-4D	11/8/2016	5/5/2017	11/16/2017
Analyte			
Benzene	**1.2**	0.55	0.5 U
Chloroethane	**142**	**115**	**70**
Isopropylbenzene	**6.2**	4.5	3 J

MW-28	11/8/2016	5/2/2017	11/17/2017
Analyte			
Benzene	NS	NS	**7 J**
Chloroethane	NS	NS	**30**

MW-28D	11/8/2016	5/2/2017	11/17/2017
Analyte			
1,1-Dichloroethane	NS	**6.4**	5 J
1,2-Dichlorobenzene	NS	**4.8**	10 U
1,3- Dichlorobenzene	NS	**3.1**	10 U
Benzene	NS	**1.2**	5 U
cis-1,2-Dichloroethylene	NS	**21.2**	**9 J**
Trichloroethylene (TCE)	NS	**6.2**	5 U
Vinyl Chloride	NS	**7.4**	**6 J**

LEGEND

- SITE BOUNDARY
- APPROXIMATE PARCEL BOUNDARY
- MW-62 — LOCATION AND DESIGNATION OF MONITORING WELL INCLUDED IN THE GROUNDWATER SAMPLING NETWORK
- MW-66 — LOCATION AND DESIGNATION OF MONITORING WELL INCLUDED IN THE GROUNDWATER SAMPLING NETWORK NOT SAMPLED DUE TO LNAPL DETECTION
- MW-65 — LOCATION AND DESIGNATION OF MONITORING WELL INCLUDED IN THE GROUNDWATER SAMPLING NETWORK NOT SAMPLED DUE TO INACCESSIBILITY, ABANDONMENT, OR NO WATER DETECTED
- MW-14 — LOCATION AND DESIGNATION OF MONITORING WELL WITH SPILL BUSTER LNAPL RECOVERY
- BW-3 — LOCATION AND DESIGNATION OF BULKHEAD WELL

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)
1,1-Dichloroethane	5
1,2-Dichlorobenzene	3
1,3-Dichlorobenzene	3
Benzene	1
Chlorobenzene	5
Chloroethane	5
Chloroform	7
cis-1,2-Dichloroethylene	5
Isopropylbenzene	5
Trichloroethylene (TCE)	5
Vinyl chloride	2

DATA BOX KEY

SAMPLE DESIGNATION — SAMPLE DATE

MW-4D	11/8/2016	5/5/2017	11/16/2017
Analyte			
Benzene	**1.2**	0.55	0.5 U
Chloroethane	**142**	**115**	**70**
Isopropylbenzene	**6.2**	4.5	3 J

ANALYTE — CONCENTRATION (ug/L)

NYSDEC – NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

AWQSGVs – AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

VOC – VOLATILE ORGANIC COMPOUND

ug/L – MICROGRAMS PER LITER

LNAPL – LIGHT NON-AQUEOUS PHASE LIQUID

DUP – DUPLICATE

NS – NOT SAMPLED DUE TO LNAPL DETECTION

U – COMPOUND WAS ANALYZED FOR BUT NOT DETECTED

J – ESTIMATED VALUE

BOLD – VALUES SHOWN IN BOLD INDICATE VALUE EXCEEDS AWQSGVs

SOURCE

CONTROL POINT ASSOCIATES, INC. BOUNDARY, LOCATION & UTILITY SURVEY MARCH 6, 2009, DRAWING 1 OF 1 AND BOUNDARY, LOCATION AND UTILITY SURVEY NEWTOWN CREEK AND REVIEW AVENUE LOTS 349, 362, 500, 1362, AND 1367 BLOCK 312 SECTION 2, JULY 6, 2009 AND REVIEW AVENUE LOT 89, BLOCK 312, SECTION 2 FEBRUARY 18, 2011.

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CONTRACTOR'S LINE AND GRADE SOUTH LLC, EXISTING CONDITIONS SURVEY FOR BLOCK 312 LOT 300, JULY 20, 2015.

60' 0 60'

N

Title:

VOC EXCEEDANCES IN GROUNDWATER

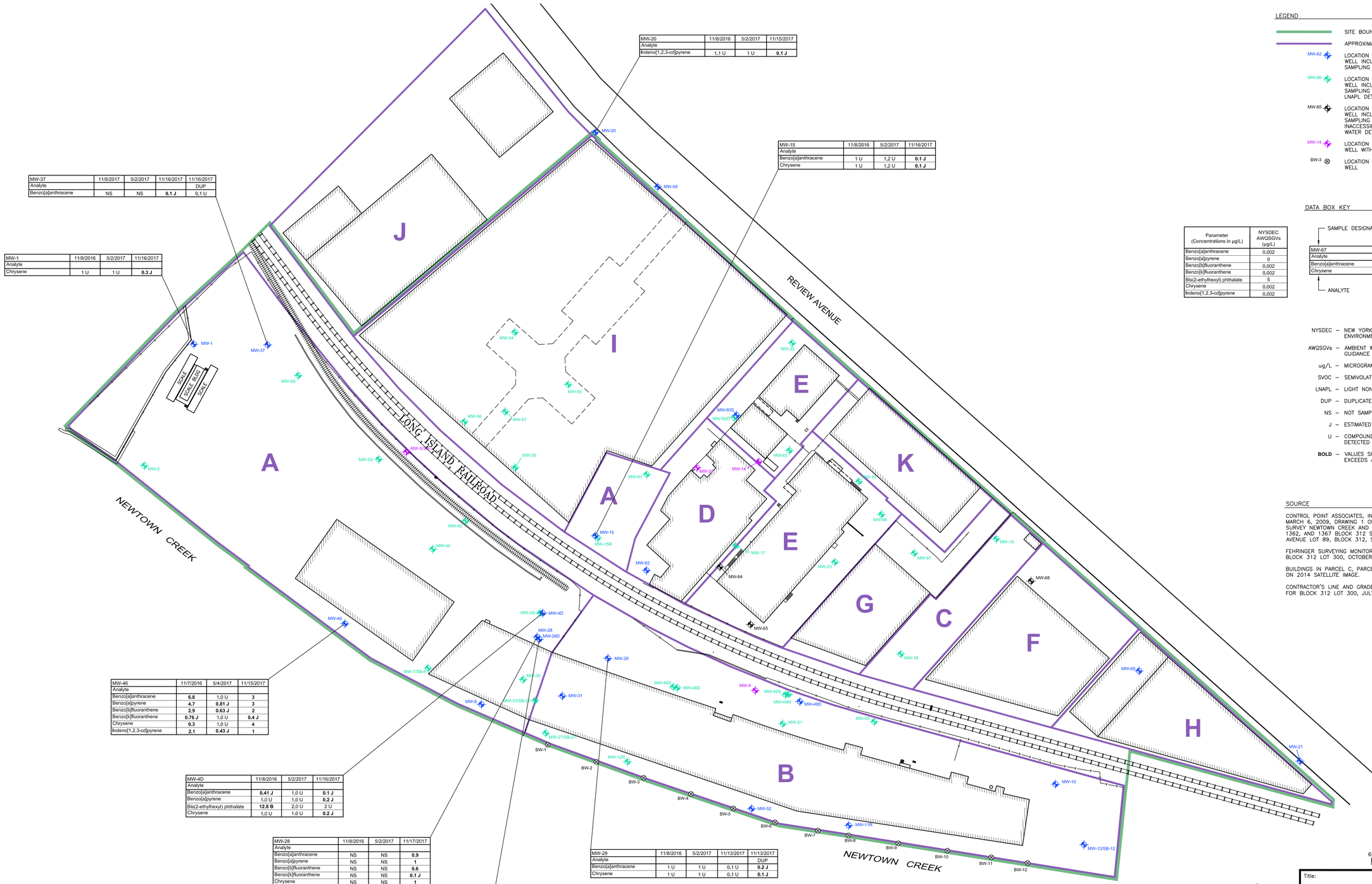
SITE STATUS UPDATE REPORT
FORMER PRATT OIL WORKS
LONG ISLAND CITY, QUEENS, NEW YORK

Prepared For:
EXXONMOBIL OIL CORPORATION
BROOKLYN, NEW YORK

ROUX

Compiled by: B.T.	Date: 06MAR18	PLATE
Prepared by: G.M.	Scale: AS SHOWN	3
Project Mgr: T.S.	Project: 0172.0291Y004	
File: 0172.0291Y229.01.DWG		

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MW-20	11/8/2016	5/2/2017	11/15/2017
Analyte			
Indeno[1,2,3-cd]pyrene	1,1 U	1 U	**0.1 J**

MW-15	11/8/2016	5/2/2017	11/16/2017
Analyte			
Benzo[a]anthracene	1 U	1,2 U	**0.1 J**
Chrysene	1 U	1,2 U	**0.1 J**

MW-37	11/8/2017	5/2/2017	11/16/2017	11/16/2017
Analyte				DUP
Benzo[a]anthracene	NS	NS	**0.1 J**	0.1 U

MW-1	11/8/2016	5/2/2017	11/16/2017
Analyte			
Chrysene	1 U	1 U	**0.3 J**

MW-46	11/7/2016	5/4/2017	11/15/2017
Analyte			
Benzo[a]anthracene	**6.8**	1,0 U	**3**
Benzo[a]pyrene	**4.7**	**0.81 J**	**3**
Benzo[b]fluoranthene	**2.9**	**0.63 J**	**2**
Benzo[k]fluoranthene	**0.76 J**	1,0 U	**0.4 J**
Chrysene	**9.3**	1,0 U	**4**
Indeno[1,2,3-cd]pyrene	**2.1**	**0.43 J**	**1**

MW-4D	11/8/2016	5/2/2017	11/16/2017
Analyte			
Benzo[a]anthracene	**0.41 J**	1,0 U	**0.1 J**
Benzo[a]pyrene	1,0 U	1,0 U	**0.2 J**
Bis(2-ethylhexyl) phthalate	**12.8 B**	2,0 U	2 U
Chrysene	1,0 U	1,0 U	**0.2 J**

MW-28	11/8/2016	5/2/2017	11/17/2017
Analyte			
Benzo[a]anthracene	NS	NS	**0.9**
Benzo[a]pyrene	NS	NS	**1**
Benzo[b]fluoranthene	NS	NS	**0.6**
Benzo[k]fluoranthene	NS	NS	**0.1 J**
Chrysene	NS	NS	**1**
Indeno[1,2,3-cd]pyrene	NS	NS	**0.3 J**

MW-28D	11/8/2016	5/2/2017	11/17/2017
Analyte			
Benzo[a]anthracene	NS	1,1 U	**0.2 J**
Benzo[a]pyrene	NS	**0.46 J**	**0.5 J**
Benzo[b]fluoranthene	NS	1,1 U	**0.4 J**
Chrysene	NS	1,1 U	**0.1 J**
Indeno[1,2,3-cd]pyrene	NS	1,1 U	**0.2 J**

MW-29	11/8/2016	5/2/2017	11/13/2017	11/13/2017
Analyte				DUP
Benzo[a]anthracene	1 U	1 U	0,1 U	**0.2 J**
Chrysene	1 U	1 U	0,1 U	**0.1 J**

LEGEND

- SITE BOUNDARY
- APPROXIMATE PARCEL BOUNDARY
- MW-62 — LOCATION AND DESIGNATION OF MONITORING WELL INCLUDED IN THE GROUNDWATER SAMPLING NETWORK
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- BW-3 — LOCATION AND DESIGNATION OF BULKHEAD WELL

DATA BOX KEY

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)
Benzo[a]anthracene	0,002
Benzo[a]pyrene	0
Benzo[b]fluoranthene	0,002
Benzo[k]fluoranthene	0,002
Bis(2-ethylhexyl) phthalate	5
Chrysene	0,002
Indeno[1,2,3-cd]pyrene	0,002

MW-67	11/11/2016	5/4/2017	11/13/2017
Analyte			
Benzo[a]anthracene	1,0 U	**0.59 J**	NS
Chrysene	1,0 U	**0.59 J**	NS

(SAMPLE DESIGNATION; SAMPLE DATE; ANALYTE; CONCENTRATION (ug/L))

NYSDEC – NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

AWQSGVs – AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

ug/L – MICROGRAMS PER LITER

SVOC – SEMIVOLATILE ORGANIC COMPOUND

LNAPL – LIGHT NON–AQUEOUS PHASE LIQUID

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NS – NOT SAMPLED DUE TO LNAPL DETECTION

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U – COMPOUND WAS ANALYZED FOR BUT NOT DETECTED

BOLD – VALUES SHOWN IN BOLD INDICATE VALUE EXCEEDS AWQSGVs

SOURCE

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CONTRACTOR'S LINE AND GRADE SOUTH LLC, EXISTING CONDITIONS SURVEY FOR BLOCK 312 LOT 300, JULY 20, 2015.

60' 0 60'

N

Title:

SVOC EXCEEDANCES IN GROUNDWATER

SITE STATUS UPDATE REPORT
FORMER PRATT OIL WORKS
LONG ISLAND CITY, QUEENS, NEW YORK

Prepared For:
EXXONMOBIL OIL CORPORATION
BROOKLYN, NEW YORK

ROUX

Compiled by: B.T.	Date: 06MAR18
Prepared by: G.M.	Scale: AS SHOWN
Project Mgr: T.S.	Project: 0172.0291Y004
File: 0172.0291Y229.01.DWG	

PLATE 4

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MW-20	11/8/2016	5/2/2017	11/15/2017
Analyte			
Iron	**3420**	**3510**	**28300**
Magnesium	**47400**	**40700**	**43600**
Manganese	**1610**	**2310**	**1620**
Sodium	**207000**	**196000**	**189000**

MW-15	11/8/2016	5/2/2017	11/16/2017
Analyte			
Arsenic	**26.9**	**27.4**	20.8 J
Iron	**41900**	**59500**	**52900**
Manganese	**541**	**519**	**604**
Sodium	**79400**	**384000**	**200000**

MW-59	11/8/2016	5/4/2017	11/15/2017
Analyte			
Iron	**2790**	**2460**	**2000**
Magnesium	31000	**54900**	28700
Manganese	297	**533**	**378**
Sodium	**72700**	**172000**	**85000**
Thallium	2 U	2 U	**17.7 J**

MW-15R	11/11/2016	5/2/2017	11/16/2017
Analyte			
Iron	**2610**	NS	NS

MW-37	11/8/2016	5/2/2017	11/16/2017	11/16/2017
Analyte				DUP
Iron	NS	NS	**4000**	**3960**
Manganese	NS	NS	**917**	**917**
Sodium	NS	NS	**394000**	**389000**

MW-60D	11/11/2016	5/4/2017	11/15/2017
Analyte			
Magnesium	**36100**	32000	**39900**
Sodium	**47800**	**50300**	**64000**

MW-1	11/8/2016	5/2/2017	11/16/2017
Analyte			
Iron	100 U	251	**430**
Manganese	**1960**	**2180**	**1850**
Sodium	**170000**	**211000**	**357000**
Thallium	2 U	2 U	**14.6 J**

MW-67	11/8/2016	5/4/2017	11/16/2017
Analyte			
Iron	**39500**	**37100**	NS
Manganese	**4150**	**4040**	NS
Sodium	**105000**	**121000**	NS

MW-62	11/8/2016	5/2/2017	11/13/2017
Analyte			
Antimony	6 U	6 U	**10.9 J**
Cadmium	**26.1**	**14.3**	**24.9**
Iron	**5780**	**12000**	**5420**
Manganese	**458**	**396**	142
Sodium	**54200**	**44100**	**29600**

MW-69	11/9/2016	5/5/2017	11/16/2017
Analyte			
Sodium	**27400**	17800	**61700**

MW-21	11/9/2016	11/9/2016	5/5/2017	5/5/2017	11/15/2017
Analyte		DUP		DUP	
Magnesium	28000	28700	**50600**	**49700**	31400
Selenium	10 U	10 U	10 U	**11.8**	9.3 U
Sodium	**37100**	**37400**	**75800**	**74300**	**55300**

MW-46	11/7/2016	5/4/2017	11/15/2017
Analyte			
Antimony	6 U	6 U	**9.8 J**
Iron	**763**	**450**	**2720**
Magnesium	5000 U	5000	**602000**
Sodium	19400	18500	**5020000**

MW-4D	11/8/2016	5/2/2017	11/16/2017
Analyte			
Iron	**46500**	**37400**	**9100**
Manganese	**720**	**630**	156
Sodium	**208000**	**207000**	**54200**

MW-28	11/8/2016	5/2/2017	11/17/2017
Analyte			
Sodium	NS	NS	**182000**

MW-28D	11/8/2016	5/2/2017	11/17/2017
Analyte			
Iron	NS	**535**	**470**
Sodium	NS	**176000**	**150000**

MW-8	11/7/2016	5/4/2017	11/15/2017
Analyte			
Magnesium	**863000**	**639000**	**771000**
Sodium	**7600000**	**5500000**	**6650000**

MW-29	11/8/2016	5/2/2017	11/13/2017	11/13/2017
Analyte				DUP
Iron	**8400**	**12100**	**8170**	**8390**
Manganese	**840**	**735**	**571**	**564**
Sodium	**613000**	**328000**	**321000**	**321000**
Thallium	2 U	2 U	**16.4 J**	13.7 U

MW-31	11/8/2016	5/2/2017	11/13/2017
Analyte			
Iron	**25100**	**37500**	**28200**
Magnesium	**95400**	**98400**	**94700**
Manganese	**1680**	**2070**	**2220**
Sodium	**831000**	**941000**	**777000**

MW-49D	11/9/2016	5/4/2017	11/13/2017
Analyte			
Antimony	6 U	NS	**12.3 J**
Iron	**49800**	NS	**50400**
Manganese	**1850**	NS	**1830**

MW-52	11/7/2016	5/2/2017	11/13/2017
Analyte			
Magnesium	**604000**	**395000**	**519000**
Sodium	**5380000**	**3270000**	**4550000**

MW-11R	11/7/2016	05/02/2017	11/15/2017
Analyte			
Antimony	6 U	6 U	**10 J**
Magnesium	**600000**	**494000**	**713000**
Sodium	**5080000**	**4040000**	**5770000**

MW-10	11/7/2016	5/2/2017	11/13/2017
Analyte			
Arsenic	**32.5**	**68.1**	9.6 U
Iron	**37400**	**31200**	**13900**
Magnesium	**79400**	**55100**	**53300**
Manganese	**1310**	**707**	**539**
Sodium	**659000**	**393000**	**389000**

MW-13	11/7/2016	11/7/2016	5/2/2017	5/2/2017	11/13/2017
Analyte		DUP		DUP	
Barium	**1920**	**1850**	670	618	**1530**
Iron	**1740**	**1630**	**953**	**862**	**3110**
Manganese	251	252	172	179	**528**
Sodium	**223000**	**212000**	**131000**	**128000**	**155000**

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (ug/L)
Antimony	3
Arsenic	25
Barium	1000
Cadmium	5
Iron	300
Magnesium	35000
Manganese	300
Selenium	10
Sodium	20000
Thallium	0.5

LEGEND

- SITE BOUNDARY
- APPROXIMATE PARCEL BOUNDARY
- MW-62 — LOCATION AND DESIGNATION OF MONITORING WELL INCLUDED IN THE GROUNDWATER SAMPLING NETWORK
- MW-66 — LOCATION AND DESIGNATION OF MONITORING WELL INCLUDED IN THE GROUNDWATER SAMPLING NETWORK NOT SAMPLED DUE TO LNAPL DETECTION
- MW-65 — LOCATION AND DESIGNATION OF MONITORING WELL INCLUDED IN THE GROUNDWATER SAMPLING NETWORK NOT SAMPLED DUE TO INACCESSIBILITY, ABANDONMENT, OR NO WATER DETECTED
- MW-14 — LOCATION AND DESIGNATION OF MONITORING WELL WITH SPILL BUSTER LNAPL RECOVERY
- BW-3 — LOCATION AND DESIGNATION OF BULKHEAD WELL

DATA BOX KEY

MW-60D	11/11/2016	5/4/2017	11/15/2017
Analyte			
Magnesium	**36100**	32000	**39900**
Sodium	**47800**	**50300**	**64000**

SAMPLE DESIGNATION — SAMPLE DATE — ANALYTE — CONCENTRATION (ug/L)

NYSDEC – NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

AWQSGVs – AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

ug/L – MICROGRAMS PER LITER

LNAPL – LIGHT NON-AQUEOUS PHASE LIQUID

DUP – DUPLICATE

NS – NOT SAMPLED DUE TO LNAPL DETECTION

U – COMPOUND WAS ANALYZED FOR BUT NOT DETECTED

J – ESTIMATED VALUE

BOLD – VALUES SHOWN IN BOLD INDICATE VALUE EXCEEDS AWQSGVs

SOURCE

CONTROL POINT ASSOCIATES, INC. BOUNDARY, LOCATION & UTILITY SURVEY MARCH 6, 2009, DRAWING 1 OF 1 AND BOUNDARY, LOCATION AND UTILITY SURVEY NEWTOWN CREEK AND REVIEW AVENUE LOTS 349, 362, 500, 1362, AND 1367 BLOCK 312 SECTION 2 JULY 6, 2009 AND REVIEW AVENUE LOT 89, BLOCK 312, SECTION 2 FEBRUARY 18, 2011.

FEHRINGER SURVEYING MONITORING WELL LOCATIONS AND ELEVATIONS FOR BLOCK 312 LOT 300, OCTOBER 30, 2015.

BUILDINGS IN PARCEL C, PARCEL F, PARCEL H AND PARCEL J ARE BASED ON 2014 SATELLITE IMAGE.

CONTRACTOR'S LINE AND GRADE SOUTH LLC, EXISTING CONDITIONS SURVEY FOR BLOCK 312 LOT 300, JULY 20, 2015.

60' 0 60'

N

Title:

METALS EXCEEDANCES IN GROUNDWATER

SITE STATUS UPDATE REPORT
FORMER PRATT OIL WORKS
LONG ISLAND CITY, QUEENS, NEW YORK

Prepared For:
EXXONMOBIL OIL CORPORATION
BROOKLYN, NEW YORK

ROUX

Compiled by: B.T.	Date: 06MAR18
Prepared by: G.M.	Scale: AS SHOWN
Project Mgr: T.S.	Project: 0172.0291Y004
File: 0172.0291Y229.01.DWG	

PLATE 5

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