

Chevron Environmental Management Company

Interim Remedial Measure Completion Report

Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York
(NYSDEC Site #130165)

November 2014



A handwritten signature in blue ink, appearing to read "William T McCune".

William T McCune
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Joseph Molina, P.E.
Project Engineer

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Chevron Environmental Management
Company

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Acronyms and Abbreviations	iv
1. Introduction	1
1.1 Site Description and History	1
1.1.1 Site Description	1
1.1.2 Site History	2
1.2 Interim Remedial Measure Remedial Action Objectives	2
2. Project Organization and Responsibilities	4
2.1 Chevron Environmental Management Company	4
2.2 ARCADIS	4
2.3 Remedial Construction Services, Inc.	4
2.4 Waste Management, Inc.	4
2.5 Heritage Environmental Services, LLC	4
2.6 TestAmerica Laboratories, Inc.	4
2.7 New York State Department of Environmental Conservation	5
3. Summary of Interim Remedial Measure Activities	6
3.1 Pre-Mobilization Activities	6
3.1.1 Permitting	6
3.1.1.1 Stormwater Pollution Prevention Plan	6
3.1.1.2 Soil Erosion and Sediment Control Plan	6
3.1.1.3 Local "Use" Permit	7
3.1.2 Wetland Jurisdictional Determination	7
3.1.3 Qualifications of Imported Backfill Materials	7
3.1.4 Monitoring Well Protection/Abandonment	8
3.2 Mobilization and Site Preparation Activities	8
3.2.1 Utilities Stakeout	8
3.2.2 Locating Excavation Limits	8
3.2.3 Stormwater Pollution Prevention Plan Implementation	9

3.3	Removal Activities	9
3.3.1	Interim Remedial Measure Activities	9
3.3.2	Interim Remedial Measure Addendum Activities	10
3.4	Materials Handling	10
3.5	IRM Waste Characterization and Disposal	10
3.5.1	Characterization, Profiling, Approval	11
3.6	Air Monitoring Plan	14
3.6.1	Airborne Particulate Monitoring	14
3.6.2	Airborne Volatile Organic Compound Monitoring	16
3.7	Backfilling and Restoration	16
4.	Conclusions and Recommendations	17
5.	Remedial Costs Incurred	18
6.	References	19

Tables

1	Backfill Qualification Analytical Summary
2	Waste Characterization Analytical Summary

Figures

1	Site Location Map
2	Site Map
3	IRM Excavation Limits
4	VRU Excavation Limits (Cross Section)

Appendices

A	Daily Reports (with Photos)
B	Backfill Qualification Analytical Report
C	SWPPP Inspections
D	Stockpile Inspections

E	Waste Characterization Analytical Reports
F	Contained In Determinations
G	Waste Disposal Documentation
H	Air Monitoring Data

Acronyms and Abbreviations

ARCADIS	ARCADIS U.S., Inc.
AST	aboveground storage tank
BCP	Brownfield Cleanup Program
bgs	below ground surface
CAMP	Community Air Monitoring Program
Catamount	Catamount Petroleum LP
CEMC	Chevron Environmental Management Company
CFI	Cumberland Farms, Inc.
CFR	Code of Federal Regulations
COC	constituents of concern
GC	Gas Chromatograph
Gulf	Gulf Oil Limited Partnership
HASP	Health and Safety Plan
Heritage	Heritage Environmental Services, LLC
IRM	interim remedial measure
IRM Completion Report	Interim Remedial Measure Completion Report
LDR	land disposal restriction
Lowe's	Lowe's Home Centers, Inc.
MS	Mass Spectrometer

NYSDEC	New York State Department of Environmental Conservation
NFA	No Further Action
PCB	polychlorinated biphenyl
PID	photoionization detector
RECON	Remedial Construction Services, Inc.
SCOs	Soil Cleanup Objectives
Site	former Gulf Oil Terminal located in Oceanside, Township of Hempstead, New York
SVOC	semivolatile organic compound
SWPPP	Stormwater Pollution Prevention Plan
TAGM	Technical and Administrative Guidance Memorandum
TAL	Target Analyte List
TCE	trichloroethene
TCLP	toxicity characteristic leaching procedure
TestAmerica	TestAmerica Laboratories, Inc.
TWA	time-weighted average
USEPA	United States Environmental Protection Agency
VRU	Vapor Recovery Unit
VOC	volatile organic compound
WM	Waste Management, Inc.

1. Introduction

On behalf of Chevron Environmental Management Company (CEMC), ARCADIS U.S., Inc. (ARCADIS) is submitting this Interim Remedial Measure Completion Report (IRM Completion Report) to the New York State Department of Environmental Conservation (NYSDEC) in accordance with the Order on Consent and Administrative Settlement for the former Gulf Oil Terminal located in Oceanside, Township of Hempstead, New York (Site; NYSDCE Site #130165).

This IRM Completion Report identifies methodologies and tactics that were used during the implementation of IRM and IRM Addendum activities, and is organized into the following five sections:

- Section 1 – Introduction
- Section 2 – Project Organization and Responsibilities
- Section 3 – Summary of Interim Remedial Measure Activities
- Section 4 – Conclusions and Recommendations
- Section 5 – Remedial Costs Incurred
- Section 6 – References

1.1 Site Description and History

1.1.1 Site Description

The 7.2-acre site is located at 1 Industrial Place in Oceanside, Township of Hempstead, Nassau County, New York. **Figure 1** presents a Site Location Map. The Site is currently unoccupied and former buildings have been demolished with the exception of a small shed and an adjacent former storm water retention basin located in the northeastern corner of the site.

The Site is bound to the south by Barnum's Channel, to the east by the Long Island Rail Road, to the north by the former Mobil Petroleum Terminal, and to the west by Hampton Road. An auto recycler, construction company yard and marine construction company office building are located west of Hampton Road. Daly Boulevard is located north of the former Mobil Petroleum Terminal and another petroleum terminal (Sprague) is located north of Daly Boulevard.

1.1.2 Site History

The Site consists of three lots. In 1931, Gulf Oil Corporation developed a portion of the Site (Lot 504) as a petroleum terminal. Gulf Oil Corporation purchased Lots 503 and 502 in 1950 and 1956, respectively. Chevron acquired Gulf Oil Corporation in the mid-1980s. In 1986, Cumberland Farms, Inc. (CFI) purchased Chevron's northeast marketing assets. The purchase included the Oceanside Terminal, which was transferred to CFI in May 1986.

Operation of the petroleum terminal was ceased in the early 1990s. Demolition of the aboveground storage tanks (ASTs) at the former petroleum terminal was completed in 2003. The remaining on-site buildings (maintenance building, office building, and several small buildings associated with historical petroleum terminal operations) were demolished in 2005. The Site is currently vacant and **Figure 2** presents former historical structures.

The Site has undergone extensive investigation and remediation since the 1990s under NYSDEC oversight (Spill No. 92-03883). In January 2007, NYSDEC accepted Lowe's Home Centers, Inc. (Lowe's) as a volunteer under the Brownfield Cleanup Program (BCP) – Site No. C130165. Following Lowe's decision to withdraw from the BCP in 2009, NYSDEC transferred the Site into the Hazardous Waste Program (State Superfund Site). An Order on Consent and Administrative Settlement was executed between the NYSDEC and CEMC on December 23, 2009 (Index #W3-1142-09-08, Site #130165).

1.2 Interim Remedial Measure Remedial Action Objectives

The IRM and IRM Addendum were proposed as initial components of the remediation strategy to be implemented at the Site for remediation of source areas. The goal of the IRM and IRM Addendum were to excavate and/or stabilize, to the extent practicable, the soil impacts identified within a limited pre-defined area encompassing the former Vapor Recovery Unit (VRU) and three additional small areas unrelated to the VRU area, which warranted remediation such that a No Further Action (NFA) determination may be issued with regard to soil at the site.

The IRM objectives for soil were as follows:

- prevent ingestion/direct contact with impacted soil
- prevent inhalation of or exposure to constituents of concern (COCs) volatilizing from impacted soil



Interim Remedial Measure Completion Report

Former Gulf Oil Terminal
Oceanside, Township of
Hempstead, New York
(NYSDEC Site #130165)

- prevent migration of COCs that would result in groundwater or surface-water impacts
- prevent impacts to biota from ingestion/direct contact with soil causing toxicity or impacts from bioaccumulation through the terrestrial food chain

Available data indicated that implementation of a soil excavation IRM at the Site was appropriate to address an anticipated source area of impacted soil that would likely be encountered during the commercial redevelopment of the Site. Excavation and removal of impacted soil served to protect human health and the environment through contaminant mass removal and elimination or control of potential exposure.



Interim Remedial Measure Completion Report

Former Gulf Oil Terminal
Oceanside, Township of
Hempstead, New York
(NYSDEC Site #130165)

2. Project Organization and Responsibilities

2.1 Chevron Environmental Management Company

In accordance with the Order on Consent and Administrative Settlement for the site (NYSDEC Site #130165), CEMC is responsible for the implementation of the IRM activities for the site.

2.2 ARCADIS

ARCADIS was retained by CEMC to provide remedial investigation, engineering, design, and IRM construction oversight associated with this project. In addition, during implementation of IRM Addendum activities, ARCADIS provided labor and equipment to implement removal and restoration activities.

2.3 Remedial Construction Services, Inc.

Remedial Construction Services, Inc. (RECON) provided labor and equipment to implement removal and restoration activities for the initial IRM activities.

2.4 Waste Management, Inc.

Waste Management, Inc. (WM) provided off-site transportation and disposal services for non-hazardous waste materials generated at the Site during IRM activities.

2.5 Heritage Environmental Services, LLC

Heritage Environmental Services, LLC (Heritage) provided off-site transportation, treatment and disposal services for hazardous waste materials generated at the Site during IRM activities.

2.6 TestAmerica Laboratories, Inc.

TestAmerica Laboratories, Inc. (TestAmerica) provided all laboratory analytical services for the project.



Interim Remedial Measure Completion Report

Former Gulf Oil Terminal
Oceanside, Township of
Hempstead, New York
(NYSDEC Site #130165)

2.7 New York State Department of Environmental Conservation

The NYSDEC served as the primary regulatory agency for this project and interacted and communicated with CEMC and ARCADIS to confirm compliance with the approved *Interim Remedial Measure Work Plan* (IRM Work Plan; ARCADIS 2012).

3. Summary of Interim Remedial Measure Activities

During IRM and IRM Addendum activities, ARCADIS documented Site activities by completing Daily Reports, which included photographic documentation of Site activities. **Appendix A** provides copies of the Daily Reports (with photographs) for IRM and IRM Addendum activities. A summary of IRM activities completed at the site is presented below.

3.1 Pre-Mobilization Activities

The pre-mobilization activities are presented below.

3.1.1 Permitting

ARCADIS acquired the following required permits and approvals during pre-design activities for implementation of the IRM in accordance with all applicable federal, state and local rules/regulations.

3.1.1.1 Stormwater Pollution Prevention Plan

ARCADIS prepared a Stormwater Pollution Plan (SWPPP) under a separate cover for review by the NYSDEC in accordance with the New York State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activities (Permit No. GP-0-10-001).

The SWPPP was required due to the disturbance of 1 or more acres of land during construction. The SWPPP was implemented in the field by RECON utilizing best management practices in a manner consistent with the New York State Standards and Specifications for Soil Erosion and Sediment Control (SESC).

3.1.1.2 Soil Erosion and Sediment Control Plan

SESC were installed at the Site to minimize the potential for erosion and migration of excavated soil and to control precipitation and storm water runoff. Controls included silt fence and hay bales around the excavation, grading, and soil staging areas as illustrated on **Figure 3**.

3.1.1.3 Local "Use" Permit

The Township of Hempstead required a "Use" Permit be issued prior to commencement of work. ARCADIS submitted a completed application requesting approval of the planned remediation activities to the Township of Hempstead prior to implementation of the IRM activities. The duration of the Use Permit was extended, as needed, to accommodate the completion of the IRM and IRM Addendum excavations.

3.1.2 Wetland Jurisdictional Determination

Based on knowledge of the site and a search of NYSDEC records and/or other sources, ARCADIS has identified no jurisdictional wetlands present within the Limits of Work. ARCADIS submitted a letter requesting confirmation of these findings to USACE prior to implementation of the IRM activities. Although USACE subsequently issued a letter based on their preliminary jurisdictional determination confirming that a Department of the Army permit would not be required provided the work was executed in accordance with the referenced materials.

3.1.3 Qualifications of Imported Backfill Materials

Stoney Creek Industries, Inc., located in Oceanside, New York, was identified as the source for imported general fill materials. On November 12, 2013, samples of imported backfill were collected and submitted to TestAmerica for chemical analyses. Chemical analyses included volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), metals, polychlorinated biphenyls (PCBs), herbicides, and pesticides and were compared to the NYSDEC 6 New York Code, Rules, and Regulations Part 375 Unrestricted Use Soil Cleanup Objectives (SCOs) and Restricted Use-Commercial SCOs to confirm that the material was suitable to be placed within excavated areas. The laboratory analytical results of the backfill sampling indicated that the material was acceptable for use at the Site. **Appendix B** presents the analytical results, which are summarized in **Table 1**. The sampled material was imported to the Site and was utilized for IRM and IRM Addendum activities.

Benimax, Inc., located in Miller Place, New York was identified as the source for imported stone products. However, the only stone products used at the Site were washed products that did not contain any fine materials, so sampling was not required.

3.1.4 Monitoring Well Protection/Abandonment

Monitoring wells located in the VRU excavation area, including well cluster MW-25, and wells MW-24 VD, AMW-1, AMW-2, AMW-8, AMW-9, AMW-10, and IW-1, as well as monitoring well AMW-5, located within one of the IRM Addendum excavation areas, were all abandoned in accordance with the Groundwater Monitoring Well Decommissioning Procedures (NYSDEC 2009a) in preparation for the respective excavations.

3.2 Mobilization and Site Preparation Activities

Mobilization and site preparation activities are presented below.

3.2.1 Utilities Stakeout

Prior to initiation of ground-disturbance activities for IRM and IRM Addendum activities, Dig Safely New York was contacted to identify subsurface utilities near the limits of disturbance for each phase of the IRM. In addition, a geophysical survey was conducted prior to each phase of remedial activity to assist in locating utilities within the limits of disturbance. During the utility location for the IRM Addendum activities, an anomaly (i.e., possible utility) was identified in the GS-2/GP-NORTH excavation. ARCADIS hand cleared the area of the anomaly to verify that no utilities were present.

3.2.2 Locating Excavation Limits

Prior to initiation of each phase of excavation activities, American Engineering and Land Surveying mobilized to the Site and located the horizontal limits of each respective excavation, as identified in the IRM Work Plan and IRM Addendum Work Plan (ARCADIS 2012 and 2014, respectively).

During the IRM activities, the remedial contractor determined the vertical limits of excavation by establishing depth markings on the arm of the excavator, and documented the removal depth at each area of the excavation. During IRM Addendum activities, a tape measure was dropped over the side of the excavation to directly measure/document the depth of excavation.

3.2.3 Stormwater Pollution Prevention Plan Implementation

The stormwater pollution prevention plan (SWPPP) was implemented in accordance with the project SWPPP (ARCADIS 2013). The SWPPP consisted of silt fencing installed by RECON, under the direction of ARCADIS, around the areas of ground disturbance. The silt fence was installed on September 23 and 24, 2013, and removed from the immediate area of the IRM excavation area on February 20 and 21, 2014. Silt fence at the site perimeter remained in place in anticipation of IRM Addendum activities. Inspections were completed on a weekly basis by RECON and the inspection forms are provided in **Appendix C**. Due to the limited nature of IRM Addendum activities (i.e., less than 1 acre of disturbance), implementation of the SWPPP was not required.

3.3 Removal Activities

3.3.1 Interim Remedial Measure Activities

The former Vapor Recovery Unit (VRU) area measured approximately 60 feet by 65 feet, and was excavated to the final depth that varied from 9 to 14 feet below ground surface (bgs). The excavation was performed using a cement-bentonite slurry to minimize the need for dewatering and provide downward pressure to prevent water infiltration and failure of the minimal remaining clay zone above the lower sand. The cement-bentonite slurry was produced using a batch plant to mix dry materials with public water. Cement-bentonite slurry from the batch plant was transferred to a surge tank for additional mixing, which was then pumped into the excavation while excavation was occurring. The cement-bentonite slurry prevented the trench sides from collapsing by providing outward and downward pressure(s), which balanced the inward and upward hydraulic force(s) and reduced ground water flow into the trench.

Impacted material was excavated using traditional construction equipment to the limits shown on **Figures 3 and 4**. Excavated material was removed from the excavation, laid on drainage pads adjacent to the excavation and then loaded into trucks, and transported to the staging area for waste characterization sampling and analysis prior to subsequent off-site disposal. After sampling of the excavated soils was complete, they were covered with polyethylene sheeting to prevent storm water from contacting stockpiled waste materials. All stockpiles were kept covered with plastic and secured to minimize potential air emissions and to prevent erosion during rain events until loading and transportation to the designated waste facility.

3.3.2 Interim Remedial Measure Addendum Activities

The three IRM Addendum excavation areas were excavated to their respective final design depths using traditional soil excavation methods (i.e., cement-bentonite slurry was not utilized). The AMW-5 excavation measured 10 feet by 10 feet and was excavated to 9 feet bgs. The GS-2/GP-NORTH excavation measured 10 feet by 15 feet and was excavated to 4 feet bgs. The SP-6 excavation measured 5 feet by 5 feet and was excavated to 3 feet bgs. Impacted material was excavated using traditional construction equipment to the limits shown on **Figure 5**. Material was removed from the excavation, staged adjacent to the excavation, and then loaded into trucks for off-site disposal.

3.4 Materials Handling

All material excavated during IRM activities was staged on site allowing for drainage, the addition and mixing of solidification amendment, and waste classification (as discussed below). Upon approval from the waste disposal facility, the staged material was placed into transport vehicles and transported to the appropriately licensed off-site disposal facility. Solidification amendment consisted of mixing Portland cement with the excavated material to verify the material would pass the paint filter test prior to load out.

For IRM Addendum activities, the waste materials were characterized prior to excavation. However, material from the AMW-5 and GS-2/GP-NORTH excavations were pre-excavated and staged prior to load out operations to be more efficient with the load out operations.

3.5 IRM Waste Characterization and Disposal

The soil excavated as part of the IRM and any associated liquid waste was classified as U228 listed hazardous waste under 40 Code of Federal Regulation (CFR) 261.31 due to trichloroethene (TCE) detected in the soil. Technical and Administrative Guidance Memorandum (TAGM) 3028 contained-in rule was used for soils that are hazardous by rule, but do not have hazardous levels of TCE or related constituents. As part of the sustainability program, the soils were evaluated to determine if the waste could be disposed as non-hazardous waste using the contained-in rule under TAGM 3028. By using the contained-in rule, part of the excavated soil was disposed as non-hazardous, which reduced the carbon footprint of the program by reducing the travel distances to the treatment facility and disposing the soil in a landfill instead of incineration.

As part of the Site-Specific Waste Management Procedures, inspections of the stockpiles and hazardous waste storage area (when in use) were completed on a weekly basis. **Appendix D** provides copies of the inspection forms.

The IRM Addendum excavation did not did not necessitate the level of soil characterization as prior site sampling data exhibited non-hazardous constituents and very low concentrations.

3.5.1 Characterization, Profiling, Approval

For IRM activities, the excavated soil was stockpiled into piles of approximately 70 to 180 cubic yards. Once a soil pile had been completed, ARCADIS collected 3 discrete and 1 composite waste profile samples from each of the piles. As each pile was separately samples and profiled, it was then characterized/defined and transported off to the waste specific facility.

For IRM Addendum activities, in-situ waste characterization samples were collected from each excavation area prior to mobilization to the Site. All IRM addendum soils were shipped off to the same non-hazardous waste facility.

All waste characterization samples were submitted for analysis to TestAmerica for the following as requested by WM:

- 8260C Target Compound List VOCs by Gas Chromatograph/Mass Spectrometer (GC/MS) SW846 (grab)
- 8260C toxicity characteristic leaching procedure (TCLP) VOCs by GC/MS SW846 (grab)
- 8270D TCLP SVOCs (GC/MS) SW846
- Moisture Percent Moisture United States Environmental Protection Agency (USEPA) Target Analyte List (TAL)
- 8081B TCLP Organochlorine Pesticides (GC) SW846 TAL
- 8082A PCBs by GC SW846 TAL
- 8151 TCLP Herbicides SW846 TAL



Interim Remedial Measure Completion Report

Former Gulf Oil Terminal
Oceanside, Township of
Hempstead, New York
(NYSDEC Site #130165)

- 6010C TCLP Metals (Inductively Coupled Plasma [ICP]) SW846 TAL
- 7470A TCLP Mercury (Cold Vapor Atomic Absorption [CVAA]) SW846 TAL
- 1010A Ignitability, Pensky-Martens Closed Cup
- 9071B HEM and SGT-HEM SW846 TAL (as received)
- 1664A HEM and SGT-HEM 1664A
- 350.1 Nitrogen, Ammonia MCAWW TAL 410.4 COD MCAWW TAL
- 9012 Cyanide, Reactive SW846 TAL
- 9034 Sulfide, Reactive SW846 TAL
- 9045D pH SW846 TAL (as received)
- 9095B Paint Filter SW846 TAL
- Moisture Percent Moisture USEPA TAL
- SM 2540B Solids, Total SM TAL
- SM 2540G Total, Fixed, and Volatile Solids SM TAL

The frequency and sampling methods were in accordance with NYSDEC DER-10/Technical Guidance for Site Investigation and Remediation Table 5.4(e)10 - Recommended Number of Soil Samples for Soil Imported To or Exported from a Site (below).

Table 5.4(e)10			
Recommended Number of Soil Samples for Soil Imported To or Exported From a Site			
Contaminant	VOCs	SVOCs, Inorganics & PCBs/Pesticides	
Soil Quantity (cubic yards)	Discrete Samples	Composite	Discrete Samples/Composite
0-50	1	1	3-5 discrete samples from different locations in the fill being provided will comprise a composite sample for analysis
50-100	2	1	
100-200	3	1	
200-300	4	1	
300-400	4	2	
400-500	5	2	
500-800	6	2	
800-1000	7	2	
➤ 1000	Add an additional 2 VOC and 1 composite for each additional 1000 Cubic yards or consult with DER		

The results of the waste characterization are presented in Appendix E and summarized in **Table 2**, and were compared to the following criteria:

- Toxicity Characteristic Levels (TCL) from CFR Title 40 Section 261.24, dated July 2, 2011
- Contained-in level and groundwater action levels from TAGM 3028 – "Contained-In" Criteria for Environmental Media (dated November 30, 1992) [For TCE only]
- Land disposal restrictions for wastewater and non-waste water from NYSDEC Part 376(j) Table UTS-Universal Treatment Standards and 40 CFR 268.49. [For TCE only]

All waste characterization results were compared to the Toxicity Characteristic Levels, and if the results are above the Toxicity Characteristic Levels criteria, the waste was profiled as hazardous.

During the IRM activities, if the waste was not characteristically hazardous, the waste was evaluated using the contained-in criteria and land disposal restriction (LDR) criteria. The contained-in criteria and LDR criteria were only applied to TCE.

Appendix F presents all contained-in determinations. During IRM Addendum activities, three additional soil excavation areas were unrelated to the VRU area in which TCE-impacted soil was delineated. As the soil excavated from these additional areas were not considered listed hazardous waste, contained-in determinations were not necessary.

Using the criteria discussed above, during IRM activities, 1,161.91 tons of soil were disposed as hazardous waste at Heritage's East Liverpool, Ohio facility, and 2,301.90 tons of non-hazardous waste disposed under the contained-in criteria. The non-hazardous waste was disposed at one of three facilities: 2,072.14 tons at WM's GROWS North Landfill in Morrisville, Pennsylvania; 131.45 tons at WM's Tullytown Resource Recovery Facility in Tullytown, Pennsylvania; and 98.31 tons at WM's Chaffee Landfill in Chaffee, New York. The waste disposed as non-hazardous was contained out by approval of the NYSDEC and where applicable, the Pennsylvania Department of Environmental Protection. During IRM Addendum activities, an additional 109.81 tons of soil were disposed as non-hazardous waste (89.88 tons were disposed at GROWS North, and 19.93 tons were disposed at Tullytown). The disposal documentation (e.g., completed manifests, certificates of disposal) for IRM and IRM Addendum activities is presented in **Appendix G**.

3.6 Air Monitoring Plan

Air monitoring was performed at the Site to evaluate the potential for worker exposure and contaminant migration from the work zone. Air monitoring activities were performed in accordance with the procedures specified in the approved IRM Work Plan (ARCADIS 2012), the *Community Air Monitoring Plan* (CAMP), and the *Health and Safety Plan* (HASP).

3.6.1 Airborne Particulate Monitoring

Continuous particulate dust monitoring was performed utilizing TSI 8530 DustTrak II monitors at three discrete on-site monitoring stations: one upwind of the work area and two downwind of the work activities. Particulate meters were positioned such that the sample inlet was located at a height approximating the breathing zone and provided a continuous readable particulate dust concentration. A 15-minute time-weighted average (TWA) was recorded for each meter. All monitors were equipped with networking capability, such that field personnel would be notified, by text message and e-mail, of potential exceedances.

The locations of the three particulate meters were established each day, prior to commencing Site activities, depending on the predominant wind direction at the start of the day's activities. During the day, the monitors were relocated, as necessary, to maintain their respective positions upwind or downwind.

Appendix H presents the air monitoring data for airborne particulate. Several exceedances of the action levels were observed during the course of the project, as summarized below:

- September 30 through October 7, 2013: Landscaping crews adjacent to the Site sorted dirt prior to shipping, generating dust that interfered with on-site dust monitoring. After stopping work and implementing dust suppression, the off-site source was confirmed as the problem and work resumed.
- October 10, 2013: A short-term exceedance was caused by the discharge of a truck's brakes on site; work resumed after readings returned to normal.
- October 21, 2013: Brief exceedance appeared to occur on startup prior to work commencing; normal levels observed after recalibration.
- October 30, 2013: Exceedance observed on return from lunch; work was stopped and dust suppression implemented. Work resumed after levels returned to normal.
- November 15, 2013: Brief exceedance after a bag of Portland cement was opened to mix in with the waste. The operator was cautioned to use more care while mixing, and work resumed.
- August 25, 2014: brief exceedance along the northern property boundary. No Site activities were being conducted; therefore, this exceedance was the result of an off-site source migrating onto the Site.
- August 26, 2014: Exceedances were observed sporadically throughout the day. Each exceedance was brief and was directly attributed to vehicle traffic travelling too fast and/or too close to the monitoring stations. In each instance, the driver was reminded to observe the Site speed limit and remain on the established roadways, and work resumed.
- August 27, 2014: Exceedances were observed sporadically throughout the day. Each exceedance was brief and was directly attributed to vehicle traffic travelling too fast and/or in close proximity to the monitoring station. In each instance, the driver was reminded to observe the Site speed limit and remain on the established roadways, and work resumed upon confirming the exceedance conditions observed had been resolved.

3.6.2 Airborne Volatile Organic Compound Monitoring

Continuous VOC monitoring was conducted during intrusive activities by mounting RAE Systems Minirae 3000 photoionization detectors (PIDs) at three discrete on-site monitoring stations: one upwind of the work area and two downwind of the work activities perimeter. The PIDs were positioned such that the sample inlet was located at a height approximating the breathing zone and provided a continuous readable total VOC concentration. A 15-minute TWA was also recorded for each PID. All monitors were equipped with networking capability, such that field personnel would be notified, by text message and e-mail, of potential exceedances.

The locations of the three PIDs were established each day, prior to commencing Site activities, depending on the predominant wind direction at the start of the day's activities. During the day, the monitors were relocated, as necessary, to maintain their respective positions upwind or downwind.

Appendix H presents air monitoring data for VOCs. No exceedances of the action levels presented in the HASP or CAMP were observed.

3.7 Backfilling and Restoration

For IRM activities, the cement-bentonite slurry was left in place upon completion of the excavation to stabilize. The remainder of the open excavation was backfilled utilizing approximately 6 inches of 1- to 2-inch clean stone to match existing grade.

For IRM Addendum activities, each excavation was backfilled with clean fill materials. At the AMW-5 and GS-2/GP-NORTH excavations, clean stone was placed in the bottom of the excavation to bridge the saturated zone. The top of each excavation, as well as the entire GP-6 excavation, was backfilled with compacted general fill materials to match the existing grades.

4. Conclusions and Recommendations

IRM and IRM Addendum activities were completed as an initial component of the remedial strategy to be implemented at the Site for remediation of source areas. By completing IRM and IRM Addendum excavation activities as planned, soil impacts identified within the pre-defined areas successfully achieved the objectives of the IRM and IRM Addendum. Specifically, the excavation activities served to:

- prevent ingestion/direct contact with impacted soil
- prevent inhalation of or exposure to the COCs volatilizing from impacted soil
- prevent migration of COCs that would result in groundwater or surface-water impacts
- prevent impacts to biota from ingestion/direct contact with soil causing toxicity or impacts from bioaccumulation through the terrestrial food chain

As discussed in the IRM Work Plan (ARCADIS 2012), available data indicates that the implementation of IRM at the Site was appropriate to address anticipated source areas of impacted soil that will likely be encountered during the commercial redevelopment of the Site. Excavation and removal of impacted soil has successfully facilitated protection of human health and the environment through recovery of contaminant mass and elimination or control of potential exposure.

In addition, IRM Addendum activities successfully addressed remaining soil (outside of the VRU area) impacted in excess of the relevant SCOs.

Based on the successful completion of the IRM and IRM Addendum activities and submission of this IRM Completion Report, it is recommended that (soil) NFAs under the Consent Order be developed (with regard to soil) for the Site.



Interim Remedial Measure Completion Report

Former Gulf Oil Terminal
Oceanside, Township of
Hempstead, New York
(NYSDEC Site #130165)

5. Remedial Costs Incurred

During implementation of IRM and IRM Addendum activities, CEMC incurred costs totaling approximately \$2,500,000.



Interim Remedial Measure Completion Report

Former Gulf Oil Terminal
Oceanside, Township of
Hempstead, New York
(NYSDEC Site #130165)

6. References

ARCADIS U.S., Inc. 2012. Interim Remedial Measure Work Plan. Former Gulf Oil Terminal Oceanside, Township of Hempstead, New York. NYSDEC Site #1301365.

ARCADIS U.S., Inc. 2014. Interim Remedial Measure Addendum Work Plan. Former Gulf Oil Terminal Oceanside, Township of Hempstead, New York. NYSDEC Site #1301365.

ARCADIS U.S., Inc. 2013. Stormwater Pollution Prevention Plan. Former Gulf Oil Terminal Oceanside, Township of Hempstead, New York. NYSDEC Site #1301365. August 2013.

New York State Department of Environmental Conservation. 2009a. Groundwater Monitoring Well Decommissioning Procedures. December 23, 2009.

New York State Department of Environmental Conservation. 2009b. Order on Consent/Administrative Settlement. December 23, 2009.

New York State Department of Environmental Conservation. 2010. Division of Environmental Remediation-10 – Technical Guidance for Site Investigation and Remediation.



Tables

Table 1
Backfill Qualification Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Date Collected:	Unrestricted Use SCOs	Restricted Use SCOs Commercial	Units	FILL-COMP-1 11/12/13	FILL-COMP-2 11/12/13	FILL-VOC-1 11/12/13	FILL-VOC-2 11/12/13	FILL-VOC-3 11/12/13	FILL-VOC-4 11/12/13	FILL-VOC-5 11/12/13	FILL-VOC-6 11/12/13
PCBs											
Aroclor-1016	--	--	mg/kg	<0.23	<0.25	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	mg/kg	<0.23	<0.25	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	mg/kg	<0.23	<0.25	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	mg/kg	<0.23	<0.25	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	mg/kg	<0.23	<0.25	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	mg/kg	<0.23	<0.25	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	mg/kg	<0.23	<0.25	NA	NA	NA	NA	NA	NA
Volatile Organics											
1,1,1-Trichloroethane	0.68	500	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
1,1-Dichloroethane	0.27	240	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
1,1-Dichloroethene	0.33	500	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
1,2,4-Trimethylbenzene	3.6	190	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
1,2-Dichlorobenzene	1.1	500	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
1,2-Dichloroethane	0.02	30	mg/kg	NA	NA	0.0014 JB	<0.0046	<0.0068	0.0035 JB	0.0012 JB	<0.053
1,3,5-Trimethylbenzene	8.4	190	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
1,3-Dichlorobenzene	2.4	280	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
1,4-Dichlorobenzene	1.8	130	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
1,4-Dioxane	0.1	130	mg/kg	NA	NA	<0.19	<0.19	<0.27	<0.49	<0.19	<2.1
2-Butanone	0.12	500	mg/kg	NA	NA	<0.024 *	<0.023 *	<0.034 *	<0.061 *	<0.023 *	<0.26
Acetone	0.05	500	mg/kg	NA	NA	<0.024	<0.023	<0.034	<0.061	<0.023	<0.26
Benzene	0.06	44	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
Carbon Tetrachloride	0.76	22	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
Chlorobenzene	1.1	500	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
Chloroform	0.37	350	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
cis-1,2-Dichloroethene	0.25	500	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
Ethylbenzene	1	390	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
Isopropylbenzene	--	--	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
Methyl tert-butyl ether	0.93	500	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
Methylene Chloride	0.05	500	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	0.12 B
n-Butylbenzene	12	500	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
n-Propylbenzene	3.9	500	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
sec-Butylbenzene	11	500	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
tert-Butylbenzene	5.9	500	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
Tetrachloroethene	1.3	150	mg/kg	NA	NA	0.00098 J	<0.0046	<0.0068	<0.012	<0.0047	<0.053
Toluene	0.7	500	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
trans-1,2-Dichloroethene	0.19	500	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
Trichloroethene	0.47	200	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
Vinyl Chloride	0.02	13	mg/kg	NA	NA	<0.0048	<0.0046	<0.0068	<0.012	<0.0047	<0.053
Xylenes (total)	0.26	500	mg/kg	NA	NA	<0.0096	<0.0093	<0.014	<0.024	<0.0094	<0.11

See Notes on Page 3.

Table 1
Backfill Qualification Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Date Collected:	Unrestricted Use SCOs	Restricted Use SCOs Commercial	Units	FILL-COMP-1 11/12/13	FILL-COMP-2 11/12/13	FILL-VOC-1 11/12/13	FILL-VOC-2 11/12/13	FILL-VOC-3 11/12/13	FILL-VOC-4 11/12/13	FILL-VOC-5 11/12/13	FILL-VOC-6 11/12/13
Semivolatile Organics											
2-Methylphenol	0.33	500	mg/kg	<0.90	<0.18	NA	NA	NA	NA	NA	NA
3-Methylphenol	0.33	500	mg/kg	<1.7	<0.36	NA	NA	NA	NA	NA	NA
4-Methylphenol	0.33	500	mg/kg	<1.7	<0.36	NA	NA	NA	NA	NA	NA
Acenaphthene	20	500	mg/kg	<0.90	<0.18	NA	NA	NA	NA	NA	NA
Acenaphthylene	100	500	mg/kg	<0.90	<0.18	NA	NA	NA	NA	NA	NA
Anthracene	100	500	mg/kg	0.054 J	0.035 J	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1	5.6	mg/kg	<0.90	0.15 J	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	1	mg/kg	0.15 J	0.15 J	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1	5.6	mg/kg	0.20 J	0.19	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	100	500	mg/kg	0.10 J	0.071 J	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	0.8	56	mg/kg	0.10 J	0.085 J	NA	NA	NA	NA	NA	NA
Chrysene	1	56	mg/kg	0.19 J	0.16 J	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.33	0.56	mg/kg	<0.90	0.018 J	NA	NA	NA	NA	NA	NA
Dibenzofuran	7	350	mg/kg	<0.90	<0.18	NA	NA	NA	NA	NA	NA
Fluoranthene	100	500	mg/kg	0.36 J	0.29	NA	NA	NA	NA	NA	NA
Fluorene	30	500	mg/kg	<0.90	<0.18	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	mg/kg	<0.90	<0.18	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.5	5.6	mg/kg	0.088 J	0.064 J	NA	NA	NA	NA	NA	NA
Naphthalene	12	500	mg/kg	<0.90	<0.18	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	mg/kg	<1.7	<0.36	NA	NA	NA	NA	NA	NA
Phenanthrene	100	500	mg/kg	0.26 J	0.13 J	NA	NA	NA	NA	NA	NA
Phenol	0.33	500	mg/kg	<0.90	<0.18	NA	NA	NA	NA	NA	NA
Pyrene	100	500	mg/kg	0.31 J	0.23	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides											
4,4'-DDD	0.0033	92	mg/kg	0.0050 J	<0.018	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.0033	62	mg/kg	0.0052 J	<0.018	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.0033	47	mg/kg	0.0089 J	0.0089 J	NA	NA	NA	NA	NA	NA
Aldrin	0.005	0.68	mg/kg	<0.018	<0.018	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	mg/kg	<0.018	<0.018	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	mg/kg	<0.018	<0.018	NA	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	mg/kg	<0.018	<0.018	NA	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	mg/kg	<0.018	<0.018	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	mg/kg	<0.018	<0.018	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	mg/kg	<0.018	<0.018	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	mg/kg	<0.018	<0.018	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	2.4	200	mg/kg	<0.018	<0.018	NA	NA	NA	NA	NA	NA
Endrin	0.014	89	mg/kg	<0.018	0.0039 J	NA	NA	NA	NA	NA	NA
Gamma-BHC (Lindane)	0.1	9.2	mg/kg	<0.018	<0.018	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	15	mg/kg	<0.018	<0.018	NA	NA	NA	NA	NA	NA

See Notes on Page 3.

Table 1
Backfill Qualification Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Date Collected:	Unrestricted Use SCOs	Restricted Use SCOs Commercial	Units	FILL-COMP-1 11/12/13	FILL-COMP-2 11/12/13	FILL-VOC-1 11/12/13	FILL-VOC-2 11/12/13	FILL-VOC-3 11/12/13	FILL-VOC-4 11/12/13	FILL-VOC-5 11/12/13	FILL-VOC-6 11/12/13
Herbicides											
2,4,5-TP	3.8	500	mg/kg	<0.018 *	<0.018 *	NA	NA	NA	NA	NA	NA
Inorganics											
Arsenic	13	16	mg/kg	3.70	2.90	NA	NA	NA	NA	NA	NA
Barium	350	400	mg/kg	169	157	NA	NA	NA	NA	NA	NA
Beryllium	7.2	590	mg/kg	0.940	0.870	NA	NA	NA	NA	NA	NA
Cadmium	2.5	9.3	mg/kg	0.0690 J	<0.200	NA	NA	NA	NA	NA	NA
Copper	50	270	mg/kg	41.4	44.1	NA	NA	NA	NA	NA	NA
Lead	63	1,000	mg/kg	22.6	23.3	NA	NA	NA	NA	NA	NA
Manganese	1,600	10,000	mg/kg	335 B	340 B	NA	NA	NA	NA	NA	NA
Mercury	0.18	2.8	mg/kg	0.0450	0.0550 H	NA	NA	NA	NA	NA	NA
Nickel	30	310	mg/kg	30.6	30.2	NA	NA	NA	NA	NA	NA
Selenium	3.9	1,500	mg/kg	<4.60	<4.10	NA	NA	NA	NA	NA	NA
Silver	2	1,500	mg/kg	<0.580	<0.510	NA	NA	NA	NA	NA	NA
Zinc	109	10,000	mg/kg	85.8 B	83.7 B	NA	NA	NA	NA	NA	NA
Miscellaneous											
Chromium, hexavalent	1	400	mg/kg	<0.86	<0.88	NA	NA	NA	NA	NA	NA
Chromium, trivalent	30	1,500	mg/kg	36.1	36.9	NA	NA	NA	NA	NA	NA
Cyanide	27	27	mg/kg	<0.97	<1.1	NA	NA	NA	NA	NA	NA
Percent Solids Dry Weight											
Percent Moisture	--	--	%	7.4	8.9	NA	NA	NA	NA	NA	NA
Percent Solids	--	--	%	93	91	92	92	73	93	92	93

Notes:

Bold results indicate results above Unrestricted Use SCOs.

-- = Information not included in table. Refer to applicable reference.

< = less than.

% = percent.

* = Laboratory control sample or laboratory control sample duplicate exceeds the control limit.

B = Analyte was also detected in the associated method blank.

BHC = benzene hexachloride.

H = Sample was prepped or analyzed beyond the specified holding time.

J = Indicates an estimated value.

mg/kg = milligrams per kilogram.

NA = not analyzed.

SCO = Soil Cleanup Objective.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	Toxicity Characteristic Level	Contained-In Level - Soil/ Sediment Action Level	Land Disposal - Nonwastewater Standard	Alternative Land Disposal - Nonwastewater Standard	SP-1-COMP 10/23/13	SP-1-VOC-1 10/23/13	SP-1-VOC-1 11/04/13	SP-1-VOC-2 10/23/13	SP-1-VOC-2 11/04/13	SP-2-COMP 10/30/13
Volatile Organics											
1,1,1-Trichloroethane	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
1,1,2-Trichloroethane	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
1,1-Dichloroethane	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
1,1-Dichloroethene	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	--	--	--	--	NA	<0.76	NA	<0.42	NA	NA
1,2-Dibromoethane	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
1,2-Dichlorobenzene	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
1,2-Dichloroethane	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
1,2-Dichloropropane	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
1,3-Dichlorobenzene	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
1,4-Dichlorobenzene	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
2-Butanone	mg/kg	--	--	--	--	NA	<1.5	NA	<0.85	NA	NA
2-Hexanone	mg/kg	--	--	--	--	NA	<1.5	NA	<0.85	NA	NA
4-Methyl-2-pentanone	mg/kg	--	--	--	--	NA	<1.5	NA	<0.85	NA	NA
Acetone	mg/kg	--	--	--	--	NA	<1.5	NA	<0.85	NA	NA
Benzene	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
Bromodichloromethane	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
Bromoform	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
Bromomethane	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
Carbon Disulfide	mg/kg	--	--	--	--	NA	0.12 J	NA	0.11 J	NA	NA
Carbon Tetrachloride	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
Chlorobenzene	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
Chloroethane	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
Chloroform	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
Chloromethane	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
cis-1,2-Dichloroethene	mg/kg	--	780	--	--	NA	1.3	NA	1.3	NA	NA
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
Cyclohexane	mg/kg	--	--	--	--	NA	<0.76	NA	<0.42	NA	NA
Dibromochloromethane	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
Dichlorodifluoromethane	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
Ethylbenzene	mg/kg	--	--	--	--	NA	0.055 J	NA	<0.21	NA	NA
Isopropylbenzene	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
Methyl acetate	mg/kg	--	--	--	--	NA	0.32 J	NA	0.046 J	NA	NA
Methyl tert-butyl ether	mg/kg	--	--	--	--	NA	0.36 J	NA	0.077 J	NA	NA
Methylcyclohexane	mg/kg	--	--	--	--	NA	0.056 J	NA	<0.42	NA	NA
Methylene Chloride	mg/kg	--	85	30	300	NA	0.22 J	NA	6.1	NA	NA
Styrene	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
Tetrachloroethene	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
Toluene	mg/kg	--	--	--	--	NA	0.059 J	NA	<0.21	NA	NA
Total VOCs	mg/kg	--	--	--	--	NA	3.8 J	NA	13 J	NA	NA

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	Toxicity Characteristic Level	Contained-In Level - Soil/ Sediment Action Level	Land Disposal - Nonwastewater Standard	Alternative Land Disposal - Nonwastewater Standard	SP-1-COMP 10/23/13	SP-1-VOC-1 10/23/13	SP-1-VOC-1 11/04/13	SP-1-VOC-2 10/23/13	SP-1-VOC-2 11/04/13	SP-2-COMP 10/30/13
Volatile Organics (Cont.)											
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
Trichloroethene	mg/kg	--	58	6	60	NA	0.78	NA	5.7	NA	NA
Trichlorofluoromethane	mg/kg	--	--	--	--	NA	<0.38	NA	<0.21	NA	NA
Vinyl Chloride	mg/kg	--	0.34	6	60	NA	0.34 J	NA	<0.21	NA	NA
Xylenes (total)	mg/kg	--	--	--	--	NA	0.17 J	NA	<0.42	NA	NA
Volatile Organics-TCLP											
1,1-Dichloroethene	mg/L	0.7	--	--	--	NA	NA	<0.010	NA	<0.010	NA
1,2-Dichloroethane	mg/L	0.5	--	--	--	NA	NA	<0.010	NA	<0.010	NA
2-Butanone	mg/L	200	--	--	--	NA	NA	<0.050	NA	<0.050	NA
Benzene	mg/L	0.5	--	--	--	NA	NA	<0.010	NA	<0.010	NA
Carbon Tetrachloride	mg/L	0.5	--	--	--	NA	NA	<0.010	NA	<0.010	NA
Chlorobenzene	mg/L	100	--	--	--	NA	NA	<0.010	NA	<0.010	NA
Chloroform	mg/L	6	--	--	--	NA	NA	<0.010	NA	<0.010	NA
Tetrachloroethene	mg/L	0.7	--	--	--	NA	NA	<0.010	NA	<0.010	NA
Trichloroethene	mg/L	0.5	--	--	--	NA	NA	0.084	NA	0.19	NA
Vinyl Chloride	mg/L	0.2	--	--	--	NA	NA	<0.010	NA	<0.010	NA
Semivolatile Organics-TCLP											
1,4-Dichlorobenzene	mg/L	7.5	--	--	--	<0.010	NA	NA	NA	NA	<0.010
2,4,5-Trichlorophenol	mg/L	400	--	--	--	<0.0050	NA	NA	NA	NA	<0.0050
2,4,6-Trichlorophenol	mg/L	2	--	--	--	<0.0050	NA	NA	NA	NA	<0.0050
2,4-Dinitrotoluene	mg/L	0.13	--	--	--	<0.0050	NA	NA	NA	NA	<0.0050
2-Methylphenol	mg/L	200	--	--	--	<0.0050	NA	NA	NA	NA	<0.0050
3&4-Methylphenol	mg/L	200	--	--	--	0.0022 J	NA	NA	NA	NA	<0.010
Hexachlorobenzene	mg/L	0.13	--	--	--	<0.0050	NA	NA	NA	NA	<0.0050
Hexachlorobutadiene	mg/L	0.5	--	--	--	<0.0050	NA	NA	NA	NA	<0.0050
Hexachloroethane	mg/L	3	--	--	--	<0.0050	NA	NA	NA	NA	<0.0050
Nitrobenzene	mg/L	2	--	--	--	<0.0050	NA	NA	NA	NA	<0.0050
Pentachlorophenol	mg/L	100	--	--	--	<0.010	NA	NA	NA	NA	<0.010
Pyridine	mg/L	5	--	--	--	<0.025	NA	NA	NA	NA	<0.025
Organochlorine Pesticides-TCLP											
Endrin	mg/L	0.02	--	--	--	<0.00020	NA	NA	NA	NA	<0.00020
Gamma-BHC (Lindane)	mg/L	0.4	--	--	--	0.000041 JB	NA	NA	NA	NA	0.000069 JB
Heptachlor	mg/L	0.008	--	--	--	<0.00020	NA	NA	NA	NA	0.000058 JB
Heptachlor Epoxide	mg/L	0.008	--	--	--	<0.00020	NA	NA	NA	NA	<0.00020
Methoxychlor	mg/L	10	--	--	--	<0.00020	NA	NA	NA	NA	<0.00020
Technical Chlordane	mg/L	0.03	--	--	--	<0.0020	NA	NA	NA	NA	<0.0020
Toxaphene	mg/L	0.5	--	--	--	<0.0020	NA	NA	NA	NA	<0.0020
Herbicides-TCLP											
2,4,5-TP	mg/L	1	--	--	--	<0.0020	NA	NA	NA	NA	<0.0020
2,4-D	mg/L	10	--	--	--	<0.0020	NA	NA	NA	NA	<0.0020

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	Toxicity Characteristic Level	Contained-In Level - Soil/ Sediment Action Level	Land Disposal - Nonwastewater Standard	Alternative Land Disposal - Nonwastewater Standard	SP-1-COMP 10/23/13	SP-1-VOC-1 10/23/13	SP-1-VOC-1 11/04/13	SP-1-VOC-2 10/23/13	SP-1-VOC-2 11/04/13	SP-2-COMP 10/30/13
Inorganics-TCLP											
Arsenic	mg/L	5	--	--	--	0.00970 J	NA	NA	NA	NA	0.00780 J
Barium	mg/L	100	--	--	--	0.210 B	NA	NA	NA	NA	0.170 B
Cadmium	mg/L	1	--	--	--	0.00120	NA	NA	NA	NA	0.00110
Chromium	mg/L	5	--	--	--	0.00320 JB	NA	NA	NA	NA	0.00510 B
Copper	mg/L	167	--	--	--	0.00240 JB	NA	NA	NA	NA	0.00250 JB
Lead	mg/L	5	--	--	--	<0.00500	NA	NA	NA	NA	0.0300
Mercury	mg/L	0.2	--	--	--	0.000120 J	NA	NA	NA	NA	<0.000200
Nickel	mg/L	242	--	--	--	0.0130 B	NA	NA	NA	NA	0.0140
Selenium	mg/L	1	--	--	--	<0.0150	NA	NA	NA	NA	<0.0150
Silver	mg/L	5	--	--	--	<0.00300	NA	NA	NA	NA	<0.00300
Zinc	mg/L	1,875	--	--	--	0.0810 B	NA	NA	NA	NA	0.0900 B
PCBs											
Aroclor-1016	mg/kg	--	--	--	--	<0.32	NA	NA	NA	NA	<0.22
Aroclor-1221	mg/kg	--	--	--	--	<0.32	NA	NA	NA	NA	<0.22
Aroclor-1232	mg/kg	--	--	--	--	<0.32	NA	NA	NA	NA	<0.22
Aroclor-1242	mg/kg	--	--	--	--	<0.32	NA	NA	NA	NA	<0.22
Aroclor-1248	mg/kg	--	--	--	--	<0.32	NA	NA	NA	NA	<0.22
Aroclor-1254	mg/kg	--	--	--	--	<0.32	NA	NA	NA	NA	<0.22
Aroclor-1260	mg/kg	--	--	--	--	<0.32	NA	NA	NA	NA	<0.22
Total PCBs	mg/kg	50 (TSCA)	--	--	--	ND	NA	NA	NA	NA	ND
Miscellaneous											
Ammonia as NH ₃	mg/L	--	--	--	--	0.072 B	NA	NA	NA	NA	0.077
Ammonia Nitrogen	mg/L	111,111	--	--	--	0.059 B	NA	NA	NA	NA	0.063
Chemical Oxygen Demand	mg/L	--	--	--	--	14	NA	NA	NA	NA	11.2
Corrosivity	SU	--	--	--	--	8.71	NA	NA	NA	NA	8.42
Flashpoint	°F	> 140	--	--	--	>176	NA	NA	NA	NA	>176
Free Liquid	mL/100g	0	--	--	--	0	NA	NA	NA	NA	0
Leachate pH	SU	--	--	--	--	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/kg	--	--	--	--	530 H	NA	NA	NA	NA	NA
Oil & Grease	mg/L	88,550	--	--	--	27.5 J	NA	NA	NA	NA	160
Reactive Cyanide	mg/kg	100	--	--	--	<10	NA	NA	NA	NA	<10
Reactive Sulfide	mg/kg	500	--	--	--	20	NA	NA	NA	NA	36.1
Total Solids	mg/L	--	--	--	--	320 H	NA	NA	NA	NA	230 H
Total Volatile Solids	%	--	--	--	--	3.6	NA	NA	NA	NA	3.2
Percent Solids Dry Weight											
Percent Moisture	%	--	--	--	--	NA	38	NA	19	NA	NA
Percent Solids	%	--	--	--	--	78	62	NA	81	NA	96

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-2-VOC-1 10/30/13	SP-2-VOC-1 11/04/13	SP-2-VOC-2 10/30/13	SP-2-VOC-2 11/04/13	SP-3-COMP 10/30/13	SP-3-VOC-1 10/30/13	SP-3-VOC-1 11/04/13	SP-3-VOC-1 10/30/13	SP-3-VOC-2 11/04/13	SP-4-COMP 10/30/13	SP-4-VOC-1 10/30/13
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
1,1,2,2-Tetrachloroethane	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
1,1,2-Trichloroethane	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
1,1-Dichloroethane	mg/kg	<0.87	NA	<0.0049	NA	NA	0.011	NA	0.013	NA	NA	0.010
1,1-Dichloroethene	mg/kg	<0.87	NA	<0.0049	NA	NA	0.017	NA	0.020	NA	NA	0.022
1,2,4-Trichlorobenzene	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
1,2-Dibromo-3-chloropropane	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
1,2-Dibromoethane	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
1,2-Dichlorobenzene	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
1,2-Dichloroethane	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	0.00055 J	NA	NA	<0.0047
1,2-Dichloropropane	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
1,3-Dichlorobenzene	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
1,4-Dichlorobenzene	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
2-Butanone	mg/kg	<4.3	NA	<0.025	NA	NA	<0.019	NA	<0.020	NA	NA	<0.023
2-Hexanone	mg/kg	<4.3	NA	<0.025	NA	NA	<0.019	NA	<0.020	NA	NA	<0.023
4-Methyl-2-pentanone	mg/kg	<4.3	NA	<0.025	NA	NA	<0.019	NA	<0.020	NA	NA	<0.023
Acetone	mg/kg	<4.3 *	NA	<0.025	NA	NA	<0.019	NA	<0.020	NA	NA	0.056
Benzene	mg/kg	<0.87	NA	0.0038 J	NA	NA	0.029	NA	0.015	NA	NA	0.034
Bromodichloromethane	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
Bromoform	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
Bromomethane	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
Carbon Disulfide	mg/kg	<0.87	NA	0.043	NA	NA	0.17 E	NA	0.62	NA	NA	0.21 E
Carbon Tetrachloride	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
Chlorobenzene	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
Chloroethane	mg/kg	<0.87 *	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
Chloroform	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
Chloromethane	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
cis-1,2-Dichloroethene	mg/kg	4.8	NA	4.3	NA	NA	12	NA	4.8	NA	NA	7.7
cis-1,3-Dichloropropene	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
Cyclohexane	mg/kg	<0.87	NA	0.026	NA	NA	0.10	NA	<0.0040	NA	NA	0.052
Dibromochloromethane	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
Dichlorodifluoromethane	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
Ethylbenzene	mg/kg	<0.87	NA	0.014	NA	NA	0.081	NA	0.012	NA	NA	0.038
Isopropylbenzene	mg/kg	<0.87	NA	0.0034 J	NA	NA	0.014	NA	0.0031 J	NA	NA	0.0078
Methyl acetate	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
Methyl tert-butyl ether	mg/kg	<0.87	NA	0.035	NA	NA	0.23 E	NA	0.056	NA	NA	0.20 E
Methylcyclohexane	mg/kg	<0.87	NA	0.032	NA	NA	0.11	NA	0.046	NA	NA	0.053
Methylene Chloride	mg/kg	5.6	NA	1.2	NA	NA	11	NA	1.3	NA	NA	<0.0047
Styrene	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	<0.0047
Tetrachloroethene	mg/kg	<0.87	NA	0.0041 J	NA	NA	0.086	NA	0.0052	NA	NA	0.048
Toluene	mg/kg	<0.87	NA	0.011	NA	NA	0.14	NA	0.020	NA	NA	0.10
Total VOCs	mg/kg	64	NA	27 J	NA	NA	180	NA	26 J	NA	NA	87

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-2-VOC-1 10/30/13	SP-2-VOC-1 11/04/13	SP-2-VOC-2 10/30/13	SP-2-VOC-2 11/04/13	SP-3-COMP 10/30/13	SP-3-VOC-1 10/30/13	SP-3-VOC-1 11/04/13	SP-3-VOC-1 10/30/13	SP-3-VOC-2 11/04/13	SP-3-VOC-2 10/30/13	SP-4-COMP 10/30/13	SP-4-VOC-1 10/30/13
Volatile Organics (Cont.)													
trans-1,2-Dichloroethene	mg/kg	<0.87	NA	0.028	NA	NA	0.074	NA	0.13	NA	NA	NA	0.063
trans-1,3-Dichloropropene	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	NA	<0.0047
Trichloroethene	mg/kg	54	NA	21	NA	NA	160	NA	18	NA	NA	NA	78
Trichlorofluoromethane	mg/kg	<0.87	NA	<0.0049	NA	NA	<0.0037	NA	<0.0040	NA	NA	NA	<0.0047
Vinyl Chloride	mg/kg	<0.87	NA	0.28 E	NA	NA	0.49 E	NA	0.42 E	NA	NA	NA	0.57 E
Xylenes (total)	mg/kg	<1.7	NA	0.068	NA	NA	0.33	NA	0.049	NA	NA	NA	0.16
Volatile Organics-TCLP													
1,1-Dichloroethene	mg/L	NA	<0.010	NA	<0.010	NA	NA	<0.010	NA	<0.010	NA	NA	NA
1,2-Dichloroethane	mg/L	NA	<0.010	NA	<0.010	NA	NA	<0.010	NA	<0.010	NA	NA	NA
2-Butanone	mg/L	NA	<0.050	NA	<0.050	NA	NA	<0.050	NA	<0.050	NA	NA	NA
Benzene	mg/L	NA	<0.010	NA	<0.010	NA	NA	<0.010	NA	<0.010	NA	NA	NA
Carbon Tetrachloride	mg/L	NA	<0.010	NA	<0.010	NA	NA	<0.010	NA	<0.010	NA	NA	NA
Chlorobenzene	mg/L	NA	<0.010	NA	<0.010	NA	NA	<0.010	NA	<0.010	NA	NA	NA
Chloroform	mg/L	NA	<0.010	NA	<0.010	NA	NA	<0.010	NA	<0.010	NA	NA	NA
Tetrachloroethene	mg/L	NA	<0.010	NA	<0.010	NA	NA	<0.010	NA	<0.010	NA	NA	NA
Trichloroethene	mg/L	NA	0.036	NA	0.067	NA	NA	0.22	NA	0.13	NA	NA	NA
Vinyl Chloride	mg/L	NA	<0.010	NA	<0.010	NA	NA	<0.010	NA	<0.010	NA	NA	NA
Semivolatile Organics-TCLP													
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	<0.010	NA	NA	NA	NA	<0.010	NA	NA
2,4,5-Trichlorophenol	mg/L	NA	NA	NA	NA	<0.0050	NA	NA	NA	NA	<0.0050	NA	NA
2,4,6-Trichlorophenol	mg/L	NA	NA	NA	NA	<0.0050	NA	NA	NA	NA	<0.0050	NA	NA
2,4-Dinitrotoluene	mg/L	NA	NA	NA	NA	<0.0050	NA	NA	NA	NA	<0.0050	NA	NA
2-Methylphenol	mg/L	NA	NA	NA	NA	<0.0050	NA	NA	NA	NA	<0.0050	NA	NA
3&4-Methylphenol	mg/L	NA	NA	NA	NA	<0.010	NA	NA	NA	NA	<0.010	NA	NA
Hexachlorobenzene	mg/L	NA	NA	NA	NA	<0.0050	NA	NA	NA	NA	<0.0050	NA	NA
Hexachlorobutadiene	mg/L	NA	NA	NA	NA	<0.0050	NA	NA	NA	NA	<0.0050	NA	NA
Hexachloroethane	mg/L	NA	NA	NA	NA	<0.0050	NA	NA	NA	NA	<0.0050	NA	NA
Nitrobenzene	mg/L	NA	NA	NA	NA	<0.0050	NA	NA	NA	NA	<0.0050	NA	NA
Pentachlorophenol	mg/L	NA	NA	NA	NA	<0.010	NA	NA	NA	NA	<0.010	NA	NA
Pyridine	mg/L	NA	NA	NA	NA	<0.025	NA	NA	NA	NA	<0.025	NA	NA
Organochlorine Pesticides-TCLP													
Endrin	mg/L	NA	NA	NA	NA	<0.00020	NA	NA	NA	NA	<0.00020	NA	NA
Gamma-BHC (Lindane)	mg/L	NA	NA	NA	NA	0.000068 JB	NA	NA	NA	NA	<0.00020	NA	NA
Heptachlor	mg/L	NA	NA	NA	NA	0.000040 JB	NA	NA	NA	NA	0.000042 JB	NA	NA
Heptachlor Epoxide	mg/L	NA	NA	NA	NA	0.000011 JB	NA	NA	NA	NA	<0.00020	NA	NA
Methoxychlor	mg/L	NA	NA	NA	NA	<0.00020	NA	NA	NA	NA	<0.00020	NA	NA
Technical Chlordane	mg/L	NA	NA	NA	NA	<0.0020	NA	NA	NA	NA	<0.0020	NA	NA
Toxaphene	mg/L	NA	NA	NA	NA	<0.0020	NA	NA	NA	NA	<0.0020	NA	NA
Herbicides-TCLP													
2,4,5-TP	mg/L	NA	NA	NA	NA	<0.0020	NA	NA	NA	NA	<0.0020	NA	NA
2,4-D	mg/L	NA	NA	NA	NA	<0.0020	NA	NA	NA	NA	<0.0020	NA	NA

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-2-VOC-1 10/30/13	SP-2-VOC-1 11/04/13	SP-2-VOC-2 10/30/13	SP-2-VOC-2 11/04/13	SP-3-COMP 10/30/13	SP-3-VOC-1 10/30/13	SP-3-VOC-1 11/04/13	SP-3-VOC-2 10/30/13	SP-3-VOC-2 11/04/13	SP-4-COMP 10/30/13	SP-4-VOC-1 10/30/13
Inorganics-TCLP												
Arsenic	mg/L	NA	NA	NA	NA	0.0100	NA	NA	NA	NA	<0.0100	NA
Barium	mg/L	NA	NA	NA	NA	0.190 B	NA	NA	NA	NA	0.210 B	NA
Cadmium	mg/L	NA	NA	NA	NA	0.000770 J	NA	NA	NA	NA	0.00140	NA
Chromium	mg/L	NA	NA	NA	NA	0.00450 B	NA	NA	NA	NA	0.00270 JB	NA
Copper	mg/L	NA	NA	NA	NA	0.00280 JB	NA	NA	NA	NA	<0.0100	NA
Lead	mg/L	NA	NA	NA	NA	0.0160	NA	NA	NA	NA	0.0310	NA
Mercury	mg/L	NA	NA	NA	NA	<0.000200	NA	NA	NA	NA	<0.000200	NA
Nickel	mg/L	NA	NA	NA	NA	0.0120	NA	NA	NA	NA	0.0110	NA
Selenium	mg/L	NA	NA	NA	NA	<0.0150	NA	NA	NA	NA	<0.0150	NA
Silver	mg/L	NA	NA	NA	NA	<0.00300	NA	NA	NA	NA	<0.00300	NA
Zinc	mg/L	NA	NA	NA	NA	0.0700 B	NA	NA	NA	NA	0.110 B	NA
PCBs												
Aroclor-1016	mg/kg	NA	NA	NA	NA	<0.25	NA	NA	NA	NA	<0.21	NA
Aroclor-1221	mg/kg	NA	NA	NA	NA	<0.25	NA	NA	NA	NA	<0.21	NA
Aroclor-1232	mg/kg	NA	NA	NA	NA	<0.25	NA	NA	NA	NA	<0.21	NA
Aroclor-1242	mg/kg	NA	NA	NA	NA	<0.25	NA	NA	NA	NA	<0.21	NA
Aroclor-1248	mg/kg	NA	NA	NA	NA	<0.25	NA	NA	NA	NA	<0.21	NA
Aroclor-1254	mg/kg	NA	NA	NA	NA	<0.25	NA	NA	NA	NA	<0.21	NA
Aroclor-1260	mg/kg	NA	NA	NA	NA	<0.25	NA	NA	NA	NA	<0.21	NA
Total PCBs	mg/kg	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA
Miscellaneous												
Ammonia as NH ₃	mg/L	NA	NA	NA	NA	0.084	NA	NA	NA	NA	0.039	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	0.069	NA	NA	NA	NA	0.032	NA
Chemical Oxygen Demand	mg/L	NA	NA	NA	NA	11.2	NA	NA	NA	NA	10.8	NA
Corrosivity	SU	NA	NA	NA	NA	9.13	NA	NA	NA	NA	8.15	NA
Flashpoint	°F	NA	NA	NA	NA	>176	NA	NA	NA	NA	>176	NA
Free Liquid	mL/100g	NA	NA	NA	NA	0	NA	NA	NA	NA	0	NA
Leachate pH	SU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/L	NA	NA	NA	NA	136	NA	NA	NA	NA	97.6 J	NA
Reactive Cyanide	mg/kg	NA	NA	NA	NA	<10	NA	NA	NA	NA	<10	NA
Reactive Sulfide	mg/kg	NA	NA	NA	NA	18	NA	NA	NA	NA	16	NA
Total Solids	mg/L	NA	NA	NA	NA	298 H	NA	NA	NA	NA	217 H	NA
Total Volatile Solids	%	NA	NA	NA	NA	2.7	NA	NA	NA	NA	2.3	NA
Percent Solids Dry Weight												
Percent Moisture	%	9.8	NA	12	NA	NA	9.1	NA	11	NA	NA	18
Percent Solids	%	90	NA	88	NA	93	91	NA	89	NA	92	82

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-4-VOC-1 11/04/13	SP-4-VOC-2 10/30/13	SP-4-VOC-2 11/04/13	SP-5-COMP 11/04/13	SP-5-VOC-1 11/04/13	SP-5-VOC-2 11/04/13	SP-6-COMP 11/04/13	SP-6-VOC-1 11/04/13	SP-6-VOC-2 11/04/13	SP-7-COMP 11/06/13	SP-7-VOC-1 11/06/13
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
1,1,2,2-Tetrachloroethane	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
1,1,2-Trichloroethane	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
1,1-Dichloroethane	mg/kg	NA	<0.053	NA	NA	<0.054	0.019 J	NA	<0.085	<0.085	NA	<0.15
1,1-Dichloroethene	mg/kg	NA	<0.053	NA	NA	<0.054	0.019 J	NA	<0.085	<0.085	NA	<0.15
1,2,4-Trichlorobenzene	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
1,2-Dibromo-3-chloropropane	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
1,2-Dibromoethane	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
1,2-Dichlorobenzene	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
1,2-Dichloroethane	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
1,2-Dichloropropane	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
1,3-Dichlorobenzene	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
1,4-Dichlorobenzene	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
2-Butanone	mg/kg	NA	<0.27	NA	NA	<0.27	<0.25	NA	<0.42	<0.42	NA	<0.74
2-Hexanone	mg/kg	NA	<0.27	NA	NA	<0.27	0.15 J	NA	<0.42	<0.42	NA	<0.74
4-Methyl-2-pentanone	mg/kg	NA	<0.27	NA	NA	<0.27	<0.25	NA	<0.42	<0.42	NA	<0.74
Acetone	mg/kg	NA	<0.27	NA	NA	<0.27	<0.25	NA	<0.42	<0.42	NA	<0.74
Benzene	mg/kg	NA	<0.053	NA	NA	<0.054	0.044 J	NA	0.019 J	<0.085	NA	0.031 J
Bromodichloromethane	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
Bromoform	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
Bromomethane	mg/kg	NA	<0.053	NA	NA	<0.054 *	<0.050 *	NA	<0.085	<0.085 *	NA	<0.15
Carbon Disulfide	mg/kg	NA	<0.053	NA	NA	0.025 J	0.39	NA	0.060 J	0.043 J	NA	0.17
Carbon Tetrachloride	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
Chlorobenzene	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
Chloroethane	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
Chloroform	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
Chloromethane	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
cis-1,2-Dichloroethene	mg/kg	NA	4.2	NA	NA	3.4	11	NA	2.4	0.025 J	NA	2.4
cis-1,3-Dichloropropene	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
Cyclohexane	mg/kg	NA	<0.053	NA	NA	0.015 J	0.18	NA	<0.085	<0.085	NA	<0.15
Dibromochloromethane	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
Dichlorodifluoromethane	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
Ethylbenzene	mg/kg	NA	<0.053	NA	NA	0.019 J	0.15	NA	0.15	<0.085	NA	0.066 J
Isopropylbenzene	mg/kg	NA	<0.053	NA	NA	<0.054	0.045 J	NA	0.059 J	<0.085	NA	<0.15
Methyl acetate	mg/kg	NA	0.051 J	NA	NA	0.079	<0.050	NA	0.42	0.052 J	NA	0.27
Methyl tert-butyl ether	mg/kg	NA	0.13	NA	NA	0.16	0.29	NA	0.40	0.063 J	NA	0.47
Methylcyclohexane	mg/kg	NA	<0.053	NA	NA	<0.054	0.22	NA	0.14	<0.085	NA	<0.15
Methylene Chloride	mg/kg	NA	0.33	NA	NA	3.4	12	NA	0.16	0.099	NA	8.7
Styrene	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
Tetrachloroethene	mg/kg	NA	<0.053	NA	NA	<0.054	0.21	NA	<0.085	<0.085	NA	<0.15
Toluene	mg/kg	NA	<0.053	NA	NA	<0.054	0.31	NA	<0.085	<0.085	NA	0.087 J
Total VOCs	mg/kg	NA	7.8 J	NA	NA	17 J	250 J	NA	5.5 J	0.28 J	NA	13 J

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-4-VOC-1 11/04/13	SP-4-VOC-2 10/30/13	SP-4-VOC-2 11/04/13	SP-5-COMP 11/04/13	SP-5-VOC-1 11/04/13	SP-5-VOC-2 11/04/13	SP-6-COMP 11/04/13	SP-6-VOC-1 11/04/13	SP-6-VOC-2 11/04/13	SP-7-COMP 11/06/13	SP-7-VOC-1 11/06/13
Volatile Organics (Cont.)												
trans-1,2-Dichloroethene	mg/kg	NA	0.14	NA	NA	<0.054	0.089	NA	<0.085	<0.085	NA	<0.15
trans-1,3-Dichloropropene	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
Trichloroethene	mg/kg	NA	2.9	NA	NA	10	220	NA	0.89	<0.085	NA	0.29
Trichlorofluoromethane	mg/kg	NA	<0.053	NA	NA	<0.054	<0.050	NA	<0.085	<0.085	NA	<0.15
Vinyl Chloride	mg/kg	NA	0.054	NA	NA	0.023 J	0.37	NA	0.53	<0.085	NA	0.39
Xylenes (total)	mg/kg	NA	<0.11	NA	NA	<0.11	0.98	NA	0.26	<0.17	NA	0.28 J
Volatile Organics-TCLP												
1,1-Dichloroethene	mg/L	<0.010	NA	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010
1,2-Dichloroethane	mg/L	<0.010	NA	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010
2-Butanone	mg/L	<0.050	NA	<0.050	NA	<0.050	<0.050	NA	<0.050	<0.050	NA	<0.050
Benzene	mg/L	<0.010	NA	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010
Carbon Tetrachloride	mg/L	<0.010	NA	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010
Chlorobenzene	mg/L	<0.010	NA	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010
Chloroform	mg/L	<0.010	NA	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010
Tetrachloroethene	mg/L	<0.010	NA	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010
Trichloroethene	mg/L	0.19	NA	0.12	NA	1.7	0.052	NA	<0.010	<0.010	NA	0.0091 J
Vinyl Chloride	mg/L	<0.010	NA	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010
Semivolatile Organics-TCLP												
1,4-Dichlorobenzene	mg/L	NA	NA	NA	<0.010	NA	NA	<0.010	NA	NA	<0.010	NA
2,4,5-Trichlorophenol	mg/L	NA	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
2,4,6-Trichlorophenol	mg/L	NA	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
2,4-Dinitrotoluene	mg/L	NA	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
2-Methylphenol	mg/L	NA	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
3&4-Methylphenol	mg/L	NA	NA	NA	<0.010	NA	NA	0.00095 J	NA	NA	<0.010	NA
Hexachlorobenzene	mg/L	NA	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
Hexachlorobutadiene	mg/L	NA	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
Hexachloroethane	mg/L	NA	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
Nitrobenzene	mg/L	NA	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
Pentachlorophenol	mg/L	NA	NA	NA	<0.010	NA	NA	<0.010	NA	NA	<0.010	NA
Pyridine	mg/L	NA	NA	NA	<0.025	NA	NA	<0.025	NA	NA	<0.025	NA
Organochlorine Pesticides-TCLP												
Endrin	mg/L	NA	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA
Gamma-BHC (Lindane)	mg/L	NA	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	0.000037 J	NA
Heptachlor	mg/L	NA	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA
Heptachlor Epoxide	mg/L	NA	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA
Methoxychlor	mg/L	NA	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA
Technical Chlordane	mg/L	NA	NA	NA	<0.0020	NA	NA	0.00037 JB	NA	NA	<0.0020	NA
Toxaphene	mg/L	NA	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA
Herbicides-TCLP												
2,4,5-TP	mg/L	NA	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA
2,4-D	mg/L	NA	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-4-VOC-1 11/04/13	SP-4-VOC-2 10/30/13	SP-4-VOC-2 11/04/13	SP-5-COMP 11/04/13	SP-5-VOC-1 11/04/13	SP-5-VOC-2 11/04/13	SP-6-COMP 11/04/13	SP-6-VOC-1 11/04/13	SP-6-VOC-2 11/04/13	SP-7-COMP 11/06/13	SP-7-VOC-1 11/06/13
Inorganics-TCLP												
Arsenic	mg/L	NA	NA	NA	0.0130	NA	NA	0.0140	NA	NA	0.0430	NA
Barium	mg/L	NA	NA	NA	0.140 B	NA	NA	0.250 B	NA	NA	0.450 B	NA
Cadmium	mg/L	NA	NA	NA	0.00150	NA	NA	0.00130	NA	NA	0.00140	NA
Chromium	mg/L	NA	NA	NA	0.00510 B	NA	NA	0.00600 B	NA	NA	0.120 B	NA
Copper	mg/L	NA	NA	NA	0.00300 JB	NA	NA	0.00930 JB	NA	NA	0.0590 B	NA
Lead	mg/L	NA	NA	NA	0.0120	NA	NA	0.0400	NA	NA	0.140	NA
Mercury	mg/L	NA	NA	NA	0.000210 B	NA	NA	<0.000200	NA	NA	<0.000200	NA
Nickel	mg/L	NA	NA	NA	0.0150	NA	NA	0.0120	NA	NA	0.0750	NA
Selenium	mg/L	NA	NA	NA	<0.0150	NA	NA	<0.0150	NA	NA	0.0100 J	NA
Silver	mg/L	NA	NA	NA	<0.00300	NA	NA	<0.00300	NA	NA	<0.00300	NA
Zinc	mg/L	NA	NA	NA	0.0720 B	NA	NA	0.0760 B	NA	NA	0.230 B	NA
PCBs												
Aroclor-1016	mg/kg	NA	NA	NA	<0.29	NA	NA	<0.35	NA	NA	<0.29	NA
Aroclor-1221	mg/kg	NA	NA	NA	<0.29	NA	NA	<0.35	NA	NA	<0.29	NA
Aroclor-1232	mg/kg	NA	NA	NA	<0.29	NA	NA	<0.35	NA	NA	<0.29	NA
Aroclor-1242	mg/kg	NA	NA	NA	<0.29	NA	NA	<0.35	NA	NA	<0.29	NA
Aroclor-1248	mg/kg	NA	NA	NA	<0.29	NA	NA	<0.35	NA	NA	<0.29	NA
Aroclor-1254	mg/kg	NA	NA	NA	<0.29	NA	NA	<0.35	NA	NA	<0.29	NA
Aroclor-1260	mg/kg	NA	NA	NA	<0.29	NA	NA	<0.35	NA	NA	<0.29	NA
Total PCBs	mg/kg	NA	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA
Miscellaneous												
Ammonia as NH ₃	mg/L	NA	NA	NA	0.062	NA	NA	0.069	NA	NA	<0.024	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	0.051	NA	NA	0.057	NA	NA	<0.02	NA
Chemical Oxygen Demand	mg/L	NA	NA	NA	8 J	NA	NA	9.3 J	NA	NA	9.9 J	NA
Corrosivity	SU	NA	NA	NA	7.83	NA	NA	8.11	NA	NA	9.22	NA
Flashpoint	°F	NA	NA	NA	>176	NA	NA	>176	NA	NA	>176	NA
Free Liquid	mL/100g	NA	NA	NA	0	NA	NA	0	NA	NA	0	NA
Leachate pH	SU	NA	NA	NA	NA	NA	NA	5.35	NA	NA	5.36	NA
Oil & Grease	mg/kg	NA	NA	NA	NA	NA	NA	537	NA	NA	131	NA
Oil & Grease	mg/L	NA	NA	NA	<99.5	NA	NA	43.3 J	NA	NA	<99.2	NA
Reactive Cyanide	mg/kg	NA	NA	NA	<10	NA	NA	<10	NA	NA	<10	NA
Reactive Sulfide	mg/kg	NA	NA	NA	2 J	NA	NA	6 J	NA	NA	50.1	NA
Total Solids	mg/L	NA	NA	NA	301 H	NA	NA	324 H	NA	NA	202	NA
Total Volatile Solids	%	NA	NA	NA	3.3	NA	NA	4.2	NA	NA	2.4	NA
Percent Solids Dry Weight												
Percent Moisture	%	NA	18	NA	28	18	24	41	38	41	NA	25
Percent Solids	%	NA	82	NA	72	82	76	59	62	59	70	75

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-7-VOC-2 11/06/13	SP-8-COMP 11/06/13	SP-8-VOC-1 11/06/13	SP-8-VOC-2 11/06/13	SP-9-COMP 11/07/13	SP-9-VOC-1 11/07/13	SP-9-VOC-2 11/07/13	SP-10-COMP 11/07/13	SP-10-VOC-1 11/07/13	SP-10-VOC-2 11/07/13	SP-11-COMP 11/11/13
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
1,1,2,2-Tetrachloroethane	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
1,1,2-Trichloroethane	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
1,1-Dichloroethane	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
1,1-Dichloroethene	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
1,2,4-Trichlorobenzene	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
1,2-Dibromo-3-chloropropane	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
1,2-Dibromoethane	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
1,2-Dichlorobenzene	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
1,2-Dichloroethane	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
1,2-Dichloropropane	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
1,3-Dichlorobenzene	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
1,4-Dichlorobenzene	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
2-Butanone	mg/kg	<0.30	NA	<0.31	<0.29	NA	<1.6	<0.92	NA	<5.6	<4.6	NA
2-Hexanone	mg/kg	<0.30	NA	<0.31	<0.29	NA	<1.6	<0.92	NA	<5.6	<4.6	NA
4-Methyl-2-pentanone	mg/kg	<0.30	NA	<0.31	<0.29	NA	<1.6	<0.92	NA	<5.6	<4.6	NA
Acetone	mg/kg	<0.30	NA	<0.31	<0.29	NA	<1.6	<0.92	NA	<5.6	<4.6	NA
Benzene	mg/kg	0.063	NA	0.014 J	0.029 J	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
Bromodichloromethane	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
Bromoform	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
Bromomethane	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
Carbon Disulfide	mg/kg	0.041 J	NA	0.11	0.095	NA	<0.31	<0.18	NA	<1.1	1.9	NA
Carbon Tetrachloride	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
Chlorobenzene	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
Chloroethane	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
Chloroform	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
Chloromethane	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
cis-1,2-Dichloroethene	mg/kg	0.71	NA	1.5	2.7	NA	2.2	4.1	NA	20	27	NA
cis-1,3-Dichloropropene	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
Cyclohexane	mg/kg	<0.061	NA	0.060 J	0.028 J	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
Dibromochloromethane	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
Dichlorodifluoromethane	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
Ethylbenzene	mg/kg	0.21	NA	0.070	0.059	NA	<0.31	0.058 J	NA	<1.1	<0.92	NA
Isopropylbenzene	mg/kg	0.032 J	NA	0.025 J	0.019 J	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
Methyl acetate	mg/kg	0.076	NA	0.32	0.63	NA	<0.31	1.5	NA	<1.1	<0.92	NA
Methyl tert-butyl ether	mg/kg	0.46	NA	0.37	0.22	NA	1.0	1.2	NA	<1.1	3.4	NA
Methylcyclohexane	mg/kg	<0.061	NA	0.057 J	0.039 J	NA	<0.31	0.10 J	NA	<1.1	<0.92	NA
Methylene Chloride	mg/kg	0.76	NA	0.15	0.15	NA	24	3.4	NA	7.6	54	NA
Styrene	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
Tetrachloroethene	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
Toluene	mg/kg	0.045 J	NA	<0.062	0.028 J	NA	<0.31	0.10 J	NA	<1.1	<0.92	NA
Total VOCs	mg/kg	3.1 J	NA	3.6 J	6.2 J	NA	36	25 J	NA	140 J	110 J	NA

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-7-VOC-2 11/06/13	SP-8-COMP 11/06/13	SP-8-VOC-1 11/06/13	SP-8-VOC-2 11/06/13	SP-9-COMP 11/07/13	SP-9-VOC-1 11/07/13	SP-9-VOC-2 11/07/13	SP-10-COMP 11/07/13	SP-10-VOC-1 11/07/13	SP-10-VOC-2 11/07/13	SP-11-COMP 11/11/13
Volatile Organics (Cont.)												
trans-1,2-Dichloroethene	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
trans-1,3-Dichloropropene	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
Trichloroethene	mg/kg	0.13	NA	0.51	1.4	NA	9.2	13	NA	110	23	NA
Trichlorofluoromethane	mg/kg	<0.061	NA	<0.062	<0.059	NA	<0.31	<0.18	NA	<1.1	<0.92	NA
Vinyl Chloride	mg/kg	0.045 J	NA	0.34	0.63	NA	<0.31	1.2	NA	0.66 J	0.79 J	NA
Xylenes (total)	mg/kg	0.48	NA	0.077 J	0.13	NA	<0.63	0.21 J	NA	<2.3	<1.8	NA
Volatile Organics-TCLP												
1,1-Dichloroethene	mg/L	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA
1,2-Dichloroethane	mg/L	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA
2-Butanone	mg/L	<0.050	NA	<0.050	<0.050	NA	<0.050	<0.050	NA	<0.050	<0.050	NA
Benzene	mg/L	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA
Carbon Tetrachloride	mg/L	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA
Chlorobenzene	mg/L	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA
Chloroform	mg/L	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA
Tetrachloroethene	mg/L	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA
Trichloroethene	mg/L	<0.010	NA	0.017	0.025	NA	0.088	0.30	NA	3.6	2.3	NA
Vinyl Chloride	mg/L	<0.010	NA	0.012	<0.010	NA	0.012	0.025	NA	<0.010	<0.010	NA
Semivolatile Organics-TCLP												
1,4-Dichlorobenzene	mg/L	NA	<0.010	NA	NA	<0.010	NA	NA	<0.010	NA	NA	<0.010
2,4,5-Trichlorophenol	mg/L	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050
2,4,6-Trichlorophenol	mg/L	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050
2,4-Dinitrotoluene	mg/L	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050
2-Methylphenol	mg/L	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	0.0014 J
3&4-Methylphenol	mg/L	NA	<0.010	NA	NA	0.0040 J	NA	NA	<0.010	NA	NA	0.0082 J
Hexachlorobenzene	mg/L	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050
Hexachlorobutadiene	mg/L	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050
Hexachloroethane	mg/L	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050
Nitrobenzene	mg/L	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050
Pentachlorophenol	mg/L	NA	<0.010	NA	NA	<0.010	NA	NA	<0.010	NA	NA	<0.010
Pyridine	mg/L	NA	<0.025	NA	NA	<0.025	NA	NA	<0.025	NA	NA	<0.025
Organochlorine Pesticides-TCLP												
Endrin	mg/L	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020
Gamma-BHC (Lindane)	mg/L	NA	0.000049 J	NA	NA	0.000037 J	NA	NA	0.000037 J	NA	NA	0.000068 JB
Heptachlor	mg/L	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	0.000031 J
Heptachlor Epoxide	mg/L	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020
Methoxychlor	mg/L	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020
Technical Chlordane	mg/L	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020
Toxaphene	mg/L	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020
Herbicides-TCLP												
2,4,5-TP	mg/L	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020
2,4-D	mg/L	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020

See Notes on Page 31.

11/14/2014

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Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-7-VOC-2 11/06/13	SP-8-COMP 11/06/13	SP-8-VOC-1 11/06/13	SP-8-VOC-2 11/06/13	SP-9-COMP 11/07/13	SP-9-VOC-1 11/07/13	SP-9-VOC-2 11/07/13	SP-10-COMP 11/07/13	SP-10-VOC-1 11/07/13	SP-10-VOC-2 11/07/13	SP-11-COMP 11/11/13
Inorganics-TCLP												
Arsenic	mg/L	NA	0.00910 J	NA	NA	0.0170	NA	NA	0.160	NA	NA	0.00750 J
Barium	mg/L	NA	0.250 B	NA	NA	0.240 B	NA	NA	0.180 B	NA	NA	0.120 B
Cadmium	mg/L	NA	0.00120	NA	NA	0.000740 J	NA	NA	0.00440	NA	NA	0.000730 J
Chromium	mg/L	NA	0.00380 JB	NA	NA	0.00870 B	NA	NA	0.0130 B	NA	NA	0.00310 JB
Copper	mg/L	NA	0.00220 JB	NA	NA	0.00240 JB	NA	NA	0.00310 JB	NA	NA	0.00210 J
Lead	mg/L	NA	0.00300 J	NA	NA	<0.0250	NA	NA	0.0580	NA	NA	0.0180 ^
Mercury	mg/L	NA	<0.000200	NA	NA	<0.000200	NA	NA	<0.000200	NA	NA	<0.000200 H
Nickel	mg/L	NA	0.0140	NA	NA	0.0390	NA	NA	0.00540 J	NA	NA	0.0120
Selenium	mg/L	NA	<0.0150	NA	NA	0.00930 J	NA	NA	0.0910	NA	NA	<0.0150
Silver	mg/L	NA	<0.00300	NA	NA	<0.00300	NA	NA	<0.00300	NA	NA	<0.00300
Zinc	mg/L	NA	0.0820 B	NA	NA	0.140 B	NA	NA	0.0720 B	NA	NA	0.0690 B
PCBs												
Aroclor-1016	mg/kg	NA	<0.27	NA	NA	<0.30	NA	NA	<0.35	NA	NA	<0.28
Aroclor-1221	mg/kg	NA	<0.27	NA	NA	<0.30	NA	NA	<0.35	NA	NA	<0.28
Aroclor-1232	mg/kg	NA	<0.27	NA	NA	<0.30	NA	NA	<0.35	NA	NA	<0.28
Aroclor-1242	mg/kg	NA	<0.27	NA	NA	<0.30	NA	NA	<0.35	NA	NA	<0.28
Aroclor-1248	mg/kg	NA	<0.27	NA	NA	<0.30	NA	NA	<0.35	NA	NA	<0.28
Aroclor-1254	mg/kg	NA	<0.27	NA	NA	<0.30	NA	NA	<0.35	NA	NA	<0.28
Aroclor-1260	mg/kg	NA	<0.27	NA	NA	<0.30	NA	NA	<0.35	NA	NA	<0.28
Total PCBs	mg/kg	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND
Miscellaneous												
Ammonia as NH ₃	mg/L	NA	0.069	NA	NA	0.035	NA	NA	0.13	NA	NA	0.53
Ammonia Nitrogen	mg/L	NA	0.056	NA	NA	0.029	NA	NA	0.11	NA	NA	0.44
Chemical Oxygen Demand	mg/L	NA	<10	NA	NA	32.3	NA	NA	23.5	NA	NA	38
Corrosivity	SU	NA	9	NA	NA	11.3	NA	NA	8.54	NA	NA	8.81
Flashpoint	°F	NA	>176	NA	NA	>176	NA	NA	>176	NA	NA	>176
Free Liquid	mL/100g	NA	0	NA	NA	0	NA	NA	0	NA	NA	0
Leachate pH	SU	NA	5.48	NA	NA	5.37	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/kg	NA	195	NA	NA	104 H	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/L	NA	33.7 J	NA	NA	122	NA	NA	<100	NA	NA	<100
Reactive Cyanide	mg/kg	NA	<10	NA	NA	<10	NA	NA	<10	NA	NA	<10
Reactive Sulfide	mg/kg	NA	60.1	NA	NA	<10	NA	NA	8 J	NA	NA	20
Total Solids	mg/L	NA	227	NA	NA	486	NA	NA	315	NA	NA	244
Total Volatile Solids	%	NA	3.4	NA	NA	3.3	NA	NA	4.9	NA	NA	2.2
Percent Solids Dry Weight												
Percent Moisture	%	23	NA	35	22	NA	35	33	NA	27	41	25
Percent Solids	%	77	76	65	78	66	65	67	67	73	59	75

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-11-VOC-1 11/11/13	SP-11-VOC-2 11/11/13	SP-12-COMP 11/13/13	SP-12-VOC-1 11/13/13	SP-12-VOC-2 11/13/13	SP-13-COMP 11/13/13	SP-13-VOC-1 11/13/13	SP-13-VOC-2 11/13/13	SP-14-COMP 11/13/13	SP-14-VOC-1 11/13/13
Volatile Organics											
1,1,1-Trichloroethane	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
1,1,2,2-Tetrachloroethane	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
1,1,2-Trichloroethane	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
1,1-Dichloroethane	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	0.021 J
1,1-Dichloroethene	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
1,2,4-Trichlorobenzene	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
1,2-Dibromo-3-chloropropane	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
1,2-Dibromoethane	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
1,2-Dichlorobenzene	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
1,2-Dichloroethane	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
1,2-Dichloropropane	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
1,3-Dichlorobenzene	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
1,4-Dichlorobenzene	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
2-Butanone	mg/kg	<0.97	<1.2	NA	<0.59	<0.16	NA	<0.23	<0.20	NA	<0.29
2-Hexanone	mg/kg	<0.97	<1.2	NA	<0.59	<0.16	NA	0.78	<0.20	NA	<0.29
4-Methyl-2-pentanone	mg/kg	<0.97	<1.2	NA	<0.59	<0.16	NA	<0.23	<0.20	NA	<0.29
Acetone	mg/kg	<0.97	<1.2	NA	<0.59	<0.16	NA	<0.23	<0.20	NA	<0.29
Benzene	mg/kg	<0.19	0.045 J	NA	<0.12	0.017 J	NA	0.051	0.038 J	NA	0.022 J
Bromodichloromethane	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
Bromoform	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
Bromomethane	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
Carbon Disulfide	mg/kg	0.18 J	0.30	NA	<0.12	0.070	NA	0.060	0.43	NA	1.4
Carbon Tetrachloride	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
Chlorobenzene	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
Chloroethane	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
Chloroform	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
Chloromethane	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
cis-1,2-Dichloroethene	mg/kg	3.0	8.6	NA	3.0	0.64	NA	8.0	3.3	NA	1.3
cis-1,3-Dichloropropene	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
Cyclohexane	mg/kg	0.18 J	0.20 J	NA	<0.12	0.0089 J	NA	1.1	0.072	NA	<0.057
Dibromochloromethane	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
Dichlorodifluoromethane	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
Ethylbenzene	mg/kg	0.16 J	0.13 J	NA	0.045 J	0.015 J	NA	0.55	0.058	NA	<0.057
Isopropylbenzene	mg/kg	0.067 J	0.046 J	NA	<0.12	<0.033	NA	0.14	0.015 J	NA	<0.057
Methyl acetate	mg/kg	<0.19	<0.24	NA	0.087 J	0.25	NA	<0.047	<0.040	NA	0.061
Methyl tert-butyl ether	mg/kg	0.12 J	0.26	NA	0.17	0.67	NA	0.32	0.75	NA	4.1
Methylcyclohexane	mg/kg	0.26	0.31	NA	<0.12	<0.033	NA	1.1	0.088	NA	<0.057
Methylene Chloride	mg/kg	3.6	2.6	NA	2.2	0.38	NA	4.9 B	26 B	NA	37 B
Styrene	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
Tetrachloroethene	mg/kg	<0.19	0.19 J	NA	<0.12	<0.033	NA	0.12	0.072	NA	<0.057
Toluene	mg/kg	<0.19	0.18 J	NA	<0.12	0.031 J	NA	0.34	0.13	NA	<0.057
Total VOCs	mg/kg	21 J	130 J	NA	20 J	2.5 J	NA	66	66 J	NA	46 J

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-11-VOC-1 11/11/13	SP-11-VOC-2 11/11/13	SP-12-COMP 11/13/13	SP-12-VOC-1 11/13/13	SP-12-VOC-2 11/13/13	SP-13-COMP 11/13/13	SP-13-VOC-1 11/13/13	SP-13-VOC-2 11/13/13	SP-14-COMP 11/13/13	SP-14-VOC-1 11/13/13
Volatile Organics (Cont.)											
trans-1,2-Dichloroethene	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
trans-1,3-Dichloropropene	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
Trichloroethene	mg/kg	12	120	NA	14	0.11	NA	46	34	NA	0.056 J
Trichlorofluoromethane	mg/kg	<0.19	<0.24	NA	<0.12	<0.033	NA	<0.047	<0.040	NA	<0.057
Vinyl Chloride	mg/kg	0.27	1.1	NA	0.22	0.27	NA	0.36	0.48	NA	2.0
Xylenes (total)	mg/kg	0.85	0.74	NA	0.20 J	0.065	NA	2.2	0.33	NA	<0.11
Volatile Organics-TCLP											
1,1-Dichloroethene	mg/L	<0.010	<0.010	NA	<0.050	<0.010	NA	<0.40	<0.050	NA	<0.020
1,2-Dichloroethane	mg/L	<0.010	<0.010	NA	<0.050	<0.010	NA	<0.40	<0.050	NA	<0.020
2-Butanone	mg/L	<0.050	<0.050	NA	<0.25	<0.050	NA	<2.0	<0.25	NA	<0.10
Benzene	mg/L	<0.010	<0.010	NA	<0.050	<0.010	NA	<0.40	<0.050	NA	<0.020
Carbon Tetrachloride	mg/L	<0.010	<0.010	NA	<0.050	<0.010	NA	<0.40	<0.050	NA	<0.020
Chlorobenzene	mg/L	<0.010	<0.010	NA	<0.050	<0.010	NA	<0.40	<0.050	NA	<0.020
Chloroform	mg/L	<0.010	<0.010	NA	<0.050	<0.010	NA	<0.40	<0.050	NA	<0.020
Tetrachloroethene	mg/L	<0.010	<0.010	NA	<0.050	<0.010	NA	<0.40	<0.050	NA	<0.020
Trichloroethene	mg/L	0.29	0.090	NA	0.65 B	<0.010	NA	4.2 B	0.25 B	NA	0.014 JB
Vinyl Chloride	mg/L	0.013	0.030	NA	<0.050	<0.010	NA	<0.40	<0.050	NA	<0.020
Semivolatile Organics-TCLP											
1,4-Dichlorobenzene	mg/L	NA	NA	<0.010	NA	NA	<0.010	NA	NA	<0.010	NA
2,4,5-Trichlorophenol	mg/L	NA	NA	<0.0050 *	NA	NA	<0.0050 *	NA	NA	<0.0050 *	NA
2,4,6-Trichlorophenol	mg/L	NA	NA	<0.0050 *	NA	NA	<0.0050 *	NA	NA	<0.0050 *	NA
2,4-Dinitrotoluene	mg/L	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
2-Methylphenol	mg/L	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
3&4-Methylphenol	mg/L	NA	NA	0.0088 J	NA	NA	0.0011 J	NA	NA	0.0010 J	NA
Hexachlorobenzene	mg/L	NA	NA	<0.0050 *	NA	NA	<0.0050 *	NA	NA	<0.0050 *	NA
Hexachlorobutadiene	mg/L	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
Hexachloroethane	mg/L	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
Nitrobenzene	mg/L	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
Pentachlorophenol	mg/L	NA	NA	<0.010	NA	NA	<0.010	NA	NA	<0.010	NA
Pyridine	mg/L	NA	NA	<0.025	NA	NA	<0.025	NA	NA	<0.025	NA
Organochlorine Pesticides-TCLP											
Endrin	mg/L	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA
Gamma-BHC (Lindane)	mg/L	NA	NA	0.000035 JB	NA	NA	<0.00020	NA	NA	0.000034 JB	NA
Heptachlor	mg/L	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA
Heptachlor Epoxide	mg/L	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA
Methoxychlor	mg/L	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA
Technical Chlordane	mg/L	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA
Toxaphene	mg/L	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA
Herbicides-TCLP											
2,4,5-TP	mg/L	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA
2,4-D	mg/L	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA

See Notes on Page 31.

11/14/2014

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Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-11-VOC-1 11/11/13	SP-11-VOC-2 11/11/13	SP-12-COMP 11/13/13	SP-12-VOC-1 11/13/13	SP-12-VOC-2 11/13/13	SP-13-COMP 11/13/13	SP-13-VOC-1 11/13/13	SP-13-VOC-2 11/13/13	SP-14-COMP 11/13/13	SP-14-VOC-1 11/13/13
Inorganics-TCLP											
Arsenic	mg/L	NA	NA	<0.500	NA	NA	<0.500	NA	NA	<0.500	NA
Barium	mg/L	NA	NA	0.290 J	NA	NA	0.0680 J	NA	NA	0.0320 J	NA
Cadmium	mg/L	NA	NA	<0.500	NA	NA	<0.500	NA	NA	0.00130 JB	NA
Chromium	mg/L	NA	NA	0.00750 J	NA	NA	<0.500	NA	NA	0.00710 J	NA
Copper	mg/L	NA	NA	<0.250	NA	NA	<0.250	NA	NA	<0.250	NA
Lead	mg/L	NA	NA	<0.500	NA	NA	<0.500	NA	NA	<0.500	NA
Mercury	mg/L	NA	NA	<0.000200	NA	NA	<0.000200	NA	NA	<0.000200	NA
Nickel	mg/L	NA	NA	0.0180 J	NA	NA	<0.400	NA	NA	0.0220 J	NA
Selenium	mg/L	NA	NA	<0.500	NA	NA	<0.500	NA	NA	0.0300 J	NA
Silver	mg/L	NA	NA	<0.500	NA	NA	<0.500	NA	NA	<0.500	NA
Zinc	mg/L	NA	NA	0.0720 J	NA	NA	0.130 J	NA	NA	0.0770 J	NA
PCBs											
Aroclor-1016	mg/kg	NA	NA	<0.29	NA	NA	<0.30	NA	NA	<0.28	NA
Aroclor-1221	mg/kg	NA	NA	<0.29	NA	NA	<0.30	NA	NA	<0.28	NA
Aroclor-1232	mg/kg	NA	NA	<0.29	NA	NA	<0.30	NA	NA	<0.28	NA
Aroclor-1242	mg/kg	NA	NA	<0.29	NA	NA	<0.30	NA	NA	<0.28	NA
Aroclor-1248	mg/kg	NA	NA	<0.29	NA	NA	<0.30	NA	NA	<0.28	NA
Aroclor-1254	mg/kg	NA	NA	<0.29	NA	NA	<0.30	NA	NA	<0.28	NA
Aroclor-1260	mg/kg	NA	NA	<0.29	NA	NA	<0.30	NA	NA	<0.28	NA
Total PCBs	mg/kg	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA
Miscellaneous											
Ammonia as NH ₃	mg/L	NA	NA	0.57	NA	NA	0.13	NA	NA	0.2	NA
Ammonia Nitrogen	mg/L	NA	NA	0.47	NA	NA	0.11	NA	NA	0.17	NA
Chemical Oxygen Demand	mg/L	NA	NA	44.9	NA	NA	21.6	NA	NA	25.4	NA
Corrosivity	SU	NA	NA	8.72	NA	NA	8.26	NA	NA	7.98	NA
Flashpoint	°F	NA	NA	>176	NA	NA	>176	NA	NA	>176	NA
Free Liquid	mL/100g	NA	NA	0	NA	NA	0	NA	NA	0	NA
Leachate pH	SU	NA	NA	NA	NA	NA	NA	NA	NA	5.3	NA
Oil & Grease	mg/kg	NA	NA	138	NA	NA	610	NA	NA	199	NA
Oil & Grease	mg/L	NA	NA	<99.9	NA	NA	<99.4	NA	NA	<99.7	NA
Reactive Cyanide	mg/kg	NA	NA	<10	NA	NA	<10	NA	NA	<10	NA
Reactive Sulfide	mg/kg	NA	NA	40.1	NA	NA	26	NA	NA	<10	NA
Total Solids	mg/L	NA	NA	287	NA	NA	144	NA	NA	239	NA
Total Volatile Solids	%	NA	NA	3.9	NA	NA	1.5	NA	NA	3.8	NA
Percent Solids Dry Weight											
Percent Moisture	%	17	31	31	17	20	34	17	24	26	41
Percent Solids	%	83	69	69	83	80	66	83	76	74	59

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-14-VOC-2 11/13/13	SP-15-COMP 11/14/13	SP-15-VOC-1 11/14/13	SP-15-VOC-2 11/14/13	SP-16-COMP 11/18/13	SP-16-VOC-1 11/18/13	SP-16-VOC-2 11/18/13	SP-17-COMP 11/18/13	SP-17-VOC-1 11/18/13	SP-17-VOC-2 11/18/13
Volatile Organics											
1,1,1-Trichloroethane	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
1,1,2,2-Tetrachloroethane	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	<0.053	NA	<0.25	<0.54 *	NA	<0.058	<0.057	NA	<0.055	<0.058
1,1,2-Trichloroethane	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
1,1-Dichloroethane	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
1,1-Dichloroethene	mg/kg	0.048 J	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
1,2,4-Trichlorobenzene	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
1,2-Dibromo-3-chloropropane	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
1,2-Dibromoethane	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
1,2-Dichlorobenzene	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
1,2-Dichloroethane	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
1,2-Dichloropropane	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
1,3-Dichlorobenzene	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
1,4-Dichlorobenzene	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
2-Butanone	mg/kg	<0.26	NA	<1.2	<2.7 *	NA	<0.29	<0.28	NA	<0.28	<0.29
2-Hexanone	mg/kg	<0.26	NA	<1.2	<2.7	NA	<0.29	<0.28	NA	<0.28	<0.29
4-Methyl-2-pentanone	mg/kg	<0.26	NA	<1.2	<2.7	NA	<0.29	<0.28	NA	<0.28	<0.29
Acetone	mg/kg	<0.26	NA	<1.2	<2.7	NA	<0.29	<0.28	NA	<0.28	<0.29
Benzene	mg/kg	0.098	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
Bromodichloromethane	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
Bromoform	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
Bromomethane	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
Carbon Disulfide	mg/kg	0.22	NA	0.73	2.0	NA	0.069	<0.057	NA	0.26	0.087
Carbon Tetrachloride	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
Chlorobenzene	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
Chloroethane	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
Chloroform	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
Chloromethane	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
cis-1,2-Dichloroethene	mg/kg	47	NA	5.5	6.2	NA	1.2	1.5	NA	1.1	1.5
cis-1,3-Dichloropropene	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
Cyclohexane	mg/kg	0.35	NA	<0.25	<0.54	NA	0.044 J	<0.057	NA	<0.055	<0.058
Dibromochloromethane	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
Dichlorodifluoromethane	mg/kg	<0.053	NA	<0.25	<0.54 *	NA	<0.058	<0.057	NA	<0.055	<0.058
Ethylbenzene	mg/kg	0.36	NA	<0.25	<0.54	NA	0.020 J	<0.057	NA	<0.055	<0.058
Isopropylbenzene	mg/kg	0.11	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
Methyl acetate	mg/kg	<0.053	NA	<0.25	<0.54	NA	0.39	0.034 J	NA	0.064	0.056 J
Methyl tert-butyl ether	mg/kg	0.93	NA	0.25	0.38 J	NA	0.068	0.069	NA	0.44	0.44
Methylcyclohexane	mg/kg	0.65	NA	<0.25	<0.54	NA	0.030 J	<0.057	NA	<0.055	<0.058
Methylene Chloride	mg/kg	13 B	NA	17	54	NA	0.52 B	0.42 B	NA	1.3	1.9
Styrene	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
Tetrachloroethene	mg/kg	0.014 J	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
Toluene	mg/kg	0.46	NA	<0.25	<0.54	NA	0.020 J	<0.057	NA	<0.055	<0.058
Total VOCs	mg/kg	77 J	NA	33 J	63 J	NA	6.5 J	5.1 J	NA	3.7	4.8 J

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-14-VOC-2 11/13/13	SP-15-COMP 11/14/13	SP-15-VOC-1 11/14/13	SP-15-VOC-2 11/14/13	SP-16-COMP 11/18/13	SP-16-VOC-1 11/18/13	SP-16-VOC-2 11/18/13	SP-17-COMP 11/18/13	SP-17-VOC-1 11/18/13	SP-17-VOC-2 11/18/13
Volatile Organics (Cont.)											
trans-1,2-Dichloroethene	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
trans-1,3-Dichloropropene	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
Trichloroethene	mg/kg	9.0	NA	9.5	0.46 J	NA	4.0	3.0	NA	0.54	0.12
Trichlorofluoromethane	mg/kg	<0.053	NA	<0.25	<0.54	NA	<0.058	<0.057	NA	<0.055	<0.058
Vinyl Chloride	mg/kg	2.9	NA	0.11 J	0.26 J	NA	0.053 J	0.065	NA	<0.055	0.72
Xylenes (total)	mg/kg	1.9	NA	<0.50	<1.1	NA	0.087 J	0.010 J	NA	<0.11	<0.12
Volatile Organics-TCLP											
1,1-Dichloroethene	mg/L	<0.040	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010
1,2-Dichloroethane	mg/L	<0.040	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010
2-Butanone	mg/L	<0.20	NA	<0.050	<0.050	NA	<0.050	<0.050	NA	<0.050	<0.050
Benzene	mg/L	<0.040	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010
Carbon Tetrachloride	mg/L	<0.040	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010
Chlorobenzene	mg/L	<0.040	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010
Chloroform	mg/L	<0.040	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010
Tetrachloroethene	mg/L	<0.040	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010
Trichloroethene	mg/L	0.50 B	NA	0.26 B	0.071 B	NA	0.18 B	0.11 B	NA	0.20 B	0.13 B
Vinyl Chloride	mg/L	<0.040	NA	<0.010	0.025	NA	<0.010	0.013	NA	<0.010	0.011
Semivolatile Organics-TCLP											
1,4-Dichlorobenzene	mg/L	NA	<0.010	NA	NA	<0.010	NA	NA	<0.010	NA	NA
2,4,5-Trichlorophenol	mg/L	NA	<0.0050 *	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA
2,4,6-Trichlorophenol	mg/L	NA	<0.0050 *	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA
2,4-Dinitrotoluene	mg/L	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA
2-Methylphenol	mg/L	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA
3&4-Methylphenol	mg/L	NA	<0.010	NA	NA	<0.010	NA	NA	<0.010	NA	NA
Hexachlorobenzene	mg/L	NA	<0.0050 *	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA
Hexachlorobutadiene	mg/L	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA
Hexachloroethane	mg/L	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA
Nitrobenzene	mg/L	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA
Pentachlorophenol	mg/L	NA	<0.010	NA	NA	<0.010	NA	NA	<0.010	NA	NA
Pyridine	mg/L	NA	<0.025	NA	NA	<0.025	NA	NA	<0.025	NA	NA
Organochlorine Pesticides-TCLP											
Endrin	mg/L	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA
Gamma-BHC (Lindane)	mg/L	NA	0.000035 JB	NA	NA	<0.00020	NA	NA	0.000035 J	NA	NA
Heptachlor	mg/L	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA
Heptachlor Epoxide	mg/L	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA
Methoxychlor	mg/L	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA
Technical Chlordane	mg/L	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA
Toxaphene	mg/L	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA
Herbicides-TCLP											
2,4,5-TP	mg/L	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA
2,4-D	mg/L	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA

See Notes on Page 31.

11/14/2014

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Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-14-VOC-2 11/13/13	SP-15-COMP 11/14/13	SP-15-VOC-1 11/14/13	SP-15-VOC-2 11/14/13	SP-16-COMP 11/18/13	SP-16-VOC-1 11/18/13	SP-16-VOC-2 11/18/13	SP-17-COMP 11/18/13	SP-17-VOC-1 11/18/13	SP-17-VOC-2 11/18/13
Inorganics-TCLP											
Arsenic	mg/L	NA	<0.500	NA	NA	<0.500	NA	NA	<0.500	NA	NA
Barium	mg/L	NA	0.0490 J	NA	NA	0.0980 J	NA	NA	0.0490 J	NA	NA
Cadmium	mg/L	NA	<0.500	NA	NA	0.00130 J	NA	NA	<0.500	NA	NA
Chromium	mg/L	NA	<0.500	NA	NA	<0.500	NA	NA	0.00950 J	NA	NA
Copper	mg/L	NA	<0.250	NA	NA	<0.250	NA	NA	<0.250	NA	NA
Lead	mg/L	NA	<0.500	NA	NA	0.0190 J	NA	NA	<0.500	NA	NA
Mercury	mg/L	NA	<0.000200	NA	NA	<0.000200	NA	NA	<0.000200	NA	NA
Nickel	mg/L	NA	<0.400	NA	NA	<0.400	NA	NA	<0.400	NA	NA
Selenium	mg/L	NA	<0.500	NA	NA	<0.500	NA	NA	<0.500	NA	NA
Silver	mg/L	NA	<0.500	NA	NA	<0.500	NA	NA	<0.500	NA	NA
Zinc	mg/L	NA	0.0500 J	NA	NA	0.130 J	NA	NA	0.0360 J	NA	NA
PCBs											
Aroclor-1016	mg/kg	NA	<0.25	NA	NA	<0.24	NA	NA	<0.21	NA	NA
Aroclor-1221	mg/kg	NA	<0.25	NA	NA	<0.24	NA	NA	<0.21	NA	NA
Aroclor-1232	mg/kg	NA	<0.25	NA	NA	<0.24	NA	NA	<0.21	NA	NA
Aroclor-1242	mg/kg	NA	<0.25	NA	NA	<0.24	NA	NA	<0.21	NA	NA
Aroclor-1248	mg/kg	NA	<0.25	NA	NA	<0.24	NA	NA	<0.21	NA	NA
Aroclor-1254	mg/kg	NA	<0.25	NA	NA	<0.24	NA	NA	<0.21	NA	NA
Aroclor-1260	mg/kg	NA	<0.25	NA	NA	<0.24	NA	NA	<0.21	NA	NA
Total PCBs	mg/kg	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA
Miscellaneous											
Ammonia as NH ₃	mg/L	NA	0.03	NA	NA	0.093 B	NA	NA	0.073 B	NA	NA
Ammonia Nitrogen	mg/L	NA	0.025	NA	NA	0.077 B	NA	NA	0.06 B	NA	NA
Chemical Oxygen Demand	mg/L	NA	<10	NA	NA	51.5	NA	NA	36.1	NA	NA
Corrosivity	SU	NA	7.97	NA	NA	9.87	NA	NA	9.43	NA	NA
Flashpoint	°F	NA	>176	NA	NA	>176	NA	NA	>176	NA	NA
Free Liquid	mL/100g	NA	0	NA	NA	0	NA	NA	0	NA	NA
Leachate pH	SU	NA	5.2	NA	NA	5.2	NA	NA	5.17	NA	NA
Oil & Grease	mg/kg	NA	183	NA	NA	210	NA	NA	182	NA	NA
Oil & Grease	mg/L	NA	91.9 J	NA	NA	<99.6	NA	NA	<99.4	NA	NA
Reactive Cyanide	mg/kg	NA	<10	NA	NA	<10	NA	NA	<10	NA	NA
Reactive Sulfide	mg/kg	NA	<10	NA	NA	2 J	NA	NA	<10	NA	NA
Total Solids	mg/L	NA	387	NA	NA	318	NA	NA	321	NA	NA
Total Volatile Solids	%	NA	3.4	NA	NA	3.1	NA	NA	2.9	NA	NA
Percent Solids Dry Weight											
Percent Moisture	%	23	NA	5.3	6.8	NA	21	21	NA	19	23
Percent Solids	%	77	93	95	93	92	79	79	93	81	77

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:		SP-18-COMP	SP-18-VOC-1	SP-18-VOC-2	SP-19-COMP	SP-19-VOC-1	SP-19-VOC-2	SP-20-COMP	SP-20-VOC-1	SP-20-VOC-2	SP-21-COMP
	Units	11/18/13	11/18/13	11/18/13	11/18/13	11/18/13	11/18/13	11/21/13	11/21/13	11/21/13	11/20/13
Volatile Organics											
1,1,1-Trichloroethane	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
1,1,2,2-Tetrachloroethane	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
1,1,2-Trichloroethane	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
1,1-Dichloroethane	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
1,1-Dichloroethene	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
1,2,4-Trichlorobenzene	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
1,2-Dibromo-3-chloropropane	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
1,2-Dibromoethane	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
1,2-Dichlorobenzene	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
1,2-Dichloroethane	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
1,2-Dichloropropane	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
1,3-Dichlorobenzene	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
1,4-Dichlorobenzene	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
2-Butanone	mg/kg	NA	<0.28	<0.25	NA	<0.30	<0.26	NA	<0.31	<0.28	NA
2-Hexanone	mg/kg	NA	<0.28	<0.25	NA	<0.30	<0.26	NA	<0.31	<0.28	NA
4-Methyl-2-pentanone	mg/kg	NA	<0.28	<0.25	NA	<0.30	<0.26	NA	<0.31	<0.28	NA
Acetone	mg/kg	NA	<0.28	<0.25	NA	<0.30	<0.26	NA	<0.31	<0.28	NA
Benzene	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	0.010 J	<0.055	NA
Bromodichloromethane	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
Bromoform	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
Bromomethane	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
Carbon Disulfide	mg/kg	NA	0.44	<0.050	NA	0.36	<0.053	NA	0.047 J	0.033 J	NA
Carbon Tetrachloride	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
Chlorobenzene	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
Chloroethane	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
Chloroform	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
Chloromethane	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
cis-1,2-Dichloroethene	mg/kg	NA	2.0	0.082	NA	2.3	0.24	NA	0.88	0.54	NA
cis-1,3-Dichloropropene	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
Cyclohexane	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
Dibromochloromethane	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
Dichlorodifluoromethane	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
Ethylbenzene	mg/kg	NA	<0.055	<0.050	NA	<0.060	1.8	NA	0.27	0.15	NA
Isopropylbenzene	mg/kg	NA	<0.055	<0.050	NA	<0.060	1.2	NA	0.14	0.072	NA
Methyl acetate	mg/kg	NA	<0.055	0.025 J	NA	0.046 J	<0.053	NA	1.3	1.1	NA
Methyl tert-butyl ether	mg/kg	NA	0.41	0.18	NA	0.59	0.040 J	NA	0.10	0.099	NA
Methylcyclohexane	mg/kg	NA	<0.055	<0.050	NA	<0.060	2.2	NA	0.25	0.18	NA
Methylene Chloride	mg/kg	NA	16	0.19	NA	2.5	0.32	NA	0.17	0.066	NA
Styrene	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
Tetrachloroethene	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
Toluene	mg/kg	NA	<0.055	<0.050	NA	0.025 J	0.033 J	NA	<0.063	0.019 J	NA
Total VOCs	mg/kg	NA	19	0.72 J	NA	7.7 J	15 J	NA	4.3 J	4.3 J	NA

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-18-COMP 11/18/13	SP-18-VOC-1 11/18/13	SP-18-VOC-2 11/18/13	SP-19-COMP 11/18/13	SP-19-VOC-1 11/18/13	SP-19-VOC-2 11/18/13	SP-20-COMP 11/21/13	SP-20-VOC-1 11/21/13	SP-20-VOC-2 11/21/13	SP-21-COMP 11/20/13
Volatile Organics (Cont.)											
trans-1,2-Dichloroethene	mg/kg	NA	<0.055	<0.050	NA	0.023 J	<0.053	NA	<0.063	<0.055	NA
trans-1,3-Dichloropropene	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
Trichloroethene	mg/kg	NA	0.077	0.24	NA	1.7	0.86	NA	0.45	1.5	NA
Trichlorofluoromethane	mg/kg	NA	<0.055	<0.050	NA	<0.060	<0.053	NA	<0.063	<0.055	NA
Vinyl Chloride	mg/kg	NA	0.30	<0.050	NA	0.17	<0.053	NA	0.13	0.18	NA
Xylenes (total)	mg/kg	NA	<0.11	<0.10	NA	0.015 J	8.1	NA	0.56	0.40	NA
Volatile Organics-TCLP											
1,1-Dichloroethene	mg/L	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA
1,2-Dichloroethane	mg/L	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA
2-Butanone	mg/L	NA	<0.050	<0.050	NA	<0.050	<0.050	NA	<0.050	<0.050	NA
Benzene	mg/L	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA
Carbon Tetrachloride	mg/L	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA
Chlorobenzene	mg/L	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA
Chloroform	mg/L	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA
Tetrachloroethene	mg/L	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA
Trichloroethene	mg/L	NA	0.034 B	0.10 B	NA	0.024 B	0.026 B	NA	0.011	0.38	NA
Vinyl Chloride	mg/L	NA	<0.010	0.012	NA	<0.010	<0.010	NA	0.023	<0.010	NA
Semivolatile Organics-TCLP											
1,4-Dichlorobenzene	mg/L	<0.010	NA	NA	<0.010	NA	NA	<0.010	NA	NA	<0.010
2,4,5-Trichlorophenol	mg/L	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050
2,4,6-Trichlorophenol	mg/L	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050
2,4-Dinitrotoluene	mg/L	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050
2-Methylphenol	mg/L	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050
3&4-Methylphenol	mg/L	<0.010	NA	NA	0.00059 J	NA	NA	0.0018 J	NA	NA	0.0045 J
Hexachlorobenzene	mg/L	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050
Hexachlorobutadiene	mg/L	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050
Hexachloroethane	mg/L	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050
Nitrobenzene	mg/L	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050
Pentachlorophenol	mg/L	<0.010	NA	NA	<0.010	NA	NA	<0.010	NA	NA	<0.010
Pyridine	mg/L	<0.025	NA	NA	<0.025	NA	NA	<0.025	NA	NA	<0.025
Organochlorine Pesticides-TCLP											
Endrin	mg/L	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020
Gamma-BHC (Lindane)	mg/L	0.000035 J	NA	NA	0.000036 J	NA	NA	0.000034 JB	NA	NA	<0.00020
Heptachlor	mg/L	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020
Heptachlor Epoxide	mg/L	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020
Methoxychlor	mg/L	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020
Technical Chlordane	mg/L	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020
Toxaphene	mg/L	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020
Herbicides-TCLP											
2,4,5-TP	mg/L	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020
2,4-D	mg/L	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020

See Notes on Page 31.

11/14/2014

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Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-18-COMP 11/18/13	SP-18-VOC-1 11/18/13	SP-18-VOC-2 11/18/13	SP-19-COMP 11/18/13	SP-19-VOC-1 11/18/13	SP-19-VOC-2 11/18/13	SP-20-COMP 11/21/13	SP-20-VOC-1 11/21/13	SP-20-VOC-2 11/21/13	SP-21-COMP 11/20/13
Inorganics-TCLP											
Arsenic	mg/L	0.0290 J	NA	NA	<0.500	NA	NA	<0.500	NA	NA	<0.500
Barium	mg/L	0.0710 J	NA	NA	0.0340 J	NA	NA	0.180 J	NA	NA	0.120 J
Cadmium	mg/L	<0.500	NA	NA	<0.500	NA	NA	0.00130 JB	NA	NA	<0.500
Chromium	mg/L	<0.500	NA	NA	<0.500	NA	NA	<0.500	NA	NA	<0.500
Copper	mg/L	<0.250	NA	NA	<0.250	NA	NA	<0.250	NA	NA	<0.250
Lead	mg/L	0.0290 J	NA	NA	<0.500	NA	NA	<0.500	NA	NA	<0.500
Mercury	mg/L	<0.000200	NA	NA	<0.000200	NA	NA	<0.000200	NA	NA	<0.000200
Nickel	mg/L	<0.400	NA	NA	<0.400	NA	NA	0.0180 J	NA	NA	0.0160 J
Selenium	mg/L	0.0330 J	NA	NA	<0.500	NA	NA	<0.500	NA	NA	<0.500
Silver	mg/L	<0.500	NA	NA	<0.500	NA	NA	<0.500	NA	NA	<0.500
Zinc	mg/L	0.0670 J	NA	NA	0.0380 J	NA	NA	0.0960 JB	NA	NA	<0.200
PCBs											
Aroclor-1016	mg/kg	<0.21	NA	NA	<0.18	NA	NA	<0.27	NA	NA	<0.26
Aroclor-1221	mg/kg	<0.21	NA	NA	<0.18	NA	NA	<0.27	NA	NA	<0.26
Aroclor-1232	mg/kg	<0.21	NA	NA	<0.18	NA	NA	<0.27	NA	NA	<0.26
Aroclor-1242	mg/kg	<0.21	NA	NA	<0.18	NA	NA	<0.27	NA	NA	<0.26
Aroclor-1248	mg/kg	<0.21	NA	NA	<0.18	NA	NA	<0.27	NA	NA	<0.26
Aroclor-1254	mg/kg	<0.21	NA	NA	<0.18	NA	NA	<0.27	NA	NA	<0.26
Aroclor-1260	mg/kg	<0.21	NA	NA	<0.18	NA	NA	<0.27	NA	NA	<0.26
Total PCBs	mg/kg	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND
Miscellaneous											
Ammonia as NH ₃	mg/L	0.098 B	NA	NA	0.083 B	NA	NA	1.4	NA	NA	0.36
Ammonia Nitrogen	mg/L	0.081 B	NA	NA	0.068 B	NA	NA	1.2	NA	NA	0.29
Chemical Oxygen Demand	mg/L	49.3	NA	NA	29.5	NA	NA	75.8	NA	NA	39.2
Corrosivity	SU	8.6	NA	NA	8.26	NA	NA	9.67	NA	NA	9.04
Flashpoint	°F	>176	NA	NA	>176	NA	NA	>176	NA	NA	>176
Free Liquid	mL/100g	0	NA	NA	0	NA	NA	0	NA	NA	0
Leachate pH	SU	5.2	NA	NA	5.27	NA	NA	5.29	NA	NA	5.41
Oil & Grease	mg/kg	329	NA	NA	352	NA	NA	504	NA	NA	226
Oil & Grease	mg/L	<98.7	NA	NA	<99.6	NA	NA	37.9 J	NA	NA	<99.9
Reactive Cyanide	mg/kg	<10	NA	NA	<10	NA	NA	<10	NA	NA	<10
Reactive Sulfide	mg/kg	10	NA	NA	6 J	NA	NA	4 J	NA	NA	40.1
Total Solids	mg/L	264	NA	NA	385	NA	NA	397	NA	NA	327
Total Volatile Solids	%	3.1	NA	NA	2.9	NA	NA	6.4	NA	NA	4.2
Percent Solids Dry Weight											
Percent Moisture	%	NA	25	17	NA	20	15	NA	35	28	NA
Percent Solids	%	91	75	83	92	80	85	70	65	72	75

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-21-VOC-1 11/20/13	SP-21-VOC-2 11/20/13	SP-22-COMP 11/20/13	SP-22-VOC-1 11/20/13	SP-22-VOC-2 11/20/13	SP-23-COMP 11/21/13	SP-23-VOC-1 11/21/13	SP-23-VOC-2 11/21/13	SP-24-COMP 11/22/13	SP-24-VOC-1 11/22/13
Volatile Organics											
1,1,1-Trichloroethane	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
1,1,2,2-Tetrachloroethane	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
1,1,2-Trichloroethane	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
1,1-Dichloroethane	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
1,1-Dichloroethene	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
1,2,4-Trichlorobenzene	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
1,2-Dibromo-3-chloropropane	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
1,2-Dibromoethane	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
1,2-Dichlorobenzene	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
1,2-Dichloroethane	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
1,2-Dichloropropane	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
1,3-Dichlorobenzene	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
1,4-Dichlorobenzene	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
2-Butanone	mg/kg	<0.31	<0.22	NA	<0.29	<0.31	NA	<0.32	<0.32	NA	<0.32
2-Hexanone	mg/kg	<0.31	<0.22	NA	<0.29	<0.31	NA	<0.32	<0.32	NA	<0.32
4-Methyl-2-pentanone	mg/kg	<0.31	<0.22	NA	<0.29	<0.31	NA	<0.32	<0.32	NA	<0.32
Acetone	mg/kg	<0.31	<0.22	NA	<0.29	<0.31	NA	<0.32	<0.32	NA	<0.32
Benzene	mg/kg	0.025 J	<0.043	NA	0.021 J	0.051 J	NA	<0.063	0.039 J	NA	<0.064
Bromodichloromethane	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
Bromoform	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
Bromomethane	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
Carbon Disulfide	mg/kg	0.059 J	0.045	NA	<0.059	0.029 J	NA	0.26	0.058 J	NA	0.031 J
Carbon Tetrachloride	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
Chlorobenzene	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
Chloroethane	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
Chloroform	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
Chloromethane	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
cis-1,2-Dichloroethene	mg/kg	0.73	0.047	NA	0.30	0.44	NA	5.9	4.1	NA	2.0
cis-1,3-Dichloropropene	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
Cyclohexane	mg/kg	0.086	0.037 J	NA	0.058 J	0.069	NA	0.073	0.086	NA	0.059 J
Dibromochloromethane	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
Dichlorodifluoromethane	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
Ethylbenzene	mg/kg	0.039 J	<0.043	NA	0.022 J	0.047 J	NA	0.039 J	0.082	NA	0.027 J
Isopropylbenzene	mg/kg	0.012 J	<0.043	NA	<0.059	0.011 J	NA	0.014 J	0.024 J	NA	<0.064
Methyl acetate	mg/kg	0.35	0.051	NA	1.1	2.1	NA	0.045 J	0.065	NA	0.35
Methyl tert-butyl ether	mg/kg	0.67	0.23	NA	0.76	1.7	NA	0.27	0.37	NA	0.040 J
Methylcyclohexane	mg/kg	0.093	0.039 J	NA	0.069	0.079	NA	0.078	0.096	NA	0.057 J
Methylene Chloride	mg/kg	0.25	0.088	NA	0.46	0.96	NA	7.6	0.099	NA	0.14
Styrene	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
Tetrachloroethene	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
Toluene	mg/kg	0.051 J	<0.043	NA	0.031 J	0.089	NA	<0.063	0.081	NA	0.019 J
Total VOCs	mg/kg	3.8 J	0.90 J	NA	4.9 J	9.9 J	NA	18 J	7.8 J	NA	8.7 J

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-21-VOC-1 11/20/13	SP-21-VOC-2 11/20/13	SP-22-COMP 11/20/13	SP-22-VOC-1 11/20/13	SP-22-VOC-2 11/20/13	SP-23-COMP 11/21/13	SP-23-VOC-1 11/21/13	SP-23-VOC-2 11/21/13	SP-24-COMP 11/22/13	SP-24-VOC-1 11/22/13
Volatile Organics (Cont.)											
trans-1,2-Dichloroethene	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	0.096	<0.063	NA	0.047 J
trans-1,3-Dichloropropene	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
Trichloroethene	mg/kg	0.68	0.13	NA	1.4	1.2	NA	0.27	0.25	NA	5.9
Trichlorofluoromethane	mg/kg	<0.063	<0.043	NA	<0.059	<0.063	NA	<0.063	<0.063	NA	<0.064
Vinyl Chloride	mg/kg	0.63	0.23	NA	0.61	2.9	NA	2.8	2.2	NA	<0.064
Xylenes (total)	mg/kg	0.13	<0.087	NA	0.068 J	0.19	NA	0.11 J	0.28	NA	0.022 J
Volatile Organics-TCLP											
1,1-Dichloroethene	mg/L	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010
1,2-Dichloroethane	mg/L	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010
2-Butanone	mg/L	<0.050	<0.050	NA	<0.050	<0.050	NA	<0.050	<0.050	NA	<0.050
Benzene	mg/L	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010
Carbon Tetrachloride	mg/L	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010
Chlorobenzene	mg/L	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010
Chloroform	mg/L	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010
Tetrachloroethene	mg/L	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010
Trichloroethene	mg/L	0.020	0.021	NA	0.027	0.0061 J	NA	0.014	0.0078 J	NA	0.63
Vinyl Chloride	mg/L	<0.010	0.024	NA	0.0099 J	<0.010	NA	0.088	0.020	NA	<0.010
Semivolatile Organics-TCLP											
1,4-Dichlorobenzene	mg/L	NA	NA	<0.010	NA	NA	<0.010	NA	NA	<0.010	NA
2,4,5-Trichlorophenol	mg/L	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
2,4,6-Trichlorophenol	mg/L	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
2,4-Dinitrotoluene	mg/L	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
2-Methylphenol	mg/L	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
3&4-Methylphenol	mg/L	NA	NA	<0.010	NA	NA	<0.010	NA	NA	0.0011 J	NA
Hexachlorobenzene	mg/L	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
Hexachlorobutadiene	mg/L	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
Hexachloroethane	mg/L	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
Nitrobenzene	mg/L	NA	NA	<0.0050	NA	NA	<0.0050	NA	NA	<0.0050	NA
Pentachlorophenol	mg/L	NA	NA	<0.010	NA	NA	<0.010	NA	NA	<0.010	NA
Pyridine	mg/L	NA	NA	<0.025	NA	NA	<0.025	NA	NA	<0.025	NA
Organochlorine Pesticides-TCLP											
Endrin	mg/L	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA
Gamma-BHC (Lindane)	mg/L	NA	NA	0.000036 JB	NA	NA	0.000045 JB	NA	NA	<0.00020	NA
Heptachlor	mg/L	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA
Heptachlor Epoxide	mg/L	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA
Methoxychlor	mg/L	NA	NA	<0.00020	NA	NA	<0.00020	NA	NA	<0.00020	NA
Technical Chlordane	mg/L	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA
Toxaphene	mg/L	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA
Herbicides-TCLP											
2,4,5-TP	mg/L	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA
2,4-D	mg/L	NA	NA	<0.0020	NA	NA	<0.0020	NA	NA	<0.0020	NA

See Notes on Page 31.

11/14/2014

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Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-21-VOC-1 11/20/13	SP-21-VOC-2 11/20/13	SP-22-COMP 11/20/13	SP-22-VOC-1 11/20/13	SP-22-VOC-2 11/20/13	SP-23-COMP 11/21/13	SP-23-VOC-1 11/21/13	SP-23-VOC-2 11/21/13	SP-24-COMP 11/22/13	SP-24-VOC-1 11/22/13
Inorganics-TCLP											
Arsenic	mg/L	NA	NA	<0.500	NA	NA	<0.500	NA	NA	<0.500	NA
Barium	mg/L	NA	NA	0.200 J	NA	NA	0.210 J	NA	NA	0.110 J	NA
Cadmium	mg/L	NA	NA	<0.500	NA	NA	<0.500	NA	NA	<0.500	NA
Chromium	mg/L	NA	NA	0.00690 J	NA	NA	0.00950 J	NA	NA	<0.500	NA
Copper	mg/L	NA	NA	<0.250	NA	NA	<0.250	NA	NA	<0.250	NA
Lead	mg/L	NA	NA	<0.500	NA	NA	<0.500	NA	NA	0.0410 J	NA
Mercury	mg/L	NA	NA	<0.000200	NA	NA	<0.000200	NA	NA	<0.000200	NA
Nickel	mg/L	NA	NA	0.0280 J	NA	NA	<0.400	NA	NA	<0.400	NA
Selenium	mg/L	NA	NA	<0.500	NA	NA	<0.500	NA	NA	0.0320 J	NA
Silver	mg/L	NA	NA	<0.500	NA	NA	<0.500	NA	NA	<0.500	NA
Zinc	mg/L	NA	NA	0.0590 J	NA	NA	0.100 JB	NA	NA	0.0680 J	NA
PCBs											
Aroclor-1016	mg/kg	NA	NA	<0.26	NA	NA	<0.31	NA	NA	<0.29	NA
Aroclor-1221	mg/kg	NA	NA	<0.26	NA	NA	<0.31	NA	NA	<0.29	NA
Aroclor-1232	mg/kg	NA	NA	<0.26	NA	NA	<0.31	NA	NA	<0.29	NA
Aroclor-1242	mg/kg	NA	NA	<0.26	NA	NA	<0.31	NA	NA	<0.29	NA
Aroclor-1248	mg/kg	NA	NA	<0.26	NA	NA	<0.31	NA	NA	<0.29	NA
Aroclor-1254	mg/kg	NA	NA	<0.26	NA	NA	<0.31	NA	NA	<0.29	NA
Aroclor-1260	mg/kg	NA	NA	<0.26	NA	NA	<0.31	NA	NA	<0.29	NA
Total PCBs	mg/kg	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA
Miscellaneous											
Ammonia as NH ₃	mg/L	NA	NA	0.78	NA	NA	1.4	NA	NA	0.33	NA
Ammonia Nitrogen	mg/L	NA	NA	0.64	NA	NA	1.2	NA	NA	0.27	NA
Chemical Oxygen Demand	mg/L	NA	NA	69.8	NA	NA	79.9	NA	NA	49	NA
Corrosivity	SU	NA	NA	11	NA	NA	10.1	NA	NA	9.94	NA
Flashpoint	°F	NA	NA	>176	NA	NA	>176	NA	NA	>176	NA
Free Liquid	mL/100g	NA	NA	0	NA	NA	0	NA	NA	0	NA
Leachate pH	SU	NA	NA	5.12	NA	NA	5.34	NA	NA	NA	NA
Oil & Grease	mg/kg	NA	NA	154	NA	NA	209	NA	NA	490	NA
Oil & Grease	mg/L	NA	NA	65.9 J	NA	NA	28 J	NA	NA	<99.6	NA
Reactive Cyanide	mg/kg	NA	NA	<10	NA	NA	<10	NA	NA	<10	NA
Reactive Sulfide	mg/kg	NA	NA	8 J	NA	NA	100	NA	NA	<10	NA
Total Solids	mg/L	NA	NA	398	NA	NA	397	NA	NA	267	NA
Total Volatile Solids	%	NA	NA	3.4	NA	NA	4.1	NA	NA	4.7	NA
Percent Solids Dry Weight											
Percent Moisture	%	NA	NA	NA	NA	NA	NA	38	39	NA	28
Percent Solids	%	86	86	89	71	70	64	62	61	74	72

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-24-VOC-2 11/22/13	SP-24-VOC-3 11/22/13	SP-25-COMP 11/25/13	SP-25-VOC-1 11/25/13	SP-25-VOC-2 11/25/13	SP-25-VOC-3 11/25/13	AMW-5 2 - 3 07/02/14	AMW-5 4 - 5 07/02/14	AMW-5 5 - 6 07/02/14	AMW-5 COMP -- 07/02/14
Volatile Organics											
1,1,1-Trichloroethane	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
1,1,2,2-Tetrachloroethane	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
1,1,2-Trichloroethane	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
1,1-Dichloroethane	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
1,1-Dichloroethene	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
1,2,4-Trichlorobenzene	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
1,2-Dibromo-3-chloropropane	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
1,2-Dibromoethane	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
1,2-Dichlorobenzene	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
1,2-Dichloroethane	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
1,2-Dichloropropane	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
1,3-Dichlorobenzene	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
1,4-Dichlorobenzene	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
2-Butanone	mg/kg	<0.32	<0.36	NA	<0.28	<0.93	<0.23	0.0034 J	0.0065 J	0.0086 J	NA
2-Hexanone	mg/kg	<0.32	<0.36	NA	<0.28	<0.93	<0.23	<0.022	<0.018	<0.021	NA
4-Methyl-2-pentanone	mg/kg	<0.32	<0.36	NA	<0.28	<0.93	<0.23	<0.022	<0.018	<0.021	NA
Acetone	mg/kg	<0.32	<0.36	NA	<0.28	<0.93	<0.23	0.039	0.057	0.067	NA
Benzene	mg/kg	0.027 J	0.029 J	NA	0.056 J	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
Bromodichloromethane	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
Bromoform	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
Bromomethane	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
Carbon Disulfide	mg/kg	0.44	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
Carbon Tetrachloride	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
Chlorobenzene	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
Chloroethane	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
Chloroform	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
Chloromethane	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
cis-1,2-Dichloroethene	mg/kg	1.2	1.9	NA	<0.057	0.15 J	0.098	<0.0044	<0.0035	<0.0041	NA
cis-1,3-Dichloropropene	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
Cyclohexane	mg/kg	<0.064	0.13	NA	0.041 J	<0.19	<0.047	<0.0044	0.0091	0.0064	NA
Dibromochloromethane	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
Dichlorodifluoromethane	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
Ethylbenzene	mg/kg	0.028 J	0.027 J	NA	0.066	<0.19	0.025 J	<0.0044	<0.0035	<0.0041	NA
Isopropylbenzene	mg/kg	<0.064	0.014 J	NA	0.011 J	<0.19	0.0088 J	0.0022 J	0.0017 J	0.0021 J	NA
Methyl acetate	mg/kg	0.056 J	1.0	NA	0.79	2.2	0.92	<0.0044	<0.0035	<0.0041	NA
Methyl tert-butyl ether	mg/kg	0.48	0.74	NA	<0.057	0.078 J	<0.047	<0.0044	<0.0035	<0.0041	NA
Methylcyclohexane	mg/kg	0.054 J	0.065 J	NA	0.051 J	<0.19	<0.047	0.00093 J	0.023	0.022	NA
Methylene Chloride	mg/kg	1.9	4.2	NA	<0.057	0.049 J	<0.047	<0.0044	<0.0035	<0.0041	NA
Styrene	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
Tetrachloroethene	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
Toluene	mg/kg	0.066	0.033 J	NA	0.15	0.070 J	0.013 J	<0.0044	<0.0035	<0.0041	NA
Total VOCs	mg/kg	4.7 J	10 J	NA	1.6 J	3.0 J	1.4 J	0.046 J	0.097 J	0.11 J	NA

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-24-VOC-2 11/22/13	SP-24-VOC-3 11/22/13	SP-25-COMP 11/25/13	SP-25-VOC-1 11/25/13	SP-25-VOC-2 11/25/13	SP-25-VOC-3 11/25/13	AMW-5 2 - 3 07/02/14	AMW-5 4 - 5 07/02/14	AMW-5 5 - 6 07/02/14	AMW-5 COMP -- 07/02/14
Volatile Organics (Cont.)											
trans-1,2-Dichloroethene	mg/kg	0.024 J	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
trans-1,3-Dichloropropene	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
Trichloroethene	mg/kg	0.23	1.3	NA	0.087	0.31	0.24	<0.0044	<0.0035	<0.0041	NA
Trichlorofluoromethane	mg/kg	<0.064	<0.072	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
Vinyl Chloride	mg/kg	0.065	0.56	NA	<0.057	<0.19	<0.047	<0.0044	<0.0035	<0.0041	NA
Xylenes (total)	mg/kg	0.093 J	0.088 J	NA	0.35	0.15 J	0.059 J	<0.0088	<0.0071	<0.0082	NA
Volatile Organics-TCLP											
1,1-Dichloroethene	mg/L	<0.010	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA
1,2-Dichloroethane	mg/L	<0.010	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA
2-Butanone	mg/L	<0.050	<0.050	NA	<0.050 *	<0.050 *	<0.050 *	<0.050	<0.050	<0.050	NA
Benzene	mg/L	<0.010	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA
Carbon Tetrachloride	mg/L	<0.010	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA
Chlorobenzene	mg/L	<0.010	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA
Chloroform	mg/L	<0.010	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA
Tetrachloroethene	mg/L	<0.010	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA
Trichloroethene	mg/L	0.019	0.079	NA	<0.010	<0.010	0.0063 JB	<0.010	<0.010	<0.010	NA
Vinyl Chloride	mg/L	0.031	0.014	NA	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA
Semivolatile Organics-TCLP											
1,4-Dichlorobenzene	mg/L	NA	NA	<0.010	NA	NA	NA	NA	NA	NA	<0.0040
2,4,5-Trichlorophenol	mg/L	NA	NA	<0.0050	NA	NA	NA	NA	NA	NA	<0.020
2,4,6-Trichlorophenol	mg/L	NA	NA	<0.0050	NA	NA	NA	NA	NA	NA	<0.020
2,4-Dinitrotoluene	mg/L	NA	NA	<0.0050	NA	NA	NA	NA	NA	NA	<0.020
2-Methylphenol	mg/L	NA	NA	<0.0050	NA	NA	NA	NA	NA	NA	<0.0040
3&4-Methylphenol	mg/L	NA	NA	<0.010	NA	NA	NA	NA	NA	NA	<0.040
Hexachlorobenzene	mg/L	NA	NA	<0.0050	NA	NA	NA	NA	NA	NA	<0.020
Hexachlorobutadiene	mg/L	NA	NA	<0.0050	NA	NA	NA	NA	NA	NA	<0.020
Hexachloroethane	mg/L	NA	NA	<0.0050	NA	NA	NA	NA	NA	NA	<0.020
Nitrobenzene	mg/L	NA	NA	<0.0050	NA	NA	NA	NA	NA	NA	<0.0040
Pentachlorophenol	mg/L	NA	NA	<0.010	NA	NA	NA	NA	NA	NA	<0.040
Pyridine	mg/L	NA	NA	<0.025	NA	NA	NA	NA	NA	NA	<0.020
Organochlorine Pesticides-TCLP											
Endrin	mg/L	NA	NA	<0.00020	NA	NA	NA	NA	NA	NA	<0.00020
Gamma-BHC (Lindane)	mg/L	NA	NA	<0.00020	NA	NA	NA	NA	NA	NA	<0.00020
Heptachlor	mg/L	NA	NA	<0.00020	NA	NA	NA	NA	NA	NA	<0.00020
Heptachlor Epoxide	mg/L	NA	NA	<0.00020	NA	NA	NA	NA	NA	NA	<0.00020
Methoxychlor	mg/L	NA	NA	<0.00020	NA	NA	NA	NA	NA	NA	<0.00020
Technical Chlordane	mg/L	NA	NA	<0.0020	NA	NA	NA	NA	NA	NA	<0.0020
Toxaphene	mg/L	NA	NA	<0.0020	NA	NA	NA	NA	NA	NA	<0.0020
Herbicides-TCLP											
2,4,5-TP	mg/L	NA	NA	<0.0020	NA	NA	NA	NA	NA	NA	<0.0020
2,4-D	mg/L	NA	NA	<0.0020	NA	NA	NA	NA	NA	NA	<0.0020

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	SP-24-VOC-2 11/22/13	SP-24-VOC-3 11/22/13	SP-25-COMP 11/25/13	SP-25-VOC-1 11/25/13	SP-25-VOC-2 11/25/13	SP-25-VOC-3 11/25/13	AMW-5 2 - 3 07/02/14	AMW-5 4 - 5 07/02/14	AMW-5 5 - 6 07/02/14	AMW-5 COMP -- 07/02/14
Inorganics-TCLP											
Arsenic	mg/L	NA	NA	<0.500	NA	NA	NA	NA	NA	NA	0.0250
Barium	mg/L	NA	NA	0.390 JB	NA	NA	NA	NA	NA	NA	0.450 B
Cadmium	mg/L	NA	NA	<0.500	NA	NA	NA	NA	NA	NA	0.0140
Chromium	mg/L	NA	NA	<0.500	NA	NA	NA	NA	NA	NA	0.0120 B
Copper	mg/L	NA	NA	<0.250	NA	NA	NA	NA	NA	NA	0.0600 B
Lead	mg/L	NA	NA	0.0390 J	NA	NA	NA	NA	NA	NA	0.200
Mercury	mg/L	NA	NA	<0.000200	NA	NA	NA	NA	NA	NA	<0.000200
Nickel	mg/L	NA	NA	0.0320 J	NA	NA	NA	NA	NA	NA	0.0150
Selenium	mg/L	NA	NA	<0.500	NA	NA	NA	NA	NA	NA	<0.0250
Silver	mg/L	NA	NA	<0.500	NA	NA	NA	NA	NA	NA	<0.00600
Zinc	mg/L	NA	NA	0.320	NA	NA	NA	NA	NA	NA	0.380 B
PCBs											
Aroclor-1016	mg/kg	NA	NA	<0.28	NA	NA	NA	NA	NA	NA	<0.23
Aroclor-1221	mg/kg	NA	NA	<0.28	NA	NA	NA	NA	NA	NA	<0.23
Aroclor-1232	mg/kg	NA	NA	<0.28	NA	NA	NA	NA	NA	NA	<0.23
Aroclor-1242	mg/kg	NA	NA	<0.28	NA	NA	NA	NA	NA	NA	<0.23
Aroclor-1248	mg/kg	NA	NA	<0.28	NA	NA	NA	NA	NA	NA	<0.23
Aroclor-1254	mg/kg	NA	NA	<0.28	NA	NA	NA	NA	NA	NA	<0.23
Aroclor-1260	mg/kg	NA	NA	<0.28	NA	NA	NA	NA	NA	NA	<0.23
Total PCBs	mg/kg	NA	NA	ND	NA	NA	NA	NA	NA	NA	ND
Miscellaneous											
Ammonia as NH ₃	mg/L	NA	NA	0.13	NA	NA	NA				
Ammonia Nitrogen	mg/L	NA	NA	0.1	NA	NA	NA	NA	NA	NA	0.33 B
Chemical Oxygen Demand	mg/L	NA	NA	15.9	NA	NA	NA	NA	NA	NA	13.2
Corrosivity	SU	NA	NA	11.3	NA	NA	NA	NA	NA	NA	9.4
Flashpoint	°F	NA	NA	>176	NA	NA	NA	NA	NA	NA	>176
Free Liquid	mL/100g	NA	NA	0	NA	NA	NA	NA	NA	NA	0
Leachate pH	SU	NA	NA	6.29	NA	NA	NA				
Oil & Grease	mg/kg	NA	NA	1,500	NA	NA	NA	NA	NA	NA	182
Oil & Grease	mg/L	NA	NA	<99.1	NA	NA	NA	NA	NA	NA	79.9 J
Reactive Cyanide	mg/kg	NA	NA	<10	NA	NA	NA	NA	NA	NA	<10
Reactive Sulfide	mg/kg	NA	NA	16	NA	NA	NA	NA	NA	NA	<10
Total Solids	mg/L	NA	NA	212 H	NA	NA	NA	NA	NA	NA	698
Total Volatile Solids	%	NA	NA	2.7	NA	NA	NA	NA	NA	NA	2
Percent Solids Dry Weight											
Percent Moisture	%	33	35	NA	9.3	59	11	6.7	7.2	8.2	NA
Percent Solids	%	67	65	75	91	41	89	93	93	92	93

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	G2-51/PX- NORTH COMP -- 07/02/14	G2-51/PX- NORTH-A 0 - 2 07/02/14	G2-51/PX- NORTH-B 2 - 3 07/02/14	G2-51/PX- NORTH-C 3 - 4 07/02/14	GP-6 COMP -- 07/01/14	GP-6-A 0 - 3 07/01/14	GP-6-B 0 - 3 07/01/14	GP-6-C 0 - 3 07/01/14
Volatile Organics									
1,1,1-Trichloroethane	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
1,1,2,2-Tetrachloroethane	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
1,1,2-trichloro-1,2,2-trifluoroethane	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
1,1,2-Trichloroethane	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
1,1-Dichloroethane	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
1,1-Dichloroethene	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
1,2,4-Trichlorobenzene	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
1,2-Dibromo-3-chloropropane	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
1,2-Dibromoethane	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
1,2-Dichlorobenzene	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
1,2-Dichloroethane	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
1,2-Dichloropropane	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
1,3-Dichlorobenzene	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
1,4-Dichlorobenzene	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
2-Butanone	mg/kg	NA	<0.022	<0.97	<3.1	NA	0.0064 J	0.0040 J	0.0079 J
2-Hexanone	mg/kg	NA	<0.022	<0.97	<3.1	NA	<0.021	<0.015	<0.021
4-Methyl-2-pentanone	mg/kg	NA	<0.022	<0.97	<3.1	NA	<0.021	<0.015	<0.021
Acetone	mg/kg	NA	0.012 J	<0.97	<3.1	NA	0.050	0.034	0.054
Benzene	mg/kg	NA	<0.0045	<0.19	0.30 J	NA	0.0039 J	0.0018 J	0.00066 J
Bromodichloromethane	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
Bromoform	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
Bromomethane	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
Carbon Disulfide	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
Carbon Tetrachloride	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
Chlorobenzene	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
Chloroethane	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
Chloroform	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
Chloromethane	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
cis-1,2-Dichloroethene	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
cis-1,3-Dichloropropene	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
Cyclohexane	mg/kg	NA	<0.0045	<0.19	4.9 ^	NA	<0.0042	<0.0030	<0.0043
Dibromochloromethane	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
Dichlorodifluoromethane	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
Ethylbenzene	mg/kg	NA	<0.0045	<0.19	0.18 J	NA	0.0033 J	0.0043	0.0018 J
Isopropylbenzene	mg/kg	NA	<0.0045	2.6	7.5	NA	0.0029 J	0.0018 J	0.0010 J
Methyl acetate	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
Methyl tert-butyl ether	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
Methylcyclohexane	mg/kg	NA	0.0014 J	3.8 ^	12 ^	NA	0.0051	0.0036	0.0013 J
Methylene Chloride	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
Styrene	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
Tetrachloroethene	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
Toluene	mg/kg	NA	0.00055 J	<0.19	<0.62	NA	0.00036 J	<0.0030	<0.0043
Total VOCs	mg/kg	NA	0.014 J	6.5 J	25 J	NA	0.073 J	0.050 J	0.067 J

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	G2-51/PX- NORTH COMP -- 07/02/14	G2-51/PX- NORTH-A 0 - 2 07/02/14	G2-51/PX- NORTH-B 2 - 3 07/02/14	G2-51/PX- NORTH-C 3 - 4 07/02/14	GP-6 COMP -- 07/01/14	GP-6-A 0 - 3 07/01/14	GP-6-B 0 - 3 07/01/14	GP-6-C 0 - 3 07/01/14
Volatile Organics (Cont.)									
trans-1,2-Dichloroethene	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
trans-1,3-Dichloropropene	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
Trichloroethene	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
Trichlorofluoromethane	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
Vinyl Chloride	mg/kg	NA	<0.0045	<0.19	<0.62	NA	<0.0042	<0.0030	<0.0043
Xylenes (total)	mg/kg	NA	<0.0089	0.060 J	<1.2	NA	0.00074 J	<0.0060	<0.0085
Volatile Organics-TCLP									
1,1-Dichloroethene	mg/L	NA	<0.010	<0.010	<0.010	NA	<0.010	<0.010	<0.010
1,2-Dichloroethane	mg/L	NA	<0.010	<0.010	<0.010	NA	<0.010	<0.010	<0.010
2-Butanone	mg/L	NA	<0.050	<0.050	<0.050	NA	<0.050	<0.050	<0.050
Benzene	mg/L	NA	<0.010	<0.010	<0.010	NA	<0.010	<0.010	<0.010
Carbon Tetrachloride	mg/L	NA	<0.010	<0.010	<0.010	NA	<0.010	<0.010	<0.010
Chlorobenzene	mg/L	NA	<0.010	<0.010	<0.010	NA	<0.010	<0.010	<0.010
Chloroform	mg/L	NA	<0.010	<0.010	<0.010	NA	<0.010	<0.010	<0.010
Tetrachloroethene	mg/L	NA	<0.010	<0.010	<0.010	NA	<0.010	<0.010	<0.010
Trichloroethene	mg/L	NA	<0.010	<0.010	<0.010	NA	<0.010	<0.010	<0.010
Vinyl Chloride	mg/L	NA	<0.010	<0.010	<0.010	NA	<0.010	<0.010	<0.010
Semivolatile Organics-TCLP									
1,4-Dichlorobenzene	mg/L	<0.0040	NA	NA	NA	<0.0040	NA	NA	NA
2,4,5-Trichlorophenol	mg/L	<0.020	NA	NA	NA	<0.020	NA	NA	NA
2,4,6-Trichlorophenol	mg/L	<0.020	NA	NA	NA	<0.020	NA	NA	NA
2,4-Dinitrotoluene	mg/L	<0.020	NA	NA	NA	<0.020	NA	NA	NA
2-Methylphenol	mg/L	<0.0040	NA	NA	NA	<0.0040	NA	NA	NA
3&4-Methylphenol	mg/L	<0.040	NA	NA	NA	<0.040	NA	NA	NA
Hexachlorobenzene	mg/L	<0.020	NA	NA	NA	<0.020	NA	NA	NA
Hexachlorobutadiene	mg/L	<0.020	NA	NA	NA	<0.020	NA	NA	NA
Hexachloroethane	mg/L	<0.020	NA	NA	NA	<0.020	NA	NA	NA
Nitrobenzene	mg/L	<0.0040	NA	NA	NA	<0.0040	NA	NA	NA
Pentachlorophenol	mg/L	<0.040	NA	NA	NA	<0.040	NA	NA	NA
Pyridine	mg/L	<0.020	NA	NA	NA	<0.020	NA	NA	NA
Organochlorine Pesticides-TCLP									
Endrin	mg/L	<0.00020	NA	NA	NA	<0.00020	NA	NA	NA
Gamma-BHC (Lindane)	mg/L	0.000043 J	NA	NA	NA	<0.00020	NA	NA	NA
Heptachlor	mg/L	<0.00020	NA	NA	NA	<0.00020	NA	NA	NA
Heptachlor Epoxide	mg/L	<0.00020	NA	NA	NA	<0.00020	NA	NA	NA
Methoxychlor	mg/L	0.000048 J	NA	NA	NA	<0.00020	NA	NA	NA
Technical Chlordane	mg/L	<0.0020	NA	NA	NA	<0.0020	NA	NA	NA
Toxaphene	mg/L	<0.0020	NA	NA	NA	<0.0020	NA	NA	NA
Herbicides-TCLP									
2,4,5-TP	mg/L	<0.0020	NA	NA	NA	<0.0020	NA	NA	NA
2,4-D	mg/L	<0.0020	NA	NA	NA	<0.0020	NA	NA	NA

See Notes on Page 31.

Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Location ID: Sample Depth (Feet): Date Collected:	Units	G2-51/PX- NORTH COMP -- 07/02/14	G2-51/PX- NORTH-A 0 - 2 07/02/14	G2-51/PX- NORTH-B 2 - 3 07/02/14	G2-51/PX- NORTH-C 3 - 4 07/02/14	GP-6 COMP -- 07/01/14	GP-6-A 0 - 3 07/01/14	GP-6-B 0 - 3 07/01/14	GP-6-C 0 - 3 07/01/14
Inorganics-TCLP									
Arsenic	mg/L	<0.0150	NA	NA	NA	0.00800 J	NA	NA	NA
Barium	mg/L	0.250 B	NA	NA	NA	0.800 B	NA	NA	NA
Cadmium	mg/L	0.00560	NA	NA	NA	0.00650	NA	NA	NA
Chromium	mg/L	0.00320 JB	NA	NA	NA	0.0100 B	NA	NA	NA
Copper	mg/L	0.0190 B	NA	NA	NA	0.0190 B	NA	NA	NA
Lead	mg/L	0.0900	NA	NA	NA	0.290	NA	NA	NA
Mercury	mg/L	<0.000200	NA	NA	NA	<0.000200	NA	NA	NA
Nickel	mg/L	0.0170	NA	NA	NA	0.0400	NA	NA	NA
Selenium	mg/L	0.0170 J	NA	NA	NA	<0.0250	NA	NA	NA
Silver	mg/L	<0.00600	NA	NA	NA	<0.00600	NA	NA	NA
Zinc	mg/L	0.360 B	NA	NA	NA	0.310 B	NA	NA	NA
PCBs									
Aroclor-1016	mg/kg	<0.98	NA	NA	NA	<0.20	NA	NA	NA
Aroclor-1221	mg/kg	<0.98	NA	NA	NA	<0.20	NA	NA	NA
Aroclor-1232	mg/kg	<0.98	NA	NA	NA	<0.20	NA	NA	NA
Aroclor-1242	mg/kg	<0.98	NA	NA	NA	<0.20	NA	NA	NA
Aroclor-1248	mg/kg	<0.98	NA	NA	NA	<0.20	NA	NA	NA
Aroclor-1254	mg/kg	<0.98	NA	NA	NA	<0.20	NA	NA	NA
Aroclor-1260	mg/kg	<0.98	NA	NA	NA	<0.20	NA	NA	NA
Total PCBs	mg/kg	ND	NA	NA	NA	ND	NA	NA	NA
Miscellaneous									
Ammonia as NH ₃	mg/L								
Ammonia Nitrogen	mg/L	0.066 B	NA	NA	NA	0.26 B	NA	NA	NA
Chemical Oxygen Demand	mg/L	15.2	NA	NA	NA	12.6	NA	NA	NA
Corrosivity	SU	8.78	NA	NA	NA	7.94	NA	NA	NA
Flashpoint	°F	>176	NA	NA	NA	>176	NA	NA	NA
Free Liquid	mL/100g	0	NA	NA	NA	0	NA	NA	NA
Leachate pH	SU								
Oil & Grease	mg/kg	10,000	NA	NA	NA	1,140	NA	NA	NA
Oil & Grease	mg/L	71.9 J	NA	NA	NA	67.9 J	NA	NA	NA
Reactive Cyanide	mg/kg	<10	NA	NA	NA	<10	NA	NA	NA
Reactive Sulfide	mg/kg	<10	NA	NA	NA	<10	NA	NA	NA
Total Solids	mg/L	153	NA	NA	NA	867	NA	NA	NA
Total Volatile Solids	%	5.4	NA	NA	NA	1.4	NA	NA	NA
Percent Solids Dry Weight									
Percent Moisture	%	NA	5.9	8.6	18	NA	5.6	2.7	5.4
Percent Solids	%	93	94	91	82	95	94	97	95

See Notes on Page 31.

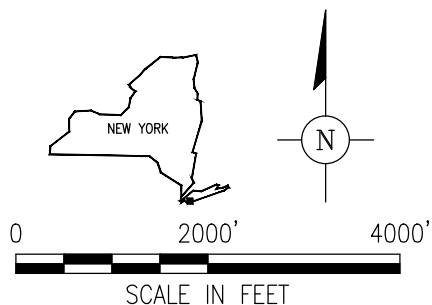
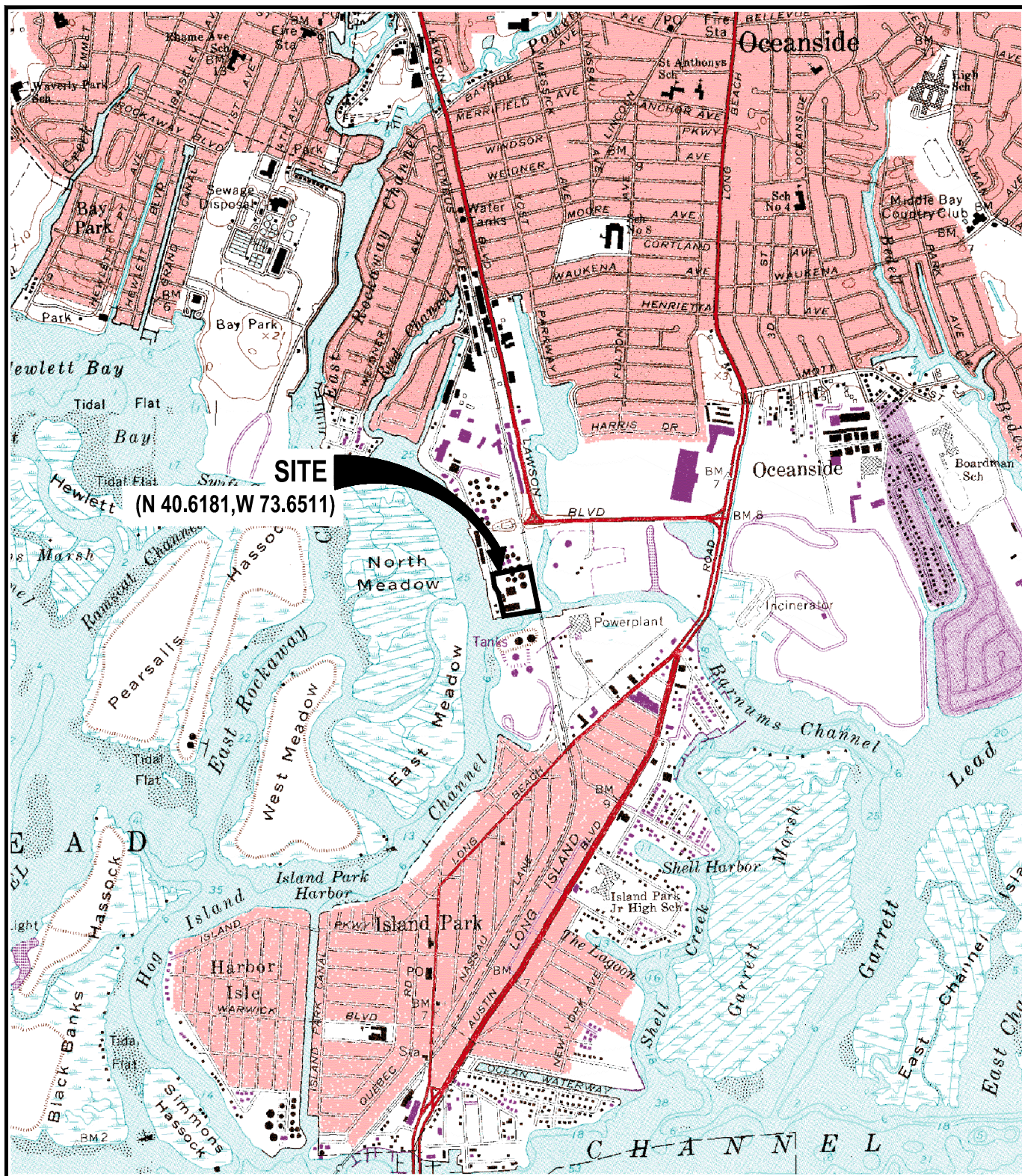
Table 2
Waste Characterization Analytical Summary

Interim Remedial Measures Completion Report
Chevron Environmental Management Company
Former Gulf Fuel Terminal (#6518040)
Oceanside, New York

Notes:

1. Samples were collected by ARCADIS and submitted to TestAmerica Laboratory in Buffalo, New York, for analysis.
 2. Duplicate sample results are presented in brackets.
 3. Shading indicates that the sample result exceeds one or more of the listed criteria.
 4. Toxicity Characteristic Levels, Code of Federal Regulations Title 40 Section 261.24 (dated July 1, 2011).
 5. Contained-In Level - Soil and Groundwater Action Levels, Technical Administrative Guidance Memorandum 3028 - "Contained-In" Criteria for Environmental Media (dated November 30, 1992).
Only select VOCs criteria are shown.
 6. Land Disposal Restrictions - Nonwastewater and Wastewater Standards, Part 376(j), Table UTS-Universal Treatment Standards.
 7. Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level.
- - = Information not included in table. Refer to applicable reference.
- < = less than.
- > = greater than.
- % = percent.
- B = Analyte was also detected in the associated method blank.
- BHC = benzene hexachloride.
- °F = degrees Fahrenheit.
- H = Sample was prepped or analyzed beyond the specified holding time.
- J = Indicates an estimated value.
- mg/L = milligram per liter.
- mg/kg = milligram per kilogram.
- mL/100 g = milliliters per 100 grams.
- NA = not analyzed.
- ND = not detected.
- SU = Standard Unit.
- TCLP = toxicity characteristic leaching procedure.
- VOC = volatile organic compound.

Figures

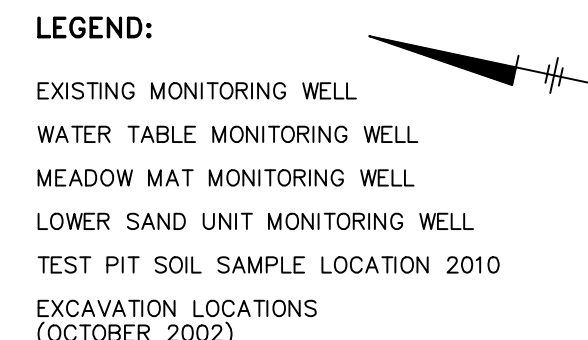
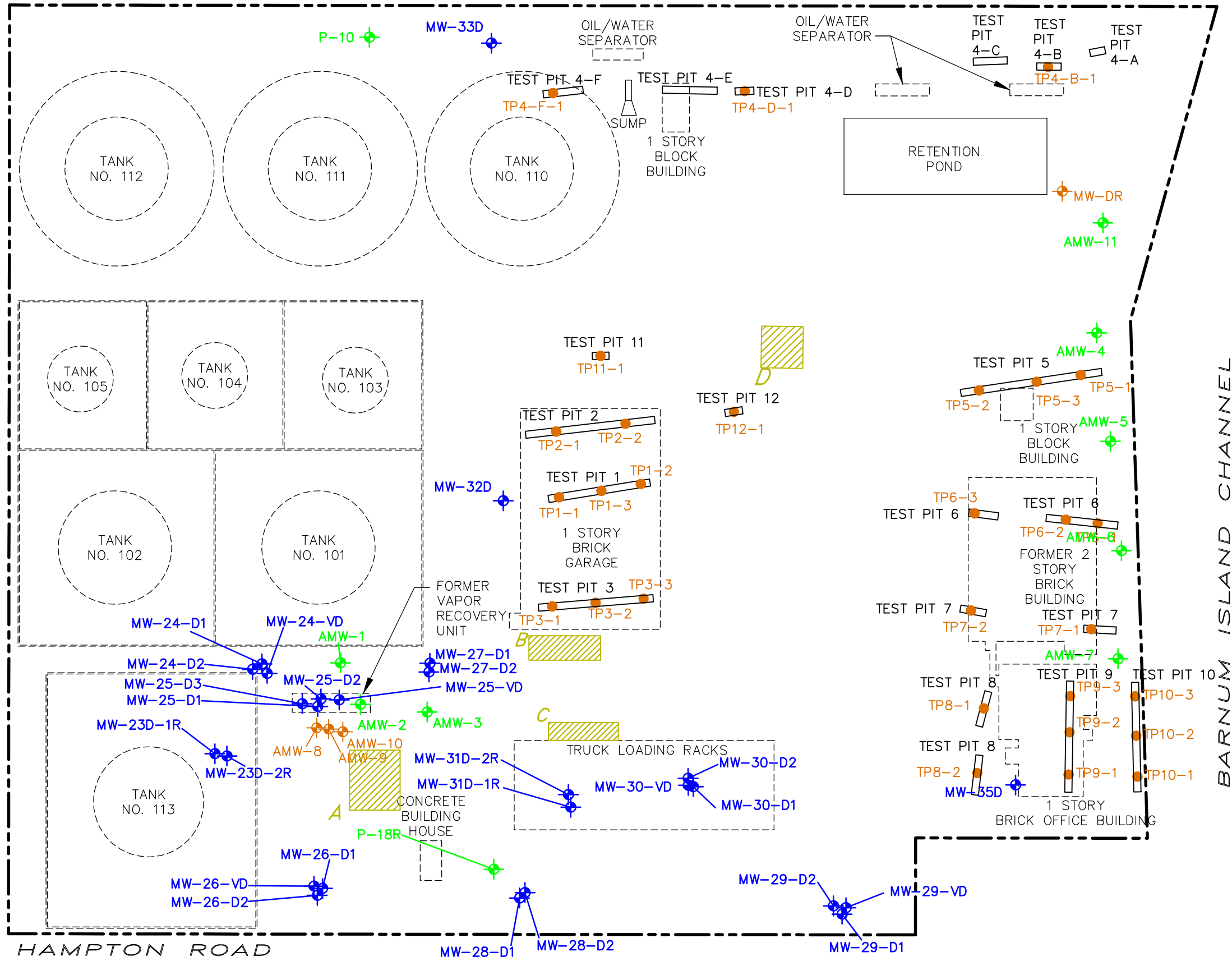


FORMER GULF OIL TERMINAL
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IRM COMPLETION REPORT

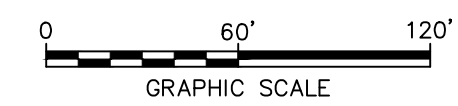
SITE LOCATION MAP



FIGURE
1



- NOTES:**
1. SITE PLAN DERIVED FROM STORB, INC. DRAWING ENTITLED "PAVING PLAN-GULF OIL COMPANY-U.S., OCEANSIDE TERMINAL" AUGUST 7, 1976 AND LANGAN DRAWING ENTITLED "HISTORICAL SOIL AND GROUNDWATER SAMPLING PLAN MAY 11, 2007.
 2. HISTORICAL SITE LAYOUT IS APPROXIMATE.
 3. MONITORING WELL AND TEST PIT LOCATIONS SURVEYED BY A. TAY.
 4. LOCATIONS OF SOIL BORINGS ARE APPROXIMATE.



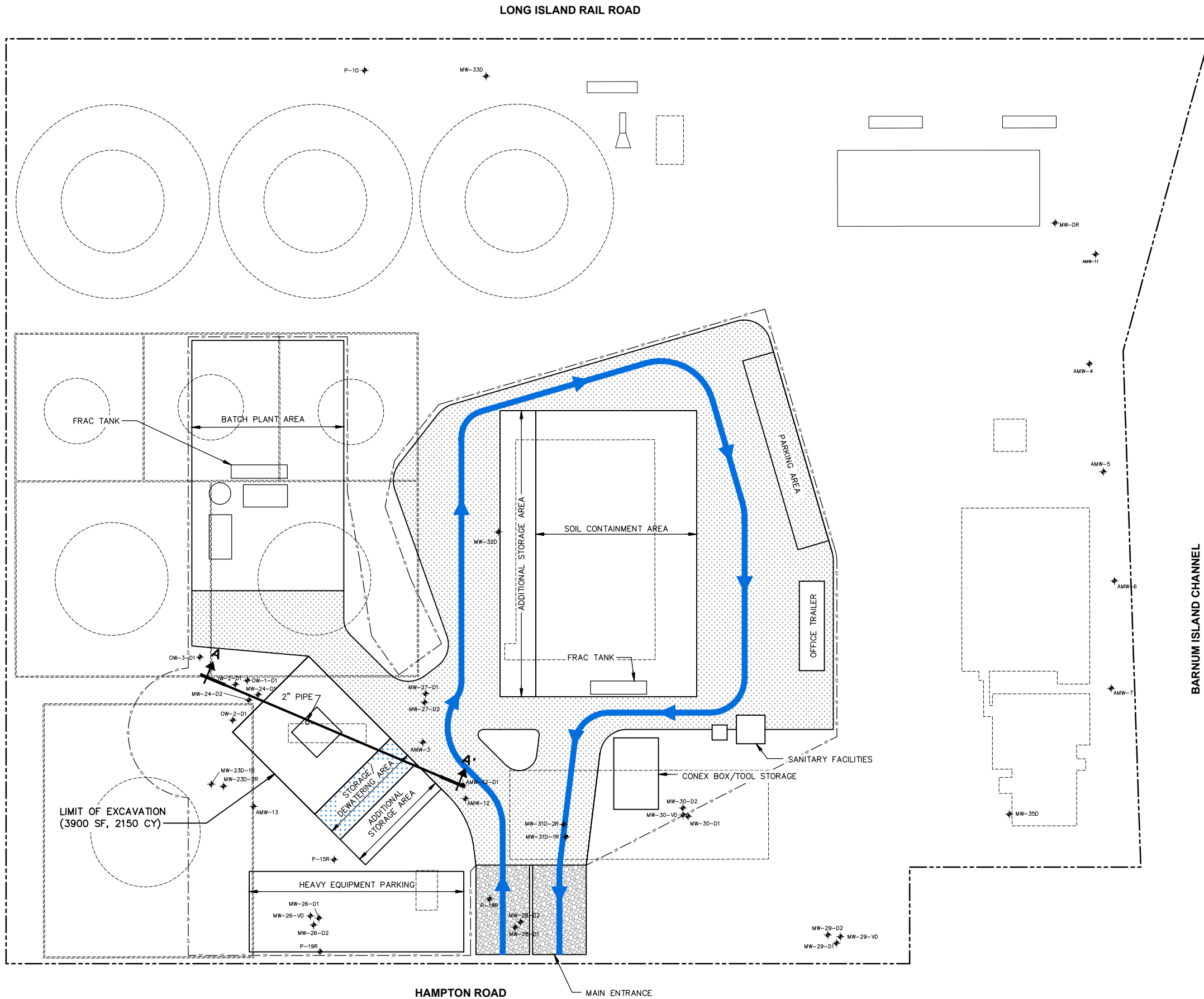
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IRM COMPLETION REPORT

SITE MAP

ARCADIS

FIGURE
2



GENERAL NOTE:

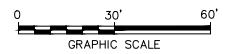
1. SITE LOCATIONS APPROXIMATE.

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- CONSTRUCTION ENTRANCE/SITE ACCESS
- STABILIZED GRAVEL ACCESS ROAD
- MONITORING WELL
- SF SF SILT FENCE
- TRAFFIC ROUTE
- STORAGE/DEWATERING AREA



TRANSECT LINE



GRAPHIC SCALE

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IRM EXCAVATION LIMITS
AND SITE LAYOUT

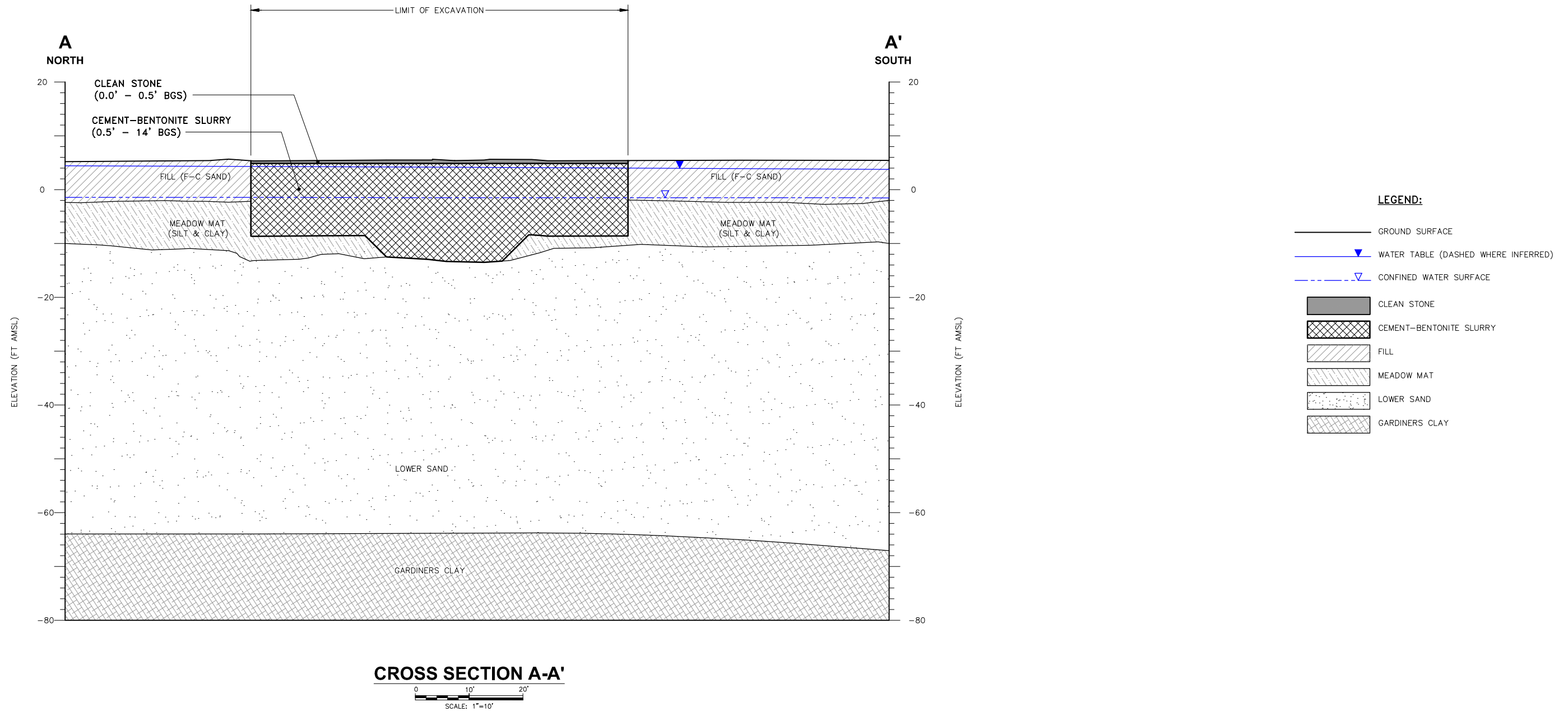


FIGURE

3

CITY:SYRACUSE,NY DIV:GROUP/ENV/CAD DR:G,STEINBERGER LD: PICA,HEBERT PWB,MCCUNE TM,J,ROBERTSON LYR:ON*OFF=REF*
G:\ENV\CAD\SYRACUSE\ACT\180\475170013\00003\DWG\47517V01.dwg LAYOUT: 4 SAVED: 9/29/2014 10:00 AM ACADVER: 18.1S (LMS TECH) PAGES: 4 PLOT: 10/29/2014 1:12 PM BY: STEINBERGER, GEORGE

XREFS: 47517X00
47517G04
IMAGES: PROJECTNAME: -



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**VRU EXCAVATION LIMITS
(CROSS SECTION)**



FIGURE
4

