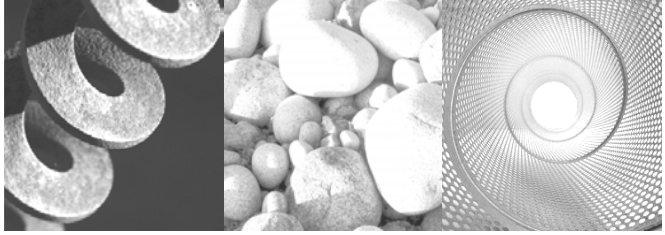

GEI Consultants

Consulting
Engineers and
Scientists

Remedial Action Report - Groundwater

Sea Isle City Former MGP Site

Sea Isle City, Cape May County, New Jersey
SRP ID No.: G000006130

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Abbreviations and Acronyms

AOC	Area of Concern
BEE	Baseline Ecological Evaluation
BGS	Below ground surface
BTEX	Benzene, toluene, ethylbenzene and xylenes
CAFRA	Coastal Area Facility Review Act
CEA	Classification Exception Area
CID	Case Inventory Document
CMCMUA	Cape May County Municipal Utilities Authority
CSM	Conceptual Site Model
DKQP	Data of Known Quality Protocols
DPW	Department of Public Works
EDD	Electronic data deliverables
gpm	gallons per minute
GEI	GEI Consultants, Inc.
GWQS	Groundwater Quality Standards
GWSL	Groundwater Screening Levels
IAL	Integrated Analytical Laboratories LLC
JCP&L	Jersey Central Power & Light Company
LFPS	Low-Flow Purge and Sample
LSRP	Licensed Site Remediation Professional
MGP	Manufactured Gas Plant
mg/L	Milligrams per liter
MNA	Monitored Natural Attenuation
MS/MSD	Matrix Spike/Matrix Spike Duplicates
msl	Mean Sea Level
NAPL	Non-Aqueous Phase Liquid
NFA	No Further Action
N.J.A.C.	New Jersey Administrative Code
NJDEP	New Jersey Department of Environmental Protection
NJNG	New Jersey Natural Gas
ORP	Oxidation reduction potential
PAHs	Polycyclic Aromatic Hydrocarbons
PDI	Pre-Design Investigation
QA	Quality Assurance
QC	Quality Control
RA	Remedial Action
RAO	Remedial Action Outcome

RAP	Remedial Action Permit
RAR	Remedial Action Report
RAWP	Remedial Action Work Plan
RDCSCC	Residential Direct Contact Soil Cleanup Criteria
RDCSRS	Residential Direct Contact Soil Remediation Standards
RI	Remedial Investigation
RIR	Remedial Investigation Report
RPD	Relative Percent Difference
SCC	Soil Cleanup Criteria
SRI	Supplemental Remedial Investigation
SRIR	Supplemental Remedial Investigation Report
µg/L	Micrograms per Liter
USEPA	United States Environmental Protection Agency
USGS	United States Geologic Survey
UST	Underground Storage Tank
Vargo	Vargo Associates
VI	Vapor Intrusion
VOCs	Volatile Organic Compounds
WRA	Well Restriction Area

Executive Summary

This Remedial Action Report (RAR) was prepared by GEI Consultants, Inc. (GEI) on behalf of Jersey Central Power & Light Company (JCP&L). The RAR is written in accordance with the New Jersey Administrative Code (N.J.A.C.), Section 7:26E 5.7 of the Technical Requirements for Site Remediation. The report documents remediation of groundwater impacts associated with the former Sea Isle City Manufactured Gas Plant (MGP) facility at 39th Street and Central Avenue (the "Site"). Soil impacts have been addressed in multiple remedial actions conducted at properties along 39th and 40th Streets, as well as excavation work performed within the 39th Street right-of-way in 2017. Remaining soil impacts at the Site will be addressed via deed restrictions and City Resolutions (i.e., in lieu of deed notice).

Groundwater sampling performed at the Site since 1988 confirmed the presence of benzene at concentrations exceeding the applicable Groundwater Quality Standard (GWQS). In addition, exceedances of the GWQS for various polycyclic aromatic hydrocarbons (PAHs) were reported. Sampling for inorganic compounds, including metals and cyanide, was performed as part of the initial sampling events. However, only exceedances for iron and manganese were reported, and the concentrations did not demonstrate a trend that could be attributed to impacts from the former MGP Site. Benzene and PAH compounds were therefore identified as contaminants of concern for the Site. A Classification Exception Area/Well Restriction Area (CEA/WRA) for the Site was established in 2016. The CEA/WRA identified benzene and PAH compounds as the contaminants of concern for the site.

Quarterly groundwater sampling was performed at the Site between 2016 and 2018 with additional subsequent sampling events completed in 2019 and 2020. Review of the analytical results finds that no exceedances of applicable GWQS were reported for PAHs in the quarterly sampling after August 2017. PAH exceedances were reported in samples collected from MW-29 in March 2019 and September 2019, but no PAH exceedances were reported in samples collected from MW-29 in December 2019 or March 2020.

With the exception of benzene, no volatile organic compound (VOC) exceedances have been reported in samples collected during the last two rounds of quarterly sampling completed in February and May 2018. One exceedance for vinyl chloride was reported in a sample collected from MW-15 in November 2017. Vinyl chloride was not reported in MW-15 or other monitoring wells before or after this sample. Additional sampling was completed in 2019 and most recently in March 2020 and incorporated a recently-installed well not included in the previous sampling events. As with the February and May 2018 sampling events, benzene was the only reported VOC exceedance.

A Remedial Action Permit (RAP) for Groundwater application has been submitted along with this RAR. GEI proposes to modify the CEA/WRA for the site, based on quarterly sampling conducted from 2016 to 2018 and the additional sampling completed in 2019 and 2020. Wells no longer required for the monitoring program will be abandoned. The remaining eight monitoring wells associated with the site will be sampled for benzene every year (annually), until benzene concentrations in wells with exceeding concentrations drop below the GWQS. GEI proposes that the CEA/WRA for the Site remain in place until 2026 to allow for natural attenuation to reduce contaminant concentrations below applicable remediation standards.

1. Introduction

1.1 Purpose

This RAR documents remediation activities conducted to address groundwater contamination associated with the former Sea Isle City MGP Site, at 39th Street and Central Avenue, along with the rationale supporting monitored natural attenuation needed to address the remaining groundwater impacts associated with the site.

Soil remediation, in the form of excavation and transport off-site for treatment and disposal, was conducted at the Site during various phases from 2004 until 2017. Approximately 49,600 tons of soil were excavated during various phases of remedial action during the remedial actions completed from 2004 until 2017. These soil excavations addressed free and residual product as well as impacted soil that had been identified at the Site during soil and groundwater investigations conducted at the site. In addition to the soil excavation, dewatering, on-site treatment, and discharge to a municipal sanitary sewerage system were performed during the various soil remediation activities. The most recent remedial action for soil was completed in April 2017 and included the removal of impacted soil and residual product identified in the 39th Street and Central Avenue rights-of-way adjacent to the former plant parcel.

Se Figure 1 for the location of the project area, and Figure 2 for the Site layout. A list of the areas of concern (AOCs) identified for the project is provided in Appendix A of this report. A copy of the Groundwater RAP application is provided in Appendix B.

1.2 Background

The Sea Isle City former MGP Site is southwest of the intersection of Central Avenue and 39th Street in Sea Isle City, Cape May County, New Jersey. A location map of the former MGP Site is provided as Figure 1. Several Remedial Investigation (RI) phases have previously been conducted to identify and delineate the extent of MGP impacts at the former MGP Site and on adjacent off-site properties. In April 2008, a Supplemental Remedial Investigation Report (SRIR) was submitted to the New Jersey Department of Environmental Protection (NJDEP). The SRIR expanded on the findings of previous investigations conducted at and around the Site performed by GEI, Ebasco Services, Inc. (Ebasco), Enserch, and Foster-Wheeler Environmental Corporation (Foster-Wheeler). Additional RI work was summarized in addenda to the SRIR dated April 2010 and August 2010. This additional investigation work was done to complete delineation of soil impacts. Based on analytical results from previous investigations, soil and groundwater delineation for MGP impacts

associated with the Sea Isle City former MGP Site has been completed. The investigation activities and findings are discussed in Section 2.3 of this report.

As part of the investigations conducted prior to the start of this Remedial Action (RA), soil borings were advanced on the former MGP Site, within the 39th Street, 40th Street, and Central Avenue rights-of-way, on City-owned property south of the former MGP site, and on privately-owned residential properties in the vicinity of the former MGP Site. In preparation for the remediation of the former MGP Site and off-site properties, pre-design investigation (PDI) engineering studies including geotechnical investigations consisting of cone penetrometer explorations, standard penetration tests, sieve tests, a pump test, and slug tests were performed. These were done to provide additional information for the final design of the RAs implemented at the former MGP Site and at off-site residential properties. Groundwater sampling identified impacts in the shallow aquifer at and adjacent to the former plant parcel.

2. Site Description

Several phases of RA have been conducted at the Site and on properties adjacent to and in the vicinity of the Site. The most recent RA was completed in the Spring 2017 and was associated with a linear construction project completed along 39th Street. A brief discussion of previous investigation work is in Section 2.4.

2.1 Site Description

The former MGP parcel was one of the first lots in the area to be developed with manufacturing operations occurring at the Site in the 1920s. The majority of the area was developed after the MGP facility had ceased operations and been demolished. The area of MGP-related impacts was developed with residential properties and with local roadways. The buildings above the impacted areas were demolished or relocated as part of the various phases of RA performed at the site. The former MGP parcels and the adjoining properties to the west and south consisted of vacant land, with the exception of the 207 40th Street parcels, where a residential property was under construction.

Residential dwellings are north and northwest of the remediation area. The Sea Isle City public works facility, water supply well and water tower are to the southeast across Central Avenue. A plan showing the project area and portions of the surrounding properties is presented in Figure 2.

The site is in the approximate center of a barrier island. The Atlantic Ocean is approximately 1,500 feet east of the site. Tidal marshes are approximately 1,500 feet west of the site.

2.2 Site History

The following site history description was excerpted from the Supplemental Remedial Investigation (SRI) Report prepared by Foster-Wheeler in February 2000.

MGP operations were conducted at the Site during the late 1800s and early 1900s. Historical data indicate that in the late 1800s, and at least as early as 1889, the plant was owned and operated by the Sea Shore Gas Company. In 1920, the Sea Shore Gas Company sold the plant to the American Gas Generator Company, who in turn sold it to Friars Gas Company in 1921. It was resold in 1921 to the City of Sea Isle. In 1926, JCP&L purchased the facility. The facility, exclusive of the gas holder and oil tank, was demolished in 1942. In 1952, JCP&L sold the property to the New Jersey Natural Gas Company (NJNG). The locations of the former coal gas plant oil tank and gas holder were determined from aerial photographs.

The locations of the other original plant components (i.e., gas house, etc.), however; are not specifically known.

In 1978, NJNG sold the property to a private individual who subdivided the property into the current three lots. The lots were then sold separately to private individuals prior to the early 1980s. Following this transaction, residential dwellings were constructed on Lots 22 and 23 by the respective property owners. The single-story dwelling constructed on Lot 23 was supported by approximately 27 wood pilings driven into the subgrade; it was subsequently demolished in 1988. In contrast, the two-story dwelling constructed on Lot 22 was elevated above grade by concrete columns. Lot 24 has reportedly been vacant since the dismantling of the former gas plant.

Since the preparation of the Foster-Wheeler synopsis, JCP&L acquired ownership of the three parcels that comprised the former MGP site. Soil impacts at 210 40th Street were remediated in 2004, prior to the start of parcel redevelopment by the property owner. The residential structure that existed on Lot 22 was removed in April 2008 in preparation for a soil removal RA, which was conducted between September 2008 and May 2009. JCP&L subsequently acquired ownership of several other off-site residential properties, adjacent to and in the vicinity of the former MGP Site, on which MGP-impacted soils were detected. In September 2010, JCP&L implemented a second soil removal RA which included the western portion of the MGP Site not addressed during the prior RA, the residential property (214 39th Street) adjacent to the west side of the MGP Site and two residential properties (213 and 217 39th Street) to the north of the MGP Site. In December 2011, JCP&L implemented a third soil removal RA that included the residential property at 218 39th Street, and the remaining portion of the 214 39th Street residential property. Fourth and fifth soil excavation projects were conducted from 2012 until 2014 to address soil contamination at properties along the north side of 40th Street. A limited soil excavation was conducted in 2017 as part of a linear construction project along 39th Street.

2.3 Remedial Investigation Summary

RI activities at the Site began in 1985, when a Task 1 Initial Assessment of the former MGP site (Block 39.04, Lots 22, 23, and 24) was performed by Environmental Research & Technology, Inc. of Pittsburgh, Pennsylvania. The investigation consisted of a background information review of the historic MGP and review of the regional geologic information, as well as a geophysical survey of the Site. The investigation identified the locations of the former holder and an oil tank on the Site, identified potential buried objects on the Site, and provided information on the City water supply well located to the southeast of the Site. The report included a work plan for soil and groundwater investigation work at the site.

In 1987, an investigation and underground storage tank (UST) removal was conducted at the Site by Ebasco. A 500-gallon UST and buried rubble had been found at the Site by the

property owner during an excavation at Lot 24. The UST was reportedly found to contain sand and coal tar. In addition to the UST closure, seven soil borings (B-1 to B-7) were advanced at the Site. Visual evidence of coal tar was identified in soils from five of the borings. Three soil samples were collected from each boring and analyzed for VOCs, PAHs, metals, total phenols, and cyanide. PAH compounds were reported in all samples collected. A sample of water from the city water system was collected and analyzed for VOCs, PAHs, metals, total phenols, and cyanide analysis. No MGP-related constituents were reported.

Ebasco performed an RI at the site in 1989. The investigation involved the advancement of eight soil borings (B-8 to B-15), the installation of seven monitoring wells MW-8 through MW-14, completion of in-situ permeability testing, a tidal survey, a storm drain assessment, and an organic vapor survey performed within and around pilings on Lot 23. Ebasco reported MGP-related contaminants in on-site and off-site well samples. A groundwater velocity of 40 feet/year was calculated for the shallow water table. No significant tidal effects on groundwater were reported. MGP-related impacts in soil and groundwater were identified in areas 40 feet north of the Site, and 150 feet east and south.

The next phase of RI at the site was conducted in 1994 by Foster-Wheeler. Four soil borings identified as SB-1 through SB-4 were advanced, and four monitoring wells (MW-15 to MW-18 were installed). Monitoring well MW-8, installed in 1989 as part of the Ebasco investigation, was abandoned. Wells MW-9 through MW-18 were sampled. Benzene, toluene, ethylbenzene and xylenes (BTEX) compounds were reported at concentrations above applicable action levels in samples collected from two on-site wells (MW-9 and MW-10) and one off-site well (MW-13). Naphthalene was reported at concentrations above the applicable action level in samples collected from MW-9 and MW-10. Iron and manganese were reported in the groundwater samples, including the sample collected from upgradient well MW-18. Cyanide was reported at concentrations above the applicable action level in samples collected from on-site wells MW-9 and MW-10.

Foster Wheeler returned to the site in 1996 to collect soil samples from five locations (SS-1 through SS-5). PAH concentrations above the applicable soil cleanup criteria were reported in samples collected from borings SS-1 through SS-4. Non-aqueous phase liquid (NAPL) was reported at SS-4.

In 2001 Foster-Wheeler completed an SRI of the Site. The goal of the investigation was to delineate BTEX and PAH impacts and to evaluate potential contaminant migration along utility corridors. Fourteen surficial soil samples were collected. Sixty-seven soil borings were advanced for delineation purposes, and 15 borings were advanced to evaluate potential impacts adjacent to water, stormwater, and sanitary utility lines. Piezometers PZ-1 through PZ-5 were installed along utility corridors. In addition, wells MW-9 through MW-18 were sampled, with the exception of MW-13, which was not accessible, and a 72-hour tidal survey was conducted.

No surficial-soil exceedances were reported. Based on the results of their investigation, Foster-Wheeler concluded that horizontal and vertical delineation of soil impacts was completed, and that no significant contaminant migration was occurring along utility corridors.

BTEX and PAH concentrations above applicable groundwater action levels were reported in the two on-site wells. BTEX compounds were reported in upgradient well MW-18 and were attributed to an off-site source. PAH compounds were reported in a sample collected from MW-12, adjacent to the site. Foster-Wheel concluded that the BTEX and PAH concentrations were decreasing at an observed half-life of approximately six years, based on concentrations reported since 1994. The cyanide concentration in MW-10 had reportedly decreased by approximately 70% but was still above the applicable action level.

Foster-Wheeler reported that no significant tidal influences were observed, and that no preferential migratory pathways were present. They did note that a convergence of shallow groundwater was occurring along Central Avenue, which they attributed to a combination of mounding in pervious surface areas and greater potential transmissivity due mainly to the utility corridor.

In 2004 GEI completed a PDI. The purpose of the PDI was to delineate exceedances of the New Jersey soil cleanup criteria, and to address comments from the NJDEP regarding the Foster-Wheeler 2001 SRIR. One hundred eighteen (118) soil borings were advanced via Geoprobe™, for the purposes of soil delineation, pre-excavation sidewall samples, and additional information regarding contamination within right-of-way areas. Five geotechnical soil borings were advanced to provide data for RA design. One upgradient monitoring well (MW-19) was installed, and a round of groundwater sampling for BTEX and PAH was performed. Slug tests were done in monitoring wells MW-10, MW-11, and MW-12.

Residual product was reported at the site, on several adjoining residential properties and portions of two adjoining right-of-way areas. The residual product was identified based on visual observations, soil-water agitation testing, UV fluorescence, and correlation of observations with analytical results. No free product was identified.

Soil impacts were identified from a depth of 4 to 19 feet below ground surface (BGS), with the deeper contamination limited to the southwest corner of Lot 24, and adjoining lots 10.02, 11.01, and 22. The majority of soil impacts were identified at a depth of four to eight feet BGS. The groundwater sampling confirmed that groundwater impacts were limited to the site, adjacent parcels, and adjoining right-of-way areas.

An SRI was conducted at the site by GEI in 2007. One hundred nineteen (119) soil borings were advanced as part of the investigation. The goal was to refine the soil delineation limits, to investigate for free and residual product, and to collect data for use in the design of a RA

at the site. One hundred twenty-nine (129) soil samples were collected for PAH analysis. One sample was collected for BTEX analysis. Waste classification soil samples were collected from the former plant parcel, where remedial activities for the Site would begin. In addition to the soil samples, eight cone penetrometer explorations were advanced to refusal which was typically encountered at 45 to 50 feet BGS.

One downgradient monitoring well (MW-20) was installed as part of the investigation, and a round of monitor-well sampling was performed. The groundwater samples were collected using low-flow purge and sample techniques (LFPS) using laboratory-supplied bottles. The samples were submitted under chain of custody to Integrated Analytical Laboratories (IAL) for BTEX, PAH, and ammonia analysis. The sampling results confirmed that delineation of groundwater impacts was complete. Impacts were limited to MW-9, MW-10, PZ-1, PZ-3, and PZ-4. An ammonia exceedance was reported at PZ-5, but in none of the other samples collected. Groundwater flow direction was toward Central Avenue, and a preferential pathway along a utility corridor beneath Central Avenue was confirmed. A pump test was performed at the former plant parcel, to provide data on water production rates and hydraulic conductivity in anticipation of remediation work. A pumping well and a network of shallow (12 feet deep) and intermediate depth (25 feet deep) piezometers were installed to evaluate water levels. The water levels were monitored using dataloggers, with manual measurements performed to confirm changes in water elevation. The pumping well was screened from 25 to 35 feet BGS. The testing found no changes in water levels for the shallow piezometers. Drawdowns were observed in the deeper piezometers. A hydraulic conductivity of 2.8 to 4 feet per day was calculated for the pumping zone. A slug test was performed in a temporary boring, B-190, to evaluate hydraulic conductivity in the coarse sand below the silt layer from approximately 12 to 40 feet BGS. A hydraulic conductivity of 18.5 feet per day was calculated for the coarse sand pumping zone beneath the silt layer.

The 2008 SRI completed delineation work for groundwater at the site. The remaining monitoring well installations performed at the site were conducted to either replace wells lost as a result of remediation activities, demonstrate exceedances for MGP-related contaminants of concern were not present on specific parcels, or allow for the abandonment of piezometers or wells at locations that were difficult to sample.

Remaining RI work at the Site completed and refined the delineation of soil exceedances associated with MGP-related contamination. Two addendums to the SRI were submitted to the NJDEP in April 2010 and August 2010. These addendums were prepared as part of the completion of soil delineation and did not involve the collection of groundwater samples.

The delineation of soil and groundwater impacts was completed prior to the adaption of New Jersey Administrative Code (N.J.A.C.) 7:26C (Administrative Requirements for the Remediation of Contaminated Sites) and the retention of a Licensed Site Remediation Professional (LSRP) for the project. The change from Soil Cleanup Criteria (SCC) to Soil

Remediation Standards in 2008 contributed to the additional sampling required. A single Remedial Investigation Report (RIR) documenting investigation activities and findings for the site was therefore not prepared. A letter notifying the NJDEP that the RI had been completed, along with the completed NJDEP RI Form, was submitted to the NJDEP in March 2014.

2.4 Previous Remedial Actions

Previous RAs were conducted to remediate contamination associated with the former MGP Site.

In 1987, an RA was conducted on Block 39.04, Lot 24 to remove a UST containing sand and a black viscous substance. Impacted soil and groundwater encountered within the excavation were also removed. This remediation also included the placement of a 6-inch layer of clean fill over Lot 24.

Between 1988 and 1989, JCP&L provided health and safety oversight and arranged for material disposal during a utility reconstruction project conducted by Sea Isle City. MGP-impacted soil and groundwater, which were identified through field observations, were removed from portions of the utility trenches along 39th Street, Central Avenue, and 40th Street and transported to a treatment/recycling facility.

An RA was completed in 1990 and involved the installation of an asphalt cover and perimeter fence on Block 39.04, Lots 23 and 24. In 1991, a shallow excavation and installation of geotextile fabric and sand, stone, soil, and/or concrete cover were completed on Block 39.04, Lot 22.

In 2003, an RA was conducted on Block 40.04, Lot 22 (210 40th Street) to remove soil containing MGP-related contamination. Approximately 550 tons of soil were removed. The remediation achieved removal of MGP-related soil contamination from the property. The NJDEP issued a No Further Action (NFA) letter for this property in June 2006.

With the exception of a small strip of land on Lots 22 and 23 which abutted the residential properties to the south, between 2007 and 2009, an RA was conducted at the parcels comprising the site (Block 39.04, Lots 22, 23, and 24) to remove soil containing MGP-related contamination. Seven thousand eight hundred fourteen (7,814) tons of soil was removed for off-site thermal treatment. The excavation support sheeting was left in place on the southern and western limits of the excavation area for use during future planned RA phases. Low-permeability contaminant barriers were installed on the northern and eastern limits of the excavation area to prevent migration of MGP impacts onto the Site following remediation, as no additional excavation work was planned for the public right-of-way areas

to the north and east of the site. The NJDEP approved the RAR submitted for this phase in a letter dated March 16, 2010.

In February 2008, JCP&L assisted Sea Isle City and implemented an RA at the Sea Isle City Department of Public Works (DPW) lot to the southeast of the former MGP Site. The work was performed due to construction activities that were occurring at the lot, which uncovered the presence of hydrocarbon-impacted soils and subsequently a UST. Although a direct nexus with the site did not exist and an MGP origin of hydrocarbon impacts could not be established, JCP&L assisted Sea Isle City with the remediation of this occurrence. A combined total of 140.62 tons of soil were shipped off site by Freehold Cartage, Inc. for disposal at the Environmental Recovery facility in Lancaster, Pennsylvania and CWM Chemical Services, L.L.C. facility in Model City, New York. Approximately 2,100 gallons of groundwater was transported by Freehold Cartage, Inc. for treatment and disposal at the E.I. Dupont Denemours & Company Chamber Works facility in Deepwater, New Jersey. The excavation was backfilled with 129.61 tons of clean fill. Seven post-excavation soil samples were collected by GEI and submitted under chain of custody to a New Jersey-certified laboratory. The soil samples were analyzed for VOCs and PAH compounds. The analytical results of post-excavation soil samples complied with the NJDEP SCC, the applicable action level at the time of the RA. The NJDEP issued an NFA letter for the RA work conducted by JCP&L on January 30, 2009.

The RA performed in 2010 and 2011 completed most the soil excavation work at the site parcels, with the exception of small strips along the south side of the site as well as along the east side of the abutting 214 39th Street (Lot 22) property. The RA also included excavation of the soil at the 213 and 217 39th Street properties on the north side of 39th Street. At the 213 and 217 39th Street properties, the excavation extended to depths of 12 to 13 feet BGS Post-excavation bottom samples in compliance with the Residential Direct Contact Soil Remediation Standards (RDCSRS) were obtained from the base of the excavation. One thousand one hundred fifty-two and eight tenths (1,152.8) tons of soil were removed from these two properties and transported to Clean Earth of New Castle for thermal treatment. Excavation of the soil at the Site and at the 214 39th Street property extended to depths of 12 to 17 feet BGS. Excavation work below 12 to13 feet BGS was performed while the deep aquifer depressurization system was in operation. When the deep depressurization system was shut down due to naturally-occurring hydrogen sulfide odors associated with the aquifer which could not be abated, the excavation depth limit was approximately 13 feet BGS. Post-excavation soil samples from the 2010-2011 RA were compared to the 2008 Residential Direct Contact Soil Cleanup Criteria (RDCSCC) as approved in the Remedial Action Work Plan (RAWP). Bottom samples from one excavation cell revealed the presence of PAH compounds at concentrations above the RDCSRS, but below the RDCSCC as was approved in the RAWP. Nine thousand forty-seven and two tenths (9,047.2) tons of soil was excavated from the 210 and 214 39th Street properties and transported to Clean Earth of New Castle for

thermal treatment. The NJDEP issued an NFA letter for MGP-related soil impacts at the 213-217 39th Street properties on January 12, 2012.

The 2011-2012 RA involved the excavation at the 218 39th Street property and also included a small strip of the 214 39th Street parcel along the boundary between 214 and 218 39th Street. Soil excavation work was limited to 12 to 13 feet BGS, with post-excavation soil samples collected and analyzed for PAH compounds. Three thousand two hundred sixty-four (3,264) tons of impacted soil was excavated and transported to Clean Earth of New Castle, for thermal desorption. Three thousand five hundred eighty-two (3,582) tons of clean fill material was transported to the Site from Daley's Pit of South Seaville, New Jersey for backfill.

Between 2012 and 2014, remediation work was conducted at properties on the north side of 40th Street, from 205 40th Street west to 227 40th Street. Approximately 17,220 cubic yards of soil were excavated during the remedial action and shipped to Clean Earth of New Castle for thermal desorption. Soils were excavated to depth of 12 to 14 feet BGS in the remediation area. Prior to the start of soil excavation work, structures in the work zone were demolished with the exception of the building at 211 40th Street, which was relocated to the 214 39th Street parcel. Steel sheeting was installed around the perimeter of the excavation area to provide excavation support. Excavation work in the eastern portion of the area, from 205 to 209 40th Street, was conducted within a sprung structure due to concerns regarding odors. Excavation work in the western portion of the project area (221-227 40th Street) was completed without a temporary enclosure due to lower contaminant concentrations in this area.

In 2016 and 2017, a sanitary sewer restoration project was conducted on 39th Street. As part of the restoration, impacted soils within the work zone were excavated and transported off-site for thermal desorption and disposal. In addition, soil containing residual product near the corner of 39th Street and Central Avenue, outside of the sanitary sewer restoration work zone, was excavated and transported to Clean Earth of New Castle for thermal desorption.

Since the start of remediation activities at the former plant parcel in 2008, water from dewatering activities has been treated on site and then discharged to the municipal sanitary sewerage system. Prior to the start of the discharges an agreement was reached with Sea Isle City, and Cape May County Municipal Utilities Authority (CMCMUA), and the NJDEP regarding effluent sampling frequency and analytical parameters, effluent quality and maximum discharge quantities. Sea Isle City, the CMCMUA, and the NJDEP were all notified prior to the start of discharge activities and were provided summaries of the effluent analytical results.

Please see Figure 3 for the location of soil excavation work performed as part of the remediation of the former MGP site, as well as the soil exceedances delineation line.

3. Physical Setting

3.1 Topography and Regional Drainage

Sea Isle City is on a barrier island within the Coastal Plain geologic region of southern New Jersey. Topographic elevations range from approximately 5 to 10 feet relative to the North American Vertical Datum 1988.

The former MGP site is depicted on the United States Geologic Survey (USGS), Sea Isle City, New Jersey Quadrangle 7.5-minute series provided in Figure 1. The former MGP site is approximately 1,500 feet to the west-northwest of the Atlantic Ocean and approximately 1,500 feet southeast of Ludlam Bay.

3.2 Regional Geology

Sea Isle City is on an approximately 6,000-foot thick wedge of Mid-Atlantic Coastal Plain sediments overlying Precambrian Age bedrock. Native surface soil on the barrier island is comprised of recent marsh and alluvial deposits. The marsh and alluvial deposits are underlain by the Cape May Formation, comprised of Quaternary marine and deltaic sand and clay. The Cohansey Sand, a Miocene Age sand unit with thick clay lenses predominant along the coast, underlies the Cape May Formation.

The Kirkwood Formation, a Miocene Age system comprised of interbedded clay and sand approximately 250 feet thick, underlies the Cape May Formation. Tertiary and Cretaceous Age sediments underlie the Kirkwood Formation to a depth of approximately 6,000 feet BGS.

3.3 Regional Hydrogeology

Shallow groundwater on the barrier island occurs in unconsolidated coastal plain sediments in a brackish water table aquifer. Recharge to shallow groundwater occurs from precipitation. Because the surficial marsh deposits are relatively impermeable, the shallow groundwater is not considered an extensive aquifer system.

Water in the deltaic and marine Cape May Formation is saline. The unconfined aquifer, known as the Cohansey Aquifer in the area of Atlantic City, extends downward to the upper confining unit of the underlying Kirkwood Formation. The Cohansey sand unit is underlain by an approximately 375-foot thick layer, containing a 30-foot thick sand interval (“Rio Grande” or “250-foot horizon”) in the middle of the clay layer. Beneath the clay layer is the Kirkwood Formation “Atlantic City 800-foot sand” aquifer. Water in the Atlantic City 800-foot sand aquifer is used as a water supply.

3.4 Water Use

There are no surface or near-surface fresh water sources at or in the vicinity of the former MGP Site. Surrounding surface water bodies are tidal. The potable well (Well #7) at the DPW property across Central Avenue from the former MGP Site is screened in the Kirkwood Formation (Atlantic City 800-foot-sand) strata. Only the Atlantic City 800-foot-sand formation is used as a water supply source in Sea Isle City.

Well #7 was installed in 1996. The intake section of Well #7 is between 720 and 902 feet BGS. The static water level was reported as 58.83 feet BGS. The level during pumping is 71.67 feet BGS. The well yield is 800 gallons per minute (gpm), with a pump capacity of 700 gpm. The zone of withdrawal of Well #7 is vertically isolated from the former MGP Site by several hundred feet of deposits, including approximately 350 feet of clay confining beds.

3.5 Subject Properties Geology

3.5.1 Subject Properties Soils

Soils observed in the excavation during implementation of the RA consisted of brown to light brown sand with silt to a depth of 4 to 5 feet BGS, grayish sand with silt from 5 to 8 feet, and a sphagnum peat layer below 8 feet. A confining clay layer was encountered at 30 feet BGS or -25 mean sea level (msl).

The soils in this area have been classified by the United States Department of Agriculture Soil Conservation Service as Urban land-Psamments, wet substratum, zero to eight percent slopes, rarely flooded. The formation consists of approximately 60 percent urban land and 30 percent Psamments. Urban land consists of surfaces covered by concrete, pavement, buildings, and other structures underlain by disturbed and natural soil material. Depth to the seasonal high-water table is 12 to 24 inches BGS.

3.5.2 Subject Properties Hydrogeology

During excavation activities, groundwater was encountered at depths of 2 to 4 feet BGS. Based on the topography at the subject properties and groundwater elevation measurements collected at and in the vicinity of the former MGP Site as part of the quarterly monitoring program, groundwater at the subject properties flows to the southeast, toward Central Avenue. In the past, Central Avenue has acted as a preferential pathway for groundwater.

See Figures 4 through 17 for groundwater contours generated as part of the 2016 to 2018 quarterly groundwater monitoring program and subsequent monitoring events.

4. Receptor Evaluation

As part of the RAR, GEI has updated the Receptor Evaluation previously submitted for the site. The following is a summary of the findings from the Receptor Evaluation Update. The Receptor Evaluation form and attachments have been filed with NJDEP as part of this RAR submission. A copy of the Receptor Evaluation submittal is provided in Appendix C.

4.1 Land Usage

The Site consists of residential properties and vacant lots. The surrounding properties are residential, with the exception of the Sea Isle City DPW facility adjacent to the southeast of the site across Central Avenue, and a municipal parking lot to the south across 40th Street. It is expected that the usage of the Site area will remain similar to prior usage (i.e., residential). No schools, childcare centers, public parks or other sensitive populations are within 200 feet of the project area.

4.2 Groundwater

Seventeen wells were identified within a 1-mile radius of the Site. A potable water well is present at the Sea Isle City DPW parcel, adjacent to the southeast of the site across Central Avenue. The public water supply well is screened from 720 to 902 feet BGS, far below the shallow groundwater impacts associated with the former MGP Site. The screened interval is separated from the MGP-related impacts by low permeability clay layers. Sampling of groundwater in the source area, from approximately 45 to 50 feet BGS, completed in 2007 did not report the presence of MGP-related contaminants above applicable GWQS. This sampling was completed prior to the remediation of the source area.

No other potable water, irrigation, or industrial wells were identified within 2,000 feet of the limits of the groundwater impacts. A copy of the well search conducted as part of the Receptor Evaluation Update is provided in Appendix C.

4.3 Vapor Intrusion

A vapor intrusion (VI) investigation was conducted in 2007. The results of the investigation confirmed that the former MGP Site had not contributed to VI issues at the nearby residences. No exceedances of the Vapor Intrusion Groundwater Screening Level were reported in samples collected during the March 2020 sampling event. Based on the groundwater results, no further investigation is proposed for VI.

4.4 Ecological Receptors

NJDEP provided comments regarding the Baseline Ecological Evaluation (BEE) in a letter dated May 24, 2004. In their letter, the NJDEP agreed that while contaminants of ecological concern were present on the former MGP Site, the soil and groundwater contamination was limited to residential lots and city streets, and there were no environmentally-sensitive natural resources at or within the surrounding areas of the former MGP Site.

The Site is within a coastal zone. As part of the various phases of RA completed at the site, GEI has obtained several Coastal Area Facility Review Act (CAFRA) permits. Remaining soil and groundwater impacts associated with the Sea Isle City former MGP Site are limited to developed areas. No wetlands or waterbodies are within or adjacent to the remaining soil and groundwater impacted areas. No free or residual product has been identified within 100 feet of an ecological receptor.

5. Groundwater Monitoring

Source material was excavated and removed from the site during seven soil excavation projects completed from 2004 to 2017. Data regarding wells installed after the previous RAR for the project is provided in Appendix D.

Groundwater monitoring conducted quarterly from 2016 to 2018 and additional subsequent monitoring into 2020 has demonstrated a decrease in contaminant concentrations at the site. Monitored Natural Attenuation (MNA) is proposed to address the remaining groundwater impacts associated with the Site. The Mann-Kendall statistical analysis of data from the quarterly groundwater sampling is provided in Appendix E. The revised CEA/WRA application for the Site is provided in Appendix F of this report. The revised CEA area is based on the results of the 2016-2020 groundwater monitoring performed at the site.

Quarterly groundwater monitoring activities began in February 2016 and were completed in May 2018. Eight rounds of sampling were completed, with two additional rounds of sampling at select wells in 2019 and 2020. Groundwater samples were collected by GEI using LFPS techniques, in accordance with the NJDEP Field Sampling Procedures Manual. Samples were collected using laboratory-supplied bottles and submitted under chain of custody to IAL for analysis. Samples were analyzed for VOC+15 by EPA Method 8260C, and PAH compounds by EPA Method 8270D plus SIMS.

5.1 Prior Groundwater Data

Groundwater sampling has been conducted at the site since 1988, when seven monitoring wells were installed at the site. Three of the wells, identified as MW-8, MW-9, and MW-10, were installed on the former plant parcel. The remaining four wells (MW-11 through MW-14) were installed to the north, east, south, and west of the former plant parcel. These wells were sampled and analyzed for BTEX, PAH, total cyanide, and other inorganics. Exceedances of applicable groundwater remediation standards for benzene, PAH compounds, iron, and manganese were detected. Benzene and PAH compound exceedances were reported in samples collected from the on-site wells, and wells MW-12 and MW-13. Iron and manganese exceedances were reported in samples collected from all seven wells, and it was therefore presumed that iron and manganese concentrations are naturally-occurring and not related to MGP impacts.

Five additional monitoring wells and five piezometers were installed at the site from 1994 to 2002. The additional wells and piezometers were sampled for the same parameters as the previously-installed wells during sampling events completed in 2000 and 2002. Monitoring

well MW-20 was installed in 2007 at the request of the NJDEP. The well is in a public parking lot at the southwest corner of 40th Street and Central Avenue.

The sampling performed from 1988 until 2002 determined that the groundwater contaminants of concern associated with the site were BTEX and PAH compounds. Metals were therefore not included in groundwater analyses conducted after 2002. Excavation of impacted soil was conducted during multiple RAs performed at the Site from 2004 until 2017. The soil-excavation activities removed source material and therefore encouraged natural attenuation to address the groundwater contamination associated with the former MGP site.

5.2 Monitoring Well Installation and Construction

The following is a summary of the installation and construction of the monitoring wells sampled as part of the quarterly groundwater monitoring program. Wells were installed from 1989 to 2019 to establish the current monitoring well network. The monitoring wells are flush-mounted, 2 inches in diameter, schedule 40 PVC screen and riser. Monitoring well construction details are summarized in Table 1.

Monitoring wells MW-11, MW-13, and MW-14 were installed in 1988, under the supervision of Ebasco. MW-11 is 11 feet deep and screened from 1 to 11 feet. MW-13 is 8 feet deep and screened 1 to 8 feet. MW-14 is 10 feet deep and screened 1 to 10 feet. MW-15 and MW-17 were installed in 1995, under the supervision of Foster-Wheeler. MW-15 is 12.5 feet deep and screened from 2.5 to 12.5 feet. MW-17 is 14.5 feet deep and screened from 1.5 to 14.5 feet. MW-20 was installed in 2007, under the supervision of GEI. The well is 12 feet deep and screened from 2 to 12 feet. MW-19RR, MW-23, MW-24-1, MW-24-2, and MW-25 were installed under the supervision of GEI in 2015. Wells MW-23, MW-24-1, and MW-25 are 12 feet deep and screened from 2 to 12 feet. MW-19RR was installed to replace MW-19 R due to damage to the well. MW-19R was installed in 2012, to replace well MW-19. MW-24-2 is 23 feet deep and screened from 18 to 23 feet. This well is screened in a silt layer, in an area where excavation work was not completed due to problems encountered attempting to depressurize the deeper aquifer.

MW-26R was installed in 2017, to replace MW-26 which was abandoned during the 39th Street sanitary sewer restoration project. MW-26 R was installed under the supervision of GEI. The well is 12 feet deep and screened from 2 to 12 feet. MW-27 was installed under the supervision of GEI in 2016. Well MW-27 was installed in 2016 as a replacement for piezometers PZ-3 and PZ-4, which had been in the Central Avenue roadway prior to their abandonment in 2016. Monitoring well MW-28 was installed in May 2016 as a preplacement for piezometer PZ-5, which had been at the southwest corner of 40th Street and Central Avenue. The well is 12 feet deep and is screened from 2 to 12 feet. MW-29 was installed in March 2019, to investigate groundwater exceedances detected in temporary well

point samples collected from and around 207 40th Street. The well is 12 feet deep and is screened from 2 to 12 feet.

Table 1 provides a summary of the construction of wells used as part of the groundwater monitoring program. Copies of well records for monitoring wells MW-26R, MW-27, MW-28, and MW-29 are provided in Appendix D.

5.3 Monitoring Well Decommissioning

Piezometer PZ-1 was abandoned by AmeriDrill on May 19, 2015, in anticipation of the 39th Street sanitary sewer restoration project. Piezometers PZ-2 through PZ-5 were decommissioned on May 17, 2016 by AmeriDrill. These piezometers were decommissioned due to a combination of damage and inaccessibility for sampling because of their presence in the roadways.

Monitoring wells MW-16, MW-18, MW-21 and MW-22 were decommissioned by AmeriDrill on May 17, 2016. Monitoring well MW-16 was approximately 225 feet east of the Site along 39th Street, and MW-18 was approximately 300 feet west of the project area, also along 39th Street. Prior sampling performed at these wells had not indicated the presence of groundwater contamination associated with the Site. It was therefore decided that these wells would not be needed for the sitewide groundwater monitoring program. The wells were abandoned using grout, and well decommissioning reports were submitted to the NJDEP.

Sampling at wells MW-21 and MW-22, at 220 40th Street and 218 40th Street, respectively, had not reported the presence of groundwater contamination. It was decided that the wells were not required for the sitewide groundwater monitoring program. Both wells were decommissioned using grout and the steel covers and concrete pads were removed from the ground. After completion of the well abandonment work, well decommissioning reports were submitted to the NJDEP.

Monitoring well MW-12 was lost during the course of the 214-218 39th Street RA. The well coordinates were re-surveyed, and the area excavated to a depth of 3 feet, but no evidence of MW-12 was found. MW-12 had been installed in 1988. The first sample collected from the well in October 1988 had an estimated (i.e., a "J" value) benzene concentration of two micrograms per liter (µg/L). Benzene was not detected in samples collected after October 1988. No PAH exceedances were reported in samples collected from the well. In accordance with the NJDEP Guidance for Damaged, Destroyed, or Lost Wells, GEI notified the Bureau of Water Allocation and Well Permitting of the lost well and provided information outlined in the guidance, including responsible party information, well construction details, well location, and actions taken to attempt to locate the well.

Please see Appendix D for copies of the well decommissioning reports for MW-21 and MW-22, and the MW-12 alternative decommissioning submittal to the NJDEP.

5.4 Groundwater Sampling

The groundwater sampling performed by GEI from February 2016 to March 2020 was carried out using LFPS techniques. Groundwater geochemical parameters were monitored while purging was done at each well, at pumping rates of less than 500 milliliters per minute (mL/min). Certified multi-parameter meters were rented by GEI to monitor geochemical parameters during purging. The meters were calibrated by GEI in accordance with NJDEP field sampling procedures. Geochemical parameters were recorded at 5-minute intervals and samples were collected once the parameters had stabilized. The groundwater samples were collected using laboratory-supplied bottles and submitted under chain of custody to IAL of Randolph, New Jersey for analysis. IAL is a New Jersey-certified laboratory (NJDEP NELAC #14751). Samples were analyzed for VOC+15 and for PAH compounds.

See Figure 2 for the locations of monitoring wells sampled as part of the quarterly groundwater monitoring program. Table 2 provides the 2016 to 2018 quarterly groundwater monitoring program and subsequent groundwater sampling analytical results. Figures 4 through 17 show groundwater elevation contours generated using data from the quarterly and subsequent sampling events.

Grab groundwater samples were collected using temporary well points from at and around the 207 40th Street parcel on February 19, 2019. This was done to gather data on groundwater quality in anticipation of foundation repair and dewatering work at the parcel. The samples were collected using laboratory-supplied bottles and submitted under chain of custody to IAL for VOC+15 and PAH compound analysis. Concentration of benzene and/or PAH compounds in excess of the applicable GWQS were reported in two grab samples from temporary points.

A permanent monitoring well, MW-29, was installed adjacent to the west of the 207 40th Street parcel on March 15, 2019 to confirm the results of the grab groundwater samples. A groundwater sample was collected from the well on March 29, 2019 using laboratory-supplied bottles and submitted under chain of custody to IAL for VOC+15 and PAH compound analysis which confirmed the analytical results from the grab groundwater samples.

Based on the confirmation of benzene in MW-29, water from dewatering activities at the site was sent to a treatment system prior to discharge to the CMCMUA sanitary sewerage treatment system. The water treatment, sampling, and discharge were conducted in accordance with an existing agreement with the CMCMUA, Sea Isle City, and the NJDEP. Eighty-five thousand six hundred fourteen (85,614) gallons of water was removed as part of

the foundation installation and dewatering project at 207 40th Street, sent to the on-site treatment system, and discharged to the sanitary sewerage system. Groundwater contaminant concentrations in MW-29 decreased by an order of magnitude after the completion of the dewatering in May 2019.

Following the completion of dewatering activities at 207 40th Street, two rounds of sampling of wells MW-11, MW-17, MW-23, MW-28, and MW-29 were completed. Samples were collected in September 2019 and in December 2019 after the completion of the dewatering project at 207 40th Street in May 2019. An additional full round of groundwater sampling was conducted in March 2020. The March 2020 sampling event included wells from the quarterly sampling events and well MW-29, which had been installed after the completion of the quarterly sampling. Figures 14 through 17 show groundwater elevation contours for the 2019 and 2020 sampling events. Analytical data for samples collected from 2019 and 2020 including from well MW-29 are provided in Table 2.

5.5 Analytical Results

During the groundwater monitoring conducted from February 2016 until March 2020, exceedances of applicable GWQS were reported in samples collected from monitoring wells MW-11, MW-13, MW-15, MW-17, MW-20, MW-23, MW-24-2, MW-26R, MW-27, MW-28 and MW-29. The exceedances reported in the MW-11 groundwater were limited to PAH compounds from a single sample, collected in August 2017. Exceedances of PAH GWQS in groundwater from MW-13 were reported in the samples collected in November 2016 and February 2017. The exceedance reported from MW-15 groundwater was limited to vinyl chloride, in a single sample collected in November 2017. The source of the vinyl chloride is unknown, and vinyl chloride was not reported in samples collected from MW-15 in February 2018 or May 2018, or in samples collected before November 2017.

Exceedances of applicable PAH GWQS were reported in samples collected from MW-17 in February 2017 and May 2017. Exceedances of applicable PAH GWQS were reported in samples collected from MW-20 in May 2017 and August 2017. The exceedance reported at MW-23 was limited to PAH compounds in a single sample, collected December 2016. No clear relationship between PAH concentrations and sample turbidity was observed.

Exceedances of the GWQS for benzene have been reported in samples collected from MW-24-2 from February 2016 until May 2018, except for August 2017 and February 2018 when benzene was reported at concentrations below the GWQS. Exceedances of the GWQS for benzene have been reported in samples collected from MW-26R from May 2017 until May 2018, except for August 2017 when benzene was reported at a concentration below the GWQS. Exceedances of the benzene GWQS were reported in samples collected from MW-27 in August 2016, November 2016, and May 2017. The exceedance reported at MW-28 was limited to PAH compounds in a single sample, collected May 2016.

Exceedances of benzene were reported in MW-29 when it was installed in March 2019 but have decreased since dewatering was completed for the 207 40th Street foundation project.

No exceedances of applicable GWQS were reported for samples collected from wells MW-14, MW-24-1, and MW-25 during the groundwater monitoring period.

Vinyl chloride was reported in the November 2017 sample collected from MW-15. MW-15 is an upgradient well near the northeast corner of 39th Street and Central Avenue. Vinyl chloride was not detected in the six samples collected from this well before the November 2017 sampling event and was not reported in the sample collected in February 2018. It was not reported in samples collected from other wells.

See Table 2 for a summary of the analytical results reported during the groundwater monitoring period.

In the last three rounds of quarterly sampling, the only reported exceedances have been for benzene, in samples collected from monitoring wells MW-24-2 and MW-26R. Review of the geochemical data for these wells found oxidation-reduction potential (ORP) values of -100 mV or lower for groundwater, indicating a reducing environment. The dissolved oxygen concentrations varied during quarterly monitoring. Data from the March 2020 sampling event reported ORP values of lower than -100 mV. Dissolved oxygen concentrations recorded during the March 2020 sampling event were less than 1 milligrams per liter (mg/L). Geochemical data is summarized in Table 3.

Two rounds of additional groundwater sampling were conducted after the installation of MW-29 and the completion of dewatering at 207 40th Street. The purpose of the additional sampling was to provide supplemental data on groundwater quality relative to MW-29.

Results from the September and December 2019 groundwater samples collected from wells MW-11, MW-17, MW-23, MW-28, and MW-29 contained exceedances of the applicable GWQS for benzene and benzo(a)anthracene in the September 2019 sample collected from MW-29. No exceedances were reported in the other sampled wells. The results from the December 2019 sampling event confirmed the five well samples were non-detect for PAH compounds. The only exceedance reported was in the sample collected from well MW-29. A benzene concentration of 1.04 µg/L was reported. This is an order of magnitude lower than the 11.5 µg/L benzene concentration reported in the September 2019 MW-29 sample and the 39.4 µg/L reported when the well was first sampled in March 2019.

An additional round of sampling was completed in March 2020. This round included wells from the quarterly sampling events plus well MW-29. Review of the groundwater analytical results showed exceedances of the GWQS for benzene in samples collected from wells MW-24-2 and MW-29. The benzene concentration in the MW-29 sample increased slightly,

from 1.02 µg/L to 2.03 µg/L. The benzene concentration in the sample collected from MW-26R, which had previously reported benzene exceedances, was 0.596 µg/L. The benzo(a)anthracene concentration reported in the MW-24-2 sample was 0.138 µg/L, which is slightly above the GWQS of 0.1 µg/L. Benzo(a)anthracene concentrations in previous samples collected from MW-24-2 were below the GWQS. The 0.138 µg/L can be rounded down to 0.1 µg/L. Based on this, and the prior benzo(a)anthracene concentration at MW-24-2, the March 2020 concentration is considered an outlier and no further monitoring for PAH compounds is proposed.

Results from the September 2019, December 2019, and March 2020 sampling events are provided in Table 2.

5.6 Statistical Data Evaluation

A Mann-Kendall statistical analysis was performed on benzene concentrations reported in samples collected from monitoring wells MW-24-2 and MW-26R. These were the wells with exceedances reported during the last three rounds of quarterly sampling performed at the site. The analysis demonstrated a decreasing trend in benzene concentration at MW-24-2, with a 90% confidence level. The MW-26R benzene concentration was determined to be on a decreasing trend, using EPA ProUCL for a Mann-Kendell analysis of the data.

Based on the results of the Mann-Kendall data evaluations, MNA is an effective method of addressing remaining groundwater impacts associated with the Site.

See Appendix E for the Mann-Kendall spreadsheets completed on results from monitoring wells MW-24-2 and MW-26R.

Insufficient analytical data is available to run the Mann-Kendall data evaluation on MW-29 analytical data. The four samples collected from MW-29 have shown a decreasing trend in benzene concentration, from a concentration of 39.4 µg/L in the March 2019 sample to 11.5 µg/L in the September 2019 sample to 1.04 µg/L in the December 2019 sample, with a slight increase to 2.03 µg/L in the March 2020 sample. While this is slightly higher than the concentration reported in the December 2019 sample, it is well below the concentration reported in the March 2019 sample.

5.7 Quality Assurance and Quality Control

Quality Assurance and Quality Control (QA/QC) procedures were implemented during the RA to document the analytical methods, precision, accuracy, completeness, comparability, and representativeness of the data generated. Analytical methods and QA sample frequencies used during sampling consisted of the following:

- The electronic data deliverables (EDD) were submitted to the NJDEP on August 23, 2018. On August 24, 2018, the NJDEP informed GEI via e-mail that the submittals had been processed, had passed, and had been logged into the NJDEP system.
- With the exception of low-level VOCs (1,4-dioxane, 1,2-dibromoethane, and 1,2-dibromor-3-chloropropane), all detection limits were at or below applicable GWQS. Based on project contaminants of concern these compounds are not expected to be present.
- Due to matrix interference, Method 8270D matrix spikes and matrix spike duplicates (MS/MSD) for report E18-01326 did not meet the Relative Percent Difference (RPD) or percent recovery. NJDEP Data of Known Quality Protocols (DKQP) criteria were not met for Method 8270D MS/MSD and Laboratory Control Samples (LCS). The lab noted the presence of sediment in samples as a potential issue with reproduction of results.

Analytical data and Sample Delivery Group Case Narratives were reviewed by GEI. The EDD submission e-mails are provided in Appendix G. Electronic copies of the laboratory reports are provided in Appendix H. Based on GEI's review of laboratory analytical procedures, the data are useful and reliable.

5.8 Classification Exception Area/Well Restriction Area

A CEA/WRA for the Site was submitted to the NJDEP in April 2016. Contaminants of concern for the CEA/WRA consisted of benzene, 2-methylnaphthalene, benzo(a)anthracene, benzo(b)fluoranthene, and benzo(a)pyrene. During the quarterly sampling conducted since April 2016, the concentrations of 2-methylnaphthalene, benzo(a)anthracene, benzo(b)fluoranthene, and benzo(a)pyrene have dropped below applicable GWQS. The only exceedance is the benzene reported in wells MW-24-2 and MW-29. Samples collected from MW-26R in November 2017, February 2018 and May 2018 reported benzene concentrations above the applicable GWQS. MW-26R will be included in the groundwater monitoring program.

An update to the CEA/WRA is provided in Appendix F. The CEA/WRA was revised to reflect the findings from the past three years of groundwater sampling. Specifically, the contaminant of concern will be benzene, and the area of the CEA will be reduced to reflect the new delineation limits. The time period of the CEA/WRA was estimated using a benzene half-life of 1,070 days, and the highest benzene concentration reported from the March 2020 groundwater sampling event. This half-life was calculated using the observed decrease in benzene concentration at MW-24-2 from May 2016 until May 2018. The new estimated time period for the CEA/WRA is approximately 6 years, with an end date of 2026. Three years were added to the calculated length of the CEA due to the presence of impacted soils in right-of-way areas and properties along the periphery of the impacted area. The horizontal extent

of the plume was calculated using available data regarding hydraulic gradient, hydraulic conductivity and total organic carbon along with published values for effective porosity and bulk density of formation, using the spreadsheet in Appendix F of this report.

Please see Figures 18 and 19 for the proposed revised CEA/WRA limits and cross section. The revised CEA/WRA Fact Sheet, figure showing the proposed revisions to the CEA/WRA limits, and spreadsheet used to estimate duration of CEA/WRA, is provided in Appendix F. Data from the May 2018 and March 2020 sampling event was used to generate isopleths of benzene concentrations in groundwater at the site. Please see Figure 20 for the May 2018 benzene isopleth and Figure 21 for the March 2020 benzene isopleth.

5.9 Monitored Natural Attenuation Application

5.9.1 Limits of Groundwater Plume

The plume of groundwater contamination associated with the MGP Site remained consistent until source material remediation work began in the 2000s. As of March 2020, groundwater exceedances were limited to two well locations (MW-24-2 and MW-29), for benzene only. These results demonstrate that contamination has been decreasing and is within an order of magnitude of the standard for benzene. Periodic exceedances of the benzene GWQS have been reported in samples collected from MW-26R. This well will therefore be included in the monitoring program.

5.9.2 Effective Monitoring Limitations

There are no effective monitoring limitations associated with groundwater impacts at the site. Upgradient, downgradient, and source wells are currently in place and will allow for monitoring of groundwater quality through the duration of the CEA/WRA.

5.9.3 Potential Receptor Impacts

The benzene concentrations are below the NJDEP Generic Vapor Intrusion Groundwater Screening Level (GWSL) of 20 µg/L. VI is therefore not a concern.

There is a public water supply well approximately 150 feet east-southeast of the former MGP Site. The well is outside of the area of delineated groundwater impacts. The well is also approximately 902 feet deep and is screened in the Kirkwood aquifer (Atlantic City 800-foot sand) strata, between 720 and 902 feet BGS. The withdrawal zone for this well is separated from the soil and groundwater affected by the MGP Site by several hundred feet of deposits, including approximately 350 feet of confining clay layers. Groundwater collected from 25 to 35 feet BGS in 2007 did not reveal the presence of MGP-related contaminants. The sample was collected from pump test well PW-1. MGP Site-related impacts are limited to the

shallow aquifer, which is not used as a potable water source or a source of irrigation or industrial usage water. Groundwater usage is therefore not an exposure pathway. The Site and associated groundwater impacts are in a residential area, with no wetlands present, and no surface-water bodies within 200 feet of the extent of contamination. Ecological receptors are not impacted by the groundwater contamination.

5.9.4 Imminent Threat to Receptors

Based on currently available data regarding hydraulic conductivity and hydraulic gradient, as well as estimated values for effective porosity, the fraction of organic carbon in soil, and the benzene half-life, the contaminants are expected to travel approximately 45 feet during the six years that the CEA/WRA is expected to be place. The proposed downgradient wells are approximately 100 feet from the source area where MW-24-2 and MW-29 are located. One residential property (207 40th Street) is within the CEA boundary. The benzene concentrations reported in MW-29, adjace00nt to the 207 40th Street property, have been below the Generic Vapor Intrusion GWSL in the last three rounds of sampling, with the only exceedance of the GWSL reported in the March 2019 sample.

5.9.5 Free & Residual Product/Source Material

The remediation work performed at the site has addressed the majority of the soil exceedances and source material associated with the MGP Site. The remaining soil exceedances are limited to right-of-way areas beneath 39th Street, 40th Street, and Central Avenue, as well as limited impacts at 3820 Central Avenue, 218 40th Street, and 220 40th Street. Limited soil excavation work was performed in 39th Street in 2017 as part of the 39th Street sanitary sewerage restoration project. During this remediation, free and residual product beneath 39th Street and Central Avenue was excavated and removed. No free or residual product has been observed in the wells associated with the monitoring program. Given the amount of time since operations ceased at the site and the soil remediation that has been completed, remaining soil contamination is not expected to increase groundwater contaminant concentrations over time.

5.10 Additional Groundwater Monitoring

As part of the Groundwater RAP that GEI submitted to the NJDEP, GEI has proposed sampling for BTEX compounds every year in the following monitoring wells:

Source Area: MW-24-2
MW-26R
MW-29

Plume Fringe: MW-19RR

MW-23
MW-25
MW-27
MW-28

Sentinel well: MW-17

A copy of the Groundwater RAP application is provided in Appendix B of this report. Groundwater sampling will be conducted using LFPS techniques in accordance with the NJDEP Field Sampling Procedures Manual. Groundwater samples will be collected using laboratory-supplied bottles and will be submitted under chain of custody to a New Jersey-certified laboratory for analysis. Field blank and trip blank samples will be collected during each sampling event, for quality assurance purposes.

The following monitoring wells will be abandoned after the Groundwater RAP has been approved by the NJDEP:

MW-11
MW-13
MW-14
MW-15
MW-24-1

See Figure 22 for the locations of the wells proposed for abandonment and the wells proposed to be maintained as part of the groundwater monitoring program.

6. Conceptual Site Model

GEI prepared a Conceptual Site Model (CSM) in accordance with Technical Guidance for the Preparation and Submission of a Conceptual Site Model, dated August 2019 (version 1.1). The CSM is defined by the NJDEP as

"…a written and/or illustrative representation of the physical, chemical and biological processes that control the transport, migration, and actual/potential impacts of contamination (in soil, air, groundwater, surface water and/or sediments) to human and/or ecological receptors. Development and refinement of the CSM will help identify investigation data gaps in the characterization process and can ultimately support remedial decision making."

The CSM identifies sources of contamination, receptors, and pathways associated with the Site, and provides a framework to assist in the evaluation of remedial alternatives and impacts, if any, to potential receptors.

6.1 Nature of Release

Contamination identified at the Site is associated with the former MGP facility operated at the southwest corner of 39th Street and Central Avenue from the late 1800s until 1942. At the time the properties adjacent to the MGP plant to the northeast, northwest, and southwest consisted of undeveloped marshland. Material associated with MGP operations is presumed to have discharged, leaked, or spilled and then migrated to the marshland surrounding the plant. Based on analytical data, contaminants of concern associated with the MGP are VOC and PAH compounds.

The majority of the soil impacts were present at or below the peat layer, as soils above the peat layer were brought to the Site as part of the development of the property from marshland to residential use. The majority of the groundwater impacts are found in shallow groundwater at and above the peat layer. A small area of impacted groundwater below the peat layer was identified at the former plant parcel. These impacts were observed near the foundation of the former gas holder. Most of the deeper impacted soil previously identified in this area was excavated during the 2010-2011 RA. Benzene concentrations in groundwater at MW-24-2, which was installed in this area at the approximate depth where the deeper impacts had been reported, are therefore expected to continue to decline.

6.2 Constituents of Concern

Constituents of concern identified in association with the MGP Site consist of VOCs, primarily benzene, and PAH compounds. The contaminants have been identified in association with soil and groundwater in the vicinity of the MGP Site. In the past, the groundwater impacts at the Site have consisted of BTEX and PAH compounds. Currently, benzene is the only contaminant exceeding applicable GWQS. The updated CEA/WRA for the site will address benzene exceedances, which in the most recent groundwater sampling events were limited to wells MW-24-2, MW-26R, and MW-29.

6.3 Potential Migratory and Exposure Pathways

Common potential exposure pathways associated with release sites include:

- Direct contact with impacted soil
- Ingestion of contaminated soil or groundwater
- Inhalation of vapors associated with contaminants

The MGP Site is in the middle of the barrier island of Sea Isle City and as a result has a relatively flat gradient in shallow groundwater across the site. Movement of groundwater is affected by areas of infiltration in landscaped areas of residential parcels that creates localized mounding. Groundwater flows from these areas of mounding toward the roadway including stormwater and utility corridors that surround the site. Because groundwater is very shallow in this area (1 to 3 feet below grade), utility corridors intercept the groundwater table and act as a preferential pathway by transporting groundwater towards the intersection of 40th Street and Central Avenue. This intersection is one of the lowest points on the island and is prone to flooding.

Groundwater impacts associated with the former MGP Site are in shallow overburden groundwater. Samples collected in 2008 from below confining clay that is encountered from 35 to 50 feet below grade did not contain MGP-related contaminants at concentrations above applicable GWQS. Source removal of MGP-contaminated soils has been effective at reducing contaminant concentrations in groundwater to concentrations that are now limited to benzene and are less than an order of magnitude above the GWQS. The quarterly and other subsequent post-remediation groundwater sampling results documented in this report confirm that MGP-associated groundwater impacts are limited to MW-24-2, MW-26/MW-26R, and MW-29. No exceedance was reported in the March 2020 sample collected from MW-26R. The areas where these wells are located were remediated, however the depth of MGP contaminants in soil (specifically benzene), extended vertically beyond the limits where excavation was practicable. While the benzene concentrations in soil at these

locations were below RDCSRS, there is residual benzene that partitions gradually into groundwater and may slow natural attenuation.

Only one potable water well has been identified within one-half mile of the groundwater contamination associated with the site. This well is at the Sea Isle City DPW site, 147 40th Street. This site is across the street from the former MGP Site. The public water supply well is screened from 720 to 902 feet BGS, far below the shallow groundwater impacts associated with the former MGP Site. The screened interval is separated from the MGP-related impacts by low permeability clay layers.

Benzene concentrations in groundwater for the last three rounds of sampling have been below the applicable VI GWSL for benzene. The only exceedance of the VI Generic GWSL was reported in a sample collected from MW-29 in March 2019. Benzene concentrations at this well have since dropped to below the VI Generic GWSL in the past three rounds of samples collected. Based on this information, VI is not a concern.

7. Project Costs

Total costs of RA conducted at the former Sea Isle City MGP Site are estimated to be $18,600,000. This includes multiple rounds of RA completed at the site. Of that total, approximately $225,000 in cost was incurred as part of the groundwater monitoring program.

8. Conclusions

Groundwater monitoring conducted from February 2016 until March 2020 has demonstrated that contaminant concentrations have dropped below applicable GWQS, except for benzene concentrations in two monitoring wells. These wells, MW-24-2 and MW-29 are on (MW-24-2) or downgradient (MW-29) of the former plant parcel. Statistical analysis of the benzene concentrations in well MW-24-2 shows a decreasing or stable trend. Insufficient data is available to run a statistical analysis on the MW-29 results, but an empirical comparison of results from March 2019 versus March 2020 confirms a decrease in contaminant concentrations. The benzene concentrations reported in wells MW-24-2 and MW-29 are within an order of magnitude of the one µg/L GWQS for benzene. The benzene concentration reported in the sample collected from well MW-26R in March 2020 was below the GWQS, but there had been several rounds where the benzene concentration exceeded the GWQS, most recently in May 2019. Statistical analysis of analytical data from MW-26 (previous well at this location) and MW-26R shows a decreasing trend in contaminant concentration. Based on the detection of benzene exceedances in samples collected from MW-26R during the quarterly sampling, this well will be included in the groundwater monitoring program.

The residual benzene concentrations in groundwater associated with the MGP Site are also below the Generic GWSL that would trigger a VI investigation. No water supply wells are within the impacted area.

GEI proposes that MNA be used to address the remaining groundwater contamination in monitoring wells MW-24-2 and MW-29. MW-26R will also be sampled as a source area well. Wells MW-19R, MW-23, MW-25, MW-27 and MW-28 will be sampled as plume fringe wells, and MW-17 as a sentinel well. Sampling will occur on an annual basis. The wells will be sampled using LFPS methods and using laboratory-supplied bottles. Samples will be submitted under chain of custody to a New Jersey-certified laboratory for analysis of BTEX compounds.

Wells MW-11, MW-13, MW-14, MW-15 and MW-24-1 will be abandoned by a New Jersey-licensed driller once approval of the Groundwater Remedial Action Permit is received from the NJDEP.

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Tables

Table 1
Monitoring Well Summary
Groundwater Remedial Action Report
Sea Isle City Former Manufactured Gas Plant
Sea Isle City, New Jersey

Well ID	Ground Surface Elevation (NAVD)	Top of PVC Elevation (NAVD)	Well Screen Depth (ft bgs)		Well Status
			Top	Bottom	
MW-8	5.8	5.27	0.0	10.0	Abandoned
MW-9	--	--	--	--	Abandoned
MW-10	4.05	3.75	0.5	10.5	Abandoned
MW-11	4.12	3.84	1.0	11.0	Active
MW-12	4.79	4.45	1.0	9.0	Missing
MW-13	4.53	4.16	1.0	8.0	Active
MW-14	3.68	3.20	1.0	10.0	Active
MW-15	4.05	3.47	2.5	12.5	Active
MW-16	3.92	3.50	2.2	12.2	Abandoned
MW-17	3.07	2.47	1.5	14.5	Active
MW-18	6.19	5.84	2.2	12.2	Abandoned
MW-19	5.34	4.97	2.2	12.2	Abandoned
MW-19R	--	--	2.0	12.0	Abandoned
MW-19RR	5.3	4.52	2.0	12.0	Active
MW-20	5.3	4.71	2.0	12.0	Active
MW-21	5	4.74	2.0	12.0	Active
MW-22	4.6	4.21	2.0	12.0	Abandoned
MW-23	4.1	3.57	2.0	12.0	Abandoned
MW-24-1	5.2	4.62	2.0	12.0	Active
MW-24-2	5.1	4.77	18.0	23.0	Active
MW-25	4.5	4.00	2.0	12.0	Active
MW-26	3.4	2.91	2.0	12.0	Abandoned
MW-26R	3.5	3.32	2.0	12.0	Active
MW-27	3.8	3.21	2.0	10.0	Active
MW-28	4	3.45	2.0	12.0	Active
MW-29	4.8	4.34	2.0	12.0	Active
PZ-1	4.3	4.20	0.5	9.8	Abandoned
PZ-2	3.46	3.30	0.5	8.2	Abandoned
PZ-3	4.09	3.87	0.5	9.0	Abandoned
PZ-4	3.52	3.23	0.5	7.8	Abandoned
PZ-5	2.8	2.61	0.5	8.2	Abandoned
PZ-12D	--	--	--	--	Abandoned
2003 survey	4.69	4.36	17.0	27.0	Not applicable
2007 survey	4.6	4.32	17.0	27.0	Not applicable
PZ-10A	5	6.03	2.0	12.0	Abandoned
PZ-10B	4.9	5.36	15.0	25.0	Abandoned
PZ-11	5.2	6.77	2.0	12.0	Abandoned
PZ-13A	5	6.03	2.0	12.0	Abandoned
PZ-13B	4.84	5.50	15.0	25.0	Abandoned
PZ-14	5	6.07	2.0	12.0	Abandoned
PZ-15A	5.1	6.27	2.0	12.0	Abandoned
PZ-15B	5	5.95	15.0	25.0	Abandoned
PZ-16	5.1	7.20	2.0	12.0	Abandoned
PW	5	6.71	25.0	35.0	Abandoned
B-190	5.6	6.80	43.0	50.0	Abandoned

General Notes:
1. ft bgs = Feet below ground surface.
2. "--" = No data collected.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-11 01262-002 02/09/2016				MW-11 04762-002 05/25/2016				MW-11 08165-004 08/31/2016				MW-11 11064-003 11/30/2016			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.617	ND		1.00	0.617	ND		1.00	0.516	ND		1.00	0.516
Chloromethane	74-87-3	**NS**	**240**	ND		1.00	0.487	ND		1.00	0.487	ND		0.500	0.443	ND		0.500	0.443
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.522	ND		1.00	0.522	ND		1.00	0.655	ND		1.00	0.655
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.506	ND		1.00	0.506	ND		1.00	0.516	ND		1.00	0.516
Chloroethane	75-00-3	**5**	**26000**	ND		1.00	0.781	ND		1.00	0.781	ND		1.00	0.454	ND		0.500	0.454
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		1.00	0.643	ND		1.00	0.643	ND		1.00	0.396	ND		0.500	0.396
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		1.00	0.612	ND		1.00	0.612	ND		0.500	0.329	ND		0.500	0.329
Acetone	67-64-1	**6000**	**21000000**	ND		5.00	0.820	ND		5.00	0.820	7.53		1.00	0.760	5.36		2.00	0.760
Carbon disulfide	75-15-0	**700**	**1500**	ND		2.00	0.543	ND		1.00	0.543	ND		0.500	0.299	ND		0.500	0.299
Methylene chloride	75-09-2	**3**	**920**	ND		2.00	1.99	ND		2.00	1.99	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		1.00	0.615	ND		1.00	0.615	ND		0.500	0.378	ND		0.500	0.378
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		1.00	0.580	ND		1.00	0.580	ND		0.500	0.406	ND		0.500	0.406
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		1.00	0.664	ND		1.00	0.664	ND		0.500	0.366	ND		0.500	0.366
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		1.00	0.526	ND		1.00	0.526	ND		0.500	0.401	ND		0.500	0.401
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		5.00	0.836	ND		1.00	0.836	0.820	J	1.00	0.623	ND		2.00	0.623
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.724	ND		1.00	0.724	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		1.00	0.608	ND		1.00	0.608	ND		0.500	0.434	ND		0.500	0.434
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		1.00	0.501	ND		1.00	0.501	ND		0.500	0.405	ND		0.500	0.405
Carbon tetrachloride	56-23-5	**1**	**1**	ND		1.00	0.499	ND		1.00	0.499	ND		0.500	0.315	ND		0.500	0.315
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		1.00	0.628	ND		1.00	0.628	ND		0.500	0.427	ND		0.500	0.427
Benzene	71-43-2	**1**	**20**	ND		1.00	0.391	ND		1.00	0.391	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		1.00	0.639	ND		1.00	0.639	ND		0.500	0.316	ND		0.500	0.316
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		1.00	0.578	ND		1.00	0.578	ND		0.500	0.345	ND		0.500	0.345
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**200**	**56.3**	ND		**200**	**56.3**	ND		**100**	**69.6**	ND		**100**	**69.6**
Bromodichloromethane	75-27-4	**1**	**2**	ND		1.00	0.688	ND		1.00	0.688	ND		0.500	0.349	ND		0.500	0.349
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		1.00	0.377	ND		1.00	0.377	ND		0.500	0.348	ND		0.500	0.348
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.425	ND		1.00	0.425	ND		0.500	0.365	ND		1.00	0.365
Toluene	108-88-3	**600**	**330000**	ND		1.00	0.507	ND		1.00	0.507	ND		0.500	0.293	ND		0.500	0.293
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		1.00	0.409	ND		1.00	0.409	ND		0.500	0.327	ND		0.500	0.327
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.542	ND		1.00	0.542	ND		1.00	0.575	ND		1.00	0.575
Tetrachloroethene	127-18-4	**1**	**31**	ND		1.00	0.445	ND		1.00	0.445	ND		0.500	0.381	ND		0.500	0.381
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.552	ND		1.00	0.552	ND		0.500	0.352	ND		1.00	0.352
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.412	ND		1.00	0.412	ND		1.00	0.575	ND		1.00	0.575
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**1.00**	**0.499**	ND		**1.00**	**0.499**	ND		**0.500**	**0.356**	ND		**0.500**	**0.356**
Chlorobenzene	108-90-7	**50**	**770**	ND		1.00	0.527	ND		1.00	0.527	ND		0.500	0.287	ND		0.500	0.287
Ethylbenzene	100-41-4	**700**	**700**	ND		1.00	0.407	ND		1.00	0.407	ND		0.500	0.294	ND		0.500	0.294
Total Xylenes	1330-20-7	**1000**	**8600**	ND		2.00	1.29	ND		2.00	1.29	ND		1.00	0.944	ND		1.00	0.944
Styrene	100-42-5	**100**	**180000**	ND		1.00	0.392	ND		1.00	0.392	ND		1.00	0.254	ND		0.500	0.254
Bromoform	75-25-2	**4**	**300**	ND		1.00	0.514	ND		1.00	0.514	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		1.00	0.369	ND		1.00	0.369	ND		0.500	0.307	ND		0.500	0.307
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		1.00	0.493	ND		1.00	0.493	ND		0.500	0.495	ND		0.500	0.495
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		1.00	0.595	ND		1.00	0.595	ND		0.500	0.286	ND		0.500	0.286
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		1.00	0.426	ND		1.00	0.426	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		1.00	0.605	ND		1.00	0.605	ND		0.500	0.275	ND		0.500	0.275
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.788**	ND		**1.00**	**0.788**	ND		**1.00**	**0.534**	ND		**1.00**	**0.534**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.599	ND		1.00	0.599	ND		0.500	0.243	ND		0.500	0.243
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.673	ND		1.00	0.673	ND		0.500	0.253	ND		0.500	0.253
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.765	ND		1.00	0.765	ND		1.00	0.656	ND		1.00	0.656
Methyl acetate	79-20-9	**7000**	**NS**	ND		1.00	0.462	ND		1.00	0.462	ND		0.500	0.348	ND		0.500	0.348
Cyclohexane	110-82-7	**NS**	**16000**	ND		2.00	0.482	ND		2.00	0.482	ND		0.500	0.430	ND		1.00	0.430
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.744	ND		1.00	0.744	ND		0.500	0.358	ND		0.500	0.358
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		1.00	0.409	ND		1.00	0.409	ND		0.500	0.348	ND		0.500	0.348
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	8.35	J		NA	5.36			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	8.35	J		NA	5.36			NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-11 01262-002 02/09/2016				MW-11 04762-002 05/25/2016				MW-11 08165-004 08/31/2016				MW-11 11064-003 11/30/2016			
Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.216	ND		1.00	0.216	ND		1.00	0.216	ND		1.00	0.216
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.271	ND		1.00	0.271	ND		1.00	0.271	ND		1.00	0.271
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.199
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.213	ND		1.00	0.213	ND		1.00	0.213	ND		1.00	0.213
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.263	ND		1.00	0.263	ND		1.00	0.263	ND		1.00	0.263
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.222	ND		1.00	0.222	ND		1.00	0.222	ND		1.00	0.222
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.192	ND		1.00	0.192	ND		1.00	0.192	ND		1.00	0.192
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.226	ND		1.00	0.226	ND		1.00	0.226	ND		1.00	0.226
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.277	ND		1.00	0.277	ND		1.00	0.277	ND		1.00	0.277
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.431

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-11 01710-007 02/28/2017				MW-11 04303-012 05/24/2017				MW-11 07106-004 08/16/2017				MW-11 09902-004 11/13/2017			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		1.00	0.495	ND		1.00	0.495	ND		0.500	0.495	ND		0.500	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		1.00	0.433	ND		1.00	0.433	ND		0.500	0.433	ND		0.500	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.33	10.2		2.00	1.33	6.26		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.464	ND		1.00	0.464	ND		0.500	0.464	ND		1.00	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.473	ND		1.00	0.473	ND		1.00	0.473	ND		0.500	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.442	ND		1.00	0.442	ND		1.00	0.442	ND		0.500	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		1.00	0.290	ND		1.00	0.290	ND		0.500	0.290	ND		0.500	0.290
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		1.00	0.458	ND		1.00	0.458	ND		0.500	0.458	ND		0.500	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		1.00	0.351	ND		1.00	0.351	ND		0.500	0.351	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		1.00	0.341	ND		1.00	0.341	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		1.00	0.364	ND		1.00	0.364	ND		0.500	0.364	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.304	ND		1.00	0.304	ND		0.500	0.304	ND		1.00	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		0.500	0.339	ND		1.00	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		0.500	0.411	ND		0.500	0.411	ND		1.00	0.411	ND		0.500	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.411	ND		1.00	0.411	ND		0.500	0.411	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	10.2			NA	6.26			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	10.2			NA	6.26			NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-11 01710-007 02/28/2017				MW-11 04303-012 05/24/2017				MW-11 07106-004 08/16/2017				MW-11 09902-004 11/13/2017			
Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.129	ND		1.00	0.129	ND		1.00	0.129	ND		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	**0.211**		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	0.179		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	0.177		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	**0.127**		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	0.195		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	0.200		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
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BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

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Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-11 01326-001 02/20/2018				MW-11 04010-001 05/21/2018				MW-11 06628-002 09/04/2019				MW-11 09097-005 12/11/2019			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.490	ND		1.00	0.490
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.317	ND		0.500	0.317
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.149	ND		1.00	0.149
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.356	ND		0.500	0.356
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.390	ND		0.500	0.390
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.433	ND		0.500	0.433	ND		0.500	0.445	ND		0.500	0.445
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.409	ND		0.500	0.409
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	65.5		2.00	1.33	ND		2.00	1.95	ND		2.00	1.95
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.464	ND		0.500	0.464	ND		1.00	0.220	ND		1.00	0.220
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.281	ND		0.500	0.281
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.265	ND		0.500	0.265
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.193	ND		0.500	0.193
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.156	ND		0.500	0.156
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	0.701	ND		2.00	0.701
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.174	ND		1.00	0.174
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.163	ND		0.500	0.163
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.105	ND		0.500	0.105
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.119	ND		0.500	0.119
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.271	ND		0.500	0.271
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.144	ND		0.500	0.144
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.205	ND		0.500	0.205
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.110	ND		0.500	0.110
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**36.7**	ND		**100**	**36.7**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.286	ND		0.500	0.286
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.222	ND		0.500	0.222
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.795	ND		1.00	0.795
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.174	ND		0.500	0.174
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.241	ND		0.500	0.241
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		0.500	0.473	ND		1.00	0.473	ND		0.500	0.232	ND		0.500	0.232
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.270	ND		0.500	0.270
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.975	ND		1.00	0.975
Dibromochloromethane	124-48-1	**1**	**6**	ND		0.500	0.442	ND		1.00	0.442	ND		0.500	0.381	ND		0.500	0.381
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.260**	ND		**0.500**	**0.260**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.278	ND		0.500	0.278
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.270	ND		1.00	0.270
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.881	ND		2.00	0.881
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.290	ND		0.500	0.290	ND		0.500	0.432	ND		1.00	0.432
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.423	ND		0.500	0.423
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.386	ND		1.00	0.386
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.458	ND		0.500	0.458	ND		1.00	0.791	ND		1.00	0.791
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.296	ND		1.00	0.296
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.392	ND		1.00	0.392
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.324	ND		1.00	0.324
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.572**	ND		**1.00**	**0.572**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.304	ND		0.500	0.304	ND		1.00	0.362	ND		1.00	0.362
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.339	ND		0.500	0.339	ND		1.00	0.513	ND		1.00	0.513
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.347	ND		1.00	0.347
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.487	ND		0.500	0.487
Cyclohexane	110-82-7	**NS**	**16000**	ND		0.500	0.411	ND		1.00	0.411	ND		1.00	0.548	ND		1.00	0.548
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.411	ND		0.500	0.411	ND		1.00	0.500	ND		1.00	0.500
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.241	ND		0.500	0.241
TOTAL VO's:		**NS**	**NS**	ND			NA	65.5			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	47.0	J		NA	34.6	J		NA	7.00	JN		NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	47.0	J		NA	100	J		NA	7.00	JN		NA	ND			NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-11 01326-001 02/20/2018				MW-11 04010-001 05/21/2018				MW-11 06628-002 09/04/2019				MW-11 09097-005 12/11/2019			
Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.275	ND		1.00	0.275
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.150	ND		1.00	0.150
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.160	ND		1.00	0.160
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.129	ND		1.00	0.129	ND		1.00	0.326	ND		1.00	0.326
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.282	ND		1.00	0.282
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.289	ND		1.00	0.289
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.245	ND		1.00	0.245
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.235	ND		1.00	0.235
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.366	ND		1.00	0.366
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.462	ND		1.00	0.462
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.367	ND		1.00	0.367

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-11 01830-006 03/11/2020				MW-13 01260-003 02/10/2016				MW-13 04761-001 05/24/2016				MW-13 08056-002 08/29/2016			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.490	ND		1.00	0.617	ND		1.00	0.617	ND		1.00	0.516
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.317	ND		1.00	0.487	ND		1.00	0.487	ND		0.500	0.443
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.149	ND		1.00	0.522	ND		1.00	0.522	ND		1.00	0.655
Bromomethane	74-83-9	**10**	**20**	ND		0.500	0.356	ND		1.00	0.506	ND		1.00	0.506	ND		1.00	0.516
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.390	ND		1.00	0.781	ND		1.00	0.781	ND		0.500	0.454
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.445	ND		1.00	0.643	ND		1.00	0.643	ND		0.500	0.396
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.409	ND		1.00	0.612	ND		1.00	0.612	ND		0.500	0.329
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.95	ND		2.00	0.820	ND		5.00	0.820	ND		1.00	0.760
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.220	ND		1.00	0.543	ND		1.00	0.543	ND		0.500	0.299
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		2.00	1.99	ND		2.00	1.99	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.281	ND		1.00	0.615	ND		1.00	0.615	ND		0.500	0.378
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.265	ND		1.00	0.580	ND		1.00	0.580	ND		0.500	0.406
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.193	ND		1.00	0.664	ND		1.00	0.664	ND		0.500	0.366
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.156	ND		1.00	0.526	ND		1.00	0.526	ND		0.500	0.401
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	0.701	ND		2.00	0.836	ND		2.00	0.836	ND		1.00	0.623
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.174	ND		1.00	0.724	ND		1.00	0.724	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.163	ND		1.00	0.608	ND		1.00	0.608	ND		0.500	0.434
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.105	ND		1.00	0.501	ND		1.00	0.501	ND		0.500	0.405
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.119	ND		1.00	0.499	ND		1.00	0.499	ND		0.500	0.315
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.271	ND		1.00	0.628	ND		1.00	0.628	ND		0.500	0.427
Benzene	71-43-2	**1**	**20**	ND		0.500	0.144	ND		1.00	0.391	ND		1.00	0.391	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.205	ND		1.00	0.639	ND		1.00	0.639	ND		0.500	0.316
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.110	ND		1.00	0.578	ND		1.00	0.578	ND		0.500	0.345
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**36.7**	ND		**200**	**56.3**	ND		**500**	**56.3**	ND		**100**	**69.6**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.286	ND		1.00	0.688	ND		1.00	0.688	ND		0.500	0.349
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.222	ND		1.00	0.377	ND		1.00	0.377	ND		0.500	0.348
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.795	ND		1.00	0.425	ND		2.00	0.425	ND		0.500	0.365
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.174	ND		1.00	0.507	ND		1.00	0.507	ND		0.500	0.293
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.241	ND		1.00	0.409	ND		1.00	0.409	ND		0.500	0.327
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		0.500	0.232	ND		1.00	0.542	ND		1.00	0.542	ND		1.00	0.575
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.270	ND		1.00	0.445	ND		1.00	0.445	ND		0.500	0.381
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.975	ND		1.00	0.552	ND		2.00	0.552	ND		0.500	0.352
Dibromochloromethane	124-48-1	**1**	**6**	ND		0.500	0.381	ND		1.00	0.412	ND		1.00	0.412	ND		1.00	0.575
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.260**	ND		**1.00**	**0.499**	ND		**1.00**	**0.499**	ND		**0.500**	**0.356**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.278	ND		1.00	0.527	ND		1.00	0.527	ND		0.500	0.287
Ethylbenzene	100-41-4	**700**	**700**	ND		1.00	0.270	ND		1.00	0.407	ND		1.00	0.407	ND		0.500	0.294
Total Xylenes	1330-20-7	**1000**	**8600**	ND		2.00	0.881	ND		2.00	1.29	ND		2.00	1.29	ND		1.00	0.944
Styrene	100-42-5	**100**	**180000**	ND		1.00	0.432	ND		1.00	0.392	ND		1.00	0.392	ND		1.00	0.254
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.423	ND		1.00	0.514	ND		1.00	0.514	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		1.00	0.386	ND		1.00	0.369	ND		1.00	0.369	ND		0.500	0.307
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		1.00	0.791	ND		1.00	0.493	ND		1.00	0.493	ND		0.500	0.495
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		1.00	0.296	ND		1.00	0.595	ND		1.00	0.595	ND		0.500	0.286
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		1.00	0.392	ND		1.00	0.426	ND		1.00	0.426	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		1.00	0.324	ND		1.00	0.605	ND		1.00	0.605	ND		0.500	0.275
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.572**	ND		**1.00**	**0.788**	ND		**1.00**	**0.788**	ND		**1.00**	**0.534**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.362	ND		1.00	0.599	ND		1.00	0.599	ND		0.500	0.243
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.513	ND		1.00	0.673	ND		1.00	0.673	ND		0.500	0.253
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.347	ND		1.00	0.765	ND		1.00	0.765	ND		1.00	0.656
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.487	ND		1.00	0.462	ND		1.00	0.462	ND		0.500	0.348
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.548	ND		2.00	0.482	ND		5.00	0.482	ND		0.500	0.430
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.500	ND		1.00	0.744	ND		1.00	0.744	ND		0.500	0.358
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.241	ND		1.00	0.409	ND		1.00	0.409	ND		0.500	0.348
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA

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1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-11 01830-006 03/11/2020				MW-13 01260-003 02/10/2016				MW-13 04761-001 05/24/2016				MW-13 08056-002 08/29/2016			
Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.275	1.64		1.00	0.216	ND		1.00	0.216	0.768	J	1.00	0.216
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.150	0.334	J	1.00	0.271	ND		1.00	0.271	ND		1.00	0.271
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.160	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.199
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.326	ND		1.00	0.213	ND		1.00	0.213	ND		1.00	0.213
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.282	ND		1.00	0.263	ND		1.00	0.263	ND		1.00	0.263
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.289	ND		1.00	0.222	ND		1.00	0.222	ND		1.00	0.222
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.245	ND		1.00	0.192	ND		1.00	0.192	ND		1.00	0.192
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.235	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.366	ND		1.00	0.226	ND		1.00	0.226	ND		1.00	0.226
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.462	ND		1.00	0.277	ND		1.00	0.277	ND		1.00	0.277
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.367	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.431

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-13 08180-004 09/01/2016				MW-13 10976-001 11/28/2016				MW-13 01710-001 02/27/2017				MW-13 04303-006 05/23/2017			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.516	ND		1.00	0.516	ND		1.00	0.662	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.443	ND		0.500	0.443	ND		0.500	0.463	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.655	ND		1.00	0.655	ND		1.00	0.591	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.516	ND		1.00	0.516	ND		1.00	0.544	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		1.00	0.454	ND		1.00	0.454	ND		1.00	0.495	ND		1.00	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		1.00	0.396	ND		1.00	0.396	ND		1.00	0.433	ND		1.00	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.329	ND		0.500	0.329	ND		0.500	0.493	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		1.00	0.760	ND		1.00	0.760	ND		2.00	1.33	ND		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		0.500	0.299	ND		0.500	0.299	ND		1.00	0.464	ND		1.00	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.378	ND		0.500	0.378	ND		0.500	0.454	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.406	ND		0.500	0.406	ND		0.500	0.479	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.366	ND		0.500	0.366	ND		0.500	0.493	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.401	ND		0.500	0.401	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		1.00	0.623	ND		1.00	0.623	ND		2.00	1.66	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.434	ND		0.500	0.434	ND		0.500	0.469	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.405	ND		0.500	0.405	ND		0.500	0.462	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.315	ND		0.500	0.315	ND		0.500	0.449	ND		0.500	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.427	ND		1.00	0.427	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.316	ND		0.500	0.316	ND		0.500	0.493	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.345	ND		0.500	0.345	ND		0.500	0.447	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**69.6**	ND		**100**	**69.6**	ND		**100**	**98.4**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.349	ND		0.500	0.349	ND		0.500	0.353	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.331	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		0.500	0.365	ND		1.00	0.365	ND		1.00	0.699	ND		1.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.293	ND		0.500	0.293	ND		0.500	0.379	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.327	ND		1.00	0.327	ND		0.500	0.321	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.575	ND		1.00	0.575	ND		1.00	0.473	ND		1.00	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.381	ND		0.500	0.381	ND		0.500	0.451	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		0.500	0.352	ND		1.00	0.352	ND		1.00	0.761	ND		1.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.575	ND		1.00	0.575	ND		1.00	0.442	ND		1.00	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.356**	ND		**0.500**	**0.356**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.287	ND		0.500	0.287	ND		0.500	0.376	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.294	ND		0.500	0.294	ND		0.500	0.344	ND		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.944	ND		1.00	0.944	ND		1.00	0.923	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		1.00	0.254	ND		0.500	0.254	ND		1.00	0.290	ND		1.00	0.290
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.307	ND		0.500	0.307	ND		0.500	0.323	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.495	ND		0.500	0.495	ND		1.00	0.458	ND		1.00	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.286	ND		0.500	0.286	ND		1.00	0.351	ND		1.00	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		0.500	0.341	ND		1.00	0.341	ND		1.00	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.275	ND		0.500	0.275	ND		1.00	0.364	ND		1.00	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.534**	ND		**1.00**	**0.534**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		0.500	0.243	ND		1.00	0.243	ND		1.00	0.304	ND		1.00	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		0.500	0.253	ND		1.00	0.253	ND		1.00	0.339	ND		1.00	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.656	ND		1.00	0.656	ND		1.00	0.563	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.485	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		0.500	0.430	ND		1.00	0.430	ND		0.500	0.411	ND		0.500	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		0.500	0.358	ND		1.00	0.358	ND		1.00	0.411	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.348	ND		1.00	0.348	ND		0.500	0.331	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA

Table 2
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Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-13 08180-004 09/01/2016				MW-13 10976-001 11/28/2016				MW-13 01710-001 02/27/2017				MW-13 04303-006 05/23/2017			
Semivolatiles - PAH (ug/L)				**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.216	ND		1.00	0.216	0.773	J	1.00	0.139	ND		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.271	ND		1.00	0.271	1.83		1.00	0.128	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.199	0.486	J	1.00	0.199	ND		1.00	0.141	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.213	ND		1.00	0.213	0.243	J	1.00	0.129	ND		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.263	ND		1.00	0.263	0.415	J	1.00	0.182	ND		1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.222	ND		1.00	0.222	0.614	J	1.00	0.175	ND		1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.192	ND		1.00	0.192	ND		1.00	0.211	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	0.325	J	1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.226	0.595	J	1.00	0.226	ND		1.00	0.339	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	**0.130**		0.100	0.100	**0.154**		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.277	0.305	J	1.00	0.277	ND		1.00	0.245	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	0.138		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	0.158		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	**0.216**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	0.116		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.672	ND		1.00	0.672

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BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
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BOLD MDL	Indicates MDL that exceeds applicable criteria.

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For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
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1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-13 06953-001 08/14/2017				MW-13 09902-001 11/13/2017				MW-13 01326-003 02/20/2018				MW-13 04088-003 05/23/2018			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.433	ND		0.500	0.433	ND		0.500	0.433	ND		0.500	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		0.500	0.464	ND		1.00	0.464	ND		1.00	0.464	ND		0.500	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.473	ND		0.500	0.473	ND		0.500	0.473	ND		1.00	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.442	ND		0.500	0.442	ND		0.500	0.442	ND		1.00	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.290	ND		0.500	0.290	ND		0.500	0.290	ND		0.500	0.290
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		0.500	0.304	ND		1.00	0.304	ND		1.00	0.304	ND		0.500	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		0.500	0.339	ND		1.00	0.339	ND		1.00	0.339	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.411	ND		0.500	0.411	ND		0.500	0.411	ND		1.00	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		0.500	0.411	ND		1.00	0.411	ND		1.00	0.411	ND		0.500	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-13 06953-001 08/14/2017				MW-13 09902-001 11/13/2017				MW-13 01326-003 02/20/2018				MW-13 04088-003 05/23/2018			
Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.129	ND		1.00	0.129	ND		1.00	0.129	ND		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-13 01900-006 03/13/2020				MW-14 01110-002 02/08/2016				MW-14 04761-004 05/24/2016				MW-14 08056-004 08/29/2016			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.490	ND		1.00	0.617	ND		1.00	0.617	ND		1.00	0.516
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.317	ND		1.00	0.487	ND		1.00	0.487	ND		0.500	0.443
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.149	ND		1.00	0.522	ND		1.00	0.522	ND		1.00	0.655
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.356	ND		1.00	0.555	ND		1.00	0.506	ND		1.00	0.516
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.390	ND		1.00	0.781	ND		1.00	0.781	ND		0.500	0.454
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.445	ND		1.00	0.643	ND		1.00	0.643	ND		0.500	0.396
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.409	ND		1.00	0.612	ND		1.00	0.612	ND		0.500	0.329
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.95	ND		2.00	1.27	ND		5.00	0.820	ND		1.00	0.760
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.220	ND		1.00	0.543	ND		1.00	0.543	ND		0.500	0.299
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		2.00	1.99	ND		2.00	1.99	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.281	ND		1.00	0.615	ND		1.00	0.615	ND		0.500	0.378
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.265	ND		1.00	0.580	ND		1.00	0.580	ND		0.500	0.406
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.193	ND		1.00	0.664	ND		1.00	0.664	ND		0.500	0.366
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.156	ND		1.00	0.526	ND		1.00	0.526	ND		0.500	0.401
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	0.701	ND		1.00	0.836	ND		2.00	0.836	ND		1.00	0.623
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.174	ND		1.00	0.724	ND		1.00	0.724	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.163	ND		1.00	0.608	ND		1.00	0.608	ND		0.500	0.434
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.105	ND		1.00	0.501	ND		1.00	0.501	ND		0.500	0.405
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.119	ND		1.00	0.499	ND		1.00	0.499	ND		0.500	0.315
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.271	ND		1.00	0.628	ND		1.00	0.628	ND		0.500	0.427
Benzene	71-43-2	**1**	**20**	ND		0.500	0.144	ND		1.00	0.391	ND		1.00	0.391	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.205	ND		1.00	0.639	ND		1.00	0.639	ND		0.500	0.316
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.110	ND		1.00	0.578	ND		1.00	0.578	ND		0.500	0.345
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**36.7**	ND		**200**	**56.3**	ND		**500**	**56.3**	ND		**100**	**69.6**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.286	ND		1.00	0.688	ND		1.00	0.688	ND		0.500	0.349
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.222	ND		1.00	0.377	ND		1.00	0.377	ND		0.500	0.348
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.795	ND		1.00	0.425	ND		2.00	0.425	ND		0.500	0.365
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.174	ND		1.00	0.507	ND		1.00	0.507	ND		0.500	0.293
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.241	ND		1.00	0.409	ND		1.00	0.409	ND		0.500	0.327
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		0.500	0.232	ND		1.00	0.542	ND		1.00	0.542	ND		1.00	0.575
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.270	ND		1.00	0.445	ND		1.00	0.445	ND		0.500	0.381
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.975	ND		1.00	0.552	ND		2.00	0.552	ND		0.500	0.352
Dibromochloromethane	124-48-1	**1**	**6**	ND		0.500	0.381	ND		1.00	0.412	ND		1.00	0.412	ND		1.00	0.575
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.260**	ND		**1.00**	**0.499**	ND		**1.00**	**0.499**	ND		**0.500**	**0.356**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.278	ND		1.00	0.527	ND		1.00	0.527	ND		0.500	0.287
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.270	ND		1.00	0.407	ND		1.00	0.407	ND		0.500	0.294
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.881	ND		2.00	1.29	ND		2.00	1.29	ND		1.00	0.944
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.432	ND		1.00	0.392	ND		1.00	0.392	ND		1.00	0.254
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.423	ND		1.00	0.514	ND		1.00	0.514	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.386	ND		1.00	0.369	ND		1.00	0.369	ND		0.500	0.307
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		1.00	0.791	ND		1.00	0.493	ND		1.00	0.493	ND		0.500	0.495
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.296	ND		1.00	0.595	ND		1.00	0.595	ND		0.500	0.286
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.392	ND		1.00	0.426	ND		1.00	0.426	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.324	ND		1.00	0.605	ND		1.00	0.605	ND		0.500	0.275
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.572**	ND		**1.00**	**0.788**	ND		**1.00**	**0.788**	ND		**1.00**	**0.534**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.362	ND		1.00	0.599	ND		1.00	0.599	ND		0.500	0.243
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.513	ND		1.00	0.673	ND		1.00	0.673	ND		0.500	0.253
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.347	ND		1.00	0.765	ND		1.00	0.765	ND		1.00	0.656
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.487	ND		1.00	0.882	ND		1.00	0.462	ND		0.500	0.348
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.548	ND		1.00	0.482	ND		5.00	0.482	ND		0.500	0.430
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.500	ND		1.00	0.744	ND		1.00	0.744	ND		0.500	0.358
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.241	ND		1.00	0.409	ND		1.00	0.409	ND		0.500	0.348
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-13 01900-006 03/13/2020				MW-14 01110-002 02/08/2016				MW-14 04761-004 05/24/2016				MW-14 08056-004 08/29/2016			
Semivolatiles - PAH (ug/L)				**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.275	ND		1.00	0.216	ND		1.00	0.216	ND		1.00	0.216
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.150	ND		1.00	0.271	ND		1.00	0.271	ND		1.00	0.271
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.160	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.199
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.326	ND		1.00	0.213	ND		1.00	0.213	ND		1.00	0.213
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.282	ND		1.00	0.263	ND		1.00	0.263	ND		1.00	0.263
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.289	ND		1.00	0.222	ND		1.00	0.222	ND		1.00	0.222
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.245	ND		1.00	0.192	ND		1.00	0.192	ND		1.00	0.192
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.235	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.366	ND		1.00	0.226	ND		1.00	0.226	ND		1.00	0.226
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.462	ND		1.00	0.277	ND		1.00	0.277	ND		1.00	0.277
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.367	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.431

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-14 10976-003 11/28/2016				MW-14 01710-004 02/27/2017				MW-14 04303-002 05/22/2017				MW-14 06953-004 08/14/2017			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.516	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.443	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.655	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.516	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		1.00	0.454	ND		1.00	0.495	ND		1.00	0.495	ND		0.500	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		1.00	0.396	ND		1.00	0.433	ND		1.00	0.433	ND		0.500	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.329	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		1.00	0.760	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		0.500	0.299	ND		1.00	0.464	ND		1.00	0.464	ND		0.500	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.378	ND		0.500	0.454	0.460	J	0.500	0.454	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.406	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.366	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.401	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		1.00	0.623	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.434	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.405	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.315	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		1.00	0.427	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	0.544		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.316	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.345	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**69.6**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.349	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.348	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.365	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.293	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		1.00	0.327	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.575	ND		1.00	0.473	ND		1.00	0.473	ND		1.00	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.381	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.352	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.575	ND		1.00	0.442	ND		1.00	0.442	ND		1.00	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.356**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.287	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.294	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.944	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.254	ND		1.00	0.290	ND		1.00	0.290	ND		0.500	0.290
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.307	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.495	ND		1.00	0.458	ND		1.00	0.458	ND		0.500	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.286	ND		1.00	0.351	ND		1.00	0.351	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		1.00	0.341	ND		1.00	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.275	ND		1.00	0.364	ND		1.00	0.364	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.534**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.243	ND		1.00	0.304	ND		1.00	0.304	ND		0.500	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.253	ND		1.00	0.339	ND		1.00	0.339	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.656	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.348	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.430	ND		0.500	0.411	ND		0.500	0.411	ND		1.00	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.358	ND		1.00	0.411	ND		1.00	0.411	ND		0.500	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		1.00	0.348	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	ND			NA	0.544			NA	0.460	J		NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	0.544			NA	0.460	J		NA	ND			NA

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Semivolatiles - PAH (ug/L)				**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.216	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.271	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.199	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.213	ND		1.00	0.129	ND		1.00	0.129	ND		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.263	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.222	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.192	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.226	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.277	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.431	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672

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For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
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Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.490
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.317
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.149
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.356
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.390
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.433	ND		0.500	0.433	ND		0.500	0.433	ND		0.500	0.445
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.409
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.95
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.464	ND		1.00	0.464	ND		0.500	0.464	ND		1.00	0.220
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.281
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.265
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.193
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.156
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	0.701
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.174
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.163
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.105
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.119
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.271
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.144
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.205
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.110
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**36.7**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.286
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.222
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.795
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.174
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.241
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		0.500	0.473	ND		0.500	0.473	ND		1.00	0.473	ND		0.500	0.232
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.270
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.975
Dibromochloromethane	124-48-1	**1**	**6**	ND		0.500	0.442	ND		0.500	0.442	ND		1.00	0.442	ND		0.500	0.381
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.260**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376	0.534		0.500	0.278
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.270
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.881
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.290	ND		0.500	0.290	ND		0.500	0.290	ND		0.500	0.432
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.423
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.386
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458	ND		1.00	0.791
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.296
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.392
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.324
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.572**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.304	ND		1.00	0.304	ND		0.500	0.304	ND		1.00	0.362
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		0.500	0.339	ND		1.00	0.513
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.347
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.487
Cyclohexane	110-82-7	**NS**	**16000**	ND		0.500	0.411	ND		0.500	0.411	ND		1.00	0.411	ND		1.00	0.548
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.411	ND		1.00	0.411	ND		0.500	0.411	ND		1.00	0.500
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.241
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	0.534			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	0.534			NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-14 09902-009 11/14/2017				MW-14 01326-008 02/21/2018				MW-14 04088-001 05/23/2018				MW-14 01900-001 03/12/2020			
Semivolatiles - PAH (ug/L)				**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.275
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.150
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.160
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.129	ND		1.00	0.129	ND		1.00	0.129	ND		1.00	0.326
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.282
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.289
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.245
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.235
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.366
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.462
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.367

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-15 01260-006 02/10/2016				MW-15 04761-003 05/24/2016				MW-15 08056-003 08/29/2016				MW-15 10976-002 11/28/2016			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.617	ND		1.00	0.617	ND		1.00	0.516	ND		1.00	0.516
Chloromethane	74-87-3	**NS**	**240**	ND		1.00	0.487	ND		1.00	0.487	ND		0.500	0.443	ND		0.500	0.443
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.522	ND		1.00	0.522	ND		1.00	0.655	ND		1.00	0.655
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.506	ND		1.00	0.506	ND		1.00	0.516	ND		1.00	0.516
Chloroethane	75-00-3	**5**	**26000**	ND		1.00	0.781	ND		1.00	0.781	ND		0.500	0.454	ND		1.00	0.454
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		1.00	0.643	ND		1.00	0.643	ND		0.500	0.396	ND		1.00	0.396
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		1.00	0.612	ND		1.00	0.612	ND		0.500	0.329	ND		0.500	0.329
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	0.820	ND		5.00	0.820	ND		1.00	0.760	ND		1.00	0.760
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.543	ND		1.00	0.543	ND		0.500	0.299	ND		0.500	0.299
Methylene chloride	75-09-2	**3**	**920**	ND		2.00	1.99	ND		2.00	1.99	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		1.00	0.615	ND		1.00	0.615	ND		0.500	0.378	ND		0.500	0.378
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		1.00	0.580	ND		1.00	0.580	ND		0.500	0.406	ND		0.500	0.406
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		1.00	0.664	ND		1.00	0.664	ND		0.500	0.366	ND		0.500	0.366
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		1.00	0.526	ND		1.00	0.526	ND		0.500	0.401	ND		0.500	0.401
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	0.836	ND		2.00	0.836	ND		1.00	0.623	ND		1.00	0.623
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.724	ND		1.00	0.724	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		1.00	0.608	ND		1.00	0.608	ND		0.500	0.434	ND		0.500	0.434
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		1.00	0.501	ND		1.00	0.501	ND		0.500	0.405	ND		0.500	0.405
Carbon tetrachloride	56-23-5	**1**	**1**	ND		1.00	0.499	ND		1.00	0.499	ND		0.500	0.315	ND		0.500	0.315
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		1.00	0.628	ND		1.00	0.628	ND		0.500	0.427	ND		1.00	0.427
Benzene	71-43-2	**1**	**20**	ND		1.00	0.391	ND		1.00	0.391	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		1.00	0.639	ND		1.00	0.639	ND		0.500	0.316	ND		0.500	0.316
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		1.00	0.578	ND		1.00	0.578	ND		0.500	0.345	ND		0.500	0.345
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**200**	**56.3**	ND		**500**	**56.3**	ND		**100**	**69.6**	ND		**100**	**69.6**
Bromodichloromethane	75-27-4	**1**	**2**	ND		1.00	0.688	ND		1.00	0.688	ND		0.500	0.349	ND		0.500	0.349
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		1.00	0.377	ND		1.00	0.377	ND		0.500	0.348	ND		0.500	0.348
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.425	ND		2.00	0.425	ND		0.500	0.365	ND		1.00	0.365
Toluene	108-88-3	**600**	**330000**	ND		1.00	0.507	ND		1.00	0.507	ND		0.500	0.293	ND		0.500	0.293
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		1.00	0.409	ND		1.00	0.409	ND		0.500	0.327	ND		1.00	0.327
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.542	ND		1.00	0.542	ND		1.00	0.575	ND		1.00	0.575
Tetrachloroethene	127-18-4	**1**	**31**	ND		1.00	0.445	ND		1.00	0.445	ND		0.500	0.381	ND		0.500	0.381
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.552	ND		2.00	0.552	ND		0.500	0.352	ND		1.00	0.352
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.412	ND		1.00	0.412	ND		1.00	0.575	ND		1.00	0.575
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**1.00**	**0.499**	ND		**1.00**	**0.499**	ND		**0.500**	**0.356**	ND		**0.500**	**0.356**
Chlorobenzene	108-90-7	**50**	**770**	ND		1.00	0.527	ND		1.00	0.527	ND		0.500	0.287	ND		0.500	0.287
Ethylbenzene	100-41-4	**700**	**700**	ND		1.00	0.407	ND		1.00	0.407	ND		0.500	0.294	ND		0.500	0.294
Total Xylenes	1330-20-7	**1000**	**8600**	ND		2.00	1.29	ND		2.00	1.29	ND		1.00	0.944	ND		1.00	0.944
Styrene	100-42-5	**100**	**180000**	ND		1.00	0.392	ND		1.00	0.392	ND		1.00	0.254	ND		0.500	0.254
Bromoform	75-25-2	**4**	**300**	ND		1.00	0.514	ND		1.00	0.514	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		1.00	0.369	ND		1.00	0.369	ND		0.500	0.307	ND		0.500	0.307
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		1.00	0.493	ND		1.00	0.493	ND		0.500	0.495	ND		0.500	0.495
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		1.00	0.595	ND		1.00	0.595	ND		0.500	0.286	ND		0.500	0.286
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		1.00	0.426	ND		1.00	0.426	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		1.00	0.605	ND		1.00	0.605	ND		0.500	0.275	ND		0.500	0.275
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.788**	ND		**1.00**	**0.788**	ND		**1.00**	**0.534**	ND		**1.00**	**0.534**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.599	ND		1.00	0.599	ND		0.500	0.243	ND		1.00	0.243
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.673	ND		1.00	0.673	ND		0.500	0.253	ND		1.00	0.253
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.765	ND		1.00	0.765	ND		1.00	0.656	ND		1.00	0.656
Methyl acetate	79-20-9	**7000**	**NS**	ND		1.00	0.462	ND		1.00	0.462	ND		0.500	0.348	ND		0.500	0.348
Cyclohexane	110-82-7	**NS**	**16000**	ND		2.00	0.482	ND		5.00	0.482	ND		0.500	0.430	ND		1.00	0.430
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.744	ND		1.00	0.744	ND		0.500	0.358	ND		1.00	0.358
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		1.00	0.409	ND		1.00	0.409	ND		0.500	0.348	ND		1.00	0.348
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-15 01260-006 02/10/2016				MW-15 04761-003 05/24/2016				MW-15 08056-003 08/29/2016				MW-15 10976-002 11/28/2016			
Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.216	ND		1.00	0.216	ND		1.00	0.216	ND		1.00	0.216
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.271	ND		1.00	0.271	ND		1.00	0.271	ND		1.00	0.271
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.199
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.213	ND		1.00	0.213	ND		1.00	0.213	ND		1.00	0.213
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.263	ND		1.00	0.263	ND		1.00	0.263	ND		1.00	0.263
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.222	ND		1.00	0.222	ND		1.00	0.222	ND		1.00	0.222
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.192	ND		1.00	0.192	ND		1.00	0.192	ND		1.00	0.192
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.226	ND		1.00	0.226	ND		1.00	0.226	ND		1.00	0.226
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.277	ND		1.00	0.277	ND		1.00	0.277	ND		1.00	0.277
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.431

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc Indicates a concentration that exceeds the applicable criteria.
BOLD RL Indicates RL that exceeds applicable criteria.
BOLD MDL Indicates MDL that exceeds applicable criteria.
NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-15 01710-002 02/27/2017				MW-15 04303-001 05/22/2017				MW-15 06953-003 08/14/2017				MW-15 09902-002 11/13/2017			
Volatiles (ug/L)				**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591	**5.14**		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		1.00	0.495	ND		1.00	0.495	ND		0.500	0.495	ND		0.500	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		1.00	0.433	ND		1.00	0.433	ND		0.500	0.433	ND		0.500	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.464	ND		1.00	0.464	ND		0.500	0.464	ND		1.00	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	0.547		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	0.542		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479	0.797		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.473	ND		1.00	0.473	ND		1.00	0.473	ND		0.500	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.442	ND		1.00	0.442	ND		1.00	0.442	ND		0.500	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		1.00	0.290	ND		1.00	0.290	ND		0.500	0.290	ND		0.500	0.290
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		1.00	0.458	ND		1.00	0.458	ND		0.500	0.458	ND		0.500	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		1.00	0.351	ND		1.00	0.351	ND		0.500	0.351	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		1.00	0.341	ND		1.00	0.341	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		1.00	0.364	ND		1.00	0.364	ND		0.500	0.364	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.304	ND		1.00	0.304	ND		0.500	0.304	ND		1.00	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		0.500	0.339	ND		1.00	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		0.500	0.411	ND		0.500	0.411	ND		1.00	0.411	ND		0.500	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.411	ND		1.00	0.411	ND		0.500	0.411	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	0.542			NA	0.547			NA	ND			NA	5.94			NA
TOTAL TIC's:		**NS**	**NS**	67.4	J		NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	67.9	J		NA	0.547			NA	ND			NA	5.94			NA

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Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.129	ND		1.00	0.129	ND		1.00	0.129	ND		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672

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BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
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BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
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J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
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1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-15 01326-009 02/21/2018				MW-15 04088-004 05/23/2018				MW-15 01900-004 03/12/2020				MW-17 01260-002 02/10/2016			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.490	ND		1.00	0.617
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.317	ND		1.00	0.487
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.149	ND		1.00	0.522
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.356	ND		1.00	0.506
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.390	ND		1.00	0.781
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.433	ND		0.500	0.433	ND		0.500	0.445	ND		1.00	0.643
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.409	ND		1.00	0.612
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.95	ND		2.00	0.820
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.464	ND		0.500	0.464	ND		1.00	0.220	ND		1.00	0.543
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		2.00	1.99
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.281	ND		1.00	0.615
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.265	ND		1.00	0.580
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.193	ND		1.00	0.664
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.156	ND		1.00	0.526
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	0.701	ND		2.00	0.836
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.174	ND		1.00	0.724
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.163	ND		1.00	0.608
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.105	ND		1.00	0.501
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.119	ND		1.00	0.499
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.271	ND		1.00	0.628
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.144	ND		1.00	0.391
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.205	ND		1.00	0.639
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.110	ND		1.00	0.578
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**36.7**	ND		**200**	**56.3**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.286	ND		1.00	0.688
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.222	ND		1.00	0.377
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.795	ND		1.00	0.425
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.174	ND		1.00	0.507
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.241	ND		1.00	0.409
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		0.500	0.473	ND		1.00	0.473	ND		0.500	0.232	ND		1.00	0.542
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.270	ND		1.00	0.445
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.975	ND		1.00	0.552
Dibromochloromethane	124-48-1	**1**	**6**	ND		0.500	0.442	ND		1.00	0.442	ND		0.500	0.381	ND		1.00	0.412
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.260**	ND		**1.00**	**0.499**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.278	ND		1.00	0.527
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.270	ND		1.00	0.407
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.881	ND		2.00	1.29
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.290	ND		0.500	0.290	ND		0.500	0.432	ND		1.00	0.392
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.423	ND		1.00	0.514
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.386	ND		1.00	0.369
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.458	ND		0.500	0.458	ND		1.00	0.791	ND		1.00	0.493
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.296	ND		1.00	0.595
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.392	ND		1.00	0.426
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.324	ND		1.00	0.605
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.572**	ND		**1.00**	**0.788**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.304	ND		0.500	0.304	ND		1.00	0.362	ND		1.00	0.599
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.339	ND		0.500	0.339	ND		1.00	0.513	ND		1.00	0.673
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.347	ND		1.00	0.765
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.487	ND		1.00	0.462
Cyclohexane	110-82-7	**NS**	**16000**	ND		0.500	0.411	ND		1.00	0.411	ND		1.00	0.548	ND		2.00	0.482
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.411	ND		0.500	0.411	ND		1.00	0.500	ND		1.00	0.744
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.241	ND		1.00	0.409
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	48.5	J		NA	69.2	J		NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	48.5	J		NA	69.2	J		NA	ND			NA	ND			NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-15 01326-009 02/21/2018				MW-15 04088-004 05/23/2018				MW-15 01900-004 03/12/2020				MW-17 01260-002 02/10/2016			
Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.275	ND		1.00	0.216
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.150	ND		1.00	0.271
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.160	ND		1.00	0.199
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.129	ND		1.00	0.129	ND		1.00	0.326	ND		1.00	0.213
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.282	ND		1.00	0.263
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.289	ND		1.00	0.222
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.245	ND		1.00	0.192
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.235	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.366	ND		1.00	0.226
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.462	ND		1.00	0.277
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.367	ND		1.00	0.431

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc Indicates a concentration that exceeds the applicable criteria.
BOLD RL Indicates RL that exceeds applicable criteria.
BOLD MDL Indicates MDL that exceeds applicable criteria.
NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-17 04762-004 05/25/2016				MW-17 08165-005 08/31/2016				MW-17 10976-006 11/29/2016				MW-17 01710-010 02/28/2017			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.617	ND		1.00	0.516	ND		1.00	0.516	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		1.00	0.487	ND		0.500	0.443	ND		0.500	0.443	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.522	ND		1.00	0.655	ND		1.00	0.655	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.506	ND		1.00	0.516	ND		1.00	0.516	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		1.00	0.781	ND		1.00	0.454	ND		1.00	0.454	ND		1.00	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		1.00	0.643	ND		1.00	0.396	ND		1.00	0.396	ND		1.00	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		1.00	0.612	ND		0.500	0.329	ND		0.500	0.329	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		5.00	0.820	ND		1.00	0.760	ND		1.00	0.760	ND		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.543	ND		0.500	0.299	ND		0.500	0.299	ND		1.00	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		2.00	1.99	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		1.00	0.615	ND		0.500	0.378	ND		0.500	0.378	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		1.00	0.580	ND		0.500	0.406	ND		0.500	0.406	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		1.00	0.664	ND		0.500	0.366	ND		0.500	0.366	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		1.00	0.526	ND		0.500	0.401	ND		0.500	0.401	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		1.00	0.836	ND		1.00	0.623	ND		1.00	0.623	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.724	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		1.00	0.608	ND		0.500	0.434	ND		0.500	0.434	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		1.00	0.501	ND		0.500	0.405	ND		0.500	0.405	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		1.00	0.499	ND		0.500	0.315	ND		0.500	0.315	ND		0.500	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		1.00	0.628	ND		0.500	0.427	ND		1.00	0.427	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	ND		1.00	0.391	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		1.00	0.639	ND		0.500	0.316	ND		0.500	0.316	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		1.00	0.578	ND		0.500	0.345	ND		0.500	0.345	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**200**	**56.3**	ND		**100**	**69.6**	ND		**100**	**69.6**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		1.00	0.688	ND		0.500	0.349	ND		0.500	0.349	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		1.00	0.377	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.425	ND		0.500	0.365	ND		1.00	0.365	ND		1.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		1.00	0.507	ND		0.500	0.293	ND		0.500	0.293	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		1.00	0.409	ND		0.500	0.327	ND		1.00	0.327	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.542	ND		1.00	0.575	ND		1.00	0.575	ND		1.00	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		1.00	0.445	ND		0.500	0.381	ND		0.500	0.381	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.552	ND		0.500	0.352	ND		1.00	0.352	ND		1.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.412	ND		1.00	0.575	ND		1.00	0.575	ND		1.00	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**1.00**	**0.499**	ND		**0.500**	**0.356**	ND		**0.500**	**0.356**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		1.00	0.527	ND		0.500	0.287	ND		0.500	0.287	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	ND		1.00	0.407	ND		0.500	0.294	ND		0.500	0.294	ND		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		2.00	1.29	ND		1.00	0.944	ND		1.00	0.944	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		1.00	0.392	ND		1.00	0.254	ND		0.500	0.254	ND		1.00	0.290
Bromoform	75-25-2	**4**	**300**	ND		1.00	0.514	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		1.00	0.369	ND		0.500	0.307	ND		0.500	0.307	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		1.00	0.493	ND		0.500	0.495	ND		0.500	0.495	ND		1.00	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		1.00	0.595	ND		0.500	0.286	ND		0.500	0.286	ND		1.00	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		1.00	0.426	ND		0.500	0.341	ND		0.500	0.341	ND		1.00	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		1.00	0.605	ND		0.500	0.275	ND		0.500	0.275	ND		1.00	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.788**	ND		**1.00**	**0.534**	ND		**1.00**	**0.534**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.599	ND		0.500	0.243	ND		1.00	0.243	ND		1.00	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.673	ND		0.500	0.253	ND		1.00	0.253	ND		1.00	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.765	ND		1.00	0.656	ND		1.00	0.656	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		1.00	0.462	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		2.00	0.482	ND		0.500	0.430	ND		1.00	0.430	ND		0.500	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.744	ND		0.500	0.358	ND		1.00	0.358	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		1.00	0.409	ND		0.500	0.348	ND		1.00	0.348	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-17 04762-004 05/25/2016				MW-17 08165-005 08/31/2016				MW-17 10976-006 11/29/2016				MW-17 01710-010 02/28/2017			
Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.216	ND		1.00	0.216	ND		1.00	0.216	ND		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.271	ND		1.00	0.271	ND		1.00	0.271	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.213	ND		1.00	0.213	ND		1.00	0.213	ND		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.263	ND		1.00	0.263	ND		1.00	0.263	ND		1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.222	ND		1.00	0.222	ND		1.00	0.222	ND		1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.192	ND		1.00	0.192	ND		1.00	0.192	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.226	ND		1.00	0.226	ND		1.00	0.226	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	**0.196**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	**0.324**		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.277	ND		1.00	0.277	ND		1.00	0.277	0.372	J	1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	0.178		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	**0.365**		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	0.192		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	0.188		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	**0.167**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	**0.275**		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	0.175		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	**0.322**		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	0.166		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	**0.365**		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.672

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-17 04303-009 05/23/2017				MW-17 07106-008 08/17/2017				MW-17 09902-007 11/14/2017				MW-17 01326-010 02/21/2018			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		1.00	0.495	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		1.00	0.433	ND		0.500	0.433	ND		0.500	0.433	ND		0.500	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.464	ND		0.500	0.464	ND		1.00	0.464	ND		1.00	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.473	ND		1.00	0.473	ND		0.500	0.473	ND		0.500	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.442	ND		1.00	0.442	ND		0.500	0.442	ND		0.500	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		1.00	0.290	ND		0.500	0.290	ND		0.500	0.290	ND		0.500	0.290
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		1.00	0.458	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		1.00	0.351	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		1.00	0.341	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		1.00	0.364	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.304	ND		0.500	0.304	ND		1.00	0.304	ND		1.00	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.339	ND		0.500	0.339	ND		1.00	0.339	ND		1.00	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		0.500	0.411	ND		1.00	0.411	ND		0.500	0.411	ND		0.500	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.411	ND		0.500	0.411	ND		1.00	0.411	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	51.2	J		NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	51.2	J		NA

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Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.129	ND		1.00	0.129	ND		1.00	0.129	ND		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	**0.424**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	0.386	J	1.00	0.245	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	**0.370**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	0.320		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	**0.293**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	**0.485**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	**0.530**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672

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For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
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Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.490	ND		1.00	0.490	ND		1.00	0.490
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.317	ND		0.500	0.317	ND		0.500	0.317
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.149	ND		1.00	0.149	ND		1.00	0.149
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.356	ND		0.500	0.356	ND		0.500	0.356
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.495	ND		0.500	0.390	ND		0.500	0.390	ND		0.500	0.390
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.433	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.409	ND		0.500	0.409	ND		0.500	0.409
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.95	ND		2.00	1.95	ND		2.00	1.95
Carbon disulfide	75-15-0	**700**	**1500**	ND		0.500	0.464	ND		1.00	0.220	ND		1.00	0.220	ND		1.00	0.220
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.281	ND		0.500	0.281	ND		0.500	0.281
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.265	ND		0.500	0.265	ND		0.500	0.265
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.193	ND		0.500	0.193	ND		0.500	0.193
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.156	ND		0.500	0.156	ND		0.500	0.156
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	0.701	ND		2.00	0.701	ND		2.00	0.701
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.174	ND		1.00	0.174	ND		1.00	0.174
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.163	ND		0.500	0.163	ND		0.500	0.163
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.105	ND		0.500	0.105	ND		0.500	0.105
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.449	ND		0.500	0.119	ND		0.500	0.119	ND		0.500	0.119
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.271	ND		0.500	0.271	ND		0.500	0.271
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.144	ND		0.500	0.144	ND		0.500	0.144
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.205	ND		0.500	0.205	ND		0.500	0.205
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.110	ND		0.500	0.110	ND		0.500	0.110
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**36.7**	ND		**100**	**36.7**	ND		**100**	**36.7**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.286	ND		0.500	0.286	ND		0.500	0.286
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.222	ND		0.500	0.222	ND		0.500	0.222
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.699	ND		1.00	0.795	ND		1.00	0.795	ND		1.00	0.795
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.174	ND		0.500	0.174	ND		0.500	0.174
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.241	ND		0.500	0.241	ND		0.500	0.241
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.473	ND		0.500	0.232	ND		0.500	0.232	ND		0.500	0.232
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.270	ND		0.500	0.270	ND		0.500	0.270
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.761	ND		1.00	0.975	ND		1.00	0.975	ND		1.00	0.975
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.442	ND		0.500	0.381	ND		0.500	0.381	ND		0.500	0.381
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.402**	ND		**0.500**	**0.260**	ND		**0.500**	**0.260**	ND		**0.500**	**0.260**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.278	ND		0.500	0.278	ND		0.500	0.278
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.344	ND		0.500	0.270	ND		1.00	0.270	ND		1.00	0.270
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.881	ND		2.00	0.881	ND		2.00	0.881
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.290	ND		0.500	0.432	ND		1.00	0.432	ND		1.00	0.432
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.423	ND		0.500	0.423	ND		0.500	0.423
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.323	ND		0.500	0.386	ND		1.00	0.386	ND		1.00	0.386
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.458	ND		1.00	0.791	ND		1.00	0.791	ND		1.00	0.791
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.351	ND		0.500	0.296	ND		1.00	0.296	ND		1.00	0.296
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		0.500	0.392	ND		1.00	0.392	ND		1.00	0.392
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.364	ND		0.500	0.324	ND		1.00	0.324	ND		1.00	0.324
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.572**	ND		**1.00**	**0.572**	ND		**1.00**	**0.572**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		0.500	0.304	ND		1.00	0.362	ND		1.00	0.362	ND		1.00	0.362
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		0.500	0.339	ND		1.00	0.513	ND		1.00	0.513	ND		1.00	0.513
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.347	ND		1.00	0.347	ND		1.00	0.347
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.487	ND		0.500	0.487	ND		0.500	0.487
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.411	ND		1.00	0.548	ND		1.00	0.548	ND		1.00	0.548
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		0.500	0.411	ND		1.00	0.500	ND		1.00	0.500	ND		1.00	0.500
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.241	ND		0.500	0.241	ND		0.500	0.241
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	62.0	J		NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	62.0	J		NA	ND			NA	ND			NA	ND			NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-17 04010-005 05/22/2018				MW-17 06628-006 09/05/2019				MW-17 09097-003 12/10/2019				MW-17 01830-003 03/10/2020			
Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.139	ND		1.00	0.275	ND		1.00	0.275	ND		1.00	0.275
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.150	ND		1.00	0.150	ND		1.00	0.150
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.160	ND		1.00	0.160	ND		1.00	0.160
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.129	ND		1.00	0.326	ND		1.00	0.326	ND		1.00	0.326
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.182	ND		1.00	0.282	ND		1.00	0.282	ND		1.00	0.282
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	ND		1.00	0.289	ND		1.00	0.289	ND		1.00	0.289
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.235	ND		1.00	0.235	ND		1.00	0.235
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.366	ND		1.00	0.366	ND		1.00	0.366
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.462	ND		1.00	0.462	ND		1.00	0.462
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.367	ND		1.00	0.367	ND		1.00	0.367

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-19RR 01261-005 02/11/2016				MW-19RR 04762-001 05/25/2016				MW-19RR 08165-002 08/31/2016				MW-19RR 11064-001 11/30/2016			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.617	ND		1.00	0.617	ND		1.00	0.516	ND		1.00	0.516
Chloromethane	74-87-3	**NS**	**240**	ND		1.00	0.487	ND		1.00	0.487	ND		0.500	0.443	ND		0.500	0.443
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.522	ND		1.00	0.522	ND		1.00	0.655	ND		1.00	0.655
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.506	ND		1.00	0.506	ND		1.00	0.516	ND		1.00	0.516
Chloroethane	75-00-3	**5**	**26000**	ND		1.00	0.781	ND		1.00	0.781	ND		1.00	0.454	ND		0.500	0.454
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		1.00	0.643	ND		1.00	0.643	ND		1.00	0.396	ND		0.500	0.396
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		1.00	0.612	ND		1.00	0.612	ND		0.500	0.329	ND		0.500	0.329
Acetone	67-64-1	**6000**	**21000000**	ND		5.00	0.820	ND		5.00	0.820	ND		1.00	0.760	ND		2.00	0.760
Carbon disulfide	75-15-0	**700**	**1500**	ND		2.00	0.543	ND		1.00	0.543	ND		0.500	0.299	ND		0.500	0.299
Methylene chloride	75-09-2	**3**	**920**	ND		2.00	1.99	ND		2.00	1.99	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		1.00	0.615	ND		1.00	0.615	ND		0.500	0.378	ND		0.500	0.378
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		1.00	0.580	ND		1.00	0.580	ND		0.500	0.406	ND		0.500	0.406
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		1.00	0.664	ND		1.00	0.664	ND		0.500	0.366	ND		0.500	0.366
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		1.00	0.526	ND		1.00	0.526	ND		0.500	0.401	ND		0.500	0.401
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		5.00	0.836	ND		1.00	0.836	ND		1.00	0.623	ND		2.00	0.623
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.724	ND		1.00	0.724	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		1.00	0.608	ND		1.00	0.608	ND		0.500	0.434	ND		0.500	0.434
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		1.00	0.501	ND		1.00	0.501	ND		0.500	0.405	ND		0.500	0.405
Carbon tetrachloride	56-23-5	**1**	**1**	ND		1.00	0.499	ND		1.00	0.499	ND		0.500	0.315	ND		0.500	0.315
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		1.00	0.628	ND		1.00	0.628	ND		0.500	0.427	ND		0.500	0.427
Benzene	71-43-2	**1**	**20**	ND		1.00	0.391	ND		1.00	0.391	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		1.00	0.639	ND		1.00	0.639	ND		0.500	0.316	ND		0.500	0.316
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		1.00	0.578	ND		1.00	0.578	ND		0.500	0.345	ND		0.500	0.345
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**200**	**56.3**	ND		**200**	**56.3**	ND		**100**	**69.6**	ND		**100**	**69.6**
Bromodichloromethane	75-27-4	**1**	**2**	ND		1.00	0.688	ND		1.00	0.688	ND		0.500	0.349	ND		0.500	0.349
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		1.00	0.377	ND		1.00	0.377	ND		0.500	0.348	ND		0.500	0.348
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.425	ND		1.00	0.425	ND		0.500	0.365	ND		1.00	0.365
Toluene	108-88-3	**600**	**330000**	ND		1.00	0.507	ND		1.00	0.507	ND		0.500	0.293	ND		0.500	0.293
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		1.00	0.409	ND		1.00	0.409	ND		0.500	0.327	ND		0.500	0.327
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.542	ND		1.00	0.542	ND		1.00	0.575	ND		1.00	0.575
Tetrachloroethene	127-18-4	**1**	**31**	ND		1.00	0.445	ND		1.00	0.445	ND		0.500	0.381	ND		0.500	0.381
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.552	ND		1.00	0.552	ND		0.500	0.352	ND		1.00	0.352
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.412	ND		1.00	0.412	ND		1.00	0.575	ND		1.00	0.575
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**1.00**	**0.499**	ND		**1.00**	**0.499**	ND		**0.500**	**0.356**	ND		**0.500**	**0.356**
Chlorobenzene	108-90-7	**50**	**770**	ND		1.00	0.527	ND		1.00	0.527	ND		0.500	0.287	ND		0.500	0.287
Ethylbenzene	100-41-4	**700**	**700**	ND		1.00	0.407	ND		1.00	0.407	ND		0.500	0.294	ND		0.500	0.294
Total Xylenes	1330-20-7	**1000**	**8600**	ND		2.00	1.29	ND		2.00	1.29	ND		1.00	0.944	ND		1.00	0.944
Styrene	100-42-5	**100**	**180000**	ND		1.00	0.392	ND		1.00	0.392	ND		1.00	0.254	ND		0.500	0.254
Bromoform	75-25-2	**4**	**300**	ND		1.00	0.514	ND		1.00	0.514	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		1.00	0.369	ND		1.00	0.369	ND		0.500	0.307	ND		0.500	0.307
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		1.00	0.493	ND		1.00	0.493	ND		0.500	0.495	ND		0.500	0.495
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		1.00	0.595	ND		1.00	0.595	ND		0.500	0.286	ND		0.500	0.286
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		1.00	0.426	ND		1.00	0.426	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		1.00	0.605	ND		1.00	0.605	ND		0.500	0.275	ND		0.500	0.275
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.788**	ND		**1.00**	**0.788**	ND		**1.00**	**0.534**	ND		**1.00**	**0.534**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.599	ND		1.00	0.599	ND		0.500	0.243	ND		0.500	0.243
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.673	ND		1.00	0.673	ND		0.500	0.253	ND		0.500	0.253
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.765	ND		1.00	0.765	ND		1.00	0.656	ND		1.00	0.656
Methyl acetate	79-20-9	**7000**	**NS**	ND		1.00	0.462	ND		1.00	0.462	ND		0.500	0.348	ND		0.500	0.348
Cyclohexane	110-82-7	**NS**	**16000**	ND		2.00	0.482	ND		2.00	0.482	ND		0.500	0.430	ND		1.00	0.430
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.744	ND		1.00	0.744	ND		0.500	0.358	ND		0.500	0.358
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		1.00	0.409	ND		1.00	0.409	ND		0.500	0.348	ND		0.500	0.348
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-19RR 01261-005 02/11/2016				MW-19RR 04762-001 05/25/2016				MW-19RR 08165-002 08/31/2016				MW-19RR 11064-001 11/30/2016			
Semivolatiles - PAH (ug/L)				**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.216	ND		1.00	0.216	ND		1.00	0.216	ND		1.00	0.216
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.271	ND		1.00	0.271	ND		1.00	0.271	ND		1.00	0.271
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.199
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.213	ND		1.00	0.213	1.07		1.00	0.213	ND		1.00	0.213
Fluorene	86-73-7	**300**	**NS**	0.651	J	1.00	0.263	ND		1.00	0.263	ND		1.00	0.263	ND		1.00	0.263
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.222	ND		1.00	0.222	ND		1.00	0.222	ND		1.00	0.222
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.192	ND		1.00	0.192	ND		1.00	0.192	ND		1.00	0.192
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.226	ND		1.00	0.226	0.250	J	1.00	0.226	ND		1.00	0.226
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.277	ND		1.00	0.277	ND		1.00	0.277	ND		1.00	0.277
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.431

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc Indicates a concentration that exceeds the applicable criteria.
BOLD RL Indicates RL that exceeds applicable criteria.
BOLD MDL Indicates MDL that exceeds applicable criteria.
NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-19RR 01722-007 03/01/2017				MW-19RR 04303-015 05/24/2017				MW-19RR 07106-002 08/16/2017				MW-19RR 10016-008 11/16/2017			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.495	ND		1.00	0.495	ND		0.500	0.495	ND		0.500	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.433	ND		1.00	0.433	ND		0.500	0.433	ND		0.500	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		0.500	0.464	ND		1.00	0.464	ND		0.500	0.464	ND		1.00	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		2.00	0.699	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.473	ND		1.00	0.473	ND		1.00	0.473	ND		0.500	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		2.00	0.761	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.442	ND		1.00	0.442	ND		1.00	0.442	ND		0.500	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.290	ND		1.00	0.290	ND		0.500	0.290	ND		0.500	0.290
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.458	ND		1.00	0.458	ND		0.500	0.458	ND		0.500	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.351	ND		1.00	0.351	ND		0.500	0.351	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		1.00	0.341	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.364	ND		1.00	0.364	ND		0.500	0.364	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		0.500	0.304	ND		1.00	0.304	ND		0.500	0.304	ND		1.00	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		0.500	0.339	ND		1.00	0.339	ND		0.500	0.339	ND		1.00	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.411	ND		0.500	0.411	ND		1.00	0.411	ND		0.500	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.411	ND		1.00	0.411	ND		0.500	0.411	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA

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1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-19RR 01722-007 03/01/2017				MW-19RR 04303-015 05/24/2017				MW-19RR 07106-002 08/16/2017				MW-19RR 10016-008 11/16/2017			
Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.139	0.310	J	1.00	0.139	ND		1.00	0.139	ND		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.129	1.07		1.00	0.129	0.711	J	1.00	0.129	1.13		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.182	0.767	J	1.00	0.182	0.270	J	1.00	0.182	0.802	J	1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175	0.199	J	1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672

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For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-19RR 01349-004 02/22/2018				MW-19RR 04088-005 05/24/2018				MW-19RR 01830-001 03/10/2020				MW-20 01262-001 02/09/2016			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.490	ND		1.00	0.617
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.317	ND		1.00	0.487
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.149	ND		1.00	0.522
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.544	ND		0.500	0.356	ND		1.00	0.506
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.390	ND		1.00	0.781
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.433	ND		0.500	0.433	ND		0.500	0.445	ND		1.00	0.643
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.409	ND		1.00	0.612
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.95	ND		5.00	0.820
Carbon disulfide	75-15-0	**700**	**1500**	ND		0.500	0.464	ND		0.500	0.464	ND		1.00	0.220	ND		2.00	0.543
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		2.00	1.99
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.281	ND		1.00	0.615
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.265	ND		1.00	0.580
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.193	ND		1.00	0.664
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.156	ND		1.00	0.526
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	0.701	ND		5.00	0.836
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.174	ND		1.00	0.724
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.163	ND		1.00	0.608
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.105	ND		1.00	0.501
Carbon tetrachloride	56-23-5	**1**	**1**	ND		1.00	0.449	ND		0.500	0.449	ND		0.500	0.119	ND		1.00	0.499
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.271	ND		1.00	0.628
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.144	ND		1.00	0.391
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.205	ND		1.00	0.639
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.110	ND		1.00	0.578
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**36.7**	ND		**200**	**56.3**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.286	ND		1.00	0.688
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.222	ND		1.00	0.377
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		2.00	0.699	ND		1.00	0.699	ND		1.00	0.795	ND		1.00	0.425
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.174	ND		1.00	0.507
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.241	ND		1.00	0.409
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		0.500	0.473	ND		1.00	0.473	ND		0.500	0.232	ND		1.00	0.542
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.270	ND		1.00	0.445
2-Hexanone	591-78-6	**300**	**NS**	ND		2.00	0.761	ND		1.00	0.761	ND		1.00	0.975	ND		1.00	0.552
Dibromochloromethane	124-48-1	**1**	**6**	ND		0.500	0.442	ND		1.00	0.442	ND		0.500	0.381	ND		1.00	0.412
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.260**	ND		**1.00**	**0.499**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.278	ND		1.00	0.527
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.344	ND		0.500	0.344	ND		1.00	0.270	ND		1.00	0.407
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.923	ND		2.00	0.881	ND		2.00	1.29
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.290	ND		0.500	0.290	ND		1.00	0.432	ND		1.00	0.392
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.423	ND		1.00	0.514
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.323	ND		0.500	0.323	ND		1.00	0.386	ND		1.00	0.369
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.458	ND		0.500	0.458	ND		1.00	0.791	ND		1.00	0.493
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.351	ND		0.500	0.351	ND		1.00	0.296	ND		1.00	0.595
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		0.500	0.341	ND		1.00	0.392	ND		1.00	0.426
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.364	ND		0.500	0.364	ND		1.00	0.324	ND		1.00	0.605
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.572**	ND		**1.00**	**0.788**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.304	ND		0.500	0.304	ND		1.00	0.362	ND		1.00	0.599
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.339	ND		0.500	0.339	ND		1.00	0.513	ND		1.00	0.673
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.347	ND		1.00	0.765
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.487	ND		1.00	0.462
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.411	ND		1.00	0.411	ND		1.00	0.548	ND		2.00	0.482
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		0.500	0.411	ND		0.500	0.411	ND		1.00	0.500	ND		1.00	0.744
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.241	ND		1.00	0.409
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA

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1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-19RR 01349-004 02/22/2018				MW-19RR 04088-005 05/24/2018				MW-19RR 01830-001 03/10/2020				MW-20 01262-001 02/09/2016			
Semivolatiles - PAH (ug/L)				**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.275	ND		1.00	0.216
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.150	ND		1.00	0.271
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.160	ND		1.00	0.199
Acenaphthene	83-32-9	**400**	**NS**	0.217	J	1.00	0.129	ND		1.00	0.129	ND		1.00	0.326	ND		1.00	0.213
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.282	ND		1.00	0.263
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.289	ND		1.00	0.222
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.245	ND		1.00	0.192
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.235	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.366	ND		1.00	0.226
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.462	ND		1.00	0.277
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.367	ND		1.00	0.431

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

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1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-20 04762-003 05/25/2016				MW-20 08165-003 08/31/2016				MW-20 10976-007 11/29/2016				MW-20 01710-008 02/28/2017			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.617	ND		1.00	0.516	ND		1.00	0.516	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		1.00	0.487	ND		0.500	0.443	ND		0.500	0.443	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.522	ND		1.00	0.655	ND		1.00	0.655	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.506	ND		1.00	0.516	ND		1.00	0.516	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		1.00	0.781	ND		1.00	0.454	ND		1.00	0.454	ND		1.00	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		1.00	0.643	ND		1.00	0.396	ND		1.00	0.396	ND		1.00	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		1.00	0.612	ND		0.500	0.329	ND		0.500	0.329	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		5.00	0.820	ND		1.00	0.760	ND		1.00	0.760	ND		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.543	ND		0.500	0.299	ND		0.500	0.299	ND		1.00	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		2.00	1.99	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		1.00	0.615	ND		0.500	0.378	ND		0.500	0.378	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		1.00	0.580	ND		0.500	0.406	ND		0.500	0.406	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		1.00	0.664	ND		0.500	0.366	ND		0.500	0.366	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		1.00	0.526	ND		0.500	0.401	ND		0.500	0.401	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		1.00	0.836	ND		1.00	0.623	ND		1.00	0.623	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.724	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		1.00	0.608	ND		0.500	0.434	ND		0.500	0.434	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		1.00	0.501	ND		0.500	0.405	ND		0.500	0.405	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		1.00	0.499	ND		0.500	0.315	ND		0.500	0.315	ND		0.500	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		1.00	0.628	ND		0.500	0.427	ND		1.00	0.427	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	ND		1.00	0.391	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		1.00	0.639	ND		0.500	0.316	ND		0.500	0.316	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		1.00	0.578	ND		0.500	0.345	ND		0.500	0.345	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**200**	**56.3**	ND		**100**	**69.6**	ND		**100**	**69.6**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		1.00	0.688	ND		0.500	0.349	ND		0.500	0.349	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		1.00	0.377	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.425	ND		0.500	0.365	ND		1.00	0.365	ND		1.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		1.00	0.507	ND		0.500	0.293	ND		0.500	0.293	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		1.00	0.409	ND		0.500	0.327	ND		1.00	0.327	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.542	ND		1.00	0.575	ND		1.00	0.575	ND		1.00	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		1.00	0.445	ND		0.500	0.381	ND		0.500	0.381	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.552	ND		0.500	0.352	ND		1.00	0.352	ND		1.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.412	ND		1.00	0.575	ND		1.00	0.575	ND		1.00	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**1.00**	**0.499**	ND		**0.500**	**0.356**	ND		**0.500**	**0.356**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		1.00	0.527	ND		0.500	0.287	ND		0.500	0.287	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	ND		1.00	0.407	ND		0.500	0.294	ND		0.500	0.294	ND		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		2.00	1.29	ND		1.00	0.944	ND		1.00	0.944	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		1.00	0.392	ND		1.00	0.254	ND		0.500	0.254	ND		1.00	0.290
Bromoform	75-25-2	**4**	**300**	ND		1.00	0.514	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		1.00	0.369	ND		0.500	0.307	ND		0.500	0.307	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		1.00	0.493	ND		0.500	0.495	ND		0.500	0.495	ND		1.00	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		1.00	0.595	ND		0.500	0.286	ND		0.500	0.286	ND		1.00	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		1.00	0.426	ND		0.500	0.341	ND		0.500	0.341	ND		1.00	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		1.00	0.605	ND		0.500	0.275	ND		0.500	0.275	ND		1.00	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.788**	ND		**1.00**	**0.534**	ND		**1.00**	**0.534**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.599	ND		0.500	0.243	ND		1.00	0.243	ND		1.00	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.673	ND		0.500	0.253	ND		1.00	0.253	ND		1.00	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.765	ND		1.00	0.656	ND		1.00	0.656	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		1.00	0.462	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		2.00	0.482	ND		0.500	0.430	ND		1.00	0.430	ND		0.500	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.744	ND		0.500	0.358	ND		1.00	0.358	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		1.00	0.409	ND		0.500	0.348	ND		1.00	0.348	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-20 04762-003 05/25/2016				MW-20 08165-003 08/31/2016				MW-20 10976-007 11/29/2016				MW-20 01710-008 02/28/2017			
Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.216	ND		1.00	0.216	ND		1.00	0.216	ND		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.271	ND		1.00	0.271	ND		1.00	0.271	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.213	ND		1.00	0.213	ND		1.00	0.213	ND		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.263	ND		1.00	0.263	ND		1.00	0.263	ND		1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.222	ND		1.00	0.222	ND		1.00	0.222	ND		1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.192	ND		1.00	0.192	ND		1.00	0.192	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.226	ND		1.00	0.226	ND		1.00	0.226	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.277	ND		1.00	0.277	ND		1.00	0.277	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.672

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc Indicates a concentration that exceeds the applicable criteria.
BOLD RL Indicates RL that exceeds applicable criteria.
BOLD MDL Indicates MDL that exceeds applicable criteria.
NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-20 04303-011 05/24/2017				MW-20 07106-005 08/16/2017				MW-20 09902-003 11/13/2017				MW-20 01326-002 02/20/2018			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		1.00	0.495	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		1.00	0.433	ND		0.500	0.433	ND		0.500	0.433	ND		0.500	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.464	ND		0.500	0.464	ND		1.00	0.464	ND		1.00	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.473	ND		1.00	0.473	ND		0.500	0.473	ND		0.500	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.442	ND		1.00	0.442	ND		0.500	0.442	ND		0.500	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		1.00	0.290	ND		0.500	0.290	ND		0.500	0.290	ND		0.500	0.290
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		1.00	0.458	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		1.00	0.351	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		1.00	0.341	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		1.00	0.364	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.304	ND		0.500	0.304	ND		1.00	0.304	ND		1.00	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.339	ND		0.500	0.339	ND		1.00	0.339	ND		1.00	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		0.500	0.411	ND		1.00	0.411	ND		0.500	0.411	ND		0.500	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.411	ND		0.500	0.411	ND		1.00	0.411	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA

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Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-20 04303-011 05/24/2017				MW-20 07106-005 08/16/2017				MW-20 09902-003 11/13/2017				MW-20 01326-002 02/20/2018			
Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.129	ND		1.00	0.129	ND		1.00	0.129	ND		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	**0.179**		0.100	0.100	**0.274**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	0.114		0.100	0.100	**0.239**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	0.127		0.100	0.100	0.215		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	**0.103**		0.100	0.100	**0.195**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	0.177		0.100	0.100	**0.256**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	0.162		0.100	0.100	0.239		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-20 04010-003 05/22/2018				MW-20 01830-005 03/11/2020				MW-23 01260-001 02/10/2016				MW-23 04838-004 05/26/2016			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.490	ND		1.00	0.617	ND		1.00	0.617
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.317	ND		1.00	0.487	ND		1.00	0.487
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.149	ND		1.00	0.522	ND		1.00	0.522
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		0.500	0.356	ND		1.00	0.506	ND		1.00	0.506
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.495	ND		0.500	0.390	ND		1.00	0.781	ND		1.00	0.781
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.433	ND		0.500	0.445	ND		1.00	0.643	ND		1.00	0.643
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.409	ND		1.00	0.612	ND		1.00	0.612
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.95	ND		2.00	0.820	ND		5.00	0.820
Carbon disulfide	75-15-0	**700**	**1500**	ND		0.500	0.464	ND		1.00	0.220	ND		1.00	0.543	ND		1.00	0.543
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		2.00	1.99	ND		2.00	1.99
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.281	ND		1.00	0.615	ND		1.00	0.615
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.265	ND		1.00	0.580	ND		1.00	0.580
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.193	ND		1.00	0.664	ND		1.00	0.664
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.156	ND		1.00	0.526	ND		1.00	0.526
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	0.701	ND		2.00	0.836	ND		1.00	0.836
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.174	ND		1.00	0.724	ND		1.00	0.724
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.163	ND		1.00	0.608	ND		1.00	0.608
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.105	ND		1.00	0.501	ND		1.00	0.501
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.449	ND		0.500	0.119	ND		1.00	0.499	ND		1.00	0.499
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.271	ND		1.00	0.628	ND		1.00	0.628
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.144	ND		1.00	0.391	ND		1.00	0.391
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.205	ND		1.00	0.639	ND		1.00	0.639
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.110	ND		1.00	0.578	ND		1.00	0.578
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**36.7**	ND		**200**	**56.3**	ND		**200**	**56.3**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.286	ND		1.00	0.688	ND		1.00	0.688
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.222	ND		1.00	0.377	ND		1.00	0.377
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.699	ND		1.00	0.795	ND		1.00	0.425	ND		1.00	0.425
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.174	ND		1.00	0.507	ND		1.00	0.507
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.241	ND		1.00	0.409	ND		1.00	0.409
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.473	ND		0.500	0.232	ND		1.00	0.542	ND		1.00	0.542
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.270	ND		1.00	0.445	ND		1.00	0.445
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.761	ND		1.00	0.975	ND		1.00	0.552	ND		1.00	0.552
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.442	ND		0.500	0.381	ND		1.00	0.412	ND		1.00	0.412
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.402**	ND		**0.500**	**0.260**	ND		**1.00**	**0.499**	ND		**1.00**	**0.499**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.278	ND		1.00	0.527	ND		1.00	0.527
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.344	ND		1.00	0.270	ND		1.00	0.407	ND		1.00	0.407
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		2.00	0.881	ND		2.00	1.29	ND		2.00	1.29
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.290	ND		1.00	0.432	ND		1.00	0.392	ND		1.00	0.392
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.423	ND		1.00	0.514	ND		1.00	0.514
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.323	ND		1.00	0.386	ND		1.00	0.369	ND		1.00	0.369
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.458	ND		1.00	0.791	ND		1.00	0.493	ND		1.00	0.493
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.351	ND		1.00	0.296	ND		1.00	0.595	ND		1.00	0.595
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		1.00	0.392	ND		1.00	0.426	ND		1.00	0.426
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.364	ND		1.00	0.324	ND		1.00	0.605	ND		1.00	0.605
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.572**	ND		**1.00**	**0.788**	ND		**1.00**	**0.788**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		0.500	0.304	ND		1.00	0.362	ND		1.00	0.599	ND		1.00	0.599
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		0.500	0.339	ND		1.00	0.513	ND		1.00	0.673	ND		1.00	0.673
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.347	ND		1.00	0.765	ND		1.00	0.765
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.487	ND		1.00	0.462	ND		1.00	0.462
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.411	ND		1.00	0.548	ND		2.00	0.482	ND		2.00	0.482
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		0.500	0.411	ND		1.00	0.500	ND		1.00	0.744	ND		1.00	0.744
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.241	ND		1.00	0.409	ND		1.00	0.409
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA

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Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.139	ND		1.00	0.275	ND		1.00	0.216	ND		1.00	0.216
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.150	ND		1.00	0.271	ND		1.00	0.271
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.160	ND		1.00	0.199	ND		1.00	0.199
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.129	ND		1.00	0.326	ND		1.00	0.213	ND		1.00	0.213
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.182	ND		1.00	0.282	ND		1.00	0.263	ND		1.00	0.263
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	ND		1.00	0.289	ND		1.00	0.222	ND		1.00	0.222
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.245	ND		1.00	0.192	ND		1.00	0.192
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.235	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.366	ND		1.00	0.226	ND		1.00	0.226
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.462	ND		1.00	0.277	ND		1.00	0.277
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.367	ND		1.00	0.431	ND		1.00	0.431

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For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
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1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-23 08057-004 08/30/2016				MW-23 11064-008 12/01/2016				MW-23 01722-006 03/01/2017				MW-23 04303-008 05/23/2017			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.516	ND		1.00	0.516	ND		1.00	0.662	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.443	ND		0.500	0.443	ND		0.500	0.463	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.655	ND		1.00	0.655	ND		1.00	0.591	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.516	ND		1.00	0.516	ND		1.00	0.544	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.495	ND		1.00	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.396	ND		0.500	0.396	ND		0.500	0.433	ND		1.00	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.329	ND		0.500	0.329	ND		0.500	0.493	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		1.00	0.760	ND		2.00	0.760	ND		2.00	1.33	ND		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		0.500	0.299	ND		0.500	0.299	ND		0.500	0.464	ND		1.00	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.378	ND		0.500	0.378	ND		0.500	0.454	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.406	ND		0.500	0.406	ND		0.500	0.479	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.366	ND		0.500	0.366	ND		0.500	0.493	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.401	ND		0.500	0.401	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		1.00	0.623	ND		2.00	0.623	ND		2.00	1.66	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.434	ND		0.500	0.434	ND		0.500	0.469	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.405	ND		0.500	0.405	ND		0.500	0.462	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.315	ND		0.500	0.315	ND		0.500	0.449	ND		0.500	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.427	ND		0.500	0.427	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.316	ND		0.500	0.316	ND		0.500	0.493	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.345	ND		0.500	0.345	ND		0.500	0.447	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**69.6**	ND		**100**	**69.6**	ND		**100**	**98.4**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.349	ND		0.500	0.349	ND		0.500	0.353	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.331	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		0.500	0.365	ND		1.00	0.365	ND		2.00	0.699	ND		1.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.293	ND		0.500	0.293	ND		0.500	0.379	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.327	ND		0.500	0.327	ND		0.500	0.321	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.575	ND		1.00	0.575	ND		1.00	0.473	ND		1.00	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.381	ND		0.500	0.381	ND		0.500	0.451	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		0.500	0.352	ND		1.00	0.352	ND		2.00	0.761	ND		1.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.575	ND		1.00	0.575	ND		1.00	0.442	ND		1.00	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.356**	ND		**0.500**	**0.356**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.287	ND		0.500	0.287	ND		0.500	0.376	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.294	ND		0.500	0.294	ND		0.500	0.344	ND		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.944	ND		1.00	0.944	ND		1.00	0.923	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.254	ND		0.500	0.254	ND		0.500	0.290	ND		1.00	0.290
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.307	ND		0.500	0.307	ND		0.500	0.323	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.458	ND		1.00	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.286	ND		0.500	0.286	ND		0.500	0.351	ND		1.00	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341	ND		1.00	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.275	ND		0.500	0.275	ND		0.500	0.364	ND		1.00	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.534**	ND		**1.00**	**0.534**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		0.500	0.243	ND		0.500	0.243	ND		0.500	0.304	ND		1.00	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		0.500	0.253	ND		0.500	0.253	ND		0.500	0.339	ND		1.00	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.656	ND		1.00	0.656	ND		1.00	0.563	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.485	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.430	ND		1.00	0.430	ND		1.00	0.411	ND		0.500	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		0.500	0.358	ND		0.500	0.358	ND		1.00	0.411	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.331	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-23 08057-004 08/30/2016				MW-23 11064-008 12/01/2016				MW-23 01722-006 03/01/2017				MW-23 04303-008 05/23/2017			
Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.216	ND		1.00	0.216	ND		1.00	0.139	ND		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.271	ND		1.00	0.271	ND		1.00	0.128	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.141	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.213	ND		1.00	0.213	ND		1.00	0.129	ND		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.263	ND		1.00	0.263	ND		1.00	0.182	ND		1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.222	ND		1.00	0.222	ND		1.00	0.175	ND		1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.192	ND		1.00	0.192	ND		1.00	0.211	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	0.241	J	1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.226	0.325	J	1.00	0.226	ND		1.00	0.339	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	**0.231**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.277	0.460	J	1.00	0.277	ND		1.00	0.245	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	**0.294**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	0.280		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	**0.277**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	**0.282**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	0.289		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.672	ND		1.00	0.672

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc Indicates a concentration that exceeds the applicable criteria.
BOLD RL Indicates RL that exceeds applicable criteria.
BOLD MDL Indicates MDL that exceeds applicable criteria.
NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-23 07106-007 08/17/2017				MW-23 09902-008 11/14/2017				MW-23 01326-007 02/21/2018				MW-23 04088-002 05/23/2018			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.433	ND		0.500	0.433	ND		0.500	0.433	ND		0.500	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		0.500	0.464	ND		1.00	0.464	ND		1.00	0.464	ND		0.500	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.473	ND		0.500	0.473	ND		0.500	0.473	ND		1.00	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.442	ND		0.500	0.442	ND		0.500	0.442	ND		1.00	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.290	ND		0.500	0.290	ND		0.500	0.290	ND		0.500	0.290
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		0.500	0.304	ND		1.00	0.304	ND		1.00	0.304	ND		0.500	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		0.500	0.339	ND		1.00	0.339	ND		1.00	0.339	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.411	ND		0.500	0.411	ND		0.500	0.411	ND		1.00	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		0.500	0.411	ND		1.00	0.411	ND		1.00	0.411	ND		0.500	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA

Table 2
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Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-23 07106-007 08/17/2017				MW-23 09902-008 11/14/2017				MW-23 01326-007 02/21/2018				MW-23 04088-002 05/23/2018			
Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.129	ND		1.00	0.129	ND		1.00	0.129	ND		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc Indicates a concentration that exceeds the applicable criteria.
BOLD RL Indicates RL that exceeds applicable criteria.
BOLD MDL Indicates MDL that exceeds applicable criteria.
NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-23 06628-007 09/05/2019				MW-23 09097-006 12/11/2019				MW-23 01830-007 03/11/2020				MW-24-1 01262-003 02/09/2016			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.490	ND		1.00	0.490	ND		1.00	0.490	ND		1.00	0.617
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.317	ND		0.500	0.317	ND		0.500	0.317	ND		1.00	0.487
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.149	ND		1.00	0.149	ND		1.00	0.149	ND		1.00	0.522
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.356	ND		0.500	0.356	ND		0.500	0.356	ND		1.00	0.506
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.390	ND		0.500	0.390	ND		0.500	0.390	ND		1.00	0.781
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445	ND		1.00	0.643
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.409	ND		0.500	0.409	ND		0.500	0.409	ND		1.00	0.612
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.95	ND		2.00	1.95	ND		2.00	1.95	ND		5.00	0.820
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.220	ND		1.00	0.220	ND		1.00	0.220	ND		2.00	0.543
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		2.00	1.99
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.281	ND		0.500	0.281	ND		0.500	0.281	ND		1.00	0.615
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.265	ND		0.500	0.265	ND		0.500	0.265	ND		1.00	0.580
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.193	ND		0.500	0.193	ND		0.500	0.193	ND		1.00	0.664
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.156	ND		0.500	0.156	ND		0.500	0.156	ND		1.00	0.526
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	0.701	ND		2.00	0.701	ND		2.00	0.701	ND		5.00	0.836
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.174	ND		1.00	0.174	ND		1.00	0.174	ND		1.00	0.724
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.163	ND		0.500	0.163	ND		0.500	0.163	ND		1.00	0.608
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.105	ND		0.500	0.105	ND		0.500	0.105	ND		1.00	0.501
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.119	ND		0.500	0.119	ND		0.500	0.119	ND		1.00	0.499
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.271	ND		0.500	0.271	ND		0.500	0.271	ND		1.00	0.628
Benzene	71-43-2	**1**	**20**	ND		0.500	0.144	ND		0.500	0.144	ND		0.500	0.144	ND		1.00	0.391
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.205	ND		0.500	0.205	ND		0.500	0.205	ND		1.00	0.639
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.110	ND		0.500	0.110	ND		0.500	0.110	ND		1.00	0.578
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**36.7**	ND		**100**	**36.7**	ND		**100**	**36.7**	ND		**200**	**56.3**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.286	ND		0.500	0.286	ND		0.500	0.286	ND		1.00	0.688
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.222	ND		0.500	0.222	ND		0.500	0.222	ND		1.00	0.377
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.795	ND		1.00	0.795	ND		1.00	0.795	ND		1.00	0.425
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.174	ND		0.500	0.174	ND		0.500	0.174	ND		1.00	0.507
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.241	ND		0.500	0.241	ND		0.500	0.241	ND		1.00	0.409
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		0.500	0.232	ND		0.500	0.232	ND		0.500	0.232	ND		1.00	0.542
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.270	ND		0.500	0.270	ND		0.500	0.270	ND		1.00	0.445
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.975	ND		1.00	0.975	ND		1.00	0.975	ND		1.00	0.552
Dibromochloromethane	124-48-1	**1**	**6**	ND		0.500	0.381	ND		0.500	0.381	ND		0.500	0.381	ND		1.00	0.412
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.260**	ND		**0.500**	**0.260**	ND		**0.500**	**0.260**	ND		**1.00**	**0.499**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.278	ND		0.500	0.278	ND		0.500	0.278	ND		1.00	0.527
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.270	ND		1.00	0.270	ND		1.00	0.270	ND		1.00	0.407
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.881	ND		2.00	0.881	ND		2.00	0.881	ND		2.00	1.29
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.432	ND		1.00	0.432	ND		1.00	0.432	ND		1.00	0.392
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.423	ND		0.500	0.423	ND		0.500	0.423	ND		1.00	0.514
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.386	ND		1.00	0.386	ND		1.00	0.386	ND		1.00	0.369
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		1.00	0.791	ND		1.00	0.791	ND		1.00	0.791	ND		1.00	0.493
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.296	ND		1.00	0.296	ND		1.00	0.296	ND		1.00	0.595
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.392	ND		1.00	0.392	ND		1.00	0.392	ND		1.00	0.426
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.324	ND		1.00	0.324	ND		1.00	0.324	ND		1.00	0.605
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.572**	ND		**1.00**	**0.572**	ND		**1.00**	**0.572**	ND		**1.00**	**0.788**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.362	ND		1.00	0.362	ND		1.00	0.362	ND		1.00	0.599
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.513	ND		1.00	0.513	ND		1.00	0.513	ND		1.00	0.673
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.347	ND		1.00	0.347	ND		1.00	0.347	ND		1.00	0.765
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.487	ND		0.500	0.487	ND		0.500	0.487	ND		1.00	0.462
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.548	ND		1.00	0.548	ND		1.00	0.548	ND		2.00	0.482
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.500	ND		1.00	0.500	ND		1.00	0.500	ND		1.00	0.744
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.241	ND		0.500	0.241	ND		0.500	0.241	ND		1.00	0.409
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA

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Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.275	ND		1.00	0.275	ND		1.00	0.275	ND		1.00	0.216
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.150	ND		1.00	0.150	ND		1.00	0.150	ND		1.00	0.271
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.160	ND		1.00	0.160	ND		1.00	0.160	ND		1.00	0.199
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.326	ND		1.00	0.326	ND		1.00	0.326	ND		1.00	0.213
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.282	ND		1.00	0.282	ND		1.00	0.282	ND		1.00	0.263
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.289	ND		1.00	0.289	ND		1.00	0.289	ND		1.00	0.222
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.192
Fluoranthene	206-44-0	**300**	**NS**	0.249	J	1.00	0.235	ND		1.00	0.235	ND		1.00	0.235	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.366	ND		1.00	0.366	ND		1.00	0.366	ND		1.00	0.226
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.462	ND		1.00	0.462	ND		1.00	0.462	ND		1.00	0.277
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.367	ND		1.00	0.367	ND		1.00	0.367	ND		1.00	0.431

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1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-24-1 04838-002 05/26/2016				MW-24-1 08180-002 09/01/2016				MW-24-1 11064-009 12/01/2016				MW-24-1 01794-002 03/02/2017			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.617	ND		1.00	0.516	ND		1.00	0.516	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		1.00	0.487	ND		0.500	0.443	ND		0.500	0.443	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.522	ND		1.00	0.655	ND		1.00	0.655	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.506	ND		1.00	0.516	ND		1.00	0.516	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		1.00	0.781	ND		1.00	0.454	ND		0.500	0.454	ND		0.500	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		1.00	0.643	ND		1.00	0.396	ND		0.500	0.396	ND		0.500	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		1.00	0.612	ND		0.500	0.329	ND		0.500	0.329	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		5.00	0.820	ND		1.00	0.760	ND		2.00	0.760	ND		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.543	ND		0.500	0.299	ND		0.500	0.299	ND		0.500	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		2.00	1.99	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		1.00	0.615	ND		0.500	0.378	ND		0.500	0.378	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		1.00	0.580	ND		0.500	0.406	ND		0.500	0.406	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		1.00	0.664	ND		0.500	0.366	ND		0.500	0.366	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		1.00	0.526	ND		0.500	0.401	ND		0.500	0.401	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		1.00	0.836	ND		1.00	0.623	ND		2.00	0.623	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.724	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		1.00	0.608	ND		0.500	0.434	ND		0.500	0.434	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		1.00	0.501	ND		0.500	0.405	ND		0.500	0.405	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		1.00	0.499	ND		0.500	0.315	ND		0.500	0.315	ND		0.500	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		1.00	0.628	ND		0.500	0.427	ND		0.500	0.427	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	ND		1.00	0.391	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		1.00	0.639	ND		0.500	0.316	ND		0.500	0.316	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		1.00	0.578	ND		0.500	0.345	ND		0.500	0.345	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**200**	**56.3**	ND		**100**	**69.6**	ND		**100**	**69.6**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		1.00	0.688	ND		0.500	0.349	ND		0.500	0.349	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		1.00	0.377	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.425	ND		0.500	0.365	ND		1.00	0.365	ND		2.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		1.00	0.507	ND		0.500	0.293	ND		0.500	0.293	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		1.00	0.409	ND		0.500	0.327	ND		0.500	0.327	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.542	ND		1.00	0.575	ND		1.00	0.575	ND		1.00	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		1.00	0.445	ND		0.500	0.381	ND		0.500	0.381	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.552	ND		0.500	0.352	ND		1.00	0.352	ND		2.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.412	ND		1.00	0.575	ND		1.00	0.575	ND		1.00	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**1.00**	**0.499**	ND		**0.500**	**0.356**	ND		**0.500**	**0.356**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		1.00	0.527	ND		0.500	0.287	ND		0.500	0.287	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	ND		1.00	0.407	ND		0.500	0.294	ND		0.500	0.294	ND		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		2.00	1.29	ND		1.00	0.944	ND		1.00	0.944	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		1.00	0.392	ND		1.00	0.254	ND		0.500	0.254	ND		0.500	0.290
Bromoform	75-25-2	**4**	**300**	ND		1.00	0.514	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		1.00	0.369	ND		0.500	0.307	ND		0.500	0.307	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		1.00	0.493	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		1.00	0.595	ND		0.500	0.286	ND		0.500	0.286	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		1.00	0.426	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		1.00	0.605	ND		0.500	0.275	ND		0.500	0.275	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.788**	ND		**1.00**	**0.534**	ND		**1.00**	**0.534**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.599	ND		0.500	0.243	ND		0.500	0.243	ND		0.500	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.673	ND		0.500	0.253	ND		0.500	0.253	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.765	ND		1.00	0.656	ND		1.00	0.656	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		1.00	0.462	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		2.00	0.482	ND		0.500	0.430	ND		1.00	0.430	ND		1.00	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.744	ND		0.500	0.358	ND		0.500	0.358	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		1.00	0.409	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-24-1 04838-002 05/26/2016				MW-24-1 08180-002 09/01/2016				MW-24-1 11064-009 12/01/2016				MW-24-1 01794-002 03/02/2017			
Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.216	ND		1.00	0.216	ND		1.00	0.216	ND		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.271	ND		1.00	0.271	ND		1.00	0.271	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.213	ND		1.00	0.213	ND		1.00	0.213	ND		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.263	ND		1.00	0.263	ND		1.00	0.263	ND		1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.222	ND		1.00	0.222	ND		1.00	0.222	ND		1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.192	ND		1.00	0.192	ND		1.00	0.192	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.226	ND		1.00	0.226	ND		1.00	0.226	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.277	ND		1.00	0.277	ND		1.00	0.277	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.672

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-24-1 04364-002 05/25/2017				MW-24-1 06953-008 08/15/2017				MW-24-1 10016-003 11/15/2017				MW-24-1 01349-003 02/22/2018			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.433	ND		0.500	0.433	ND		0.500	0.433	ND		0.500	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		0.500	0.464	ND		0.500	0.464	ND		1.00	0.464	ND		0.500	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449	ND		1.00	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		2.00	0.699	ND		1.00	0.699	ND		1.00	0.699	ND		2.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.473	ND		1.00	0.473	ND		0.500	0.473	ND		0.500	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		2.00	0.761	ND		1.00	0.761	ND		1.00	0.761	ND		2.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.442	ND		1.00	0.442	ND		0.500	0.442	ND		0.500	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.15**	**0.0882**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.290	ND		0.500	0.290	ND		0.500	0.290	ND		0.500	0.290
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		0.500	0.304	ND		0.500	0.304	ND		1.00	0.304	ND		1.00	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		0.500	0.339	ND		0.500	0.339	ND		1.00	0.339	ND		1.00	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.411	ND		1.00	0.411	ND		0.500	0.411	ND		1.00	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.411	ND		0.500	0.411	ND		1.00	0.411	ND		0.500	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-24-1 04364-002 05/25/2017				MW-24-1 06953-008 08/15/2017				MW-24-1 10016-003 11/15/2017				MW-24-1 01349-003 02/22/2018			
Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.129	ND		1.00	0.129	ND		1.00	0.129	ND		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-24-1 04088-008 05/24/2018				MW-24-1 01900-008 03/13/2020				MW-24-2 01262-004 02/09/2016				MW-24-2 04838-003 05/26/2016			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.490	ND		1.00	0.617	ND		1.00	0.617
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.317	ND		1.00	0.487	ND		1.00	0.487
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.149	ND		1.00	0.522	ND		1.00	0.522
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.356	ND		1.00	0.506	ND		1.00	0.506
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.495	ND		0.500	0.390	ND		1.00	0.781	ND		1.00	0.781
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.433	ND		0.500	0.445	ND		1.00	0.643	ND		1.00	0.643
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.409	ND		1.00	0.612	ND		1.00	0.612
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.95	ND		5.00	0.820	ND		5.00	0.820
Carbon disulfide	75-15-0	**700**	**1500**	ND		0.500	0.464	ND		1.00	0.220	ND		2.00	0.543	ND		1.00	0.543
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		2.00	1.99	ND		2.00	1.99
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.281	ND		1.00	0.615	ND		1.00	0.615
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.265	ND		1.00	0.580	ND		1.00	0.580
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.193	ND		1.00	0.664	ND		1.00	0.664
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.156	ND		1.00	0.526	ND		1.00	0.526
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	0.701	ND		5.00	0.836	ND		1.00	0.836
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.174	ND		1.00	0.724	ND		1.00	0.724
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.163	ND		1.00	0.608	ND		1.00	0.608
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.105	ND		1.00	0.501	ND		1.00	0.501
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.449	ND		0.500	0.119	ND		1.00	0.499	ND		1.00	0.499
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.271	ND		1.00	0.628	ND		1.00	0.628
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.144	**4.03**		1.00	0.391	**3.84**		1.00	0.391
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.205	ND		1.00	0.639	ND		1.00	0.639
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.110	ND		1.00	0.578	ND		1.00	0.578
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**36.7**	ND		**200**	**56.3**	ND		**200**	**56.3**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.286	ND		1.00	0.688	ND		1.00	0.688
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.222	ND		1.00	0.377	ND		1.00	0.377
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.699	ND		1.00	0.795	ND		1.00	0.425	ND		1.00	0.425
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.174	ND		1.00	0.507	ND		1.00	0.507
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.241	ND		1.00	0.409	ND		1.00	0.409
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.473	ND		0.500	0.232	ND		1.00	0.542	ND		1.00	0.542
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.270	ND		1.00	0.445	ND		1.00	0.445
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.761	ND		1.00	0.975	ND		1.00	0.552	ND		1.00	0.552
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.442	ND		0.500	0.381	ND		1.00	0.412	ND		1.00	0.412
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.402**	ND		**0.500**	**0.260**	ND		**1.00**	**0.499**	ND		**1.00**	**0.499**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.278	ND		1.00	0.527	ND		1.00	0.527
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.344	ND		0.500	0.270	1.45		1.00	0.407	1.44		1.00	0.407
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.881	ND		2.00	1.29	ND		2.00	1.29
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.290	ND		0.500	0.432	ND		1.00	0.392	ND		1.00	0.392
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.423	ND		1.00	0.514	ND		1.00	0.514
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.323	ND		0.500	0.386	0.423	J	1.00	0.369	ND		1.00	0.369
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.458	ND		1.00	0.791	ND		1.00	0.493	ND		1.00	0.493
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.351	ND		0.500	0.296	ND		1.00	0.595	ND		1.00	0.595
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		0.500	0.392	ND		1.00	0.426	ND		1.00	0.426
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.364	ND		0.500	0.324	ND		1.00	0.605	ND		1.00	0.605
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.572**	ND		**1.00**	**0.788**	ND		**1.00**	**0.788**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		0.500	0.304	ND		1.00	0.362	ND		1.00	0.599	ND		1.00	0.599
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		0.500	0.339	ND		1.00	0.513	ND		1.00	0.673	ND		1.00	0.673
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.347	ND		1.00	0.765	ND		1.00	0.765
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.487	ND		1.00	0.462	ND		1.00	0.462
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.411	ND		1.00	0.548	ND		2.00	0.482	ND		2.00	0.482
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		0.500	0.411	ND		1.00	0.500	ND		1.00	0.744	ND		1.00	0.744
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.241	ND		1.00	0.409	ND		1.00	0.409
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	5.90	J		NA	5.28			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	59.4	JN		NA	47.2	JN		NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	65.3	JN		NA	52.5	JN		NA

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Semivolatiles - PAH (ug/L)				**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.139	ND		1.00	0.275	2.64		1.00	0.216	ND		1.00	0.216
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.150	ND		1.00	0.271	ND		1.00	0.271
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.160	ND		1.00	0.199	ND		1.00	0.199
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.129	ND		1.00	0.326	6.13		1.00	0.213	2.01		1.00	0.213
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.182	ND		1.00	0.282	1.10		1.00	0.263	ND		1.00	0.263
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	ND		1.00	0.289	0.934	J	1.00	0.222	ND		1.00	0.222
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.245	0.209	J	1.00	0.192	ND		1.00	0.192
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.235	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.366	ND		1.00	0.226	ND		1.00	0.226
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.462	ND		1.00	0.277	ND		1.00	0.277
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.367	ND		1.00	0.431	ND		1.00	0.431

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Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-24-2 04838-002 05/26/2016				MW-24-2 08180-003 09/01/2016				MW-24-2 11064-010 12/01/2016				MW-24-2 01794-003 03/02/2017			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.617	ND		1.00	0.516	ND		1.00	0.516	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		1.00	0.487	ND		0.500	0.443	ND		0.500	0.443	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.522	ND		1.00	0.655	ND		1.00	0.655	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.506	ND		1.00	0.516	ND		1.00	0.516	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		1.00	0.781	ND		1.00	0.454	ND		0.500	0.454	ND		0.500	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		1.00	0.643	ND		1.00	0.396	ND		0.500	0.396	ND		0.500	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		1.00	0.612	ND		0.500	0.329	ND		0.500	0.329	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		5.00	0.820	ND		1.00	0.760	ND		2.00	0.760	ND		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.543	ND		0.500	0.299	ND		0.500	0.299	ND		0.500	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		2.00	1.99	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		1.00	0.615	ND		0.500	0.378	ND		0.500	0.378	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		1.00	0.580	ND		0.500	0.406	ND		0.500	0.406	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		1.00	0.664	ND		0.500	0.366	ND		0.500	0.366	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		1.00	0.526	ND		0.500	0.401	ND		0.500	0.401	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		1.00	0.836	ND		1.00	0.623	ND		2.00	0.623	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.724	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		1.00	0.608	ND		0.500	0.434	ND		0.500	0.434	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		1.00	0.501	ND		0.500	0.405	ND		0.500	0.405	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		1.00	0.499	ND		0.500	0.315	ND		0.500	0.315	ND		0.500	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		1.00	0.628	ND		0.500	0.427	ND		0.500	0.427	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	ND		1.00	0.391	**3.47**		0.500	0.464	**4.48**		0.500	0.464	**2.55**		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		1.00	0.639	ND		0.500	0.316	ND		0.500	0.316	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		1.00	0.578	ND		0.500	0.345	ND		0.500	0.345	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**200**	**56.3**	ND		**100**	**69.6**	ND		**100**	**69.6**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		1.00	0.688	ND		0.500	0.349	ND		0.500	0.349	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		1.00	0.377	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.425	ND		0.500	0.365	ND		1.00	0.365	ND		2.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		1.00	0.507	ND		0.500	0.293	ND		0.500	0.293	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		1.00	0.409	ND		0.500	0.327	ND		0.500	0.327	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.542	ND		1.00	0.575	ND		1.00	0.575	ND		1.00	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		1.00	0.445	ND		0.500	0.381	ND		0.500	0.381	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.552	ND		0.500	0.352	ND		1.00	0.352	ND		2.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.412	ND		1.00	0.575	ND		1.00	0.575	ND		1.00	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**1.00**	**0.499**	ND		**0.500**	**0.356**	ND		**0.500**	**0.356**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		1.00	0.527	ND		0.500	0.287	ND		0.500	0.287	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	ND		1.00	0.407	1.01		0.500	0.294	0.546		0.500	0.294	0.781		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		2.00	1.29	ND		1.00	0.944	ND		1.00	0.944	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		1.00	0.392	ND		1.00	0.254	ND		0.500	0.254	ND		0.500	0.290
Bromoform	75-25-2	**4**	**300**	ND		1.00	0.514	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		1.00	0.369	0.325	J	0.500	0.307	ND		0.500	0.307	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		1.00	0.493	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		1.00	0.595	ND		0.500	0.286	ND		0.500	0.286	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		1.00	0.426	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		1.00	0.605	ND		0.500	0.275	ND		0.500	0.275	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.788**	ND		**1.00**	**0.534**	ND		**1.00**	**0.534**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.599	ND		0.500	0.243	ND		0.500	0.243	ND		0.500	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.673	ND		0.500	0.253	ND		0.500	0.253	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.765	ND		1.00	0.656	ND		1.00	0.656	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		1.00	0.462	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		2.00	0.482	ND		0.500	0.430	ND		1.00	0.430	ND		1.00	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.744	ND		0.500	0.358	ND		0.500	0.358	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		1.00	0.409	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	ND			NA	4.81	J		NA	5.03			NA	3.33			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	35.1	JN		NA	35.2	JN		NA	20.5	JN		NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	39.9	JN		NA	40.2	JN		NA	23.8	JN		NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-24-2 04838-002 05/26/2016				MW-24-2 08180-003 09/01/2016				MW-24-2 11064-010 12/01/2016				MW-24-2 01794-003 03/02/2017			
Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.216	0.447	J	1.00	0.216	ND		1.00	0.216	1.41		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.271	ND		1.00	0.271	ND		1.00	0.271	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.213	5.87		1.00	0.213	8.50		1.00	0.213	4.43		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.263	0.863	J	1.00	0.263	1.36		1.00	0.263	0.649	J	1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.222	0.437	J	1.00	0.222	1.04		1.00	0.222	0.511	J	1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.192	ND		1.00	0.192	0.242	J	1.00	0.192	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.226	ND		1.00	0.226	ND		1.00	0.226	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.277	ND		1.00	0.277	ND		1.00	0.277	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.672

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc Indicates a concentration that exceeds the applicable criteria.
BOLD RL Indicates RL that exceeds applicable criteria.
BOLD MDL Indicates MDL that exceeds applicable criteria.
NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-24-2 04364-003 05/25/2017				MW-24-2 06953-009 08/15/2017				MW-24-2 10016-002 11/15/2017				MW-24-2 01349-002 02/22/2018			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.433	ND		0.500	0.433	ND		0.500	0.433	ND		0.500	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		0.500	0.464	ND		0.500	0.464	ND		1.00	0.464	ND		0.500	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449	ND		1.00	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	**1.31**		0.500	0.464	0.626		0.500	0.464	**2.78**		0.500	0.464	0.665		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		2.00	0.699	ND		1.00	0.699	ND		1.00	0.699	ND		2.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.473	ND		1.00	0.473	ND		0.500	0.473	ND		0.500	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		2.00	0.761	ND		1.00	0.761	ND		1.00	0.761	ND		2.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.442	ND		1.00	0.442	ND		0.500	0.442	ND		0.500	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.15**	**0.0882**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	0.446	J	0.500	0.344	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.290	ND		0.500	0.290	ND		0.500	0.290	ND		0.500	0.290
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		0.500	0.304	ND		0.500	0.304	ND		1.00	0.304	ND		1.00	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		0.500	0.339	ND		0.500	0.339	ND		1.00	0.339	ND		1.00	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.411	ND		1.00	0.411	ND		0.500	0.411	ND		1.00	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.411	ND		0.500	0.411	ND		1.00	0.411	ND		0.500	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	1.76	J		NA	0.626			NA	2.78			NA	0.665			NA
TOTAL TIC's:		**NS**	**NS**	8.20	JN		NA	10.5	JN		NA	13.2	JN		NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	9.96	JN		NA	11.1	JN		NA	16.0	JN		NA	0.665			NA

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1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-24-2 04364-003 05/25/2017				MW-24-2 06953-009 08/15/2017				MW-24-2 10016-002 11/15/2017				MW-24-2 01349-002 02/22/2018			
Semivolatiles - PAH (ug/L)				**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Naphthalene	91-20-3	**300**	**300**	0.677	J	1.00	0.139	0.789	J	1.00	0.139	4.90		1.00	0.139	2.10		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	4.63		1.00	0.129	3.47		1.00	0.129	7.38		1.00	0.129	2.61		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	0.528	J	1.00	0.182	0.485	J	1.00	0.182	1.06		1.00	0.182	0.340	J	1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	0.230	J	1.00	0.175	0.691	J	1.00	0.175	0.221	J	1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

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For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-24-2 04088-007 05/24/2018				MW-24-2 01900-009 03/13/2020				MW-25 01260-004 02/10/2016				MW-25 04838-001 05/26/2016			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.490	ND		1.00	0.617	ND		1.00	0.617
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.317	ND		1.00	0.487	ND		1.00	0.487
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.149	ND		1.00	0.522	ND		1.00	0.522
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.356	ND		1.00	0.506	ND		1.00	0.506
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.495	ND		0.500	0.390	ND		1.00	0.781	ND		1.00	0.781
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.433	ND		0.500	0.445	ND		1.00	0.643	ND		1.00	0.643
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.409	ND		1.00	0.612	ND		1.00	0.612
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.95	ND		2.00	0.820	24.0		5.00	0.820
Carbon disulfide	75-15-0	**700**	**1500**	ND		0.500	0.464	ND		1.00	0.220	ND		1.00	0.543	ND		1.00	0.543
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		2.00	1.99	ND		2.00	1.99
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.281	ND		1.00	0.615	ND		1.00	0.615
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.265	ND		1.00	0.580	ND		1.00	0.580
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.193	ND		1.00	0.664	ND		1.00	0.664
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.156	ND		1.00	0.526	ND		1.00	0.526
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	0.701	ND		2.00	0.836	2.24		1.00	0.836
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.174	ND		1.00	0.724	ND		1.00	0.724
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.163	ND		1.00	0.608	ND		1.00	0.608
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.105	ND		1.00	0.501	ND		1.00	0.501
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.449	ND		0.500	0.119	ND		1.00	0.499	ND		1.00	0.499
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.271	ND		1.00	0.628	ND		1.00	0.628
Benzene	71-43-2	**1**	**20**	**2.95**		0.500	0.464	**1.54**		0.500	0.144	ND		1.00	0.391	0.940	J	1.00	0.391
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.205	ND		1.00	0.639	ND		1.00	0.639
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.110	ND		1.00	0.578	ND		1.00	0.578
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**36.7**	ND		**200**	**56.3**	ND		**200**	**56.3**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.286	ND		1.00	0.688	ND		1.00	0.688
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.222	ND		1.00	0.377	ND		1.00	0.377
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.699	ND		1.00	0.795	ND		1.00	0.425	ND		1.00	0.425
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.174	ND		1.00	0.507	ND		1.00	0.507
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.241	ND		1.00	0.409	ND		1.00	0.409
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.473	ND		0.500	0.232	ND		1.00	0.542	ND		1.00	0.542
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.270	ND		1.00	0.445	ND		1.00	0.445
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.761	ND		1.00	0.975	ND		1.00	0.552	ND		1.00	0.552
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.442	ND		0.500	0.381	ND		1.00	0.412	ND		1.00	0.412
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.402**	ND		**0.500**	**0.260**	ND		**1.00**	**0.499**	ND		**1.00**	**0.499**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.278	ND		1.00	0.527	ND		1.00	0.527
Ethylbenzene	100-41-4	**700**	**700**	1.06		0.500	0.344	ND		0.500	0.270	ND		1.00	0.407	ND		1.00	0.407
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.881	ND		2.00	1.29	ND		2.00	1.29
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.290	ND		0.500	0.432	ND		1.00	0.392	ND		1.00	0.392
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.423	ND		1.00	0.514	ND		1.00	0.514
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.323	ND		0.500	0.386	ND		1.00	0.369	ND		1.00	0.369
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.458	ND		1.00	0.791	ND		1.00	0.493	ND		1.00	0.493
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.351	ND		0.500	0.296	ND		1.00	0.595	ND		1.00	0.595
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		0.500	0.392	ND		1.00	0.426	ND		1.00	0.426
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.364	ND		0.500	0.324	ND		1.00	0.605	ND		1.00	0.605
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.572**	ND		**1.00**	**0.788**	ND		**1.00**	**0.788**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		0.500	0.304	ND		1.00	0.362	ND		1.00	0.599	ND		1.00	0.599
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		0.500	0.339	ND		1.00	0.513	ND		1.00	0.673	ND		1.00	0.673
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.347	ND		1.00	0.765	ND		1.00	0.765
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.487	ND		1.00	0.462	ND		1.00	0.462
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.411	ND		1.00	0.548	ND		2.00	0.482	ND		2.00	0.482
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		0.500	0.411	ND		1.00	0.500	ND		1.00	0.744	ND		1.00	0.744
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.241	ND		1.00	0.409	ND		1.00	0.409
TOTAL VO's:		**NS**	**NS**	4.01			NA	1.54			NA	ND			NA	27.2	J		NA
TOTAL TIC's:		**NS**	**NS**	69.0	JN		NA	ND			NA	ND			NA	5.30	J		NA
TOTAL VO's & TIC's:		**NS**	**NS**	73.0	JN		NA	1.54			NA	ND			NA	32.5	J		NA

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Semivolatiles - PAH (ug/L)				**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Naphthalene	91-20-3	**300**	**300**	4.05		1.00	0.139	ND		1.00	0.275	0.688	J	1.00	0.216	ND		1.00	0.216
2-Methylnaphthalene	91-57-6	**30**	**NS**	0.236	J	1.00	0.128	ND		1.00	0.150	ND		1.00	0.271	ND		1.00	0.271
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.160	ND		1.00	0.199	ND		1.00	0.199
Acenaphthene	83-32-9	**400**	**NS**	5.89		1.00	0.129	5.18		1.00	0.326	ND		1.00	0.213	0.309	J	1.00	0.213
Fluorene	86-73-7	**300**	**NS**	0.883	J	1.00	0.182	0.435	J	1.00	0.282	ND		1.00	0.263	ND		1.00	0.263
Phenanthrene	85-01-8	**100**	**NS**	0.577	J	1.00	0.175	0.350	J	1.00	0.289	ND		1.00	0.222	0.275	J	1.00	0.222
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.245	ND		1.00	0.192	ND		1.00	0.192
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.235	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.366	ND		1.00	0.226	ND		1.00	0.226
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	**0.138**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.462	ND		1.00	0.277	ND		1.00	0.277
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	0.100		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.367	ND		1.00	0.431	ND		1.00	0.431

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Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.516	ND		1.00	0.516	ND		1.00	0.662	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.443	ND		0.500	0.443	ND		0.500	0.463	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.655	ND		1.00	0.655	ND		1.00	0.591	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.516	ND		1.00	0.516	ND		1.00	0.544	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.495	ND		0.500	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.396	ND		0.500	0.396	ND		0.500	0.433	ND		0.500	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.329	ND		0.500	0.329	ND		0.500	0.493	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		1.00	0.760	14.5		2.00	0.760	8.21		2.00	1.33	ND		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		0.500	0.299	ND		0.500	0.299	ND		0.500	0.464	ND		0.500	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.378	ND		0.500	0.378	ND		0.500	0.454	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.406	ND		0.500	0.406	ND		0.500	0.479	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.366	ND		0.500	0.366	ND		0.500	0.493	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.401	ND		0.500	0.401	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		1.00	0.623	ND		2.00	0.623	ND		2.00	1.66	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.434	ND		0.500	0.434	ND		0.500	0.469	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.405	ND		0.500	0.405	ND		0.500	0.462	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.315	ND		0.500	0.315	ND		0.500	0.449	ND		0.500	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.427	ND		0.500	0.427	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.316	ND		0.500	0.316	ND		0.500	0.493	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.345	ND		0.500	0.345	ND		0.500	0.447	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**69.6**	ND		**100**	**69.6**	ND		**100**	**98.4**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.349	ND		0.500	0.349	ND		0.500	0.353	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.331	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		0.500	0.365	ND		1.00	0.365	ND		2.00	0.699	ND		2.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.293	ND		0.500	0.293	ND		0.500	0.379	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.327	ND		0.500	0.327	ND		0.500	0.321	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.575	ND		1.00	0.575	ND		1.00	0.473	ND		1.00	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.381	ND		0.500	0.381	ND		0.500	0.451	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		0.500	0.352	ND		1.00	0.352	ND		2.00	0.761	ND		2.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.575	ND		1.00	0.575	ND		1.00	0.442	ND		1.00	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.356**	ND		**0.500**	**0.356**	ND		**0.500**	**0.402**	ND		**0.15**	**0.0882**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.287	ND		0.500	0.287	ND		0.500	0.376	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.294	ND		0.500	0.294	ND		0.500	0.344	ND		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.944	ND		1.00	0.944	ND		1.00	0.923	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.254	ND		0.500	0.254	ND		0.500	0.290	ND		0.500	0.290
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.307	ND		0.500	0.307	ND		0.500	0.323	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.458	ND		0.500	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.286	ND		0.500	0.286	ND		0.500	0.351	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.275	ND		0.500	0.275	ND		0.500	0.364	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.534**	ND		**1.00**	**0.534**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		0.500	0.243	ND		0.500	0.243	ND		0.500	0.304	ND		0.500	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		0.500	0.253	ND		0.500	0.253	ND		0.500	0.339	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.656	ND		1.00	0.656	ND		1.00	0.563	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.485	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.430	ND		1.00	0.430	ND		1.00	0.411	ND		1.00	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		0.500	0.358	ND		0.500	0.358	ND		1.00	0.411	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.331	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	ND			NA	14.5			NA	8.21			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	14.5			NA	8.21			NA	ND			NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-25 08057-002 08/30/2016				MW-25 11064-007 12/01/2016				MW-25 01722-005 03/01/2017				MW-25 04364-001 05/25/2017			
Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.216	ND		1.00	0.216	ND		1.00	0.139	ND		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.271	ND		1.00	0.271	ND		1.00	0.128	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.141	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.213	0.361	J	1.00	0.213	ND		1.00	0.129	ND		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.263	ND		1.00	0.263	ND		1.00	0.182	ND		1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.222	ND		1.00	0.222	ND		1.00	0.175	ND		1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.192	ND		1.00	0.192	ND		1.00	0.211	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.226	0.266	J	1.00	0.226	ND		1.00	0.339	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.277	ND		1.00	0.277	ND		1.00	0.245	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.672	ND		1.00	0.672

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-25 06953-010 08/15/2017				MW-25 10016-001 11/15/2017				MW-25 01349-001 02/22/2018				MW-25 04088-006 05/24/2018			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.662	ND		2.00	1.32	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.463	ND		1.00	0.926	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.591	ND		**2.00**	**1.18**	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.544	ND		2.00	1.09	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.495	ND		0.500	0.495	ND		1.00	0.990	ND		0.500	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.433	ND		0.500	0.433	ND		1.00	0.866	ND		0.500	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.493	ND		1.00	0.986	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.33	49.0	D	4.00	2.66	11.3		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		0.500	0.464	ND		1.00	0.464	ND		1.00	0.928	ND		0.500	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		2.00	1.98	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.454	ND		1.00	0.908	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.479	ND		1.00	0.958	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.493	ND		1.00	0.986	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.451	ND		1.00	0.902	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	1.66	ND		4.00	3.32	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		2.00	1.19	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.469	ND		1.00	0.938	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.462	ND		1.00	0.924	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.449	ND		0.500	0.449	ND		**2.00**	0.898	ND		0.500	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.458	ND		1.00	0.916	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.464	ND		1.00	0.928	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.493	ND		1.00	0.986	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.447	ND		1.00	0.894	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**200**	**197**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.353	ND		1.00	0.706	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		1.00	0.662	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.699	ND		1.00	0.699	ND		4.00	1.40	ND		1.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.379	ND		1.00	0.758	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.321	ND		1.00	0.642	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.473	ND		0.500	0.473	ND		1.00	0.946	ND		1.00	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.451	ND		1.00	0.902	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.761	ND		1.00	0.761	ND		4.00	1.52	ND		1.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.442	ND		0.500	0.442	ND		1.00	0.884	ND		1.00	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**1.00**	**0.804**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.376	ND		1.00	0.752	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.344	ND		0.500	0.344	ND		1.00	0.688	ND		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.923	ND		2.00	1.85	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.290	ND		0.500	0.290	ND		1.00	0.580	ND		0.500	0.290
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		1.00	0.890	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.323	ND		0.500	0.323	ND		1.00	0.646	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.458	ND		0.500	0.458	ND		1.00	0.916	ND		0.500	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.351	ND		0.500	0.351	ND		1.00	0.702	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		0.500	0.341	ND		1.00	0.682	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.364	ND		0.500	0.364	ND		1.00	0.728	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**2.00**	**1.07**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		0.500	0.304	ND		1.00	0.304	ND		2.00	0.608	ND		0.500	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		0.500	0.339	ND		1.00	0.339	ND		2.00	0.678	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.563	ND		2.00	1.13	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.485	ND		1.00	0.970	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.411	ND		0.500	0.411	ND		2.00	0.822	ND		1.00	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		0.500	0.411	ND		1.00	0.411	ND		1.00	0.822	ND		0.500	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		1.00	0.662	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	49.0	D		NA	11.3			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	49.0	D		NA	11.3			NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-25 06953-010 08/15/2017				MW-25 10016-001 11/15/2017				MW-25 01349-001 02/22/2018				MW-25 04088-006 05/24/2018			
Semivolatiles - PAH (ug/L)				**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	0.306	J	1.00	0.129	ND		1.00	0.129	ND		1.00	0.129	ND		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
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Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-25 01900-007 03/13/2020				MW-26 01261-006 02/11/2016				MW-26 04761-002 05/24/2016				MW-26 08057-003 08/30/2016			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.490	ND		1.00	0.617	ND		1.00	0.617	ND		1.00	0.516
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.317	ND		1.00	0.487	ND		1.00	0.487	ND		0.500	0.443
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.149	ND		1.00	0.522	ND		1.00	0.522	ND		1.00	0.655
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.356	ND		1.00	0.506	ND		1.00	0.506	ND		1.00	0.516
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.390	ND		1.00	0.781	ND		1.00	0.781	ND		0.500	0.454
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.445	ND		1.00	0.643	ND		1.00	0.643	ND		0.500	0.396
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.409	ND		1.00	0.612	ND		1.00	0.612	ND		0.500	0.329
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.95	ND		5.00	0.820	ND		5.00	0.820	ND		1.00	0.760
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.220	ND		2.00	0.543	6.06		1.00	0.543	ND		0.500	0.299
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		2.00	1.99	ND		2.00	1.99	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.281	ND		1.00	0.615	ND		1.00	0.615	ND		0.500	0.378
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.265	ND		1.00	0.580	ND		1.00	0.580	ND		0.500	0.406
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.193	ND		1.00	0.664	ND		1.00	0.664	ND		0.500	0.366
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.156	ND		1.00	0.526	ND		1.00	0.526	ND		0.500	0.401
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	0.701	ND		5.00	0.836	ND		2.00	0.836	ND		1.00	0.623
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.174	ND		1.00	0.724	ND		1.00	0.724	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.163	ND		1.00	0.608	ND		1.00	0.608	ND		0.500	0.434
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.105	ND		1.00	0.501	ND		1.00	0.501	ND		0.500	0.405
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.119	ND		1.00	0.499	ND		1.00	0.499	ND		0.500	0.315
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.271	ND		1.00	0.628	ND		1.00	0.628	ND		0.500	0.427
Benzene	71-43-2	**1**	**20**	ND		0.500	0.144	**3.29**		1.00	0.391	**10.3**		1.00	0.391	**2.37**		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.205	ND		1.00	0.639	ND		1.00	0.639	ND		0.500	0.316
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.110	ND		1.00	0.578	ND		1.00	0.578	ND		0.500	0.345
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**36.7**	ND		**200**	**56.3**	ND		**500**	**56.3**	ND		**100**	**69.6**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.286	ND		1.00	0.688	ND		1.00	0.688	ND		0.500	0.349
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.222	ND		1.00	0.377	ND		1.00	0.377	ND		0.500	0.348
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.795	ND		1.00	0.425	ND		2.00	0.425	ND		0.500	0.365
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.174	ND		1.00	0.507	ND		1.00	0.507	ND		0.500	0.293
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.241	ND		1.00	0.409	ND		1.00	0.409	ND		0.500	0.327
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		0.500	0.232	ND		1.00	0.542	ND		1.00	0.542	ND		1.00	0.575
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.270	ND		1.00	0.445	ND		1.00	0.445	ND		0.500	0.381
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.975	ND		1.00	0.552	ND		2.00	0.552	ND		0.500	0.352
Dibromochloromethane	124-48-1	**1**	**6**	ND		0.500	0.381	ND		1.00	0.412	ND		1.00	0.412	ND		1.00	0.575
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.260**	ND		**1.00**	**0.499**	ND		**1.00**	**0.499**	ND		**0.500**	**0.356**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.278	ND		1.00	0.527	ND		1.00	0.527	ND		0.500	0.287
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.270	0.939	J	1.00	0.407	6.15		1.00	0.407	ND		0.500	0.294
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.881	ND		2.00	1.29	3.86		2.00	1.29	ND		1.00	0.944
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.432	ND		1.00	0.392	ND		1.00	0.392	ND		0.500	0.254
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.423	ND		1.00	0.514	ND		1.00	0.514	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.386	ND		1.00	0.369	0.671	J	1.00	0.369	ND		0.500	0.307
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		1.00	0.791	ND		1.00	0.493	ND		1.00	0.493	ND		0.500	0.495
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.296	ND		1.00	0.595	ND		1.00	0.595	ND		0.500	0.286
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.392	ND		1.00	0.426	ND		1.00	0.426	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.324	ND		1.00	0.605	ND		1.00	0.605	ND		0.500	0.275
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.572**	ND		**1.00**	**0.788**	ND		**1.00**	**0.788**	ND		**1.00**	**0.534**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.362	ND		1.00	0.599	ND		1.00	0.599	ND		0.500	0.243
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.513	ND		1.00	0.673	ND		1.00	0.673	ND		0.500	0.253
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.347	ND		1.00	0.765	ND		1.00	0.765	ND		1.00	0.656
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.487	ND		1.00	0.462	ND		1.00	0.462	ND		0.500	0.348
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.548	ND		2.00	0.482	ND		5.00	0.482	ND		1.00	0.430
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.500	ND		1.00	0.744	ND		1.00	0.744	ND		0.500	0.358
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.241	ND		1.00	0.409	ND		1.00	0.409	ND		0.500	0.348
TOTAL VO's:		**NS**	**NS**	ND			NA	4.23	J		NA	27.0	J		NA	2.37			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	28.8	JN		NA	64.9	JN		NA	5.80	JN		NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	33.0	JN		NA	91.9	JN		NA	8.17	JN		NA

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Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.275	2.23		1.00	0.216	ND		1.00	0.216	1.22		1.00	0.216
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.150	ND		1.00	0.271	ND		1.00	0.271	ND		1.00	0.271
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.160	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.199
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.326	7.38		1.00	0.213	ND		1.00	0.213	8.75		1.00	0.213
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.282	1.55		1.00	0.263	ND		1.00	0.263	ND		1.00	0.263
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.289	1.24		1.00	0.222	ND		1.00	0.222	0.619	J	1.00	0.222
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.245	0.524	J	1.00	0.192	ND		1.00	0.192	0.198	J	1.00	0.192
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.235	0.521	J	1.00	0.204	ND		1.00	0.204	0.436	J	1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.366	0.996	J	1.00	0.226	ND		1.00	0.226	0.603	J	1.00	0.226
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.462	ND		1.00	0.277	ND		1.00	0.277	ND		1.00	0.277
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.367	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.431

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BOLD Conc Indicates a concentration that exceeds the applicable criteria.
BOLD RL Indicates RL that exceeds applicable criteria.
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NS = No Standard Available
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ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
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Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.516	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.443	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.655	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.516	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.454	ND		1.00	0.495	ND		0.500	0.495	ND		0.500	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.396	ND		1.00	0.433	ND		0.500	0.433	ND		0.500	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.329	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	0.760	ND		2.00	1.33	5.30		2.00	1.33	ND		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		0.500	0.299	ND		1.00	0.464	ND		0.500	0.464	ND		1.00	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.378	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.406	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.366	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.401	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	0.623	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.434	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.405	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.315	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.427	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	**23.4**		0.500	0.464	**5.45**		0.500	0.464	0.722		0.500	0.464	**8.56**		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.316	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.345	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**69.6**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.349	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.348	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.365	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.699
Toluene	108-88-3	**600**	**330000**	0.715		0.500	0.293	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.327	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.575	ND		1.00	0.473	ND		1.00	0.473	ND		0.500	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.381	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.352	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.575	ND		1.00	0.442	ND		1.00	0.442	ND		0.500	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.356**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.287	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	9.88		0.500	0.294	8.29		0.500	0.344	2.15		0.500	0.344	1.54		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	3.39		1.00	0.944	5.48		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.254	ND		1.00	0.290	ND		0.500	0.290	ND		0.500	0.290
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	0.930		0.500	0.307	1.99		0.500	0.323	1.19		0.500	0.323	1.28		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.495	ND		1.00	0.458	ND		0.500	0.458	ND		0.500	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.286	ND		1.00	0.351	ND		0.500	0.351	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		1.00	0.341	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.275	ND		1.00	0.364	ND		0.500	0.364	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.534**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		0.500	0.243	ND		1.00	0.304	ND		0.500	0.304	ND		1.00	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		0.500	0.253	ND		1.00	0.339	ND		0.500	0.339	ND		1.00	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.656	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.348	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.430	ND		0.500	0.411	ND		1.00	0.411	ND		0.500	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		0.500	0.358	ND		1.00	0.411	ND		0.500	0.411	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.348	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	38.3			NA	21.2			NA	9.36			NA	11.4			NA
TOTAL TIC's:		**NS**	**NS**	118	JN		NA	821	JN		NA	136	JN		NA	19.0	JN		NA
TOTAL VO's & TIC's:		**NS**	**NS**	156	JN		NA	842	JN		NA	145	JN		NA	30.4	JN		NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-26 11064-004 11/30/2016				MW-26R 04303-007 05/23/2017				MW-26R 06953-002 08/14/2017				MW-26R 10016-004 11/15/2017			
Semivolatiles - PAH (ug/L)				**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Naphthalene	91-20-3	**300**	**300**	7.64		1.00	0.216	4.72		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.271	4.64		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.199	0.725	J	1.00	0.141	ND		1.00	0.141	0.221	J	1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	9.19		1.00	0.213	37.7		1.00	0.129	16.8		1.00	0.129	8.25		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	1.21		1.00	0.263	10.2		1.00	0.182	5.30		1.00	0.182	ND		1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.222	1.83		1.00	0.175	0.363	J	1.00	0.175	ND		1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.192	1.86		1.00	0.211	0.998	J	1.00	0.211	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	1.42		1.00	0.204	1.06		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	0.481	J	1.00	0.226	1.51		1.00	0.339	1.29		1.00	0.339	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.277	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.431	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1		HIGHER OF	Table 1 - Mar 13	MW-26R				MW-26R				MW-26R				MW-27			
Field ID:		PQLs	Vapor Intrusion																
Lab ID:		and	GW	01349-005				04010-006				01900-003				04839-001			
Date Sampled:		GWQC	Screening	02/23/2018				05/22/2018				03/12/2020				05/27/2016			
Depth(ft):	CAS	(ug/L)	Levels (ug/L)																
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.490	ND		1.00	0.617
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.317	ND		1.00	0.487
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.149	ND		1.00	0.522
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.356	ND		1.00	0.506
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.390	ND		1.00	0.781
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.433	ND		0.500	0.433	ND		0.500	0.445	ND		1.00	0.643
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.409	ND		1.00	0.612
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.95	ND		5.00	0.820
Carbon disulfide	75-15-0	**700**	**1500**	ND		0.500	0.464	ND		0.500	0.464	ND		1.00	0.220	ND		1.00	0.543
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		2.00	1.99
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.281	ND		1.00	0.615
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.265	ND		1.00	0.580
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.193	ND		1.00	0.664
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.156	ND		1.00	0.526
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	0.701	ND		2.00	0.836
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.174	ND		1.00	0.724
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.163	ND		1.00	0.608
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.105	ND		1.00	0.501
Carbon tetrachloride	56-23-5	**1**	**1**	ND		1.00	0.449	ND		0.500	0.449	ND		0.500	0.119	ND		1.00	0.499
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.271	ND		1.00	0.628
Benzene	71-43-2	**1**	**20**	**5.69**		0.500	0.464	**6.96**		0.500	0.464	0.596		0.500	0.144	0.753	J	1.00	0.391
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.205	ND		1.00	0.639
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.110	ND		1.00	0.578
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**36.7**	ND		**500**	**56.3**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.286	ND		1.00	0.688
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.222	ND		1.00	0.377
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		2.00	0.699	ND		1.00	0.699	ND		1.00	0.795	ND		2.00	0.425
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.174	ND		1.00	0.507
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.241	ND		1.00	0.409
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		0.500	0.473	ND		1.00	0.473	ND		0.500	0.232	ND		1.00	0.542
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.270	ND		1.00	0.445
2-Hexanone	591-78-6	**300**	**NS**	ND		2.00	0.761	ND		1.00	0.761	ND		1.00	0.975	ND		2.00	0.552
Dibromochloromethane	124-48-1	**1**	**6**	ND		0.500	0.442	ND		1.00	0.442	ND		0.500	0.381	ND		1.00	0.412
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.260**	ND		**1.00**	**0.499**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.278	ND		1.00	0.527
Ethylbenzene	100-41-4	**700**	**700**	2.66		0.500	0.344	0.833		0.500	0.344	0.926		0.500	0.270	ND		1.00	0.407
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.881	ND		2.00	1.29
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.290	ND		0.500	0.290	ND		0.500	0.432	ND		1.00	0.392
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.423	ND		1.00	0.514
Isopropylbenzene	98-82-8	**700**	**NS**	0.979		0.500	0.323	0.722		0.500	0.323	0.802		0.500	0.386	ND		1.00	0.369
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.458	ND		0.500	0.458	ND		1.00	0.791	ND		1.00	0.493
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.296	ND		1.00	0.595
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.392	ND		1.00	0.426
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.324	ND		1.00	0.605
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.572**	ND		**1.00**	**0.788**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.304	ND		0.500	0.304	ND		1.00	0.362	ND		1.00	0.599
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.339	ND		0.500	0.339	ND		1.00	0.513	ND		1.00	0.673
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.347	ND		1.00	0.765
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.487	ND		1.00	0.462
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.411	ND		1.00	0.411	ND		1.00	0.548	ND		5.00	0.482
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		0.500	0.411	ND		0.500	0.411	ND		1.00	0.500	ND		1.00	0.744
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.241	ND		1.00	0.409
TOTAL VO's:		**NS**	**NS**	9.33			NA	8.52			NA	2.32			NA	0.753	J		NA
TOTAL TIC's:		**NS**	**NS**	41.5	JN		NA	82.2	JN		NA	16.7	JN		NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	50.8	JN		NA	90.7	JN		NA	19.0	JN		NA	0.753	J		NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-26R 01349-005 02/23/2018				MW-26R 04010-006 05/22/2018				MW-26R 01900-003 03/12/2020				MW-27 04839-001 05/27/2016			
Semivolatiles - PAH (ug/L)				**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.275	ND		1.00	0.216
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.150	ND		1.00	0.271
Acenaphthylene	208-96-8	**100**	**NS**	0.210	J	1.00	0.141	ND		1.00	0.141	ND		1.00	0.160	ND		1.00	0.199
Acenaphthene	83-32-9	**400**	**NS**	10.6		1.00	0.129	20.7		1.00	0.129	ND		1.00	0.326	0.592	J	1.00	0.213
Fluorene	86-73-7	**300**	**NS**	0.249	J	1.00	0.182	2.27		1.00	0.182	ND		1.00	0.282	ND		1.00	0.263
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	0.287	J	1.00	0.175	ND		1.00	0.289	ND		1.00	0.222
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.245	ND		1.00	0.192
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	0.498	J	1.00	0.204	ND		1.00	0.235	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	0.406	J	1.00	0.339	ND		1.00	0.366	0.354	J	1.00	0.226
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	**0.153**		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.462	ND		1.00	0.277
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	0.128		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	0.116		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	**0.156**		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	0.146		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	0.123		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.367	ND		1.00	0.431

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
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Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.516	ND		1.00	0.516	ND		1.00	0.662	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.443	ND		0.500	0.443	ND		0.500	0.463	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.655	ND		1.00	0.655	ND		1.00	0.591	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.516	ND		1.00	0.516	ND		1.00	0.544	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.454	ND		0.500	0.454	ND		1.00	0.495	ND		1.00	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.396	ND		0.500	0.396	ND		1.00	0.433	ND		1.00	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.329	ND		0.500	0.329	ND		0.500	0.493	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		1.00	0.760	ND		2.00	0.760	ND		2.00	1.33	ND		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		0.500	0.299	ND		0.500	0.299	ND		1.00	0.464	ND		1.00	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.378	ND		0.500	0.378	ND		0.500	0.454	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.406	ND		0.500	0.406	ND		0.500	0.479	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.366	ND		0.500	0.366	ND		0.500	0.493	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.401	ND		0.500	0.401	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		1.00	0.623	ND		2.00	0.623	ND		2.00	1.66	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.434	ND		0.500	0.434	ND		0.500	0.469	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.405	ND		0.500	0.405	ND		0.500	0.462	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.315	ND		0.500	0.315	ND		0.500	0.449	ND		0.500	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.427	ND		0.500	0.427	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	**3.50**		0.500	0.464	**1.24**		0.500	0.464	0.675		0.500	0.464	**1.70**		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.316	ND		0.500	0.316	ND		0.500	0.493	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.345	ND		0.500	0.345	ND		0.500	0.447	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**69.6**	ND		**100**	**69.6**	ND		**100**	**98.4**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.349	ND		0.500	0.349	ND		0.500	0.353	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.331	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		0.500	0.365	ND		1.00	0.365	ND		1.00	0.699	ND		1.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.293	ND		0.500	0.293	ND		0.500	0.379	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.327	ND		0.500	0.327	ND		0.500	0.321	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.575	ND		1.00	0.575	ND		1.00	0.473	ND		1.00	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.381	ND		0.500	0.381	ND		0.500	0.451	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		0.500	0.352	ND		1.00	0.352	ND		1.00	0.761	ND		1.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.575	ND		1.00	0.575	ND		1.00	0.442	ND		1.00	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.356**	ND		**0.500**	**0.356**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.287	ND		0.500	0.287	ND		0.500	0.376	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.294	ND		0.500	0.294	ND		0.500	0.344	ND		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.944	ND		1.00	0.944	ND		1.00	0.923	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		1.00	0.254	ND		0.500	0.254	ND		1.00	0.290	ND		1.00	0.290
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.307	ND		0.500	0.307	ND		0.500	0.323	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.495	ND		0.500	0.495	ND		1.00	0.458	ND		1.00	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.286	ND		0.500	0.286	ND		1.00	0.351	ND		1.00	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		0.500	0.341	ND		1.00	0.341	ND		1.00	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.275	ND		0.500	0.275	ND		1.00	0.364	ND		1.00	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.534**	ND		**1.00**	**0.534**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		0.500	0.243	ND		0.500	0.243	ND		1.00	0.304	ND		1.00	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		0.500	0.253	ND		0.500	0.253	ND		1.00	0.339	ND		1.00	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.656	ND		1.00	0.656	ND		1.00	0.563	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.485	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		0.500	0.430	ND		1.00	0.430	ND		0.500	0.411	ND		0.500	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		0.500	0.358	ND		0.500	0.358	ND		1.00	0.411	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.348	ND		0.500	0.348	ND		0.500	0.331	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	3.50			NA	1.24			NA	0.675			NA	1.70			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	33.0	J		NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	3.50			NA	1.24			NA	33.7	J		NA	1.70			NA

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Semivolatiles - PAH (ug/L)				**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.216	ND		1.00	0.216	ND		1.00	0.139	ND		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.271	ND		1.00	0.271	ND		1.00	0.128	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.141	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	2.30		1.00	0.213	ND		1.00	0.213	1.79		1.00	0.129	ND		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.263	ND		1.00	0.263	0.246	J	1.00	0.182	ND		1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.222	ND		1.00	0.222	ND		1.00	0.175	ND		1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.192	ND		1.00	0.192	ND		1.00	0.211	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.226	ND		1.00	0.226	ND		1.00	0.339	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.277	ND		1.00	0.277	ND		1.00	0.245	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.431	ND		1.00	0.431	ND		1.00	0.672	ND		1.00	0.672

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1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-27 06953-011 08/15/2017				MW-27 10016-007 11/16/2017				MW-27 01349-006 02/23/2018				MW-27 04010-004 05/22/2018			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.433	ND		0.500	0.433	ND		0.500	0.433	ND		0.500	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		0.500	0.464	ND		1.00	0.464	ND		0.500	0.464	ND		0.500	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.449	ND		0.500	0.449	ND		1.00	0.449	ND		0.500	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.699	ND		1.00	0.699	ND		2.00	0.699	ND		1.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.473	ND		0.500	0.473	ND		0.500	0.473	ND		1.00	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.761	ND		1.00	0.761	ND		2.00	0.761	ND		1.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.442	ND		0.500	0.442	ND		0.500	0.442	ND		1.00	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.290	ND		0.500	0.290	ND		0.500	0.290	ND		0.500	0.290
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		0.500	0.304	ND		1.00	0.304	ND		1.00	0.304	ND		0.500	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		0.500	0.339	ND		1.00	0.339	ND		1.00	0.339	ND		0.500	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.411	ND		0.500	0.411	ND		1.00	0.411	ND		1.00	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		0.500	0.411	ND		1.00	0.411	ND		0.500	0.411	ND		0.500	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	18.6	J		NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	18.6	J		NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-27 06953-011 08/15/2017				MW-27 10016-007 11/16/2017				MW-27 01349-006 02/23/2018				MW-27 04010-004 05/22/2018			
Semivolatiles - PAH (ug/L)				**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	7.58		1.00	0.129	3.57		1.00	0.129	2.71		1.00	0.129	2.16		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.182	ND		1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-27 01900-002 03/12/2020				MW-28 04839-002 05/27/2016				MW-28 08057-005 08/30/2016				MW-28 10976-008 11/29/2016			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.490	ND		1.00	0.617	ND		1.00	0.516	ND		1.00	0.516
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.317	ND		1.00	0.487	ND		0.500	0.443	ND		0.500	0.443
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.149	ND		1.00	0.522	ND		1.00	0.655	ND		1.00	0.655
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.356	ND		1.00	0.506	ND		1.00	0.516	ND		1.00	0.516
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.390	ND		1.00	0.781	ND		0.500	0.454	ND		1.00	0.454
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.445	ND		1.00	0.643	ND		0.500	0.396	ND		1.00	0.396
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.409	ND		1.00	0.612	ND		0.500	0.329	ND		0.500	0.329
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.95	9.38		5.00	0.820	ND		1.00	0.760	ND		1.00	0.760
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.220	1.25		1.00	0.543	ND		0.500	0.299	ND		0.500	0.299
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		2.00	1.99	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.281	ND		1.00	0.615	ND		0.500	0.378	ND		0.500	0.378
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.265	7.77		1.00	0.580	ND		0.500	0.406	0.584		0.500	0.406
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.193	ND		1.00	0.664	ND		0.500	0.366	ND		0.500	0.366
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.156	ND		1.00	0.526	ND		0.500	0.401	ND		0.500	0.401
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	0.701	ND		2.00	0.836	ND		1.00	0.623	ND		1.00	0.623
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.174	ND		1.00	0.724	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.163	ND		1.00	0.608	ND		0.500	0.434	ND		0.500	0.434
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.105	ND		1.00	0.501	ND		0.500	0.405	ND		0.500	0.405
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.119	ND		1.00	0.499	ND		0.500	0.315	ND		0.500	0.315
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.271	ND		1.00	0.628	ND		0.500	0.427	ND		1.00	0.427
Benzene	71-43-2	**1**	**20**	ND		0.500	0.144	ND		1.00	0.391	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.205	ND		1.00	0.639	ND		0.500	0.316	ND		0.500	0.316
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.110	ND		1.00	0.578	ND		0.500	0.345	ND		0.500	0.345
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**36.7**	ND		**500**	**56.3**	ND		**100**	**69.6**	ND		**100**	**69.6**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.286	ND		1.00	0.688	ND		0.500	0.349	ND		0.500	0.349
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.222	ND		1.00	0.377	ND		0.500	0.348	ND		0.500	0.348
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.795	ND		2.00	0.425	ND		0.500	0.365	ND		1.00	0.365
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.174	ND		1.00	0.507	ND		0.500	0.293	ND		0.500	0.293
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.241	ND		1.00	0.409	ND		0.500	0.327	ND		1.00	0.327
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		0.500	0.232	ND		1.00	0.542	ND		1.00	0.575	ND		1.00	0.575
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.270	ND		1.00	0.445	ND		0.500	0.381	ND		0.500	0.381
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.975	ND		2.00	0.552	ND		0.500	0.352	ND		1.00	0.352
Dibromochloromethane	124-48-1	**1**	**6**	ND		0.500	0.381	ND		1.00	0.412	ND		1.00	0.575	ND		1.00	0.575
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.260**	ND		**1.00**	**0.499**	ND		**0.500**	**0.356**	ND		**0.500**	**0.356**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.278	ND		1.00	0.527	ND		0.500	0.287	ND		0.500	0.287
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.270	ND		1.00	0.407	ND		0.500	0.294	ND		0.500	0.294
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.881	ND		2.00	1.29	ND		1.00	0.944	ND		1.00	0.944
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.432	ND		1.00	0.392	ND		0.500	0.254	ND		0.500	0.254
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.423	ND		1.00	0.514	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.386	ND		1.00	0.369	0.579		0.500	0.307	ND		0.500	0.307
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		1.00	0.791	ND		1.00	0.493	ND		0.500	0.495	ND		0.500	0.495
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.296	ND		1.00	0.595	ND		0.500	0.286	ND		0.500	0.286
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.392	ND		1.00	0.426	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.324	ND		1.00	0.605	ND		0.500	0.275	ND		0.500	0.275
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.572**	ND		**1.00**	**0.788**	ND		**1.00**	**0.534**	ND		**1.00**	**0.534**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.362	ND		1.00	0.599	ND		0.500	0.243	ND		1.00	0.243
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.513	ND		1.00	0.673	ND		0.500	0.253	ND		1.00	0.253
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.347	ND		1.00	0.765	ND		1.00	0.656	ND		1.00	0.656
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.487	ND		1.00	0.462	ND		0.500	0.348	ND		0.500	0.348
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.548	ND		5.00	0.482	ND		1.00	0.430	ND		1.00	0.430
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.500	ND		1.00	0.744	ND		0.500	0.358	ND		1.00	0.358
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.241	ND		1.00	0.409	ND		0.500	0.348	ND		1.00	0.348
TOTAL VO's:		**NS**	**NS**	ND			NA	18.4			NA	0.579			NA	0.584			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	9.20	JN		NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	18.4			NA	9.78	JN		NA	0.584			NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-27 01900-002 03/12/2020				MW-28 04839-002 05/27/2016				MW-28 08057-005 08/30/2016				MW-28 10976-008 11/29/2016			
Semivolatiles - PAH (ug/L)				**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.275	0.439	J	1.00	0.216	ND		1.00	0.216	ND		1.00	0.216
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.150	0.444	J	1.00	0.271	ND		1.00	0.271	ND		1.00	0.271
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.160	ND		1.00	0.199	ND		1.00	0.199	ND		1.00	0.199
Acenaphthene	83-32-9	**400**	**NS**	2.09		1.00	0.326	3.57		1.00	0.213	6.22		1.00	0.213	ND		1.00	0.213
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.282	1.27		1.00	0.263	ND		1.00	0.263	ND		1.00	0.263
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.289	2.53		1.00	0.222	0.880	J	1.00	0.222	ND		1.00	0.222
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.245	0.645	J	1.00	0.192	0.223	J	1.00	0.192	ND		1.00	0.192
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.235	0.869	J	1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.366	1.16		1.00	0.226	0.277	J	1.00	0.226	ND		1.00	0.226
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	**0.430**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.462	0.464	J	1.00	0.277	ND		1.00	0.277	ND		1.00	0.277
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	**0.237**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	0.252		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	**0.403**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	**0.266**		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	0.165		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.367	0.484	J	1.00	0.431	ND		1.00	0.431	ND		1.00	0.431

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc Indicates a concentration that exceeds the applicable criteria.
BOLD RL Indicates RL that exceeds applicable criteria.
BOLD MDL Indicates MDL that exceeds applicable criteria.
NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-28 01710-009 02/28/2017				MW-28 04303-013 05/24/2017				MW-28 07106-003 08/16/2017				MW-28 09902-006 11/14/2017			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.662
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.463
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.591
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.544
Chloroethane	75-00-3	**5**	**26000**	ND		1.00	0.495	ND		1.00	0.495	ND		0.500	0.495	ND		0.500	0.495
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		1.00	0.433	ND		1.00	0.433	ND		0.500	0.433	ND		0.500	0.433
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.33
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.464	ND		1.00	0.464	ND		0.500	0.464	ND		1.00	0.464
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.454
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.479	4.33		0.500	0.479	ND		0.500	0.479
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	1.66
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.596
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.469
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.462
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.449
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.458
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.464
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.493
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.447
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**98.4**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.353
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.699
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.379
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.321
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		1.00	0.473	ND		1.00	0.473	ND		1.00	0.473	ND		0.500	0.473
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.451
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.761
Dibromochloromethane	124-48-1	**1**	**6**	ND		1.00	0.442	ND		1.00	0.442	ND		1.00	0.442	ND		0.500	0.442
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.376
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.344
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.923
Styrene	100-42-5	**100**	**180000**	ND		1.00	0.290	ND		1.00	0.290	ND		0.500	0.290	ND		0.500	0.290
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
Isopropylbenzene	98-82-8	**700**	**NS**	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323	ND		0.500	0.323
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		1.00	0.458	ND		1.00	0.458	ND		0.500	0.458	ND		0.500	0.458
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		1.00	0.351	ND		1.00	0.351	ND		0.500	0.351	ND		0.500	0.351
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		1.00	0.341	ND		1.00	0.341	ND		0.500	0.341	ND		0.500	0.341
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		1.00	0.364	ND		1.00	0.364	ND		0.500	0.364	ND		0.500	0.364
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.304	ND		1.00	0.304	ND		0.500	0.304	ND		1.00	0.304
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		0.500	0.339	ND		1.00	0.339
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.563
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.485
Cyclohexane	110-82-7	**NS**	**16000**	ND		0.500	0.411	ND		0.500	0.411	ND		1.00	0.411	ND		0.500	0.411
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.411	ND		1.00	0.411	ND		0.500	0.411	ND		1.00	0.411
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.331
TOTAL VO's:		**NS**	**NS**	ND			NA	ND			NA	4.33			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	ND			NA	4.33			NA	ND			NA

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Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-28 01710-009 02/28/2017				MW-28 04303-013 05/24/2017				MW-28 07106-003 08/16/2017				MW-28 09902-006 11/14/2017			
Semivolatiles - PAH (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.139
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.128
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.141
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.129	ND		1.00	0.129	2.40		1.00	0.129	3.38		1.00	0.129
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.182	ND		1.00	0.182	0.757	J	1.00	0.182	0.935	J	1.00	0.182
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.175
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.211
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.204
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.339
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.245
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.672

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-28 01326-006 02/21/2018				MW-28 04010-002 05/21/2018				MW-28 06628-003 09/04/2019				MW-28 09097-002 12/10/2019			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.662	ND		1.00	0.662	ND		1.00	0.490	ND		1.00	0.490
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.463	ND		0.500	0.463	ND		0.500	0.317	ND		0.500	0.317
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.591	ND		1.00	0.591	ND		1.00	0.149	ND		1.00	0.149
Bromomethane	74-83-9	**10**	**20**	ND		1.00	0.544	ND		1.00	0.544	ND		1.00	0.356	ND		0.500	0.356
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.495	ND		0.500	0.495	ND		0.500	0.390	ND		0.500	0.390
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.433	ND		0.500	0.433	ND		0.500	0.445	ND		0.500	0.445
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.409	ND		0.500	0.409
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.33	ND		2.00	1.33	ND		2.00	1.95	ND		2.00	1.95
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.464	ND		0.500	0.464	ND		1.00	0.220	ND		1.00	0.220
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.454	ND		0.500	0.454	ND		0.500	0.281	ND		0.500	0.281
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.479	ND		0.500	0.479	12.0		0.500	0.265	ND		0.500	0.265
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.193	ND		0.500	0.193
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.156	ND		0.500	0.156
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	1.66	ND		2.00	1.66	ND		2.00	0.701	ND		2.00	0.701
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.596	ND		1.00	0.596	ND		1.00	0.174	ND		1.00	0.174
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.469	ND		0.500	0.469	ND		0.500	0.163	ND		0.500	0.163
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.462	ND		0.500	0.462	ND		0.500	0.105	ND		0.500	0.105
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.449	ND		0.500	0.449	ND		0.500	0.119	ND		0.500	0.119
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.458	ND		0.500	0.458	ND		0.500	0.271	ND		0.500	0.271
Benzene	71-43-2	**1**	**20**	ND		0.500	0.464	ND		0.500	0.464	ND		0.500	0.144	ND		0.500	0.144
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.493	ND		0.500	0.493	ND		0.500	0.205	ND		0.500	0.205
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.447	ND		0.500	0.447	ND		0.500	0.110	ND		0.500	0.110
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**98.4**	ND		**100**	**98.4**	ND		**100**	**36.7**	ND		**100**	**36.7**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.353	ND		0.500	0.353	ND		0.500	0.286	ND		0.500	0.286
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.222	ND		0.500	0.222
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.699	ND		1.00	0.699	ND		1.00	0.795	ND		1.00	0.795
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.379	ND		0.500	0.379	ND		0.500	0.174	ND		0.500	0.174
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.321	ND		0.500	0.321	ND		0.500	0.241	ND		0.500	0.241
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		0.500	0.473	ND		1.00	0.473	ND		0.500	0.232	ND		0.500	0.232
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.451	ND		0.500	0.451	ND		0.500	0.270	ND		0.500	0.270
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.761	ND		1.00	0.761	ND		1.00	0.975	ND		1.00	0.975
Dibromochloromethane	124-48-1	**1**	**6**	ND		0.500	0.442	ND		1.00	0.442	ND		0.500	0.381	ND		0.500	0.381
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.402**	ND		**0.500**	**0.402**	ND		**0.500**	**0.260**	ND		**0.500**	**0.260**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.376	ND		0.500	0.376	ND		0.500	0.278	ND		0.500	0.278
Ethylbenzene	100-41-4	**700**	**700**	ND		0.500	0.344	ND		0.500	0.344	ND		0.500	0.270	ND		1.00	0.270
Total Xylenes	1330-20-7	**1000**	**8600**	ND		1.00	0.923	ND		1.00	0.923	ND		1.00	0.881	ND		2.00	0.881
Styrene	100-42-5	**100**	**180000**	ND		0.500	0.290	ND		0.500	0.290	ND		0.500	0.432	ND		1.00	0.432
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.423	ND		0.500	0.423
Isopropylbenzene	98-82-8	**700**	**NS**	0.493	J	0.500	0.323	ND		0.500	0.323	ND		0.500	0.386	ND		1.00	0.386
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		0.500	0.458	ND		0.500	0.458	ND		1.00	0.791	ND		1.00	0.791
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		0.500	0.351	ND		0.500	0.351	ND		0.500	0.296	ND		1.00	0.296
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		0.500	0.341	ND		0.500	0.341	ND		0.500	0.392	ND		1.00	0.392
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		0.500	0.364	ND		0.500	0.364	ND		0.500	0.324	ND		1.00	0.324
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.533**	ND		**1.00**	**0.533**	ND		**1.00**	**0.572**	ND		**1.00**	**0.572**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.304	ND		0.500	0.304	ND		1.00	0.362	ND		1.00	0.362
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.339	ND		0.500	0.339	ND		1.00	0.513	ND		1.00	0.513
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.563	ND		1.00	0.563	ND		1.00	0.347	ND		1.00	0.347
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.485	ND		0.500	0.485	ND		0.500	0.487	ND		0.500	0.487
Cyclohexane	110-82-7	**NS**	**16000**	ND		0.500	0.411	ND		1.00	0.411	ND		1.00	0.548	ND		1.00	0.548
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.411	ND		0.500	0.411	ND		1.00	0.500	ND		1.00	0.500
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.331	ND		0.500	0.331	ND		0.500	0.241	ND		0.500	0.241
TOTAL VO's:		**NS**	**NS**	0.493	J		NA	ND			NA	12.0			NA	ND			NA
TOTAL TIC's:		**NS**	**NS**	19.8	JN		NA	ND			NA	ND			NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	20.3	JN		NA	ND			NA	12.0			NA	ND			NA

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Semivolatiles - PAH (ug/L)				**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.139	ND		1.00	0.139	ND		1.00	0.275	ND		1.00	0.275
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.128	ND		1.00	0.128	ND		1.00	0.150	ND		1.00	0.150
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.141	ND		1.00	0.141	ND		1.00	0.160	ND		1.00	0.160
Acenaphthene	83-32-9	**400**	**NS**	3.71		1.00	0.129	2.35		1.00	0.129	2.12		1.00	0.326	4.04		1.00	0.326
Fluorene	86-73-7	**300**	**NS**	0.452	J	1.00	0.182	ND		1.00	0.182	0.746	J	1.00	0.282	0.983	J	1.00	0.282
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.175	ND		1.00	0.175	ND		1.00	0.289	ND		1.00	0.289
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.211	ND		1.00	0.211	ND		1.00	0.245	ND		1.00	0.245
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.204	ND		1.00	0.204	ND		1.00	0.235	ND		1.00	0.235
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.339	ND		1.00	0.339	ND		1.00	0.366	ND		1.00	0.366
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.245	ND		1.00	0.245	ND		1.00	0.462	ND		1.00	0.462
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.672	ND		1.00	0.672	ND		1.00	0.367	ND		1.00	0.367

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BOLD RL Indicates RL that exceeds applicable criteria.
BOLD MDL Indicates MDL that exceeds applicable criteria.
NS = No Standard Available
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ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

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Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-28 01830-008 03/11/2020				MW-29 02256-002 03/29/2019				MW-29 06628-008 09/05/2019				MW-29 09097-007 12/11/2019			
Volatiles (ug/L)				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.490	ND		1.00	0.490	ND		1.00	0.490	ND		1.00	0.490
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.317	ND		0.500	0.317	ND		0.500	0.317	ND		0.500	0.317
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.149	ND		1.00	0.149	ND		1.00	0.149	ND		1.00	0.149
Bromomethane	74-83-9	**10**	**20**	ND		0.500	0.356	ND		1.00	0.356	ND		1.00	0.356	ND		0.500	0.356
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.390	ND		0.500	0.390	ND		0.500	0.390	ND		0.500	0.390
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445	ND		0.500	0.445
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.409	ND		0.500	0.409	ND		0.500	0.409	ND		0.500	0.409
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.95	ND		2.00	1.95	ND		2.00	1.95	ND		2.00	1.95
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.220	ND		1.00	0.220	ND		1.00	0.220	ND		1.00	0.220
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.281	ND		0.500	0.281	ND		0.500	0.281	ND		0.500	0.281
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.265	ND		0.500	0.265	ND		0.500	0.265	ND		0.500	0.265
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.193	ND		0.500	0.193	ND		0.500	0.193	ND		0.500	0.193
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.156	ND		0.500	0.156	ND		0.500	0.156	ND		0.500	0.156
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	0.701	ND		2.00	0.701	ND		2.00	0.701	ND		2.00	0.701
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.174	ND		1.00	0.174	ND		1.00	0.174	ND		1.00	0.174
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.163	ND		0.500	0.163	ND		0.500	0.163	ND		0.500	0.163
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.105	ND		0.500	0.105	ND		0.500	0.105	ND		0.500	0.105
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.119	ND		0.500	0.119	ND		0.500	0.119	ND		0.500	0.119
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.271	ND		0.500	0.271	ND		0.500	0.271	ND		0.500	0.271
Benzene	71-43-2	**1**	**20**	ND		0.500	0.144	**39.4**		0.500	0.144	**11.5**		0.500	0.144	**1.04**		0.500	0.144
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.205	ND		0.500	0.205	ND		0.500	0.205	ND		0.500	0.205
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.110	ND		0.500	0.110	ND		0.500	0.110	ND		0.500	0.110
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**36.7**	ND		**100**	**36.7**	ND		**100**	**36.7**	ND		**100**	**36.7**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.286	ND		0.500	0.286	ND		0.500	0.286	ND		0.500	0.286
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.222	ND		0.500	0.222	ND		0.500	0.222	ND		0.500	0.222
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.795	ND		1.00	0.795	ND		1.00	0.795	ND		1.00	0.795
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.174	18.8		0.500	0.174	1.02		0.500	0.174	ND		0.500	0.174
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.241	ND		0.500	0.241	ND		0.500	0.241	ND		0.500	0.241
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		0.500	0.232	ND		0.500	0.232	ND		0.500	0.232	ND		0.500	0.232
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.270	ND		0.500	0.270	ND		0.500	0.270	ND		0.500	0.270
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.975	ND		1.00	0.975	ND		1.00	0.975	ND		1.00	0.975
Dibromochloromethane	124-48-1	**1**	**6**	ND		0.500	0.381	ND		0.500	0.381	ND		0.500	0.381	ND		0.500	0.381
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.260**	ND		**0.500**	**0.260**	ND		**0.500**	**0.260**	ND		**0.500**	**0.260**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.278	ND		0.500	0.278	ND		0.500	0.278	ND		0.500	0.278
Ethylbenzene	100-41-4	**700**	**700**	ND		1.00	0.270	34.6		1.00	0.270	6.81		0.500	0.270	1.28		1.00	0.270
Total Xylenes	1330-20-7	**1000**	**8600**	ND		2.00	0.881	75.0		2.00	0.881	6.82		1.00	0.881	ND		2.00	0.881
Styrene	100-42-5	**100**	**180000**	ND		1.00	0.432	ND		1.00	0.432	ND		0.500	0.432	ND		1.00	0.432
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.423	ND		0.500	0.423	ND		0.500	0.423	ND		0.500	0.423
Isopropylbenzene	98-82-8	**700**	**NS**	ND		1.00	0.386	3.56		1.00	0.386	1.91		0.500	0.386	ND		1.00	0.386
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		1.00	0.791	ND		1.00	0.791	ND		1.00	0.791	ND		1.00	0.791
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		1.00	0.296	ND		1.00	0.296	ND		0.500	0.296	ND		1.00	0.296
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		1.00	0.392	ND		1.00	0.392	ND		0.500	0.392	ND		1.00	0.392
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		1.00	0.324	ND		1.00	0.324	ND		0.500	0.324	ND		1.00	0.324
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.572**	ND		**1.00**	**0.572**	ND		**1.00**	**0.572**	ND		**1.00**	**0.572**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.362	ND		1.00	0.362	ND		1.00	0.362	ND		1.00	0.362
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.513	ND		1.00	0.513	ND		1.00	0.513	ND		1.00	0.513
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.347	ND		1.00	0.347	ND		1.00	0.347	ND		1.00	0.347
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.487	ND		0.500	0.487	ND		0.500	0.487	ND		0.500	0.487
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.548	ND		1.00	0.548	ND		1.00	0.548	ND		1.00	0.548
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.500	ND		1.00	0.500	ND		1.00	0.500	ND		1.00	0.500
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.241	ND		0.500	0.241	ND		0.500	0.241	ND		0.500	0.241
TOTAL VO's:		**NS**	**NS**	ND			NA	171			NA	28.1			NA	2.32			NA
TOTAL TIC's:		**NS**	**NS**	ND			NA	1640	JN		NA	79.6	JN		NA	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	ND			NA	1810	JN		NA	108	JN		NA	2.32			NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-28 01830-008 03/11/2020				MW-29 02256-002 03/29/2019				MW-29 06628-008 09/05/2019				MW-29 09097-007 12/11/2019			
Semivolatiles - PAH (ug/L)				**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.275	93.7		1.00	0.275	0.727	J	1.00	0.275	ND		1.00	0.275
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.150	**31.8**		1.00	0.150	ND		1.00	0.150	ND		1.00	0.150
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.160	31.0		1.00	0.160	7.23		1.00	0.160	ND		1.00	0.160
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.326	21.6		1.00	0.326	12.8		1.00	0.326	0.499	J	1.00	0.326
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.282	17.4		1.00	0.282	5.12		1.00	0.282	ND		1.00	0.282
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.289	15.4		1.00	0.289	1.59		1.00	0.289	ND		1.00	0.289
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.245	4.36		1.00	0.245	1.45		1.00	0.245	ND		1.00	0.245
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.235	2.73		1.00	0.235	1.67		1.00	0.235	ND		1.00	0.235
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.366	2.73		1.00	0.366	2.28		1.00	0.366	ND		1.00	0.366
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100	**0.291**	J	**1.00**	**0.181**	**0.286**		0.100	0.100	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.462	ND		1.00	0.462	ND		1.00	0.462	ND		1.00	0.462
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100	ND		**1.00**	**0.224**	ND		0.100	0.100	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100	ND		**1.00**	0.326	ND		0.100	0.100	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100	ND		**1.00**	**0.138**	ND		0.100	0.100	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100	ND		**1.00**	0.111	ND		0.100	0.100	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100	ND		**1.00**	0.146	ND		0.100	0.100	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.367	ND		1.00	0.367	ND		1.00	0.367	ND		1.00	0.367

NJDEP Class II-A Specific Ground Water Quality Criteria : Ground Water Quality Standards
N.J.A.C. 7:9C, Nov 2005

BOLD Conc	Indicates a concentration that exceeds the applicable criteria.
BOLD RL	Indicates RL that exceeds applicable criteria.
BOLD MDL	Indicates MDL that exceeds applicable criteria.

NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds.
For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-29 01830-002 03/10/2020			
Volatiles (ug/L)				**Conc**	**Q**	**RL**	**MDL**
Dichlorodifluoromethane	75-71-8	**1000**	**1000**	ND		1.00	0.490
Chloromethane	74-87-3	**NS**	**240**	ND		0.500	0.317
Vinyl chloride	75-01-4	**1**	**1**	ND		1.00	0.149
Bromomethane	74-83-9	**10**	**20**	ND		0.500	0.356
Chloroethane	75-00-3	**5**	**26000**	ND		0.500	0.390
Trichlorofluoromethane	75-69-4	**2000**	**2000**	ND		0.500	0.445
1,1-Dichloroethene	75-35-4	**1**	**260**	ND		0.500	0.409
Acetone	67-64-1	**6000**	**21000000**	ND		2.00	1.95
Carbon disulfide	75-15-0	**700**	**1500**	ND		1.00	0.220
Methylene chloride	75-09-2	**3**	**920**	ND		1.00	0.990
trans-1,2-Dichloroethene	156-60-5	**100**	**520**	ND		0.500	0.281
Methyl tert-butyl ether (MTBE)	1634-04-4	**70**	**580**	ND		0.500	0.265
1,1-Dichloroethane	75-34-3	**50**	**50**	ND		0.500	0.193
cis-1,2-Dichloroethene	156-59-2	**70**	**NS**	ND		0.500	0.156
2-Butanone (MEK)	78-93-3	**300**	**2500000**	ND		2.00	0.701
Bromochloromethane	74-97-5	**NS**	**NS**	ND		1.00	0.174
Chloroform	67-66-3	**70**	**70**	ND		0.500	0.163
1,1,1-Trichloroethane	71-55-6	**30**	**13000**	ND		0.500	0.105
Carbon tetrachloride	56-23-5	**1**	**1**	ND		0.500	0.119
1,2-Dichloroethane (EDC)	107-06-2	**2**	**3**	ND		0.500	0.271
Benzene	71-43-2	**1**	**20**	**2.03**		0.500	0.144
Trichloroethene	79-01-6	**1**	**2**	ND		0.500	0.205
1,2-Dichloropropane	78-87-5	**1**	**4**	ND		0.500	0.110
1,4-Dioxane	123-91-1	**10**	**NS**	ND		**100**	**36.7**
Bromodichloromethane	75-27-4	**1**	**2**	ND		0.500	0.286
cis-1,3-Dichloropropene	10061-01-5	**NS**	**7**	ND		0.500	0.222
4-Methyl-2-pentanone (MIBK)	108-10-1	**NS**	**900000**	ND		1.00	0.795
Toluene	108-88-3	**600**	**330000**	ND		0.500	0.174
trans-1,3-Dichloropropene	10061-02-6	**NS**	**7**	ND		0.500	0.241
1,1,2-Trichloroethane	79-00-5	**3**	**8**	ND		0.500	0.232
Tetrachloroethene	127-18-4	**1**	**31**	ND		0.500	0.270
2-Hexanone	591-78-6	**300**	**NS**	ND		1.00	0.975
Dibromochloromethane	124-48-1	**1**	**6**	ND		0.500	0.381
1,2-Dibromoethane (EDB)	106-93-4	**0.03**	**0.4**	ND		**0.500**	**0.260**
Chlorobenzene	108-90-7	**50**	**770**	ND		0.500	0.278
Ethylbenzene	100-41-4	**700**	**700**	1.77		1.00	0.270
Total Xylenes	1330-20-7	**1000**	**8600**	0.981	J	2.00	0.881
Styrene	100-42-5	**100**	**180000**	ND		1.00	0.432
Bromoform	75-25-2	**4**	**300**	ND		0.500	0.423
Isopropylbenzene	98-82-8	**700**	**NS**	ND		1.00	0.386
1,1,2,2-Tetrachloroethane	79-34-5	**1**	**6**	ND		1.00	0.791
1,3-Dichlorobenzene	541-73-1	**600**	**NS**	ND		1.00	0.296
1,4-Dichlorobenzene	106-46-7	**75**	**75**	ND		1.00	0.392
1,2-Dichlorobenzene	95-50-1	**600**	**6800**	ND		1.00	0.324
1,2-Dibromo-3-chloropropane	96-12-8	**0.02**	**NS**	ND		**1.00**	**0.572**
1,2,4-Trichlorobenzene	120-82-1	**9**	**130**	ND		1.00	0.362
1,2,3-Trichlorobenzene	87-61-6	**NS**	**NS**	ND		1.00	0.513
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	**NS**	**3700**	ND		1.00	0.347
Methyl acetate	79-20-9	**7000**	**NS**	ND		0.500	0.487
Cyclohexane	110-82-7	**NS**	**16000**	ND		1.00	0.548
Methylcyclohexane	108-87-2	**NS**	**NS**	ND		1.00	0.500
1,3-Dichloropropene (cis- and trans-)	542-75-6	**1**	**7**	ND		0.500	0.241
TOTAL VO's:		**NS**	**NS**	4.78	J		NA
TOTAL TIC's:		**NS**	**NS**	ND			NA
TOTAL VO's & TIC's:		**NS**	**NS**	4.78	J		NA

Table 2
Groundwater Analytical Results 2016 to 2020
Remedial Action Report
Sea Isle City Former MGP

1 Field ID: Lab ID: Date Sampled: Depth(ft):	CAS	HIGHER OF PQLs and GWQC (ug/L)	Table 1 - Mar 13 Vapor Intrusion GW Screening Levels (ug/L)	MW-29 01830-002 03/10/2020			
Semivolatiles - PAH (ug/L)				**Conc**	**Q**	**RL**	**MDL**
Naphthalene	91-20-3	**300**	**300**	ND		1.00	0.275
2-Methylnaphthalene	91-57-6	**30**	**NS**	ND		1.00	0.150
Acenaphthylene	208-96-8	**100**	**NS**	ND		1.00	0.160
Acenaphthene	83-32-9	**400**	**NS**	ND		1.00	0.326
Fluorene	86-73-7	**300**	**NS**	ND		1.00	0.282
Phenanthrene	85-01-8	**100**	**NS**	ND		1.00	0.289
Anthracene	120-12-7	**2000**	**NS**	ND		1.00	0.245
Fluoranthene	206-44-0	**300**	**NS**	ND		1.00	0.235
Pyrene	129-00-0	**200**	**NS**	ND		1.00	0.366
Benzo[a]anthracene	56-55-3	**0.1**	**NS**	ND		0.100	0.100
Chrysene	218-01-9	**5**	**NS**	ND		1.00	0.462
Benzo[b]fluoranthene	205-99-2	**0.2**	**NS**	ND		0.100	0.100
Benzo[k]fluoranthene	207-08-9	**0.5**	**NS**	ND		0.100	0.100
Benzo[a]pyrene	50-32-8	**0.1**	**NS**	ND		0.100	0.100
Indeno[1,2,3-cd]pyrene	193-39-5	**0.2**	**NS**	ND		0.100	0.100
Dibenz[a,h]anthracene	53-70-3	**0.3**	**NS**	ND		0.100	0.100
Benzo[g,h,i]perylene	191-24-2	**100**	**NS**	ND		1.00	0.367

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For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

Table 3
Groundwater Geochemical Parameters
Sea Isle City Former MGP

MW-11

Date	pH	Specific Conductivity	ORP	DO	Turbidity	Temperature
2/9/2016	6.95	13	82	5.14	6.3	11.32
5/25/2016	6.95	1.587	-76.8	0.01	80.2	15.04
8/31/2016	7.36	3.167	-252.1	0.11	197.7	26.53
11/30/2016	6.61	1.912	-252.6	18.21	33	17.61
2/28/2017	6.58	6.249	-219.8	0.02	21.5	13.62
5/24/2017	6.55	2.568	-208.8	1.19	41.8	16.92
8/16/2017	6.47	0.007	-58.7	0.17	46.6	28.27
11/13/2017	6.9	1.595	-260.8	5.19	90.4	15.86
2/20/2018	6.63	1.981	-199.6	1.16	36.2	13.48
5/21/2018	6.86	1.139	-75.6	2.23	275.8	18.54
9/4/2019	6.40	1.989	-170.3	0.40	260.5	27.6
12/11/2019	6.52	1.045	49.9	1.83	18.9	10.41
3/11/2020	6.88	2.797	-101.8	3.96	287.6	12.9

MW-13

Date	pH	Specific Conductivity	ORP	DO	Turbidity	Temperature
2/10/2016	6.53	0.671	-157	0	0	7.47
5/25/2016	6.5	1.708	-31.8	0.28	-1.3	11.32
9/1/2016	6.89	1.53	-177.1	0.02	-117	24.13
11/28/2016	6.65	1.007	-74.9	0.31	22.2	13.79
2/27/2017	7.22	0.763	-162.3	0.04	3.5	8.81
5/23/2017	6.63	1.296	-115.8	2.67	5.4	15.39
8/14/2017	6.71	1.068	-100.5	3.4	4.9	22.87
11/13/2017	6.8	0.357	-85.3	0.75	44	14.65
2/20/2018	7.03	0.352	-56.5	0.32	13.4	10.58
5/23/2018	6.53	0.312	-36.7	2.65	31.4	19.18
3/13/2020	7.08	0.242	-56.2	1.10	41.2	8.89

MW-14

Date	pH	Specific Conductivity	ORP	DO	Turbidity	Temperature
2/8/2016	6.73	1.43	-109	0	26.8	7.71
5/24/2016	6.98	1.403	-201.5	0.18	1.1	10.79
8/29/2016	7.1	2.553	-217.3	7.59	8.5	24.5
11/28/2016	6.72	2.407	-150.4	1.41	8.1	13.26
2/27/2017	7.52	2.747	-188.4	0.07	0.7	9.74
5/22/2017	6.97	2.121	-231.9	0.65	-3.4	16.73
8/14/2017	6.7	2.35	-99	6.15	-2.6	24.12
11/14/2017	6.79	2.19	-128.1	1	5.8	15.4
2/21/2018	7.09	1.915	-119.8	0.97	0.6	10.59
5/23/2018	7.03	1.969	-120.1	1.69	1.8	16.6
3/12/2020	7.33	2.660	-178.5	0.12	96.7	9.21

Table 3
Groundwater Geochemical Parameters
Sea Isle City Former MGP

MW-15

Date	pH	Specific Conductivity	ORP	DO	Turbidity	Temperature
2/10/2016	6.63	4.56	-290	0	0	7.59
5/24/2016	6.54	3.11	-266.2	0.14	5.1	10.92
8/29/2016	7.2	6.992	-348.4	0.3	33.6	24.77
11/28/2016	6.41	7.023	-337	2.08	17.1	14.19
2/27/2018	6.83	8.159	-298.5	-0.4	5.9	10.52
5/22/2017	6.66	6.878	-293.6	0.38	10.7	15.71
8/14/2017	6.76	3.018	-163.7	4	3.6	23.5
11/13/2017	6.67	3.691	-340.4	-0.5	22.6	14.55
2/21/2018	6.95	1.764	-343.5	0	6.1	9.73
5/23/2018	6.68	2.164	-328.3	0.01	47.5	16.74
3/12/2020	7.04	2.453	-273.5	0.41	43.2	9.07

MW-16

Date	pH	Specific Conductivity	ORP	DO	Turbidity	Temperature
2/10/2016	6.71	1.71	-108	0.98	15.6	9.07

MW-17

Date	pH	Specific Conductivity	ORP	DO	Turbidity	Temperature
2/10/2016	7.06	7.34	-56	7.41	24.4	10.35
5/25/2016	7.66	1.821	-82.9	0.06	22.7	12.53
8/31/2016	7.33	1.963	-302.4	0.29	106.3	25.53
11/29/2016	6.55	1.991	-301.7	0.67	44	16.55
2/28/2017	6.59	4.552	-228.3	-0.17	7.2	12.23
5/23/2017	6.54	1.062	-152.4	2.11	41.9	16.61
8/17/2017	6.62	2.268	-208.7	-0.06	31.4	25.41
11/14/2017	6.66	3.34	-330.9	3.89	16.6	16.55
2/21/2018	6.68	1.506	-224.6	0.23	29.8	11.8
5/22/2018	6.78	3.284	-201.4	0.76	5.1	16.1
9/5/2019	6.38	2.977	-302.9	0.55	22.0	22.70
12/10/2019	6.48	5.296	-289.6	0.22	57.2	14.40
3/10/2020	6.54	7.405	-304.5	1.22	10.6	11.42

MW-18

Date	pH	Specific Conductivity	ORP	DO	Turbidity	Temperature
2/10/2016	6.21	3.56	-27	0	33.4	8.49

Table 3
Groundwater Geochemical Parameters
Sea Isle City Former MGP

MW-19RR

Date	pH	Specific Conductivity	ORP	DO	Turbidity	Temperature
2/11/2016	6.55	2.29	13	6.5	47.2	8.8
5/25/2016	6.63	0.55	-69.2	0	-2.6	10.52
8/31/2016	6.73	0.711	-123.8	1.83	38.1	22.7
11/30/2016	6.57	0.603	-139.9	2.94	36.6	15.02
3/1/2017	6.52	0.542	-24.7	68.36	3	10.27
5/24/2017	6.36	0.278	21.4	0.61	17.9	16.23
8/16/2017	6.55	0.232	-54.1	1.08	8	23.19
11/16/2017	6.46	0.222	-152.3	0.03	9.5	16.28
2/22/2018	6.63	0.237	36.3	1.62	0.4	8.7
5/25/2018	6.73	0.338	-132.8	7.04	5.8	16.01
3/10/2020	6.54	0.304	63.6	0.58	14.4	12.11

MW-20

Date	pH	Specific Conductivity	ORP	DO	Turbidity	Temperature
2/9/2016	6.6	6.05	3	8.3	0	8.67
5/25/2016	6.82	1.433	-93.1	0	7.2	12.16
8/31/2016	7.27	1.227	-119.9	1.15	-12.2	26.91
11/29/2016	6.65	0.883	-201.6	0.27	33.2	16.19
2/28/2017	6.76	1.481	-180.2	-0.01	13.2	12.05
5/24/2017	6.8	0.571	-80.2	2.08	3.9	18.56
8/16/2017	6.9	0.921	-12.4	2.88	30.1	25.89
11/13/2017	7.01	0.493	-167.7	1.27	7.3	16.93
2/20/2018	6.79	0.757	-102.3	0.6	18.5	13.43
5/22/2018	6.89	0.524	93.1	0.83	11.9	16.25
3/11/2020	6.69	0.483	-45.6	0.35	7.3	12.39

MW-21

Date	pH	Specific Conductivity	ORP	DO	Turbidity	Temperature
2/8/2016	6.88	1.65	-125	0	31.5	5.21

MW-22

Date	pH	Specific Conductivity	ORP	DO	Turbidity	Temperature
2/8/2016	6.95	0.974	-14	11.02	41	6.02

Table 3
Groundwater Geochemical Parameters
Sea Isle City Former MGP

MW-23

Date	pH	Specific Conductivity	ORP	DO	Turbidity	Temperature
2/10/2016	8.14	1.48	-131	0	76.5	9.36
5/26/2016	8.81	0.004	23.9	5.14	1624.5	19
8/30/2016	9.17	0.77	-290	0.35	-2.1	23.52
12/1/2016	7.83	0.672	-167.7	98.23(1)	NM	16.5
3/1/2017	7.87	1.763	-95.9	37.19	31	11.02
5/23/2017	8.4	1.709	-284.1	1.94	23.4	15.68
8/17/2017	7.87	1.626	22.3	1.65	50.1	23.41
11/14/2017	7.42	1.799	-208	0.89	37.8	16.86
2/21/2018	7.63	1.593	-133.4	0.4	51.2	12.82
5/23/2018	7.25	1.415	-120.9	3.53	9.8	17.52
9/5/2019	7.14	1.427	-120.4	5.05	23.7	23.26
12/11/2019	8.48	0.381	60.8	10.69	603.5	10.93
3/11/2020	7.24	1.008	-70.7	2.19	149.8	15.27

MW-24-1

Date	pH	Specific Conductivity	ORP	DO	Turbidity	Temperature
2/9/2016	7.91	5.44	119	7.82	42.1	8.77
5/26/2016	7.08	1.501	-73.9	15.26	32.1	12.77
9/1/2016	7.5	0.758	-121.4	2	-134	20.64
12/1/2016	7.58	0.423	-13.7	52.7(1)	NM	14.23
3/2/2017	7.26	7.26	213	9.84	42.3	9.21
5/25/2017	7.1	0.492	307.3	1.78	NM	15.34
8/15/2018	7.51	0.623	86.7	6.03	3.2	20.66
11/15/2017	7.7	0.296	60	0.49	19.9	13.27
2/22/2018	8.23	0.234	26.94	22.1	8.1	8.11
5/24/2018	7.77	0.133	93.5	5.63	5.9	15.32
3/13/2020	8.66	0.235	22.6	1.07	3.4	9.14

MW-24-2

Date	pH	Specific Conductivity	ORP	DO	Turbidity	Temperature
2/9/2016	7.18	2.12	-130	0	128	12.5
5/26/2016	8.32	0.29	55.8	9.73	156.6	12.05
9/1/2016	7.02	2.86	-157	0.01	12.3	17.65
12/1/2016	6.91	1.599	-137.5	245.16(1)	NM	15.78
3/2/2017	6.78	1.111	-0.6	2.91	8.1	11.88
5/25/2017	6.08	0.998	-67.8	0.82	NM	14.25
8/15/2017	7.17	1.242	-118.7	7.72	56.1	18.05
11/15/2017	6.92	1.192	-146	6.03	28.1	15.18
2/22/2018	7.16	1.196	-138.8	3.31	19.9	10.16
5/24/2018	6.77	0.836	-97.4	2.48	6.5	14.8
3/13/2020	7.25	1.210	-197.0	0.22	27.6	12.02

Table 3
Groundwater Geochemical Parameters
Sea Isle City Former MGP

MW-25

Date	pH	Specific Conductivity	ORP	DO	Turbidity	Temperature
2/10/2016	7.4	22.4	-99	0	95.8	10.44
5/26/2016	7.14	11.72	-95.9	9.68	3.7	11.68
8/30/2016	8.14	13.64	-100.8	3.34	35.8	22.51
12/1/2016	6.88	11.66	-162	7.56	NM	16.6
3/1/2017	6.92	21.18	-74.6	2.87	28	10.48
5/25/2017	6.89	12.51	-128.4	-0.23	NM	14.68
8/15/2017	6.87	16.28	-124.9	0.87	13.4	21.77
11/15/2017	6.84	11.33	111.3	0.13	76.9	17.27
2/22/2018	7.07	14.77	-126.3	3.14	101.1	9.01
5/24/2018	6.72	16.38	-165.9	0.71	5.7	15.51
3/13/2020	7.40	1.459	-199.3	0.08	43.8	10.34

MW-26

Date	pH	Specific Conductivity	ORP	DO	Turbidity	Temperature
2/11/2016	7.21	16.9	-202	0	474	8.67
5/25/2016	6.81	3.025	3.2	1.3	4.1	11.19
8/30/2016	7.5	6.003	-385.4	0.14	232	24.7
11/30/2016	6.61	4.551	-397.3	3.44	4.6	14.44

MW-26R

Date	pH	Specific Conductivity	ORP	DO	Turbidity	Temperature
5/23/2017	6.91	3.571	-107	2.65	22.7	17.33
8/14/2017	7.29	0.992	-137.2	4.01	32.3	25.53
11/15/2017	6.72	6.65	-294.2	0.05	18.4	15.7
2/23/2018	6.93	3.824	-126.1	7.73	2	7.24
5/22/2018	7.01	7.451	-242.1	0.87	6.2	16.9
3/12/2020	7.58	1.757	-154.2	0.47	82.9	8.82

MW-27

Date	pH	Specific Conductivity	ORP	DO	Turbidity	Temperature
5/27/2016	8.22	2.177	20.5	31.81	322.1	11.86
8/29/2016	7.77	6.667	-293.2	3.71	3.2	24.24
11/20/2016	7.02	2.119	-277.3	10.46	7.9	14.5
2/27/2017	7.51	3.04	-254.1	-0.2	1.3	10.39
5/22/2017	7.18	1.359	-263.7	0.45	3.3	18.04
8/15/2017	7.11	0.813	-121.3	1.82	7.2	24.92
11/16/2017	7.04	2.643	-276.7	0.06	4	15.67
2/23/2018	7.28	0.856	-169.7	3.74	0.1	8.81
5/22/2018	7.3	1.116	-109.6	1.17	7.9	16.31
3/12/2020	7.63	1.201	-172.3	0.28	16.2	9.81

Table 3
Groundwater Geochemical Parameters
Sea Isle City Former MGP

MW-28

Date	pH	Specific Conductivity	ORP	DO	Turbidity	Temperature
5/27/2016	8.04	2.648	-313.1	0.04	505.6	13.18
8/30/2016	7.32	1.46	-273.6	3.00	100.1	25.04
11/29/2016	6.59	1.703	-293.1	0.06	72.8	15.97
2/28/2017	6.51	2.889	-105.7	0.08	39.6	12.03
5/24/2017	6.52	0.837	-35.2	0.54	325.4	18.39
8/16/2017	6.55	3.52	-295.1	-0.61	15.9	25.72
11/14/2017	6.53	3.228	-112.6	2.24	52.3	16.69
2/21/2018	7.03	0.864	-76.1	0.84	123.8	11.56
5/21/2018	6.74	0.87	-60.8	2.18	71	18.79
9/4/2019	6.56	5.001	-330.0	0.10	13.1	28.06
12/10/2019	6.58	3.801	-42.3	3.00	45.5	12.94
3/11/2020	7.25	0.472	-96.2	0.56	229.7	11.11

MW-29

Date	pH	Specific Conductivity	ORP	DO	Turbidity	Temperature
3/29/2019	6.89	1.181	-67.4	0.20	55.1	8.58
9/5/2019	6.96	1.091	-116.6	3.31	47.6	21.84
12/11/2019	7.01	1.495	-55.4	1.23	53.5	12.26
3/10/2020	6.75	0.826	-27.0	0.87	239.7	9.31

Figures

SOURCE:
1. USGS TOPOGRAPHIC MAP ACCESSED VIA ARCGIS ONLINE SERVICES.

0 2,000 4,000
SCALE: 1" = 2000'

Groundwater Remedial Action Report Sea Isle City Former MGP Site Sea Isle City, New Jersey PI #G000006130	GEI Consultants	SITE LOCATION MAP
Jersey Central Power & Light Company Morristown, New Jersey	Project 1610583	November 2020 Figure 1

J:\Projects\JCP&L\Sea Isle City\Site Location.mxd

LEGEND

- FORMER MGP SITE
- MW-13 EXISTING MONITORING WELL LOCATION

0 50' 100'

SCALE:1" = 50'

Groundwater Remedial Action Report
Sea Isle City Former MGP Site
Sea Isle City, New Jersey
PI #G000006130

Jersey Central Power & Light Company
Morristown, New Jersey

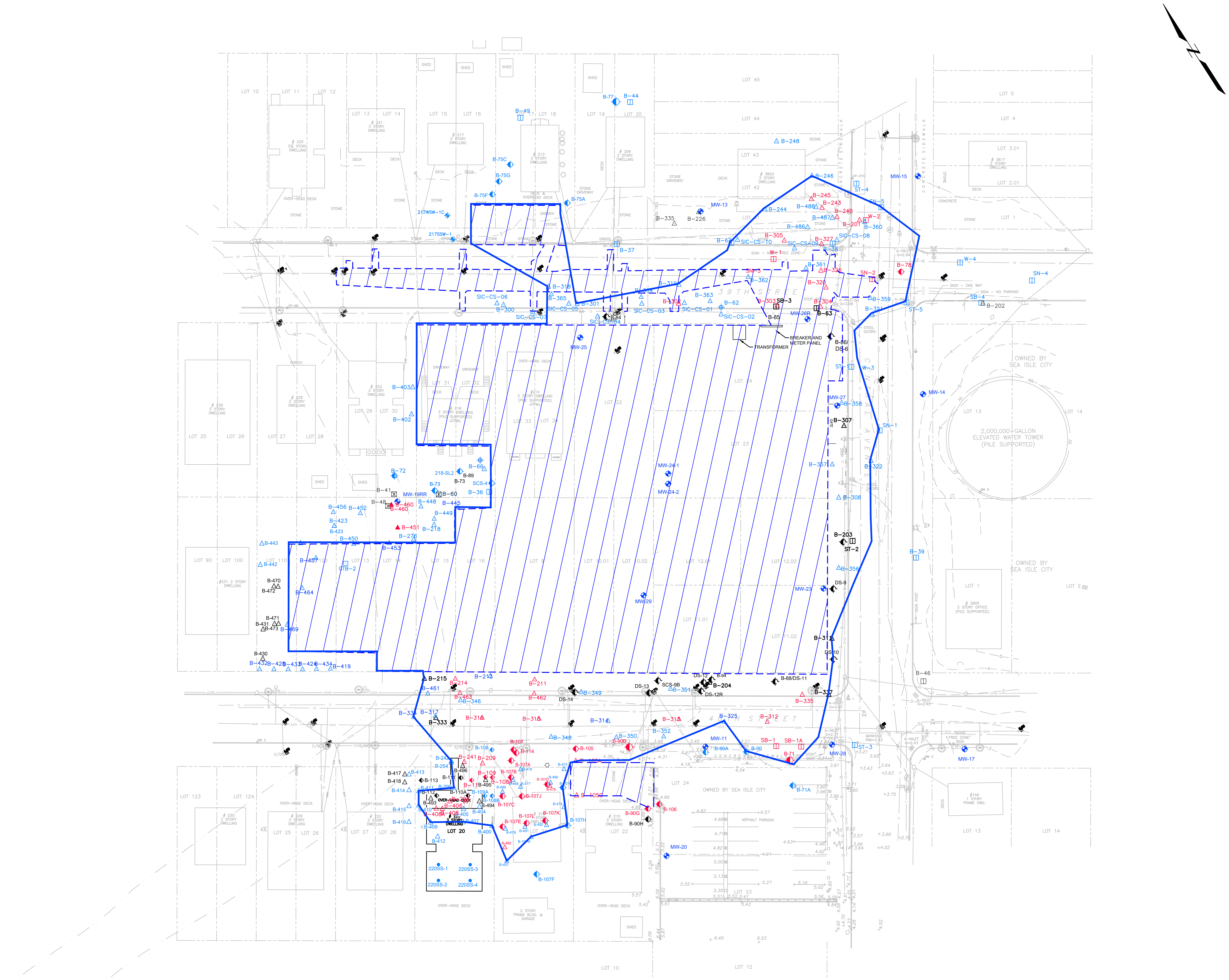
GEI Consultants

Project 1610583

SITE PLAN

November 2020 Figure 2

H:\TECH\project\JCP&L\Sea Isle City\Remediation 2018\Figures\ Abandoned and Reamining Monitoring Wells.dwg \Nov 02, 2020



LEGEND

RESIDENTIAL DIRECT CONTACT SOIL REMEDIAL STANDARD DELINEATION

AREA EXCAVATED

B-418 △ SOIL BORING LOCATION ADVANCED BY GEI 2007-2008

BORING ADVANCED BY GEI NOV. 2002-JAN. 2003

MW-15 MONITORING WELL

REMEDIAL INVESTIGATION BORING: NO ANALYTICAL TESTING PERFORMED

SUBSURFACE SOIL CONCENTRATIONS ARE ABOVE THE SRS

SUBSURFACE SOIL CONCENTRATIONS ARE BELOW THE SRS

WOOD FENCE

WATER LINE

GAS LINE

SANITARY SEWER LINE

STORM DRAIN

UTILITY POLE

SIGN

INLET

SEWER MANHOLE

CLEAN-OUT

BELL TELL MANHOLE

WATER METER

WV WATER VALVE

GM GAS VALVE

FIRE HYDRANT

0 30 60

SCALE: 1" = 30'

NOTES:

1. HORIZONTAL DATUM IS THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD 1983) AND IS REFERENCED TO N.J.G.C.S. MONUMENT SITES (PID JU2339).
2. DRAWING BASED ON PLAN "TAX LOTS 22,23, & 24, BLOCK 39.04, CITY OF SEA ISLE, CAPE MAY COUNTY, N.J." BY VARGO ASSOCIATES, FRANKLINVILLE, N.J., NOVEMBER 27, 2002.
3. PREVIOUS SAMPLE LOCATIONS BASED ON FIGURE 9, "DELINEATION OF SOIL CLEANUP CRITERIA EXCEEDANCES" FROM JANUARY 2004 PRE-DESIGN INVESIGATION REPORT.
4. A VARIANCE DUE TO INACCESSIBILITY OF SOILS AND TECHNICAL IMPRACTICABILITY WAS REQUESTED FOR LOCATIONS WHERE SUBSURFACE SOIL CONCENTRATIONS ARE ABOVE THE SRS AND OUTSIDE OF THE DELINEATION LINE.

Groundwater Remedial Action Report Sea Isle City Former MGP Site Sea Isle City, New Jersey PI #G000006130	GEI Consultants	SOIL EXCAVATION AREA AND LIMIT OF SOIL IMPACT
Jersey Central Power & Light Company Morristown, New Jersey	Project 1610583	November 2020 Figure 3

\\gtb-pzcc-1\ H:\TECH\project\JCP&L\Sea Isle City\Remediation 2017\Figures\Soil Boring Location 10.11.2018.dwg - 1/7/2019

GRID NORTH
PROJECT NORTH

39TH STREET
(60' WIDE)

40TH STREET

CENTRAL AVENUE
(66' WIDE)

CONCRETE SIDEWALK

LOT 44
LOT 43
LOT 42
LOT 41
LOT 4
LOT 3.01
LOT 2.01
LOT 1
LOT 24
LOT 23
LOT 22
LOT 27
LOT 28
LOT 29
LOT 30
LOT 31
LOT 32
LOT 33
LOT 34
LOT 13
LOT 14
BLOCK 39.04
BLOCK 39.03
LOT 90
LOT 100
LOT 110
LOT 120
LOT 13
LOT 14
LOT 15
LOT 16
LOT 9
LOT 10.01
LOT 10.02
LOT 12.01
LOT 12.02
LOT 11.01
LOT 11.02
LOT 123
LOT 124
LOT 25
LOT 26
LOT 27
LOT 28
LOT 20
LOT 21
LOT 22
LOT 24

MW-18 4.88
MW-13 4.10
MW-15 3.31
MW-25 4.00
MW-20 NA
PZ-2 NA
PZ-4 NA
PZ-3 NA
MW-16 3.45
MW-14 3.33
MW-24-1 4.42
MW-24-2 NA
MW-19RR 4.52
MW-23 3.58
MW-11 3.23
PZ-5 2.56
MW-22 3.91
MW-17 2.39
MW-21 4.24
MW-20 4.59

4.5
4.0
3.5
3.0
2.5

133.16'
126.37'

ELEVATED WATER TOWER

LEGEND

- PROPERTY LINE
- CONCRETE
- EXCAVATED AREA
- CONTAMINANT BARRIER
- MW-13 EXISTING MONITORING WELL LOCATION
- GROUNDWATER CONTOURS
- FLOW DIRECTION
- 2.56 GROUNDWATER ELEVATION
- NA ELEVATION NOT USED OR TAKEN

0 50' 100'
SCALE:1" = 50'

Groundwater Remedial Action Report
Sea Isle City Former MGP Site
Sea Isle City, New Jersey
PI #G000006130

Jersey Central Power & Light Company
Morristown, New Jersey

GEI Consultants

Project 1610583

FEBRUARY 2016
GROUNDWATER
CONTOURS

November 2020 Figure 4

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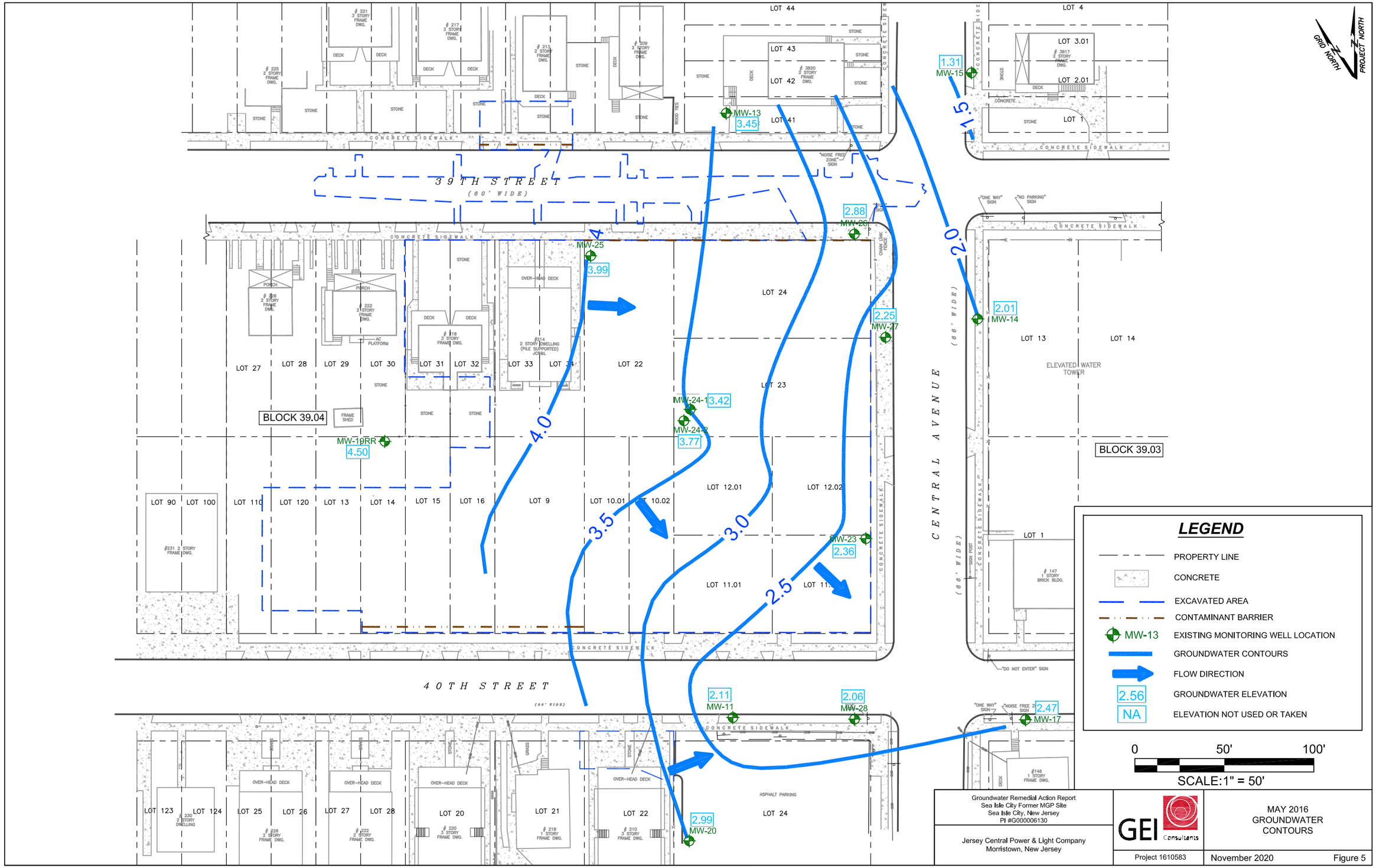

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Sea Isle City Former MGP Site
Sea Isle City, New Jersey
PI #G000006130

Jersey Central Power & Light Company
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MAY 2016
GROUNDWATER
CONTOURS

November 2020 Figure 5

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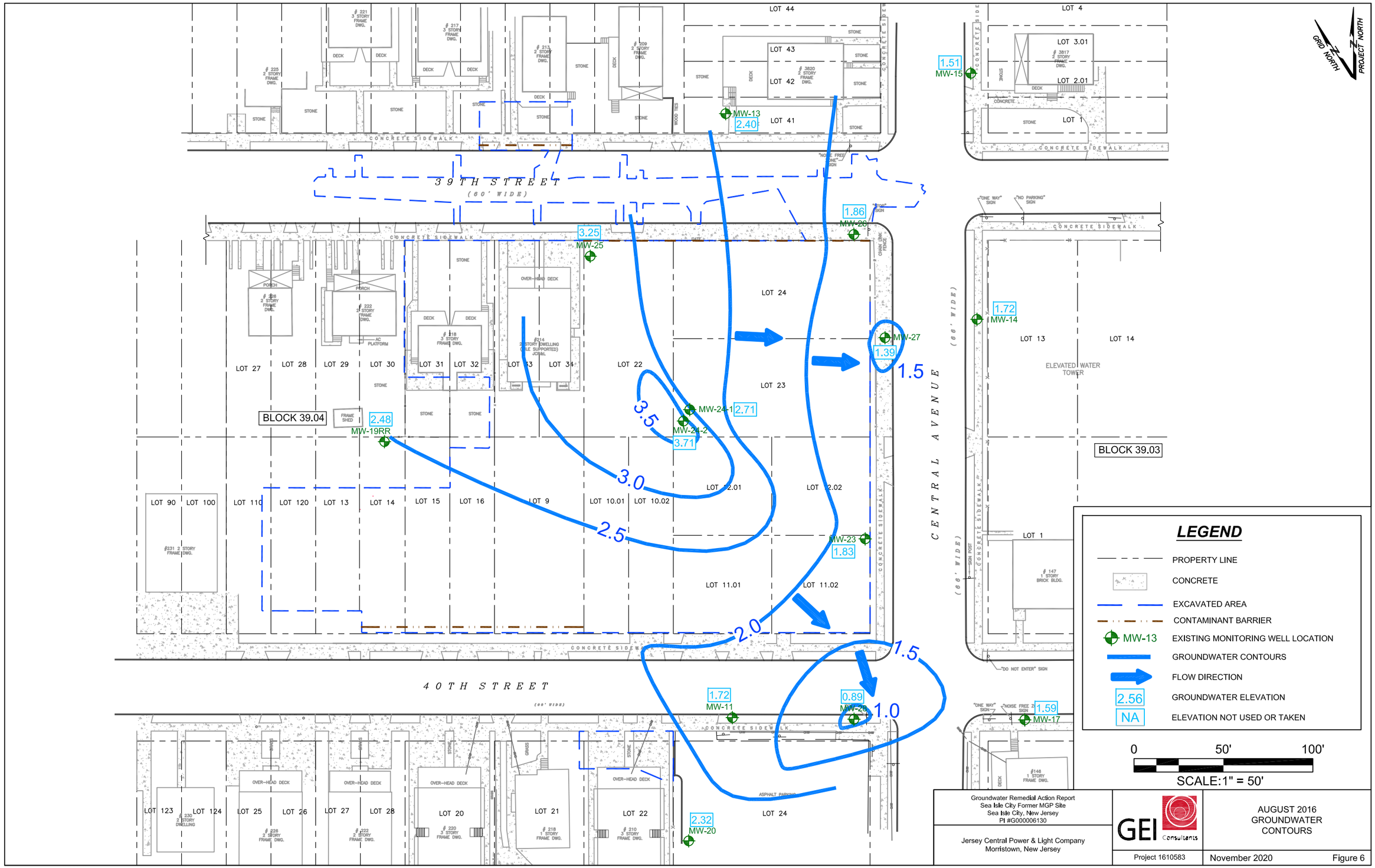

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Sea Isle City Former MGP Site
Sea Isle City, New Jersey
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Jersey Central Power & Light Company
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AUGUST 2016
GROUNDWATER
CONTOURS

November 2020 Figure 6

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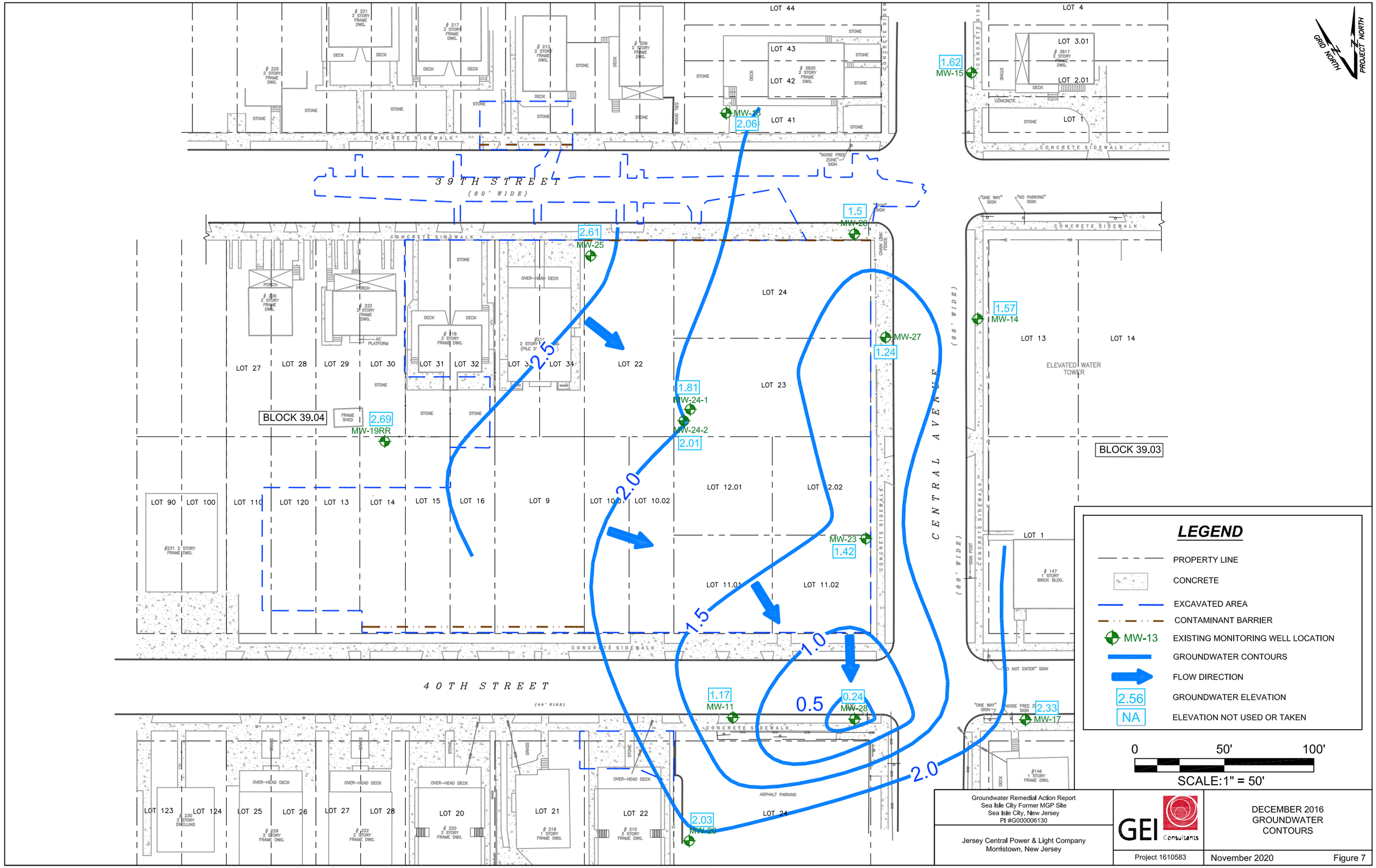

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Sea Isle City Former MGP Site
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DECEMBER 2016
GROUNDWATER
CONTOURS

November 2020

Figure 7

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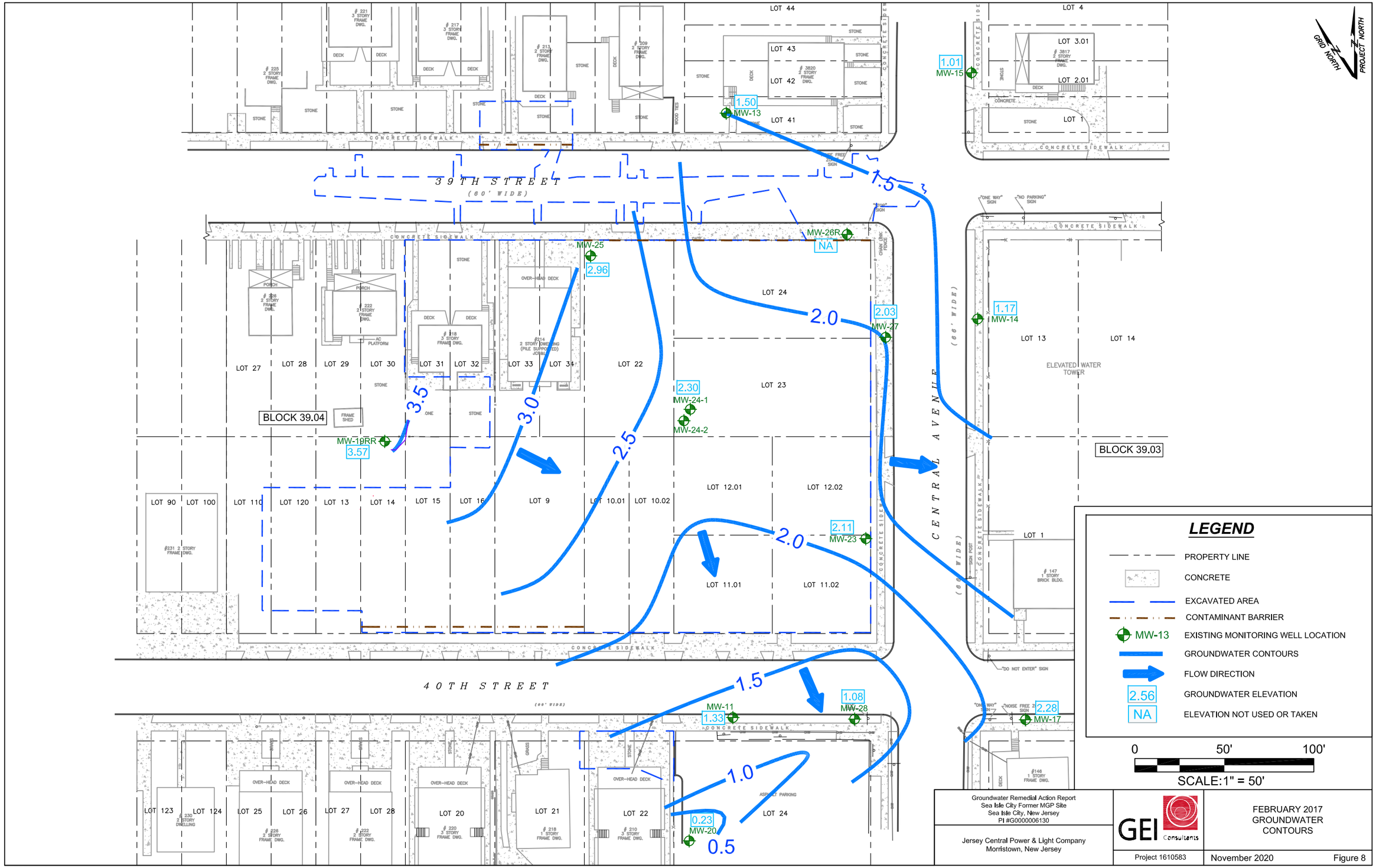

Groundwater Remedial Action Report
Sea Isle City Former MGP Site
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Project 1610583

FEBRUARY 2017
GROUNDWATER
CONTOURS

November 2020 Figure 8

H:\TECH\project\JCP&L\Sea Isle City\Remediation 2017\Figures\ GW Contours 2-27-17.dwg \Nov 02, 2020

GRID NORTH
PROJECT NORTH

39TH STREET
(60' WIDE)

40TH STREET
(60' WIDE)

CENTRAL AVENUE
(66' WIDE)

BLOCK 39.04

BLOCK 39.03

MW-25
2.51

MW-26R
2.40

MW-27
2.29

MW-28
1.49

MW-11
1.84

MW-19RR
3.72

MW-24-1
1.59

MW-24-2
3.36

MW-23
2.36

MW-20
2.95

MW-13
2.85

MW-15
1.73

MW-14
2.83

MW-17
2.24

3.5
3.0
2.5
2.0
1.5

LEGEND

- PROPERTY LINE
- CONCRETE
- EXCAVATED AREA
- CONTAMINANT BARRIER
- MW-13 EXISTING MONITORING WELL LOCATION
- GROUNDWATER CONTOURS
- FLOW DIRECTION
- 2.56 GROUNDWATER ELEVATION
- NA ELEVATION NOT USED OR TAKEN

0 50' 100'

SCALE:1" = 50'

Groundwater Remedial Action Report
Sea Isle City Former MGP Site
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Morristown, New Jersey

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Project 1610583

MAY 2017
GROUNDWATER
CONTOURS

November 2020 Figure 9

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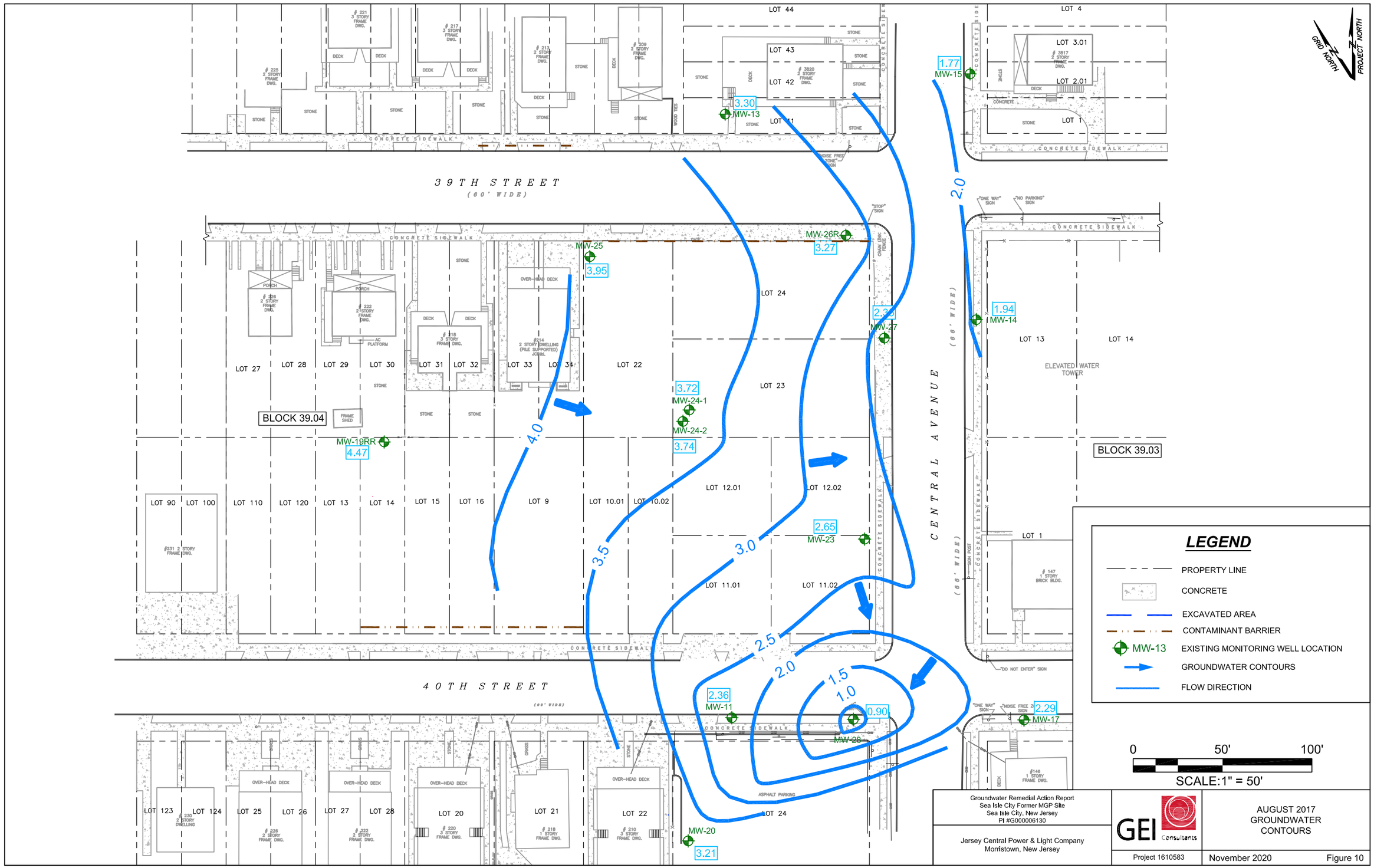

Groundwater Remedial Action Report
Sea Isle City Former MGP Site
Sea Isle City, New Jersey
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Jersey Central Power & Light Company
Morristown, New Jersey

GEI Consultants

Project 1610583

AUGUST 2017
GROUNDWATER
CONTOURS

November 2020 Figure 10

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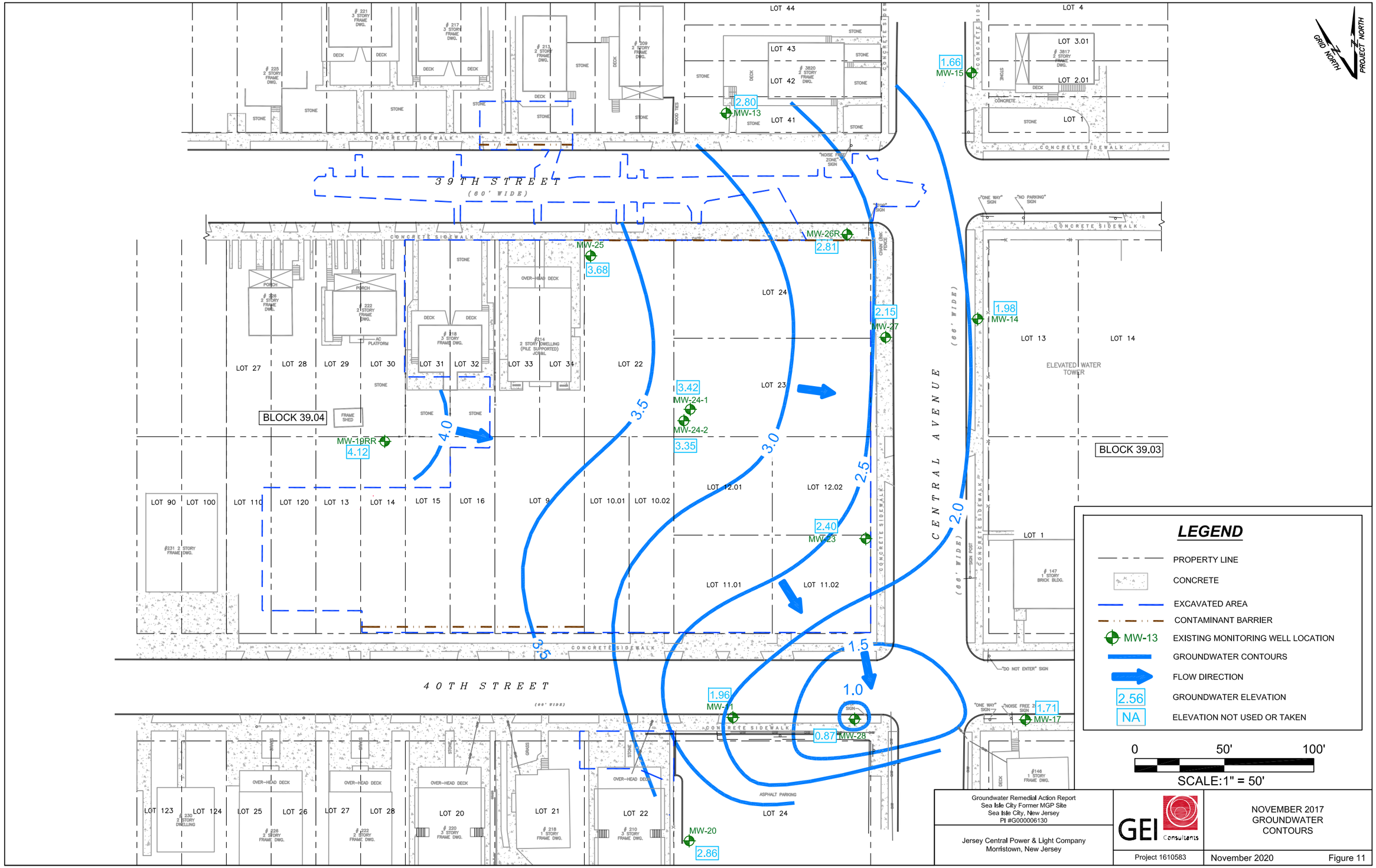

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NOVEMBER 2017
GROUNDWATER
CONTOURS

November 2020 Figure 11

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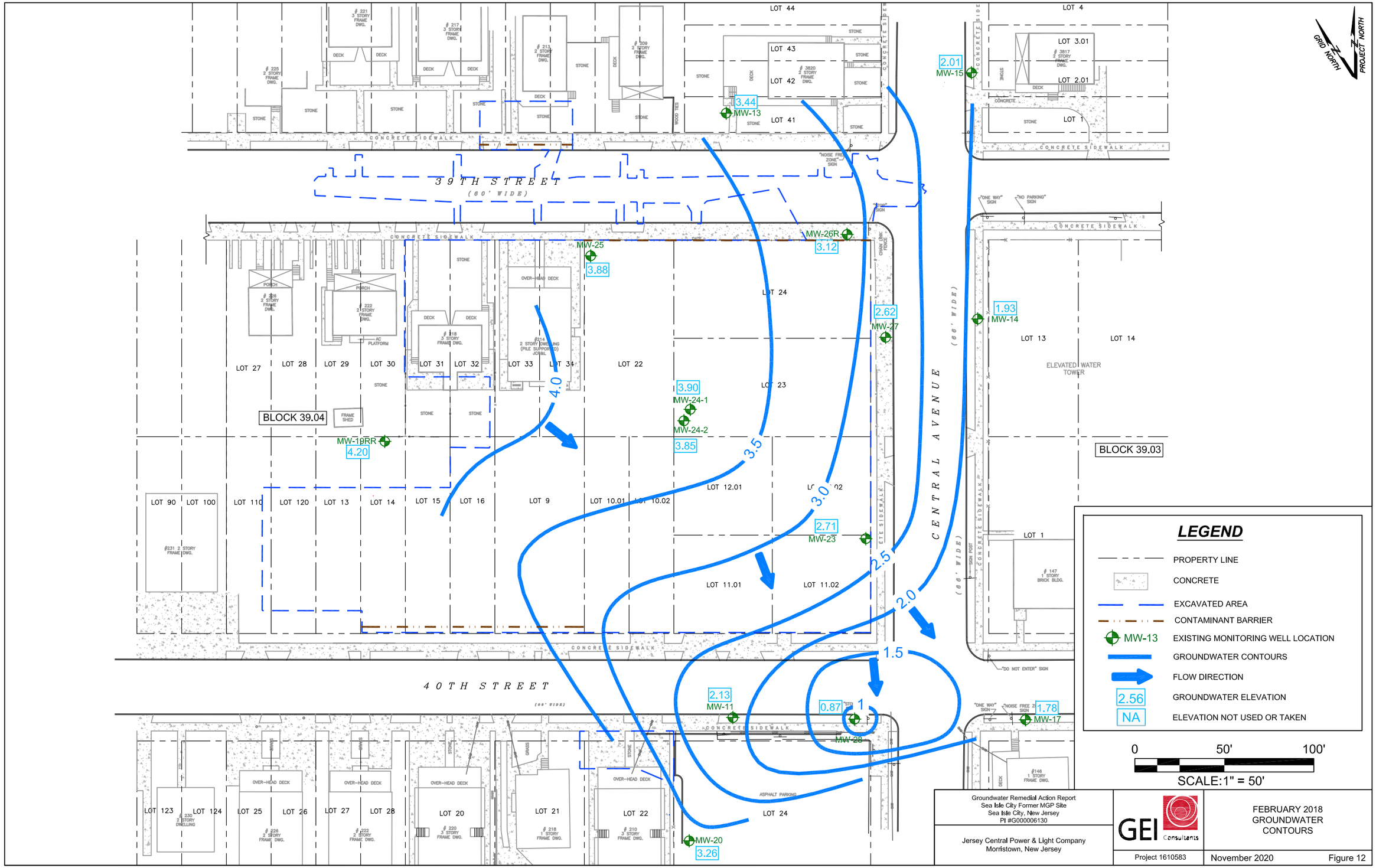

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Sea Isle City Former MGP Site
Sea Isle City, New Jersey
PI #G000006130

Jersey Central Power & Light Company
Morristown, New Jersey

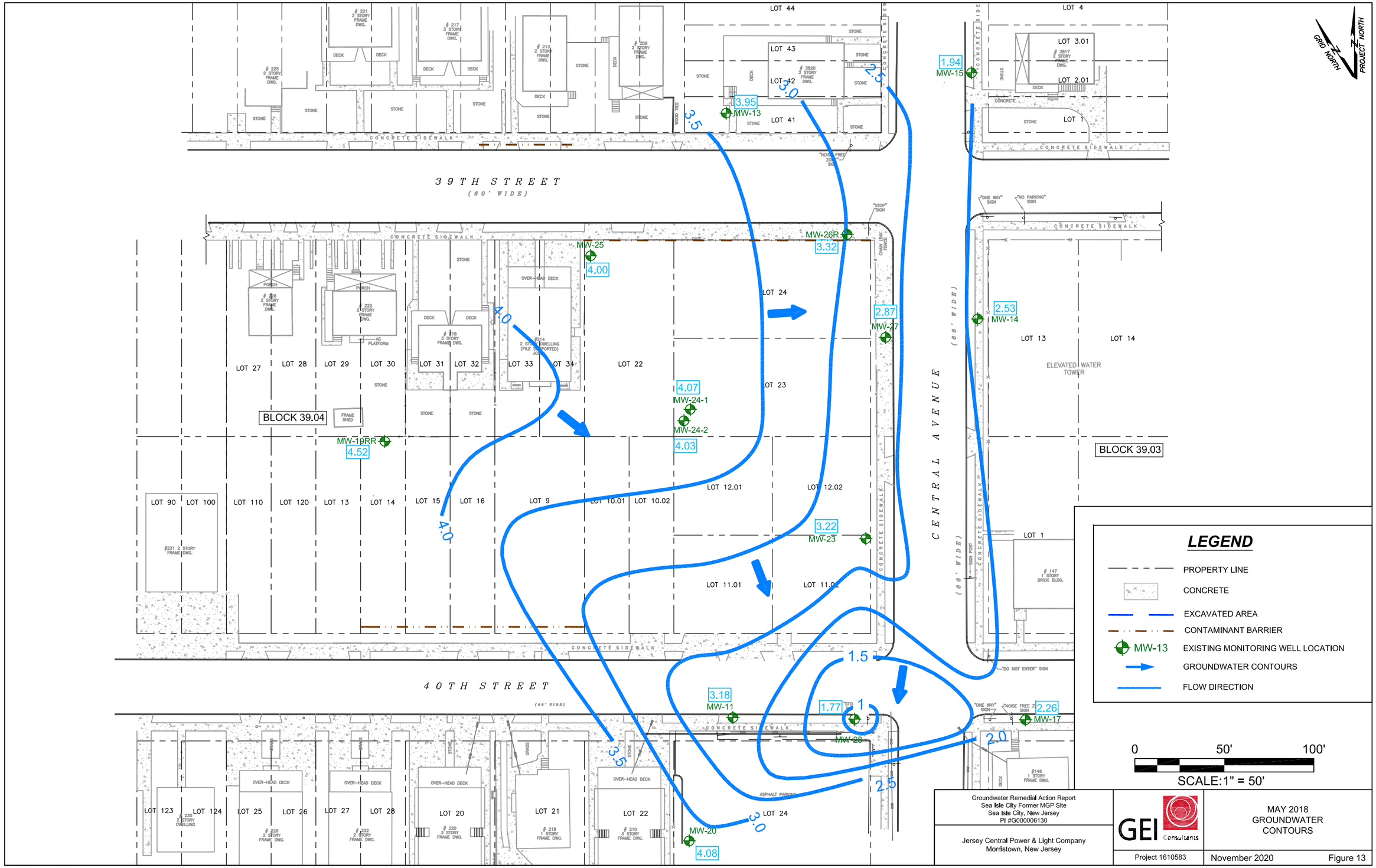
GEI Consultants

Project 1610583

FEBRUARY 2018
GROUNDWATER
CONTOURS

November 2020 Figure 12

H:\TECH\project\JCP&L\Sea Isle City\Remediation 2018\Figures\ GW Contours 2-23-18.dwg \Nov 02, 2020



LEGEND

- PROPERTY LINE
- CONCRETE
- EXCAVATED AREA
- CONTAMINANT BARRIER
- MW-13 EXISTING MONITORING WELL LOCATION
- GROUNDWATER CONTOURS
- FLOW DIRECTION

0 50' 100'

SCALE:1" = 50'

Groundwater Remedial Action Report
Sea Isle City Former MGP Site
Sea Isle City, New Jersey
PI #G000006130

Jersey Central Power & Light Company
Morristown, New Jersey

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Project 1610583

MAY 2018
GROUNDWATER
CONTOURS

November 2020 Figure 13

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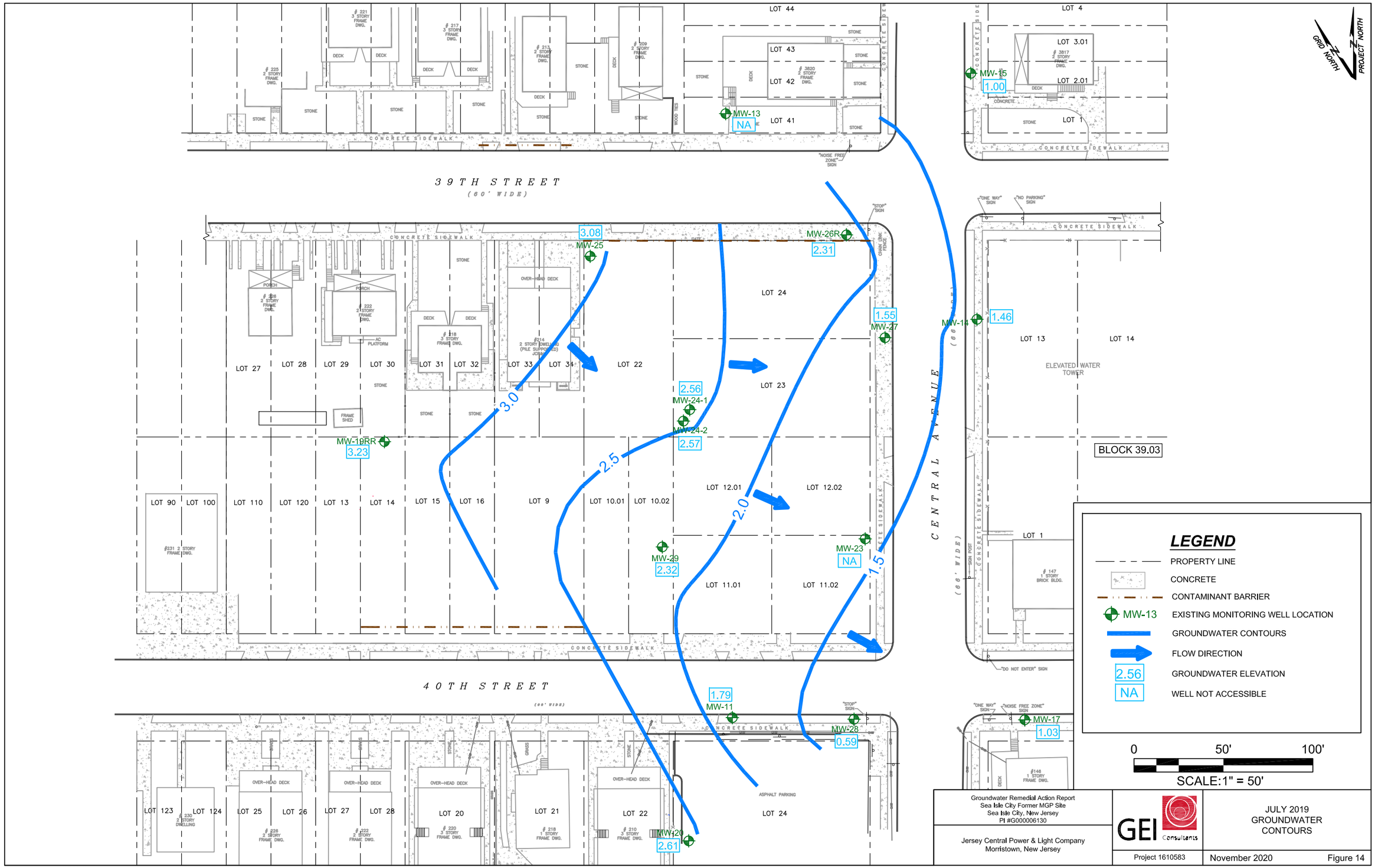

Groundwater Remedial Action Report
Sea Isle City Former MGP Site
Sea Isle City, New Jersey
PI #G000006130

Jersey Central Power & Light Company
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JULY 2019
GROUNDWATER
CONTOURS

November 2020 Figure 14

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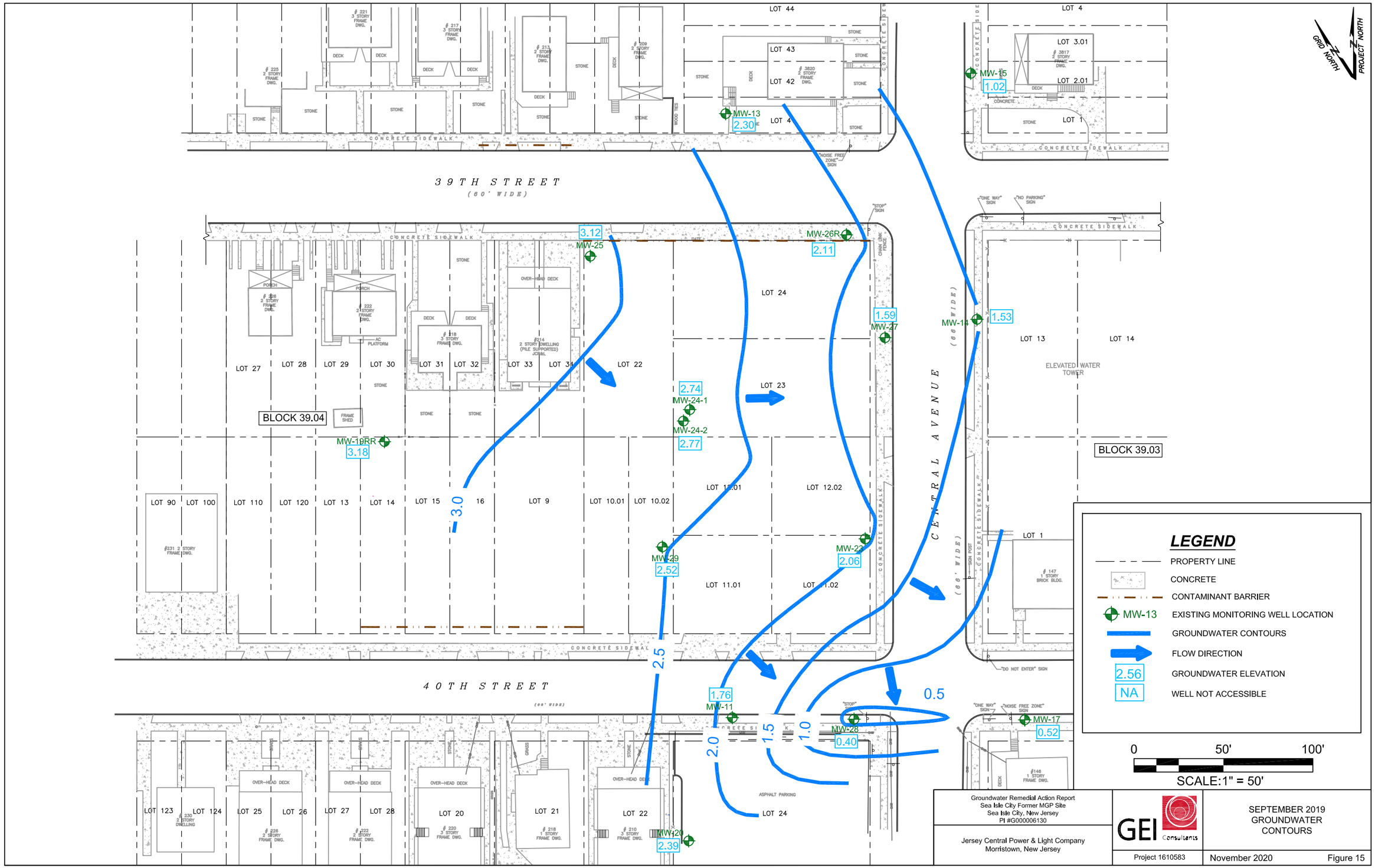

LEGEND

- PROPERTY LINE
- CONCRETE
- CONTAMINANT BARRIER
- MW-13 — EXISTING MONITORING WELL LOCATION
- GROUNDWATER CONTOURS
- FLOW DIRECTION
- 2.56 — GROUNDWATER ELEVATION
- NA — WELL NOT ACCESSIBLE

0 50' 100'

SCALE:1" = 50'

Groundwater Remedial Action Report
Sea Isle City Former MGP Site
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PI #G000006130

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Project 1610583

SEPTEMBER 2019
GROUNDWATER
CONTOURS

November 2020 Figure 15

H:\TECH\project\JCP&L\Sea Isle City\Remediation 2018\Figures\ GW Contours 9-9-19.dwg \Nov 02, 2020

GRID NORTH
PROJECT NORTH

39TH STREET
(60' WIDE)

40TH STREET
(60' WIDE)

CENTRAL AVENUE
(66' WIDE)

BLOCK 39.04

BLOCK 39.03

MW-13 3.15
MW-15 1.40
MW-25 3.94
MW-26R 3.29
MW-27 1.94
MW-14 2.04
MW-24-1 3.21
MW-24-2 3.21
MW-19RR 4.49
MW-29 3.35
MW-23 2.79
MW-11 2.54
MW-28 0.95
MW-17 0.35
MW-20 3.35

4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5

LEGEND

- PROPERTY LINE
- CONCRETE
- CONTAMINANT BARRIER
- MW-13 EXISTING MONITORING WELL LOCATION
- GROUNDWATER CONTOURS
- FLOW DIRECTION
- 2.56 GROUNDWATER ELEVATION
- NA WELL NOT ACCESSIBLE

0 50' 100'
SCALE:1" = 50'

Groundwater Remedial Action Report
Sea Isle City Former MGP Site
Sea Isle City, New Jersey
PI #G000006130

Jersey Central Power & Light Company
Morristown, New Jersey

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DECEMBER 2019
GROUNDWATER
CONTOURS

Project 1610583 | November 2020 | Figure 16

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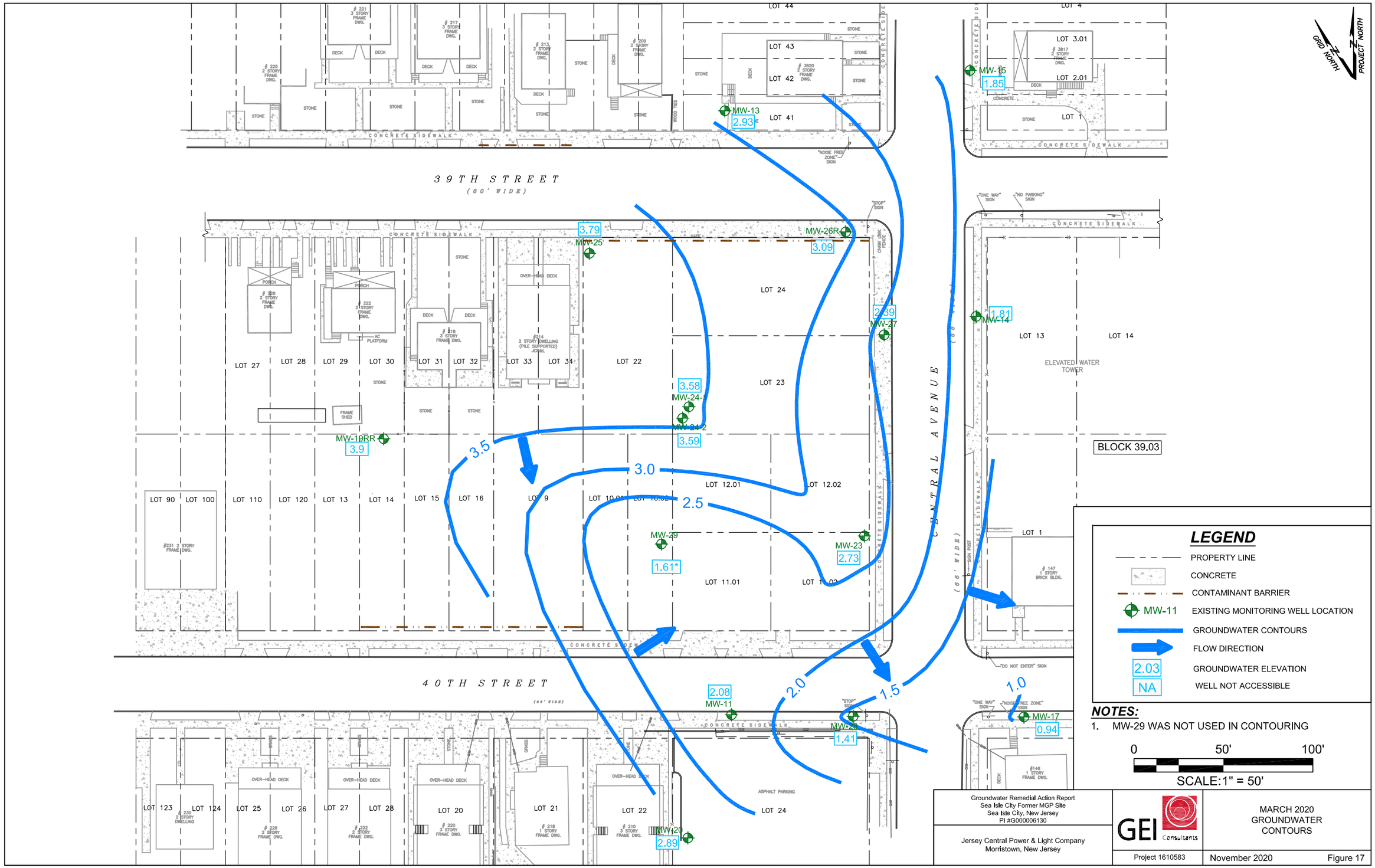

LEGEND

- PROPERTY LINE
- CONCRETE
- CONTAMINANT BARRIER
- MW-11 EXISTING MONITORING WELL LOCATION
- GROUNDWATER CONTOURS
- FLOW DIRECTION
- 2.03 GROUNDWATER ELEVATION
- NA WELL NOT ACCESSIBLE

NOTES:

1. MW-29 WAS NOT USED IN CONTOURING

0 50' 100'

SCALE:1" = 50'

Groundwater Remedial Action Report
Sea Isle City Former MGP Site
Sea Isle City, New Jersey
PI #G000006130

Jersey Central Power & Light Company
Morristown, New Jersey

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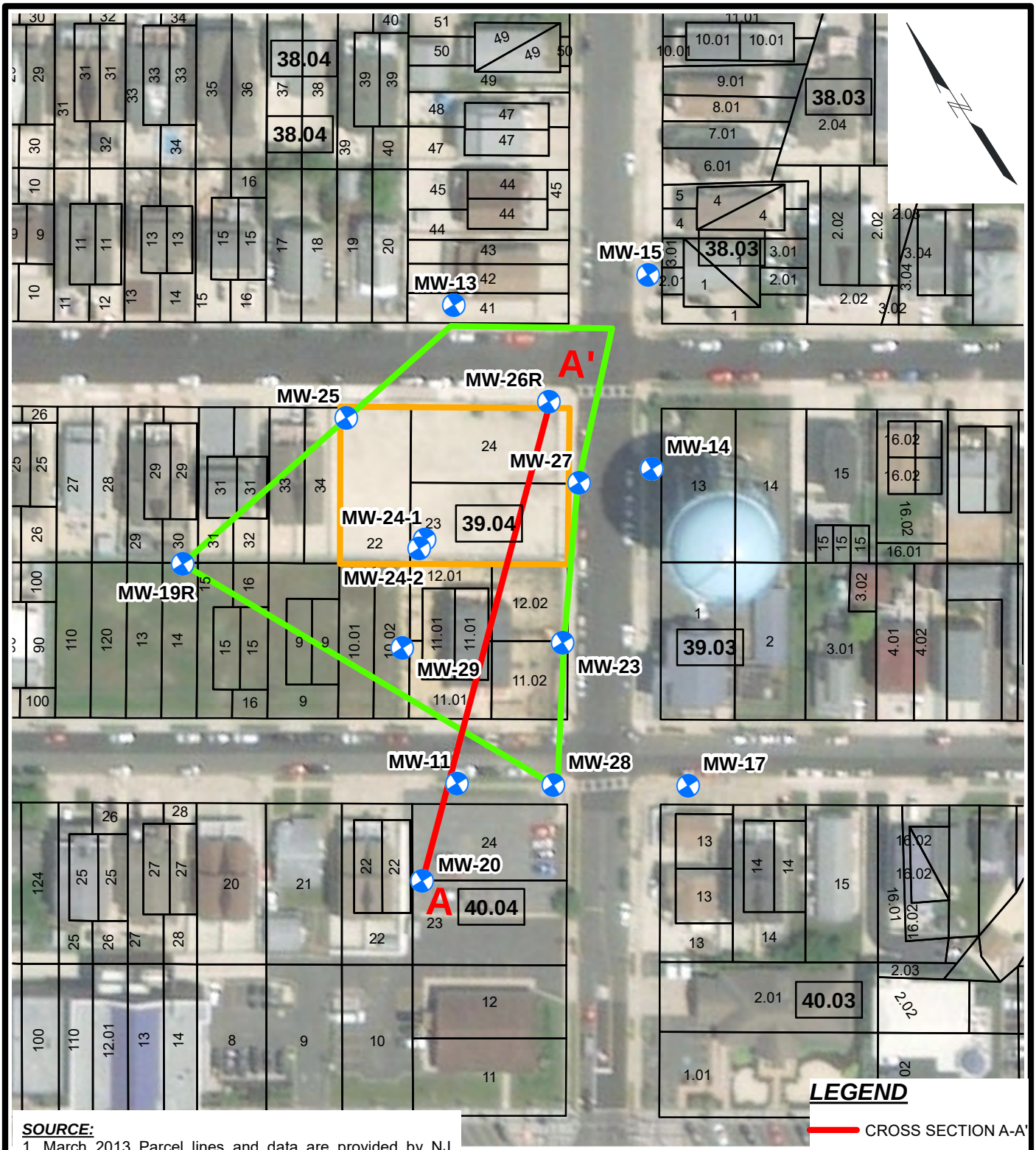
Project 1610583

MARCH 2020
GROUNDWATER
CONTOURS

November 2020 Figure 17

H:\TECH\project\JCP&L\Sea Isle City\Ground Water Sampling\2020 3-10 to 3-13\ GW Wells.dwg \Nov 02, 2020



LEGEND

- CROSS SECTION A-A'
- MONITORING WELLS
- REVISED CEA
- FORMER MGP SITE
- PARCELS

SOURCE:

1. March 2013 Parcel lines and data are provided by NJ Office of Information Technology (NJOIT), Office of Geographic Information Systems (OGIS), and are shown for graphical purposes only. This map is not to be considered a legal tax map, accessed 3/2016 via ArcGIS Online Services.
2. Site Aerial from ArcGIS Online World Imagery.

0 100 200

SCALE: 1" = 100'

Groundwater Remedial Action Report
Sea Isle City Former MGP Site
Sea Isle City, NJ
PI #G000006130

Jersey Central Power & Light Company
Morristown, New Jersey

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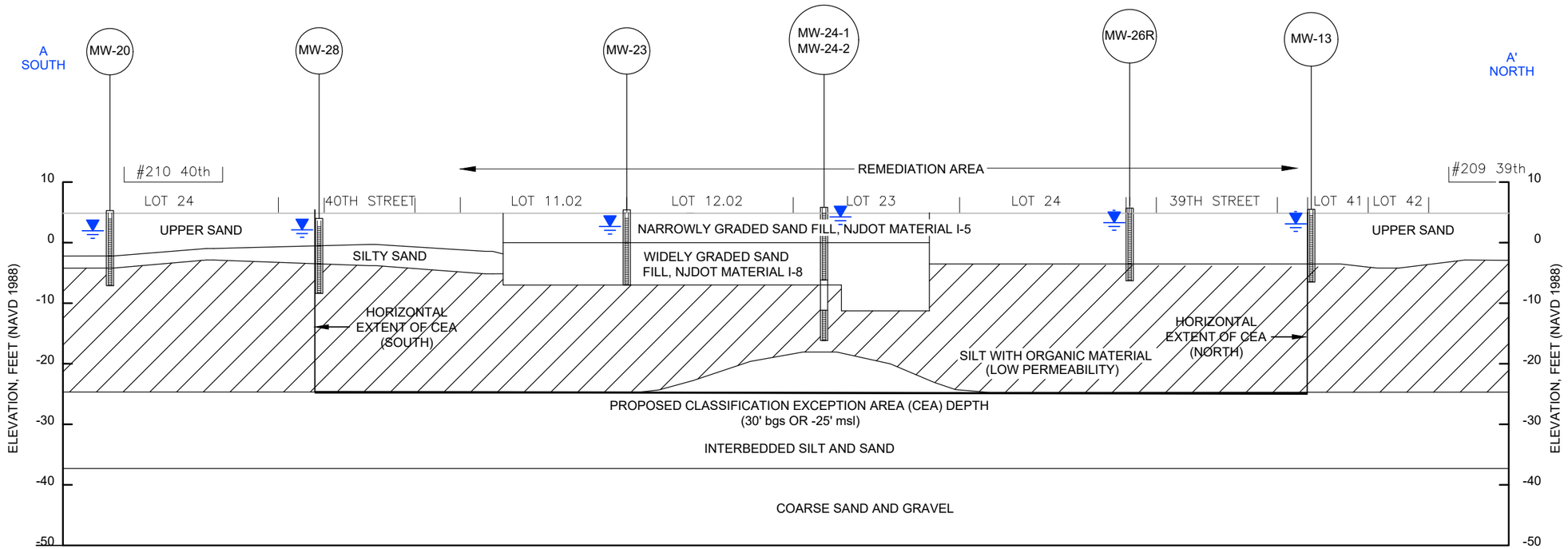
CEA BOUNDARY EXTENT MAP

Project 1610583 | November 2020 | Figure 18

J:\Projects\JCP&L\Sea Isle City\Proposed_CEA.mxd



0 150' 300'

SCALE: 1" = 150'

HORIZONTAL SCALE: 1" = 40'

0 40' 80'

VERTICAL SCALE: 1" = 40'

NOTE: 2x VERTICAL EXAGGERATION

LEGEND

- MW-20 — MONITORING WELL ID
- APPROXIMATE GROUND SURFACE
- 2–IN. DIAMETER PVC RISER PIPE
- APPROXIMATE GROUNDWATER LEVEL MEASURED IN OBSERVATION WELL IN MAY 2017
- SCREENED SECTION OF OBSERVATION WELL
- SILT WITH ORGANIC MATERIAL (LOW PERMEABILITY)

Groundwater Remedial Action Report
Sea Isle City Former MGP Site
Sea Isle City, New Jersey
PI # G000006130

Jersey Central Power & Light Company
Morristown, New Jersey

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Project 1610583

CEA CROSS SECTION

November 2020 Figure 19

P:\Project\JCP&L\SIC\SIC CEA Cross Section.dwg

Groundwater Remedial Action Report
Sea Isle City Former MGP Site
Sea Isle City, New Jersey
PI #G000006130

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MAY 2018
BENZENE CONCENTRATION
ISOPLETH CONTOUR

November 2020 Figure 20

H:\TECH\project\JCP&L\Sea Isle City\Ground Water Sampling\2018 5-21-18 to 5-24-18\ GW Wells.dwg \Nov 02, 2020

Groundwater Remedial Action Report
Sea Isle City Former MGP Site
Sea Isle City, New Jersey
PI #G000006130

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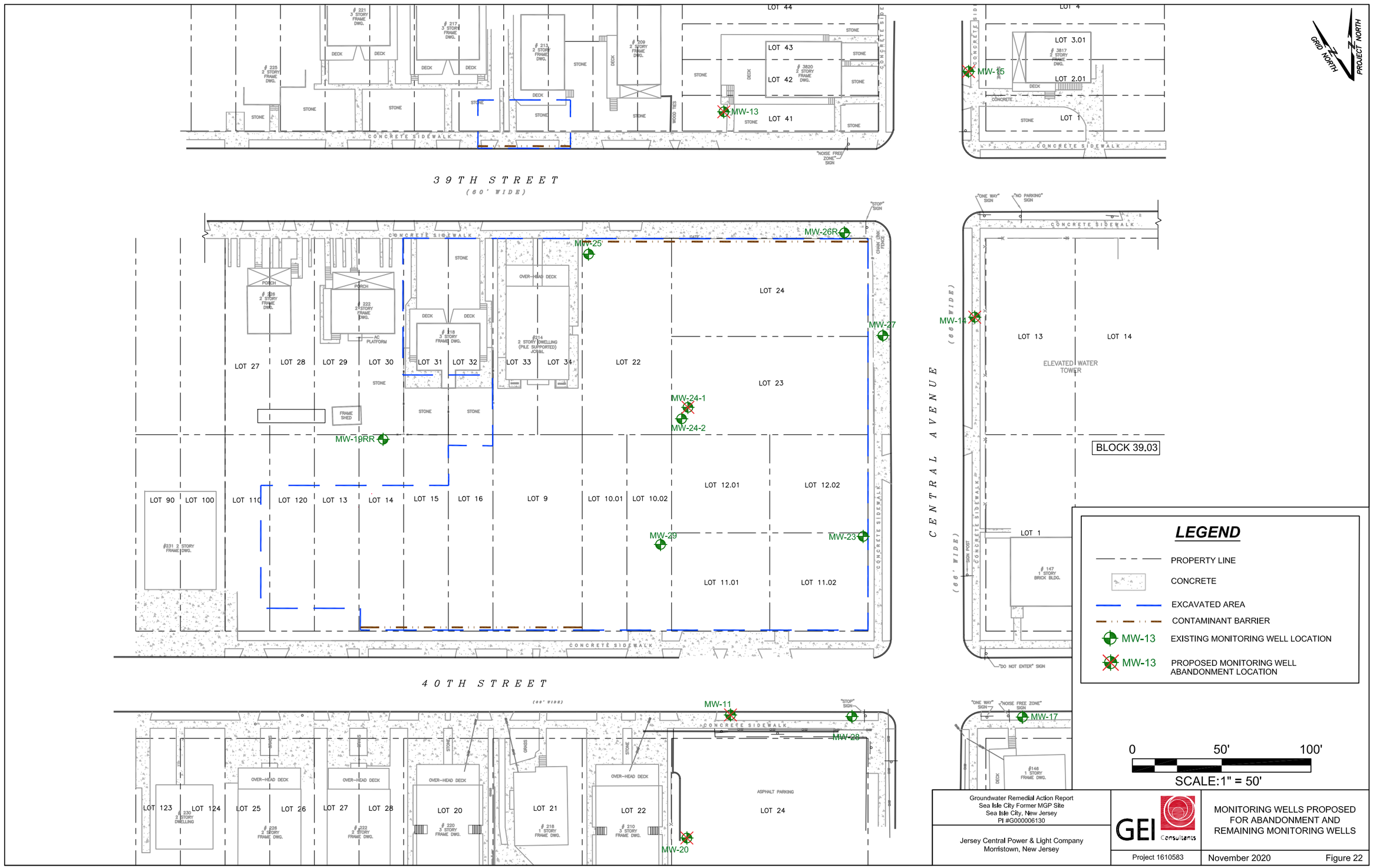
MARCH 2020
BENZENE CONCENTRATION
ISOPLETH CONTOUR

November 2020 Figure 21

H:\TECH\project\JCP&L\Sea Isle City\Ground Water Sampling\2020 3-10 to 3-13\ GW Wells.dwg \Nov 02, 2020



LEGEND

- PROPERTY LINE
- CONCRETE
- EXCAVATED AREA
- CONTAMINANT BARRIER
- MW-13 EXISTING MONITORING WELL LOCATION
- MW-13 PROPOSED MONITORING WELL ABANDONMENT LOCATION

0 50' 100'

SCALE:1" = 50'

Groundwater Remedial Action Report
Sea Isle City Former MGP Site
Sea Isle City, New Jersey
PI #G000006130

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Project 1610583

MONITORING WELLS PROPOSED FOR ABANDONMENT AND REMAINING MONITORING WELLS

November 2020 Figure 22

H:\TECH\project\JCP&L\Sea Isle City\Remediation 2018\Figures\ Figure 22 Abandoned and Remaining Monitoring Wells.dwg \Nov 02, 2020

Appendix A

Case Inventory Document

Case Name: Sea Isle City Coal Gas

PI #: G000006130

IMPORTANT: *1) Do not delete or copy and paste across multiple columns because it can disrupt hidden equations.*
2) If pasting from a Word document, use the Paste option: ***Match Destination Formatting***
3) If the text turns ***red*** *you have exceeded the character limit for that column*

Case Inventory Document Version 1.4 02/23/17

AOC ID	AOC Type	AOC Description	Confirmed Contamination	AOC Status	Status Date	Incident #	DEP AOC Number	Contaminated Media	Contaminants of Concern	Additional Contaminants of Concern	Additional Contaminants of Concern	Applicable Remediation Standard	Exposure Route	Additional Exposure Route	RA Type	Additional RA Type	Additional RA Type	Was an Order of Magnitude Evaluation Conducted?	Activity
AOC-1A	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	210 39th Street, Block 39.04, Lot 22. Contamination associated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	RAO-A (Unrestricted Use)	9/6/2016			Soil	PAHs	VO		Soil Cleanup Criteria (MUST have RAW approved for AOC prior to 12/2/2008)	Ingestion/Dermal	Inhalation	Excavation	No Remedial Action		Yes	Soil excavation activities were conducted at the site from 2008 to 2011 to address MGP-related impacts. Approximately 7,814 tons of impacted soil was excavated as part of the remediation. Impacts from 0-12 feet were excavated and transported off-site for thermal desorption. Deeper soil impacts at approximately 16 feet were left in place. The concentrations left in place were below the Soil Cleanup Criteria but above the RDCSRS. The RAWP for the site was approved in 2007, so the SCC would be applicable. No further investigation or remedial action is proposed and therefore an RAO was issued for the parcel on 9/6/2016.
AOC-1B	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	3900 Central Avenue, Block 39.4, Lot 23. Contamination associated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	RAO-A (Unrestricted Use)	9/6/2016			Soil	PAHs	VO		Soil Cleanup Criteria (MUST have RAW approved for AOC prior to 12/2/2008)	Ingestion/Dermal		Excavation			Yes	Soil excavation activities were conducted at the site from 2008 to 2011 to address MGP-related impacts. Impacts from 0-12 feet were excavated and transported off-site for thermal desorption. Deeper soil impacts at approximately 16 feet were left in place. The concentrations left in place were below the Soil Cleanup Criteria but above the RDCSRS. The RAWP for the site was approved in 2007, so the SCC would be applicable. No further investigation or remedial action is proposed and therefore an RAO was issued for the parcel on 9/6/2016.
AOC-1C	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	3904 Central Avenue, Block 39.04, Lot 24. Contamination associated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	RAO-A (Unrestricted Use)	9/6/2016			Soil	PAHs	VO		Soil Cleanup Criteria (MUST have RAW approved for AOC prior to 12/2/2008)	Ingestion/Dermal		Excavation			Yes	Soil excavation activities were conducted at the site from 2008 to 2011 to address MGP-related impacts. Impacts from 0-12 feet were excavated and transported off-site for thermal desorption. Deeper soil impacts at approximately 16 feet were left in place. The concentrations left in place were below the Soil Cleanup Criteria but above the RDCSRS. The RAWP for the site was approved in 2007, so the SCC would be applicable. No further investigation or remedial action is proposed and therefore an RAO was issued for the parcel on 9/6/2016.
AOC-1D	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	214 39th Street, Block 39.04, Lots 33 and 34. Contamination associated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	RAO-A (Unrestricted Use)	9/6/2016			Soil	PAHs	VO		Soil Cleanup Criteria (MUST have RAW approved for AOC prior to 12/2/2008)	Ingestion/Dermal		Excavation			Yes	Soil excavation activities were conducted at the site from 2008 to 2011 to address MGP-related impacts. Impacts from 0-12 feet were excavated and transported off-site for thermal desorption. Deeper soil impacts at approximately 16 feet were left in place. The concentrations left in place were below the Soil Cleanup Criteria but above the RDCSRS. The RAWP for the site was approved in 2007, so the SCC would be applicable. No further investigation or remedial action is proposed and therefore an RAO was issued for the parcel on 9/6/2016.
AOC-1E	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	205 40th Street, Block 39.04, Lots 11.02 and 12.02. Contamination assoicated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	RAO-A (Unrestricted Use)	10/28/2015			Soil	PAHs			Remediation Standards	Ingestion/Dermal		Excavation			Yes	Remediation of the 205 40th Street parcel was conducted in 2012-2014, as part of the remediation off-site impacts located along the north side of 40th Street. Approximately 30,500 tons of soil was excavated during the remedial action and transported off-site for thermal desorption and disposal. The impacts were present at a depth of approximately 4 to 6 feet. An RAO for the parcel was issued on 10/28/2015.
AOC-1F	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	207 40th Street, Block 39.04, Lots 11.01 and 12.01. Contamination associated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	RAO-A (Unrestricted Use)	10/28/2015			Soil	PAHs	VO		Remediation Standards	Ingestion/Dermal		Excavation			Yes	Remediation of the 207 40th Street parcel was conducted in 2012-2014, as part of the remediation off-site impacts located along the north side of 40th Street. Approximately 30,500 tons of soil was excavated during the remedial action and transported off-site for thermal desorption and disposal. An RAO for the parcel was issued on 10/28/2015.
AOC-1G	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	211 40th Street, Block 39.04, Lots 9 and 10.01. Contamination associated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	RAO-A (Unrestricted Use)	10/28/2015			Soil	PAHs	VO		Remediation Standards	Ingestion/Dermal		Excavation			Yes	Remediation of the 211 40th Street parcel was conducted in 2012-2014, as part of the remediation off-site impacts located along the north side of 40th Street. Approximately 30,500 tons of soil was excavated during the remedial action and transported off-site for thermal desorption and disposal. An RAO for the parcel was issued on 10/28/2015.
AOC-1H	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	219 40th Street, Block 39.04, Lots 15 and 16. Contamination associated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	RAO-A (Unrestricted Use)	10/28/2015			Soil	PAHs	VO		Remediation Standards	Ingestion/Dermal		Excavation			Yes	Remediation of the 219 40th Street parcel was conducted in 2012-2014, as part of the remediation off-site impacts located along the north side of 40th Street. Approximately 30,500 tons of soil was excavated during the remedial action and transported off-site for thermal desorption and disposal. The impacts were present at a depth of approximately 4 to 6 feet. An RAO for soils at the parcel was issued on 10/28/2015.
AOC-1I	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	223 40th Street, Block 39.04, Lots 13 and 14. Contamination associated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	RAO-A (Unrestricted Use)	10/28/2015			Soil	PAHs	VO		Remediation Standards	Ingestion/Dermal		Excavation			Yes	Remediation of the 223 40th Street parcel was conducted in 2012-2014, as part of the remediation off-site impacts located along the north side of 40th Street. An area of less than 1,200 square feet on the northern portion of the 223 40th Street parcel remained in place after the completion of the remedial action. Approximately 30,500 tons of soil was excavated during the remedial action and transported off-site for thermal desorption and disposal. An RAO for the parcel was issued on 10/28/2015.

Case Name: Sea Isle City Coal Gas

PI #: G000006130

IMPORTANT: *1) Do not delete or copy and paste across multiple columns because it can disrupt hidden equations.*
2) If pasting from a Word document, use the Paste option: ***Match Destination Formatting***
3) If the text turns ***red*** *you have exceeded the character limit for that column*

Case Inventory Document Version 1.4 02/23/17

AOC ID	AOC Type	AOC Description	Confirmed Contamination	AOC Status	Status Date	Incident #	DEP AOC Number	Contaminated Media	Contaminants of Concern	Additional Contaminants of Concern	Additional Contaminants of Concern	Applicable Remediation Standard	Exposure Route	Additional Exposure Route	RA Type	Additional RA Type	Additional RA Type	Was an Order of Magnitude Evaluation Conducted?	Activity
AOC-1J	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	227 40th Street, Block 39.04, Lots 110 and 120. Contamination associated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	RAO-A (Unrestricted Use)	10/28/2015			Soil	PAHs	VO		Remediation Standards	Ingestion/Dermal		Excavation			Yes	Remediation of the 227 40th Street parcel was conducted in 2012-2014, as part of the remediation off-site impacts located along the north side of 40th Street. Approximately 30,500 tons of soil was excavated during the remedial action and transported off-site for thermal desorption and disposal. An RAO for soils at the parcel was issued on 10/28/2015.
AOC-1K	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	218 39th Street, Block 39.04, Lots 31 and 32. Contamination associated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	RAO-A (Unrestricted Use)	10/28/2015			Soil	PAHs			Remediation Standards	Ingestion/Dermal		Excavation			Yes	Remediation of soil impacts at the 218 39th Street parcel was completed in 2012. Approximately 3,264 tons of soil were excavated and transported off-site for thermal desorption treatment and disposal. The excavation work included small portions of Block 39.04, Lots 9, 16, and 33. An RAO for soils at the parcel was issued on 10/28/2015.
AOC-1L	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	213 39th Street, Block 38.04, Lots 17 and 18. Contamination associated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	NFA-A DEP Issued (Unrestricted Use)	1/10/2012			Soil	PAHs	VO		Remediation Standards	Ingestion/Dermal		Excavation			Yes	Soil excavation to remediate soil impacts at 213 39th Street was conducted in December 2010. A total of 1,153 tons of soil were excavated and transported off-site for thermal desorption treatment and disposal. The excavation was backfilled with clean fill material A Remedial Action Report documenting remediation activities was prepared in August 2011 and the NJDEP issued an NFA on the parcel on 1/10/2012.
AOC-1M	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	217 39th Street, Block 38.04, Lots 15 and 16. Contamination associated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	NFA-A DEP Issued (Unrestricted Use)	1/10/2012			Soil	PAHs	VO		Remediation Standards	Ingestion/Dermal		Excavation			Yes	Soil excavation to remediate soil impacts at 217 39th Street was conducted in December 2010. A total of 1,153 tons of soil were excavated and transported off-site for thermal desorption treatment and disposal. The excavation was backfilled with clean fill material A Remedial Action Report documenting remediation activities was prepared in August 2011,and the NJDEP issued an NFA on the parcel on 1/10/2012
AOC-1N	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	3820 Central Avenue, Block 38.04, Lots 41, 42, and 43. Contamination associated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	RI	3/13/2014			Soil	PAHs	VO		Remediation Standards	Ingestion/Dermal					Yes	Delineation of soil impacts at the site was completed by March 2014. JCP&L is currently in negotiations with the property owner to establish a deed restriction for the site, to allow for the impacted soil to remain in place. An RAO will be prepared and filed for this AOC after the Deed Notice is estabilished and a RAP-Soil is issued by NJDEP.
AOC-1O	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	210 40th Street, Block 40.04, Lot 22. Contamination associated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	NFA-A DEP Issued (Unrestricted Use)	5/19/2006			Soil	PAHs	VO		Soil Cleanup Criteria (MUST have RAW approved for AOC prior to 12/2/2008)	Ingestion/Dermal		Excavation			Yes	Soil excavation work completed in December 2003 and February 2004, with a total of 536 tons of impacted soil excavated and transported off-site for thermia desoption treatment and disposal. The Remedial Action Report documenting remediation activities was submitted to the NJDEP in April 2004. An unconditional NFA for soil was issued by the NJDEP on May 19, 2006.
AOC-1P	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	218 40th Street, Block 40.04, Lot 21. Contamination assoicated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	RAR	12/1/2019			Soil	PAHs	VO		Remediation Standards	Ingestion/Dermal					Yes	Delineation of soil impacts at the site was completed by March 2014. Additional sampling performed between March 2014 and May 2015 did not reveal the presence of MGP-related impacts from ground surface to a depth of five feet. A deed restriction for the site is being filed as a part of RAR. An RAO will be prepared and filed for this AOC after the Deed Notice is estabilished and a RAP-Soil is issued by NJDEP.
AOC-1Q	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	220 40th Street, Block 40.04, Lot 20. Contamination assoicated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	RAR	12/1/2019			Soil	PAHs	VO		Remediation Standards	Ingestion/Dermal					Yes	Delineation of soil impacts at the site was completed by March 2014. Additional sampling performed between March 2014 and May 2015 did not reveal the presence of MGP-related impacts from ground surface to a depth of five feet. A deed restriction for the site is being filed as a part of RAR. An RAO will be prepared and filed for this AOC after the Deed Notice is estabilished and a RAP-Soil is issued by NJDEP.
AOC-1R	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	39th Street Right of Way. Contamination associated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	RI	3/13/2014			Soil	PAHs	VO		Remediation Standards	Ingestion/Dermal					Yes	Delineation of soil impacts at the site was completed by March 2014. The impacted areas are currently capped with either concrete, asphalt, or top soil. Limited excavation and removal of impacted soil was completed in 2017 as part of a sanitary sewer line replacement project. Monitored natural attenuation proposed for remaining groundwater impacts. Agreement from Sea Isle City to leave the remaining impacts in place for the right-of-way was made as part of the 39th Street Sewer Reconstruction project in 2016.
AOC-1S	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	Central Avenue Right of Way. Contamination associated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	RI	3/13/2014			Soil	PAHs	VO		Remediation Standards	Ingestion/Dermal					Yes	Delineation of soil impacts at the site was completed by March 2014. The impacted areas are currently capped with either concrete, asphalt, or top soil. Limited soil excavation was completed near the intersection of Central Avenue and 39th Street in 2017 as part of a sanitary sewer replacement project. Agreement from Sea Isle City to leave the remaining impacts in place for the right-of-way was made as part of th 39th Street Sewer Reconstruction project in 2016. An RAO will be prepared and filed for this AOC after the Notice in Lieu of Deed Notice is established and a RAP-Soil is issued by NJDEP.

Case Name: Sea Isle City Coal Gas

PI #: G000006130

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2) If pasting from a Word document, use the Paste option: ***Match Destination Formatting***

3) If the text turns ***red*** *you have exceeded the character limit for that column*

Case Inventory Document Version 1.4 02/23/17

AOC ID	AOC Type	AOC Description	Confirmed Contamination	AOC Status	Status Date	Incident #	DEP AOC Number	Contaminated Media	Contaminants of Concern	Additional Contaminants of Concern	Additional Contaminants of Concern	Applicable Remediation Standard	Exposure Route	Additional Exposure Route	RA Type	Additional RA Type	Additional RA Type	Was an Order of Magnitude Evaluation Conducted?	Activity
AOC-1T	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	40th Street Right of Way. Contamination associated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	RI	3/13/2014			Soil	PAHs	VO		Remediation Standards	Ingestion/Dermal					Yes	Delineation of soil impacts at the site was completed by March 2014. Sampling completed in 2017 did not reveal the presence of soil exceedances from 0 to 4 feet. The impacted areas are currently capped with either concrete, asphalt, or top soil. Agreement from Sea Isle City to leave the remaining impacts in place for the right-of-way was made as part of the 39th Street Sewer Reconstruction project in 2016. An RAO will be prepared and filed for this AOC after the Notice in Lieu of Deed Notice is established and a RAP-Soil is issued by NJDEP.
AOC-1U	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	209 40th Street, Block 39.04, Lot 10.02. Contamination assoicated with historical Manufactured Gas Plant (MGP) that operated at the 210 39th Street parcel between the late 1800s and early 1900s.	Yes	RAO-A (Unrestricted Use)	11/4/2020			Soil	PAHs	VO		Remediation Standards	Ingestion/Dermal		Excavation			Yes	Remediation of the 209 40th Street parcel was conducted in 2012-2014, as part of the remediation off-site impacts located along the north side of 40th Street. Approximately 30,500 tons of soil was excavated during the remedial action and transported off-site for thermal desorption and disposal. The impacts were present at a depth of approximately 4 to 6 feet. An RAO for the parcel was issued on 10/28/2015.
AOC-2	Discharge and disposal area - Area of discharge pursuant to N.J.A.C. 7:1E	Groundwater impacts associated with historical Manufactured Gas Plant that operated at 210 39th Street parcel between the late 1800s and the early 1900s. An RAO will be prepared and filed for this AOC after a RAP-Ground Water is issued by NJDEP.	Yes	RAR	11/4/2020			Ground Water	PAHs	VO		Remediation Standards	Ingestion/Dermal		Monitored Natural Attenuation				Groundwater delineation had been completed and documented in Supplemental Remedial Investigation Report submitted to NJDEP in April 2008. Results from eight rounds of quarterly groundwater sampling show that contamination is limited to benzene. Additional sampling completed in 2019 and 2020 confirmed benzene exceedance and refined the limits of the CEA.

Appendix B

Remedial Action Permit Application

New Jersey Department of Environmental Protection
Site Remediation and Waste Management Program

REMEDIAL ACTION PERMIT INITIAL APPLICATION – GROUND WATER

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Sea Isle City Coal Gas (JCP&L and NJNG)

List All AKAs:

Street Address: 210 39th Street

Municipality: Sea Isle City (Township, Borough, or City)

County: Cape May Zip Code: 08243

Program Interest (PI) Number(s): G000006130

Case Tracking Number(s): LSR120001

Municipal Block(s) and Lot(s) of the site/property: Block 39.04, Lots 22, 23 and 24

Is this site a Federal case? ☐ Yes ☒ No

If "**Yes**", indicate the Federal Case Type:

☐ **RCRA GPRA 2020** ☐ **CERCLA/NPL** ☐ **USDOD** ☐ **USDOE**

☐ Other (explain):

SECTION B. INITIAL GROUND WATER REMEDIAL ACTION PERMIT APPLICATION

1. Reason for Initial Ground Water Remedial Action Permit (RAP) Application: (*check one*)

☒ **To support a Response Action Outcome (RAO)**

☐ **To support a Post-No Further Action (NFA)**

Note: This permit application will not be processed until all past RAP annual fees and the Remedial Action Protectiveness/Biennial-Certification fee have been paid in full.

☐ **Subdivision of an existing Ground Water RAP**

Has the Ground Water RAP Modification or Termination Application also been submitted for the original parcel(s)? ☐ Yes ☐ No

If "**No**", please explain why in Section K below.

☐ **Other (*provide reason - see instructions*):**

2. The appropriate Initial Ground Water RAP Application fee must be enclosed with this application.

	Effective on or Before June 30, 2019	**Effective July 1, 2019**
Ground Water Natural Attenuation RAP Fee – Initial	$2,100.00	$990.00
Ground Water Active System RAP Fee – Initial	$3,055.00	$550.00

SECTION C. FEE BILLING CONTACT PERSON

Business Name: Jersey Central Power & Light Company

First Name of Contact: Frank Last Name of Contact: Lawson

Title: Supervisor - Site Remediation

Phone Number: (973) 401-8309 Ext.: Fax:

Mailing Address: Jersey Central Power & Light Co., 300 Madison Avenue, P.O. Box 1911

Municipality: Morristown State: New Jersey Zip Code: 07962

Email Address: flawson@firstenergycorp.com

SECTION D. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION – CO-PERMITTEE

☐ Addendum for additional Person Responsible for Conducting the Remediation has been completed.

Affiliation/Name of Organization: Jersey Central Power & Light Company

First Name of Contact: Frank Last Name of Contact: Lawson

Title: Supervisor - Site Remediation

Phone Number: (973) 401-8309 Ext.: Fax:

Mailing Address: Jersey Central Power & Light Co., 300 Madison Avenue, P.O. Box 1911

Municipality: Morristown State: New Jersey Zip Code: 07962

Email Address: flawson@firstenergycorp.com

☒ Check if the Person Responsible for Conducting the Remediation has Primary Responsibility for Permit Compliance

SECTION E. CURRENT OWNER OF THE SITE – CO-PERMITTEE

☐ Addendum for additional Owner of the Site has been completed.

Affiliation/Name of Organization: Jersey Central Power & Light Company

First Name of Contact: Frank Last Name of Contact: Lawson

Title: Supervisor - Site Remediation

Phone Number: (973) 401-8309 Ext.: Fax:

Mailing Address: Jersey Central Power & Light Co., 300 Madison Avenue, P.O. Box 1911

Municipality: Morristown State: New Jersey Zip Code: 07962

Email Address: flawson@firstenergycorp.com

☒ Check if the owner has Primary Responsibility for Permit Compliance

SECTION F. ATTACHED DOCUMENTS

Attach the following documents:

Note: All electronic copies should be provided in Adobe PDF file format on a compact disc (CD) except the Ground Water Monitoring Plan which should be provided in MS Excel file format on a CD.

☒ Hard copy ***and*** electronic copy of the completed Initial Ground Water RAP Application using the current form on the NJDEP Website.

☒ Remedial Action Report (RAR) submitted through the online portal unless this application is related to a Post-NFA Case. For Post-NFA Cases, submit an electronic copy of the RAR and any other pertinent reports/letters (e.g., Remedial Action Workplan (RAW) Approval Letters).

Provide the Licensed Site Document (LSD) Activity Number for the RAR online submission: LSR120001

☒ Electronic copy of a map or the location in the RAR (*Section #s/Figure #s)* of the map(s) showing area of concern/source and showing and/or explaining horizontal and vertical delineation of the ground water contamination.

Location in the RAR (*Section #s/Figure #s)*: Figures 18 and 19

☒ Electronic copy of ground water contour maps for at least the last four ground water sampling events or the location in the RAR with these maps.

Location in the RAR (*Figure #s)*: Figures 14, 15, 16 and 17

☒ Electronic copy of a table summarizing the monitoring well construction details (below ground surface (bgs)) for all the monitoring wells at the site or the location in the RAR with this table.

Location in the RAR (*Table #)*: Table 1

☒ Electronic copy of the Classification Exception Area/Well Restriction Area (CEA/WRA) Fact Sheet Form.

☒ Electronic copy of the Ground Water Monitoring Plan (in MS Excel file format).

☐ Electronic copy of the NFA Letter (*Post-NFA Cases only*), if applicable.

☐ Electronic copy of the Vapor Intrusion Long-Term Monitoring Plan, if applicable.

☐ Electronic copy of the Operation, Maintenance, and Monitoring (OMM) Plan for the vapor intrusion engineering control(s)/mitigation system(s) that are currently in place, if applicable.

☐ Electronic copy of the OMM Plan for the Point of Entry Treatment (POET) water system(s) that are currently in place, if applicable.

☐ Electronic copy of the completed Remediation Cost Review and RFS/FA Form with a detailed cost estimate, if applicable, including:

Only Check One:

☐ **Original** Financial Assurance mechanism (*hard copy*), including any Amendments, is attached.

☐ Date the original Financial Assurance mechanism was submitted to the NJDEP:

☐ An electronic copy of the Remediation Funding Source (RFS) mechanism, is included if using an existing RFS mechanism as the Financial Assurance, and an amendment to conform to the Financial Assurance format.

☐ Electronic copy of the homeowner or condominium association's annual budget that includes funds for the operation, maintenance, and monitoring of the engineering control(s) at the site, if applicable.

SECTION G. MONITORING, MAINTENANCE AND EVALUATION INFORMATION

1. Has the ground water contamination been horizontally delineated in all directions at the site? ..... ☒ Yes ☐ No

   If "**No**", provide the location in the RAR (*Section #*) that supports the variance from N.J.A.C. 7.26E-4.3(a)4: .....

2. Has the ground water contamination been vertically delineated at the site? ..... ☒ Yes ☐ No

   If "**No**", provide the location in the RAR (*Section #*) that supports the variance from N.J.A.C. 7.26E-4.3(a)4: .....

3. Type of Ground Water Remediation

   a. ☒ **Monitored Natural Attenuation (MNA)**

      i) Is there a decreasing trend of contaminant concentrations in the ground water? ..... ☒ Yes ☐ No

      If "**Yes**", provide the location in the RAR (*Section #*) that documents this issue.: ..... Section 5.6 of Groundwater RAR

      If "**No**", provide the location in the RAR (*Section #*) that justifies the protectiveness of the remedy.....

      ii) Is the ***behavior*** of the ground water contaminant plume considered to be shrinking or stable? ..... ☒ Yes ☐ No

      If "**Yes**", check off only one of the following: ☐ Shrinking ☒ Stable and provide the location in the RAR (*Section #*) that documents this issue.: ..... Section 5.6 of Groundwater RAR

If "**No**", provide the location in the RAR (*Section #*) that justifies the protectiveness of the remedy: _____

iii) Have secondary lines of evidence been collected to support the MNA proposal? ☐ Yes ☒ No

If "**Yes**", provide the location in the RAR (*Section #*) that documents this issue.: _____

iv) Have tertiary lines of evidence been collected to support the MNA proposal? ☐ Yes ☒ No

If "**Yes**", provide the location in the RAR (*Section #*) that documents this issue.: _____

v) Is the ground water plume reaching the sentinel wells? ☐ Yes ☒ No

If "**Yes**", provide the location in the RAR (*Section #*) that justifies the protectiveness of the remedy since the sentinel well(s) should be below the Ground Water Quality Standards (GWQS) or if you are using an alternate method that is not a sentinel monitoring well: _____

vi) Has all soil contamination in the unsaturated zone been remediated to the applicable numeric Soil Remediation Standard for all area(s) of concern associated with this CEA? ☒ Yes ☐ No ☐ N/A

If "**No**", provide the location in the RAR (*Section #*) that justifies the protectiveness of the remedy: _____

vii) Has all free and/or residual product in the unsaturated and saturated zones, as determined pursuant to N.J.A.C. 7:26E-5.1(e), been treated or removed for all area(s) of concern associated with this CEA? ☒ Yes ☐ No ☐ N/A

If "**No**", provide the location in the RAR (*Section #*) that justifies the protectiveness of the remedy: _____

b. ☐ **Active Remediation**

Provide the type of remediation: _____

i) Is there a decreasing trend of contaminant concentrations in the ground water? ☐ Yes ☐ No

If "**Yes**", provide the location in the RAR (*Section #*) that documents this issue.: _____

If "**No**", is the ground water plume considered stable? ☐ Yes ☐ No

Provide the location in the RAR (*Section #*) that justifies the protectiveness of the remedy: _____

ii) Is the ground water plume reaching the sentinel wells? ☐ Yes ☒ No

If "**Yes**", provide the location in the RAR (*Section #*) that justifies the protectiveness of the remedy since the sentinel well(s) should be below the GWQS or if you are using an alternate method that is not a sentinel monitoring well: _____

iii) Is the ground water remedial action performing as designed? ☐ Yes ☐ No

If "**No**", provide the location in the RAR (*Section #*) that justifies the protectiveness of the remedy: _____

iv) Indicate the expected duration of the active remediation: _____ (years)

4. Has a Technical Impracticability (TI) Determination been submitted? ☐ Yes ☒ No

If "**Yes**", provide the location in the RAR (*Section #*) that documents this issue.: _____

5. Has any ground water contamination migrated onto the site/property from an off-site source and that is not being included in the Ground Water RAP? ☐ Yes ☒ No

If "**Yes**", provide the communication center number that was received when called into the Hotline and the location in the RAR (Section #) that documents this issue: _____

6. Is any ground water contamination being attributed to natural background conditions and that is not being included in the Ground Water RAP? ☐ Yes ☒ No

   If "**Yes**", provide the location in the RAR (*Section #*) that documents this issue: _____

7. Check the **Monitoring Schedule** you plan to apply:

   ☐ Monthly ☐ Annual
   ☐ Quarterly ☐ Biennial
   ☐ Semi Annual ☐ Other: _____

SECTION H. FINANCIAL ASSURANCE

1. Does the remedial action include a ground water or vapor intrusion engineering control? ☐ Yes ☒ No

   If "**No**", proceed to the next section.

2. Are any of the entities identified in Section D or E exempt from establishing Financial Assurance pursuant to N.J.A.C. 7:26C-7.10(c)? ☐ Yes ☐ No

   If "**Yes**", check the exemption(s) that applies.

Person Responsible for Conducting the Remediation – Co-Permittee	Current Owner of the Site – Co-Permittee	
☐	☐	Government entity
☐	☐	A person not liable pursuant to the Spill Act that purchased contaminated property before May 7, 2009
☐	☐	A person that conducted remediation at their primary or secondary residence
☐	☐	Owner or operator of a child care center
☐	☐	Public school or private school
☐	☐	Owner or operator of a small business responsible for conducting remediation at the location of the business

If all of the entities identified in Section D or E are exempt, proceed to the next section.

3. Is the current owner of the site either a homeowner association or a condominium association pursuant to the New Jersey Common Interest Association Act, N.J.S.A. 46:8A-1 et seq.? ☐ Yes ☐ No

   *If "**Yes**", and the association is identified in Section E of this RAP Application, an electronic copy of the association's annual budget that includes funds for the operation, maintenance, and monitoring of the engineering control(s) at the site should be attached as indicated in Section F above.*

4. Identify the estimated cost of the operation, maintenance, and monitoring of the engineering control(s) at the site: $ _____

5. Are you using an existing RFS mechanism for the site as the Financial Assurance? ☐ Yes ☐ No

   If "**Yes**", have <u>all</u> the following criteria been met? ☐ Yes ☐ No

   a. The amount of funds needed to operate, maintain, and monitor the engineering control(s) at the site for the duration of the CEA or for 30 years (minimum of $30,000 for a 30-year time frame) if the duration of the CEA is indeterminant;

   b. The amount of funds in the RFS equals the amount of funds required to be posted for RFS and Financial Assurance; and

   c. The RFS is not in the form of a self-guarantee.

   Identify the full amount of the current RFS: $ _____

6. Identify the full amount established as a Financial Assurance: ..... $ _____

As indicated in Section F above, an electronic copy of the completed Remediation Cost Review and RFS/FA Form with a detailed cost estimate should be attached. Also, please be sure to provide one of the following as indicated in Section F above: the *original* Financial Assurance mechanism (attach hard copy), including any Amendments, to the Ground Water RAP Application; the date the original Financial Assurance mechanism was submitted to the NJDEP; or an electronic copy of the existing RFS mechanism that is being used as the Financial Assurance and the amendment to conform to the Financial Assurance format.

7. What is the Financial Assurance Mechanism? *(check all that apply)*

☐ Remediation Trust Fund ☐ Line of Credit ☐ Surety Bond
☐ Environmental Insurance Policy ☐ Letter of Credit

8. Contact information at the financial institution for the Financial Assurance:

Financial Institution: _____

First Name of Contact: _____ Last Name of Contact: _____

Title: _____

Phone Number: _____ Ext.: _____ Fax: _____

Mailing Address: _____

Municipality: _____ State: _____ Zip Code: _____

Email Address: _____

SECTION I. LAND USE *(for overlying CEA)*

1. **Current Site Land Use** *(check all that apply)*

☐ Industrial ☐ Park or Recreational Use ☐ Child Care Facility
☒ Residential ☐ Agricultural ☐ Hospital
☐ Commercial ☐ Road/Right of Way ☒ Vacant
☐ Governmental Facility ☐ School ☐ Other _____

2. **Off-site Land Use** *(check all that apply for Blocks/Lots included in the areal extent of the CEA)*

☐ Industrial ☐ Park or Recreational Use ☐ Child Care Facility
☒ Residential ☐ Agricultural ☐ Hospital
☐ Commercial ☒ Road/Right of Way ☒ Vacant
☐ Governmental Facility ☐ School ☐ Other _____

SECTION J. AFFECTED RECEPTOR SUMMARY

1. Are there any buildings with an Indeterminate Vapor Intrusion Pathway status? ..... ☐ Yes ☒ No

If "**Yes**", provide the location in the RAR (*Section # and Figure #*) that documents this issue: ..... _____

2. Is there soil gas contamination above the Soil Gas Screening Levels beneath any buildings that require long-term monitoring? ..... ☐ Yes ☒ No

If "**Yes**", provide the location in the RAR (*Section # and Figure #*) that documents this issue: ..... _____

As indicated in Section F above, an electronic copy of the Vapor Intrusion Long-Term Monitoring Plan should be attached.

3. Are any vapor intrusion engineering controls/mitigation systems currently installed at any buildings as a result of this ground water contamination? ☐ Yes ☒ No

If "**Yes**", indicate the type of engineering control that was implemented: *(check all that apply)*

- ☐ Subsurface Depressurization System
- ☐ Subsurface Ventilation System
- ☐ Soil Vapor Extraction System
- ☐ HVAC Positive Pressure
- ☐ Other (specify): _____

As indicated in Section F above, an electronic copy of the OMM Plan for the vapor intrusion engineering control(s)/mitigation system(s) should be attached. The OMM Plan should clearly identify the building(s) and/or structure(s) and vapor intrusion engineering control(s)/mitigation system(s) that are in place (e.g., active or passive), including the address and block and lot of each impacted property.

4. Are any Point of Entry Treatment (POET) water systems currently installed at any buildings as a result of this ground water contamination? ☐ Yes ☒ No

If "**Yes**", an electronic copy of the OMM Plan for the POET water system(s) should be attached as indicated in Section F above. The OMM Plan should provide the address and lot and block of each property with a POET water system in place. The sampling of the POET water system(s) should be included in the Ground Water Monitoring Plan for the site.

5. Are any potable wells that do not have a POET water system currently being sampled regularly as a result of this ground water contamination? ☐ Yes ☒ No

If "**Yes**", include these potable wells in the Ground Water Monitoring Plan for the site.

SECTION K. OTHER INFORMATION PROVIDED

List any other pertinent information to support the Initial Ground Water RAP Application

Due to the way the groundwater flow on this barrier island is influenced by the stormwater collection and discharge system in and below the roadway, MW-17, the sentinel well, was chosen as the downgradient/sentinel well because it has historically had the lowest groundwater elevation along this preferential pathway.

SECTION L. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation:

Jersey Central Power & Light Company

Representative First Name: Frank Representative Last Name: Lawson

Title: Supervisor - Site Remediation

Phone Number: (973) 401-8309 Ext.: Fax:

Mailing Address: Jersey Central Power & Light Co., 300 Madison Avenue, P.O. Box 1911

City/Town: Morristown State: New Jersey Zip Code: 07962

Email Address: flawson@firstenergycorp.com

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Date:

Name/Title: Frank Lawson/Supervisor - Site Remediation

SECTION M. CURRENT OWNER OF THE SITE INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible who owns the site:

Jersey Central Power & Light Company

Representative First Name: Frank Representative Last Name: Lawson

Title: Supervisor - Site Remediation

Phone Number: (973) 401-8309 Ext.: Fax:

Mailing Address: Jersey Central Power & Light Co., 300 Madison Avenue, P.O. Box 1911

City/Town: Morristown State: New Jersey Zip Code: 07962

Email Address: flawson@firstenergycorp.com

This certification shall be signed by the person who owns the site and is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Date:

Name/Title: Frank Lawson/Supervisor - Site Remediation

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

SECTION N. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 575013

First Name: Ropert P. Last Name: Blauvelt

Phone Numbers: (973) 873-7127 Ext.: Fax: (973) 509-9625

Mailing Address: 300 Broadacres Drive, Suite 100

Municipality: Bloomfield State: New Jersey Zip Code: 07003

Email Address: rblauvelt@geiconsultants.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with N.J.S.A. 58:10C-14, and N.J.S.A. 58:10B-1.3b(1) and (2).

(1) I certify, as a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C-1 et seq. to conduct business in New Jersey, that for the remediation described in this submission, and all attachments included in this submission, I personally: Managed, supervised, or performed the remediation conducted at this site that is described in this submission, and all attachments included in this submission; and/or periodically reviewed and evaluated the work performed by other persons that forms the basis for the information in this submission; and/or completed the work of another site remediation professional, licensed or not, after having: (1) reviewed all available documentation on which I relied; (2) conducted a site visit and observed the then-current conditions and verified the status of as much of the work as was reasonably observable; and (3)concluded, in the exercise of my independent professional judgment, that there was sufficient information upon which to complete any additional phase of remediation and prepare workplans and reports related thereto.

(2) I certify:

- *That I have read this submission and all attachments to this submission;*
- *That in performing the professional services as the licensed site remediation professional for the entire site or each area of concern, I adhered to the professional conduct standards and requirements governing licensed site remediation professionals provided in N.J.S.A. 58:10C-16;*
- *That the remediation conducted at the entire site or each area of concern, that is described in this submission and all attachments to this submission, was conducted pursuant to and in compliance with the remediation requirements in N.J.S.A. 58:10C-14.c;*
- *That the remediation described in this submission, and all attachments to this submission, was conducted pursuant to and in compliance with the regulations of the Site Remediation Professional Licensing Board at N.J.A.C. 7:26I; and*
- *That the information contained in this submission and all attachments to this submission is true, accurate, and complete.*

(3) I certify, when this submission includes a response action outcome, that the entire site or each area of concern has been remediated in compliance with all applicable statutes, rules, and regulations and is protective of public health and safety and the environment.

(4) I certify that no other person is authorized or able to use any password, encryption method, or electronic signature that the Board or the Department have provided to me.

(5) I certify that I understand and acknowledge that:

- *If I knowingly make a false statement, representation, or certification in any document or information I submit to the Department I may be subject to civil and administrative enforcement pursuant to N.J.S.A. 58:10C-17.a.1(a)through (f) by the Board, including but not limited to license suspension, revocation, or denial of renewal; and*
- *If I purposely, knowingly, or recklessly make a false statement, representation, or certification in any application, form, record, document or other information submitted to the Department or required to be maintained pursuant to the Site Remediation Reform Act, I shall be guilty, upon conviction, of a crime of the third degree and shall, notwithstanding the provisions of subsection b. of N.J.S.2C:43-3, be subject to a fine of not less than $5,000 nor more than $75,000 per day of violation, or by imprisonment, or both.*

(6) I certify that I have read this certification prior to signing, certifying, and making this submission.

LSRP Signature: Date:

LSRP Name: Robert P. Blauvelt

Company Name: GEI Consultants, Inc.

ADDENDUM A

Additional Persons Responsible For Conducting Remediation

ADDENDUM TO SECTION D. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION – CO-PERMITTEE

Affiliation/Name of Organization: _____

First Name of Contact: _____ Last Name of Contact: _____

Title: _____

Phone Number: _____ Ext.: _____ Fax: _____

Mailing Address: _____

Municipality: _____ State: _____ Zip Code: _____

Email Address: _____

☐ Check box if the Additional Person Responsible for Conducting the Remediation has Primary Responsibility for Permit Compliance

1. Does the remedial action include a ground water or vapor intrusion engineering control? ..... ☐ Yes ☐ No

   If "**No**", proceed to next section.

2. Are you exempt from establishing financial assurance pursuant to N.J.A.C. 7:26C-7.10(c)? ..... ☐ Yes ☐ No

   If "**Yes**", check the exemption(s) that applies:

   - ☐ Government entity
   - ☐ A person not liable pursuant to the Spill Act that purchased contaminated property before May 7, 2009
   - ☐ A person that conducted remediation at their primary or secondary residence
   - ☐ Owner or operator of a child care center
   - ☐ Public school or private school
   - ☐ Owner or operator of a small business responsible for conducting remediation at the location of the business

3. Identify the estimated cost of the operation, maintenance, and monitoring of the engineering control(s) at the site: ..... $ _____

4. Are you using an existing RFS mechanism for the site as the Financial Assurance? ..... ☐ Yes ☐ No

   If "**Yes**", have <u>all</u> of the following criteria been met? ..... ☐ Yes ☐ No

   a. The amount of funds needed to operate, maintain, and monitor the engineering control(s) at the site for the duration of the CEA or for 30 years (minimum of $30,000 for a 30-year time frame) if the duration of the CEA is indeterminant;
   b. The amount of funds in the RFS equals the amount of funds required to be posted for RFS and Financial Assurance; and
   c. The RFS is not in the form of a self-guarantee.

   Identify the full amount of the current RFS ..... $ _____

5. Identify the full amount established as a Financial Assurance: ..... $ _____

   As indicated in Section F above, *an electronic copy of the completed Remediation Cost Review and RFS/FA Form with a detailed cost estimate should be attached.* Also, please be sure to provide one of the following as indicated in Section F above: attach the original Financial Assurance mechanism (hard copy), including any Amendments, to the Ground Water RAP Application; the date the original Financial Assurance mechanism was submitted to the NJDEP; or an electronic copy of the existing RFS mechanism that is being used as the Financial Assurance and the amendment to conform to the Financial Assurance format.

6. What is the Financial Assurance Mechanism? *(check all that apply)*

   ☐ Remediation Trust Fund ☐ Line of Credit ☐ Surety Bond

   ☐ Environmental Insurance Policy ☐ Letter of Credit

ADDENDUM A

7. Contact information at the financial institution for the Financial Assurance:

Financial Institution: _____

First Name of Contact: _____ Last Name of Contact: _____

Phone Number: _____ Ext: _____ Fax: _____

Mailing Address: _____

City/Town: _____ State: _____ Zip Code: _____

Email Address: _____

ADDENDUM TO SECTION L. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation:

_____

Representative First Name: _____ Representative Last Name: _____

Title: _____

Phone Number: _____ Ext.: _____ Fax: _____

Mailing Address: _____

City/Town: _____ State: _____ Zip Code: _____

Email Address: _____

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: _____ Date: _____

Name/Title: _____

ADDENDUM B

Additional Property Owners

ADDENDUM TO SECTION E. CURRENT OWNER OF THE SITE – CO-PERMITTEE

Affiliation/Name of Organization: _____

First Name of Contact: _____ Last Name of Contact: _____

Title: _____

Phone Number: _____ Ext.: _____ Fax: _____

Mailing Address: _____

Municipality: _____ State: _____ Zip Code: _____

Email Address: _____

☐ Check box if the owner has Primary Responsibility for Permit Compliance

1. Does the remedial action include a ground water or vapor intrusion engineering control? ..... ☐ Yes ☐ No

   If "**No**", proceed to next section.

2. Are you exempt from establishing financial assurance pursuant to N.J.A.C. 7:26C-7.10(c)? ..... ☐ Yes ☐ No

   If "**Yes**", check the exemption that applies, and then proceed to the next section:

   - ☐ Government entity
   - ☐ A person not liable pursuant to the Spill Act that purchased contaminated property before May 7, 2009
   - ☐ A person that conducted remediation at their primary or secondary residence
   - ☐ Owner or operator of a child care center
   - ☐ Public school or private school
   - ☐ Owner or operator of a small business responsible for conducting remediation at the location of the business

3. Do you represent a homeowner association or a condominium association pursuant to the New Jersey Common Interest Association Act, N.J.S.A. 46:8A-1 et seq.? ..... ☐ Yes ☐ No

   If "**Yes**", an electronic copy of the association's annual budget that includes funds for the operation, maintenance, and monitoring of the engineering control(s) at the site should be attached as indicated in Section F above.

4. Identify the estimated cost of the operation, maintenance, and monitoring of the engineering control(s) at the site: ..... $ _____

5. Are you using an existing RFS mechanism for the site as the Financial Assurance? ..... ☐ Yes ☐ No

   If "**Yes**", have <u>all</u> the following criteria been met? ..... ☐ Yes ☐ No

   a. The amount of funds needed to operate, maintain, and monitor the engineering control(s) at the site for the duration of the CEA or for 30 years (minimum of $30,000 for a 30-year time frame) if the duration of the CEA is indeterminant;

   b. The amount of funds in the RFS equals the amount of funds required to be posted for RFS and Financial Assurance; and

   c. The RFS is not in the form of a self-guarantee.

   Identify the full amount of the current RFS ..... $ _____

6. Identify the full amount established as a Financial Assurance: ..... $ _____

   As indicated in Section F above, *an electronic copy of the completed Remediation Cost Review and RFS/FA Form with a detailed cost estimate should be attached*. Also, please be sure to provide one of the following as indicated in Section F above: the *original* Financial Assurance mechanism (attach hard copy), including any Amendments, to the Ground Water RAP Application; the date the original Financial Assurance mechanism was submitted to the NJDEP; or an electronic copy of the existing RFS mechanism that is being used as the Financial Assurance and the amendment to conform to the Financial Assurance format.

ADDENDUM B

7. What is the Financial Assurance Mechanism? *(check all that apply)*

☐ Remediation Trust Fund ☐ Line of Credit ☐ Surety Bond
☐ Environmental Insurance Policy ☐ Letter of Credit

8. Contact information at the financial institution for the Financial Assurance:

Financial Institution: _____

First Name of Contact: _____ Last Name of Contact: _____

Phone Number: _____ Ext: _____ Fax: _____

Mailing Address: _____

City/Town: _____ State: _____ Zip Code: _____

Email Address: _____

ADDENDUM TO SECTION M. CURRENT OWNER OF THE SITE INFORMATION AND CERTIFICATION

Full Legal Name of the Person who owns the site:

_____

Representative First Name: _____ Representative Last Name: _____

Title: _____

Phone Number: _____ Ext. _____ Fax: _____

Mailing Address: _____

City/Town: _____ State: _____ Zip Code: _____

Email Address: _____

This certification shall be signed by the person who owns the site and is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: _____ Date: _____

Name/Title: _____

Ground Water Monitoring Plan for Ground Water Remedial Action Permit (version 1.0; May 17, 2012)

INSTRUCTIONS

RESET DATA

PRINT

Case Name: Sea Isle City Coal Gas (JCP&L and NJNG)
Program Interest (PI) ID #: G000006130
Spreadsheet Submission Date: 7/31/2020

Wells to Be Sampled	Type of Well	Easting	Northing	Sampling Schedule	Reporting Schedule	Parameters for Each Well	CASRN
MW-24-2	Area of Concern	437488	118226	Yearly	Biennially	Benzene	71-43-2
MW-29	Plume sampling point	437435	118177	Yearly	Biennially	Benzene	71-43-2
MW-26R	Plume sampling point	437618	118266	Yearly	Biennially	Benzene	71-43-2
MW-25	Plume fringe	437491	118333	Yearly	Biennially	Benzene	71-43-2
MW-27	Plume fringe	437605	118206	Yearly	Biennially	Benzene	71-43-2
MW-23	Plume fringe	437535	118117	Yearly	Biennially	Benzene	71-43-2
MW-19RR	Plume fringe	437338	118309	Yearly	Biennially	Benzene	71-43-2
MW-28	Plume	437475	118036	Yearly	Biennially	Benzene	71-43-2
MW-17	Sentinel	437555	117984	Yearly	Biennially	Benzene	71-43-2

MW No.	Permit Number	Northing	Easting	Inner Cas.	Outer Cas.	Ground El.	Latitude	Longitude	State Plane X
MW11	3600010639	118,073.55	437,418.28	3.83	4.09	4.1	39.157386	-74.692936	437418
MW13	3600010638	118,359.53	437,597.87	4.30	4.49	4.5	39.158172	-74.692306	437598
MW14	3600010636	118,186.82	437,653.79	3.43	3.79	3.8	39.157697	-74.692106	437654
MW15	3600018228	118,304.36	437,725.32	3.51	4.01	4.0	39.158022	-74.691856	437725
MW16	3600018229	118,131.73	437,843.71	3.55	3.88	3.9	39.157547	-74.691436	437844
MW17	3600018230	117,984.07	437,555.12	2.49	3.07	3.1	39.157142	-74.692453	437555
MW18	3600018231	118,521.89	437,228.42	5.83	6.11	6.1	39.158617	-74.693608	437228
MW19RR	E201512109	118,308.55	437,338.20	4.52	5.28	5.3	39.158031	-74.693219	437338
MW20	3600032066	118,028.83	437,360.48	4.69	5.31	5.3	39.157261	-74.693139	437360
MW21	E201213677	118,147.22	437,250.31	4.84	5.18	5.2	39.157586	-74.693531	437250
MW22	E201504977	118,104.95	437,329.24	4.21	4.58	4.6	39.157472	-74.693250	437329
MW23	E201512056	118,117.41	437,534.82	3.58	4.16	4.2	39.157506	-74.692525	437535
MW-24-1	E201512057	118,231.26	437,491.42	4.62	5.19	5.2	39.157819	-74.692681	437491
MW-24-2	E201512058	118,226.24	437,488.35	4.77	5.14	5.1	39.157806	-74.692692	437488
MW25	E201512061	118,333.49	437,491.04	4.00	4.47	4.5	39.158100	-74.692683	437491
MW26	E201512062	118,263.99	437,621.59	2.91	3.39	3.4	39.157908	-74.692222	437622
MW-26R	E201704878	118,266.00	437,618.00	3.32	3.54	3.5	39.157914	-74.692233	437618
MW-27	E201605350	118,206.00	437,605.00	3.21	3.8	3.8	39.157750	-74.692281	437605
MW-28	E201605351	118,036.00	437,475.00	3.45	4.00	4.0	39.157283	-74.692736	437475
MW-29	E201902544	118,177.00	437,435.00	4.34	4.78	4.8	39.157669	-74.692878	437435
PZ1	E201014817	118,308.00	437,598.00	4.20	4.30	4.3	35.158301	-74.692304	437598
PZ2	E201014816	118,213.86	437,746.24	3.29	3.4	3.4	39.157772	-74.691781	437746
PZ3	E201014815	118,192.12	437,620.72	3.46	3.83	3.8	39.157711	-74.692222	437621
PZ4	E201014814	118,228.56	437,631.17	3.15	3.34	3.3	39.157811	-74.692186	437631
PZ5	E201014813	118,027.06	437,493.64	2.56	2.72	2.7	39.157258	-74.692669	437494

MW No.	State Plane Y	Depth to Bottom	Diameter	Screen Interval	Status
MW11	118074	11	2	1-11	To be abandoned
MW13	118360	8	2	1-8	To be abandoned
MW14	118187	10	2	1-10	To be abandoned
MW15	118304	12.5	2	2.5-12.5	To be abandoned
MW16	118132	12.5	2	2.5-12.5	Abandoned
MW17	117984	14.5	2	1.5-14.5	Active
MW18	118522	12	2	2-12	Abandoned
MW19RR	118309	12	2	2-12	Active
MW20	118029	12	2	2-12	To be abandoned
MW21	118147	12	2	2-12	Abandoned
MW22	118105	12	2	2-12	Abandoned
MW23	118117	12	2	2-12	Active
MW-24-1	118231	12	2	2-12	To be abandoned
MW-24-2	118226	23	2	8-23	Active
MW25	118333	12	2	2-12	Active
MW26	118264	12	2	2-12	Abandoned
MW-26R	118266	12		2-12	Active
MW-27	118206	12	2	2-10	Active
MW-28	118036	12	2	2-12	Active
MW-29	118177	12	2	2-12	Active
PZ1	118308	9.8	1	0.5-9.8	Abandoned
PZ2	118214	10	1	5-10	Abandoned
PZ3	118192	8	1	3-8	Abandoned
PZ4	118229	8	1	3-8	Abandoned
PZ5	118027	9	1	4-9	Abandoned

Appendix C

Receptor Evaluation

New Jersey Department of Environmental Protection
Site Remediation and Waste Management Program

RECEPTOR EVALUATION (RE) FORM

Date Stamp
(For Department use only)

SECTION A. SITE

Site Name: Sea Isle Former Manufactured Gas Plant Site (JCP&L Sea Isle City Coal Gas)

Program Interest (PI) Number(s): G000006130

Communication Center Number(s) and/or ISRA number(s) for this submission: (as *many as will fit in the space provided)*

This form must be attached to the Cover/Certification Form if not submitted through a Remedial Phase Online Service

Indicate the type of submission:

☐ Initial RE Submission

☒ Updated RE Submission

Indicate the reason for submission of an updated RE form

☐ Submission of an Immediate Environmental Concern (IEC) source control report;
☐ Submission of a Remedial Investigation Report;
☒ Submission of a Remedial Action Report;

Check if included in updated RE

☐ The known concentration or extent of contamination in any medium has increased;
☐ A new AOC has been identified;
☐ A new receptor is identified;
☐ A new exposure pathway has been identified.

SECTION B. ON SITE AND SURROUNDING PROPERTY USE

1. Identify any sensitive populations/uses that are currently on-site or surrounding property usage within 200 feet of the site property boundary (*check all that apply*):

	On-site	Off-site
None of the following	☐	☐
Residences or residential property	☒	☒
Public or Private Schools Grades K-12	☐	☐
Child care centers	☐	☐
Public parks, playgrounds or other recreation areas	☐	☐
Other sensitive population use(s) Explain _____	☐	☐

If any of the above applies, attach a list of addresses, facility names, type of use, and a map depicting each location relative to the site.

2. Current site uses (*check all that apply*):

☐ Industrial ☐ Residential ☐ Commercial
☐ School or child care ☐ Government ☐ Park or recreational use
☒ Vacant ☐ Agricultural ☐ Other: _____

3. Planned future on-site uses and off-site uses within 200 feet of the site boundary (*check all that apply*):

On-Site	Off-Site		On-Site	Off-Site		On-Site	Off-Site	
☐	☐	Industrial	☒	☒	Residential	☐	☐	Commercial
☐	☐	School or child care	☐	☒	Government	☐	☐	Park or recreational use
☒	☒	Vacant	☐	☐	Agricultural	☐	☒	Other: Public Parking Lot

Provide a map depicting the location of the proposed changes in land use.

SECTION C. DESCRIPTION OF CONTAMINATION

1. Identify if any of the following exist at the site:

Yes	No	
☐	☒	Free product [N.J.A.C. 7:26E-1.8] identified is ☐ LNAPL* or ☐ DNAPL**.
		Date identified: _____
☐	☒	Residual product [N.J.A.C. 7:26E-1.8]
☐	☒	Other primary source materials not identified above (e.g., buried drums, containers, unsecured friable asbestos). See form instructions for additional information.
		Explain: _____

* LNAPL – measured thickness of .01 feet or more

**DNAPL – See *Ground Water Technical Guidance* and *USEPA Assessment and Delineation of DNAPL Source Zones at Hazardous Waste Sites* (attached as Appendix A of the NJDEP GW Guidance) available at: http://www.nj.gov/dep/srp/guidance/#pa_si_ri_gw. Also, see US EPA DNAPL Overview available at: http://cluin.org/contaminantfocus/default.focus/sec/Dense_Nonaqueous_Phase_Liquids_(DNAPLS)/cat/Overview

2. Soil Migration Pathway

Has soil contamination been delineated to the applicable Direct Contact Soil Remediation Standard pursuant to N.J.A.C. 7:26E-4.2? ☒ Yes ☐ No

Are all soils either below the applicable Direct Contact Criteria or under an institutional control (i.e. deed notice)? ☒ Yes ☐ No

3. If this evaluation is submitted with a technical document that includes contaminant summary information, proceed to Section D. Otherwise, attach a brief summary of all currently available data and information to be included in the site investigation or remedial investigation report.

SECTION D. GROUND WATER USE

1. Have all potentially contaminated areas of concern been evaluated to determine if there is a potential that ground water is contaminated pursuant to N.J.A.C. 7:26E-3.5? ☒ Yes ☐ No

   If "**No**," proceed to Section E.

2. Is a ground water investigation required? ☒ Yes ☐ No

   If "**No**," proceed to Section E.

3. Has a groundwater investigation been conducted? ☒ Yes ☐ No

   If "**Yes**":
   Has the laboratory data package been received? ☒ Yes ☐ No

   If the laboratory data package has not been received, provide the expected due date for data: _____ and proceed to Section E.

   If "**No**":
   Proceed to Section E.

4. Is ground water contaminated above the Ground Water Remediation Standards [N.J.A.C.7:9C]? ☒ Yes ☐ No

   If "**Yes**": Provide the date that the laboratory data package was available and confirmed contamination was identified above the Ground Water Remediation Standards. Date: 03/10/2014

   If "**No**": Proceed to Section E.

5. Has ground water contamination been delineated to the applicable Remediation Standard pursuant to N.J.A.C 7:26E-4.3? ☒ Yes ☐ No

6. What is the ground water classification for this site as per N.J.A.C. 7:9C? (*check all that apply*)

☐ Class I-A	☒ Class II-A
☐ Class I-PL Pinelands Protection Area	☐ Class III-A
☐ Class I-PL Pinelands Preservation Area	☒ Class III-B

7. Has a well search been completed? ☒ Yes ☐ No

Date of most recent or updated well search: 04/01/2020

8. Is a completed Well Search Spreadsheet or historical well search table attached and has an electronic copy of the spreadsheet been submitted to srpgis_wrs@dep.nj.gov. ☒ Yes ☐ No

Note: Redacted wells must be excluded from all non-confidential documents including maps, tables, etc. (see RE Instructions).

If "**No**," explain: _____

9. Are any potable or irrigation wells located within ½ mile of the currently known extent of contamination? ☒ Yes ☐ No

If "**Yes**,":

- A door to door survey is required in accordance with [N.J.A.C.7:26E-1.14(a)ii]. Attach results of the door to door survey.
- Identify if any of the following conditions exist based on the well search and door to door survey [N.J.A.C.7:26E-1.14(a)]:

Yes	No	
☒	☐	Potable wells located within 500 feet from the downgradient edge of the currently known extent of contamination.
☒	☐	Potable wells located 250 feet upgradient or 500 feet side gradient of the currently known extent of contamination.
☐	☒	Ground water contamination from the discharge is located within a Tier 1 wellhead protection area (WHPA).

10. Has sampling been conducted of ☐ potable well(s) and /or ☐ non-potable use well(s)? ☐ Yes ☒ No

If "No," provide justification then proceed to Question 12.

No potable or non-potable well use within horizontal and vertical extents of impacts

11. Has contamination been identified in potable well(s), **not attributed to background conditions**, above the Class II Ground Water Remediation Standards or State Safe Drinking Water levels, N.J.A.C 7:1E, whichever is applicable? ☐ Yes ☐ No

If "**Yes**":

- Provide the date laboratory data package was received: _____
- Follow the **IEC** Guidance Document at http://www.nj.gov/dep/srp/guidance/IEC/index.html for required actions and answer the following:
- Has an engineered system response action been completed on all impacted receptors? ☐ Yes ☐ No
  Provide a brief narrative description:

Date completed: _____ NJDEP Case Manager: _____

12. Has contamination been identified in non-potable well(s), **not attributed to background conditions**, above the Class II Ground Water Remediation Standards? ☐ Yes ☒ No

If "**Yes**," provide the date laboratory data package was received: _____

13. Has the ground water use evaluation been completed pursuant to N.J.A.C. 7:26E-1.14? ☒ Yes ☐ No

SECTION E. VAPOR INTRUSION (VI)

1. Indicate if any of the following conditions exist that trigger a Vapor Intrusion investigation. For each condition checked "Yes", provide the date the condition was first identified (e.g. date laboratory data package was available). (*see NJDEP Vapor Intrusion Technical Guidance*)

Yes	No		Date Condition First Identified
☐	☒	Ground water contamination in excess of the NJDEP Vapor Intrusion Ground Water Screening Levels (VIGWSL) and within 30 feet of a building for Petroleum Hydrocarbon Compounds (PHC) or 100 feet for non-PHC compounds ..	_____
☐	☒	Free product within 30 feet of a building for PHC or 100 feet for non-PHC compounds	_____
☐	☒	Soil gas contamination detected at concentrations that exceed the Soil Gas Screening Levels (SGSL)	_____
☐	☒	Indoor air contamination that exceeds the Indoor Air Screening Levels	_____
☐	☒	Wet basement or sump containing free product or ground water containing detectable concentration of volatile organic contaminants	_____
☐	☒	Methane generating conditions causing oxygen deficient or explosion concern	_____
☐	☒	Other human or safety concern from the VI pathway (i.e. elemental mercury, unsaturated soil contamination), *explain below:*	_____

If you checked "No" to <u>all</u> boxes in Question 1., proceed to Section F, "Ecological Receptors", otherwise complete the rest of this section.

2. Has ground water contamination been delineated to the applicable Vapor Intrusion Ground Water Screening Levels pursuant to N.J.A.C 7:26E-4.3? ..... ☐ Yes ☐ No

3. Was a site-specific screening level, modeling or other alternative approach employed for the VI pathway? ..... ☐ Yes ☐ No

4. Identify and locate, on a scaled map, any buildings/sensitive populations that exist within the following distances from ground water contaminant concentrations above the Vapor Intrusion Ground Water Screening Levels or other specific triggers noted in Question 1 above.:

Yes	No	
☐	☐	30 feet of petroleum free product or dissolved petroleum hydrocarbon contamination in ground water
☐	☐	100 feet of any non-petroleum free product (e.g. chlorinated hydrocarbons) or any non-petroleum dissolved volatile organic ground water contamination
☐	☐	Other specific triggers
☐	☐	No buildings exist within the specified distances or other specific triggers

5. Is the vapor intrusion pathway a concern at or adjacent to the site? (if "No," attach justification) ..... ☐ Yes ☐ No

6. Has soil gas sampling of the building(s) been conducted? ..... ☐ Yes ☐ No

   If "**Yes**," has the laboratory data package been received? ..... ☐ Yes ☐ No

      If the data package was received, did constituents exceed the Soil Gas Screening Levels? ..... ☐ Yes ☐ No

   If "**No**," attach technical justification consistent with the NJDEP Vapor Intrusion Technical Guidance.

7. Has indoor air sampling been conducted at the identified building(s)? ..... ☐ Yes ☐ No

   If "**Yes**," has the laboratory data package been received? ..... ☐ Yes ☐ No

      If the data package has been received, did constituents exceed the Indoor Air Screening Levels? .. ☐ Yes ☐ No

   If "**No**," or awaiting indoor air laboratory data package, proceed to Question 12.

8 Has indoor air contamination been identified but not suspected to be from a discharge? (if "**Yes**," attach justification) ☐ Yes ☐ No

9. Were indoor air results above the NJDEP's Rapid Action Levels? ☐ Yes ☐ No

If "**Yes**":

- Provide the date laboratory data package was received: _____
- Follow the **IEC** Guidance Document at http://www.nj.gov/dep/srp/guidance/index.html#iec for required actions and answer the following:
- Was the IEC engineering system response for control implemented for all impacted structures? ☐ Yes ☐ No

  Date implemented: _____ NJDEP Case Manager: _____

10. Were the results of indoor air sampling above the NJDEP's Indoor Air Screening Levels but at, or below, the Rapid Action Levels ☐ Yes ☐ No

If "**Yes**," answer the following:

- Provide the date laboratory data package was received: _____
- Has the Vapor Concern (VC) Response Action Form notifying the NJDEP of the exceedances been submitted? ☐ Yes ☐ No

  Date: _____
- Has a plan to mitigate and monitor the exposure been submitted? ☐ Yes ☐ No

  Date: _____
- Has the Mitigation Response Action Report been submitted? ☐ Yes ☐ No

  Date: _____

11. Do one or more buildings have an Indeterminate VI Pathway status? ☐ Yes ☐ No

If "**Yes**," attach a list of the building(s) with address(s) and block/lot(s)

12. Has the vapor intrusion investigation been completed? ☐ Yes ☐ No

If "**No**", is the vapor intrusion investigation stepping out as part of the site investigation or remedial investigation. (If "No," attach justification) ☐ Yes ☐ No

SECTION F. ECOLOGICAL RECEPTORS

1. Has an Ecological Evaluation (EE) been conducted? [N.J.A.C. 7:26E-1.16] ☒ Yes ☐ No

   Date conducted: 04/28/2004

2. Are any site-related contaminants above any Ecological Screening Criteria? ☒ Yes ☐ No
3. Are there any Environmentally Sensitive Natural Resources (ESNRs) on or adjacent to the site, or potentially impacted by site related contamination? [N.J.A.C. 7:26E-1.16] ☐ Yes ☒ No
4. Do any potential or complete migration pathways exist between Contaminant of Potential Ecological Concern (COPECs) and ESNRs, or did historic migration pathways exist? ☐ Yes ☒ No

If You answered "No" to Questions 2, 3, or 4, above <u>Stop Here</u> (form is complete).

5. If site-related free or residual product is/was present, does/did a potential or complete migration pathway exist to an ESNR? ☐ Yes ☐ No
6. Do the results of an EE trigger a remedial investigation of ecological receptors? [N.J.A.C. 7:26E-4.8] ☐ Yes ☐ No

   If "**Yes**", has a remedial investigation of ecological receptors been conducted? ☐ Yes ☐ No

   Date conducted: _____

7. Do available data indicate an impact (COPECs above Ecological Screening Criteria in ESNRs) to Ecological Receptor(s), Surface water, or Sediment? ☐ Yes ☐ No

   If "**Yes**,"

   a) Check all ESNRs or media that apply:

   ☐ Surface water ☐ Sediment ☐ Soil ☐ Wetlands

   b) If this information is not submitted with an ecological evaluation that includes contaminant summary information, attach a brief summary of all currently available data and a description of all actions to be taken to mitigate exposure.

8. Have COPECs been fully delineated to the Ecological Screening Criteria [N.J.A.C. 7:26E-4.8(a)] in:

   a) Migration pathways ☐ Yes ☐ No

   b) ESNR ☐ Yes ☐ No

9. Has an Ecological Risk Assessment been conducted? ☐ Yes ☐ No

10. Provide the following information for any on-site and/or off-site surface water body, which is potentially impacted by the site related discharges:

Surface Water Body Name	Stream Classification	Antidegradation Designation	Trout Production	Trout Maintenance
			☐	☐
			☐	☐
			☐	☐
			☐	☐
			☐	☐
			☐	☐

11. Has a Program Interest (PI) or Permit number been issued for any regulated areas by the Division of Land Use Regulation? (e.g. wetlands, transition areas, flood hazard areas, coastal areas, tidelands, etc.). ☐ Yes ☐ No

    If "**Yes**,":

    Identify the type(s) of regulated areas: _____

    Provide the Land Use Regulation Program (LURP) PI or Permit number(s) for the site:

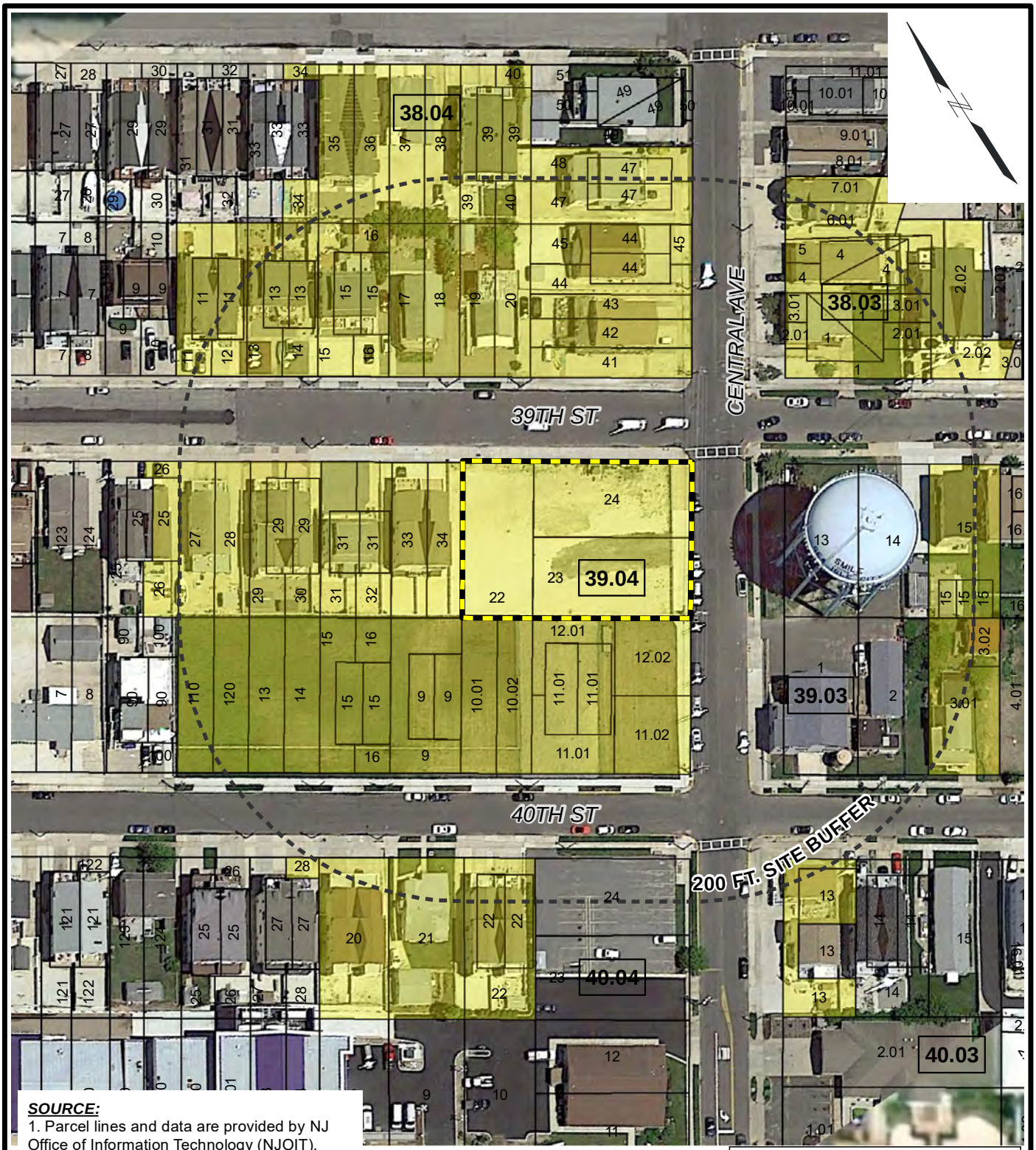
    _____

12 Are there any **pending** applications for LURP jurisdiction letters or approvals under review by the NJDEP for the remediation? ☐ Yes ☐ No

13. Are there any **valid** LURP jurisdiction letters or approvals issued for the remediation? ☐ Yes ☐ No

Completed forms should be sent to the municipal clerk, designate health department, and:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420



SOURCE:

1. Parcel lines and data are provided by NJ Office of Information Technology (NJOIT), Office of Geographic Information Systems (OGIS), and are shown for graphical purposes only. This map is not to be considered a legal tax map
2. 2014 Google Earth Pro Image accessed 8/20/2015.

0 100 200

SCALE: 1" = 100'

LEGEND

- Approximate Site Boundary
- Residential Properties

Groundwater Remedial Action Report
Sea Isle City Former MGP Site
Sea Isle City, New Jersey

Jersey Central Power & Light Company
Morristown, New Jersey

GEI Consultants

SENSITIVE RECEPTORS FIGURE

Project 1610583 | October 2018 | Fig. 1

J:\Projects\JCP&L\Sea Isle City\Sensitive Receptors.mxd

Sea Isle City MGP
Receptor Evaluation Well Search

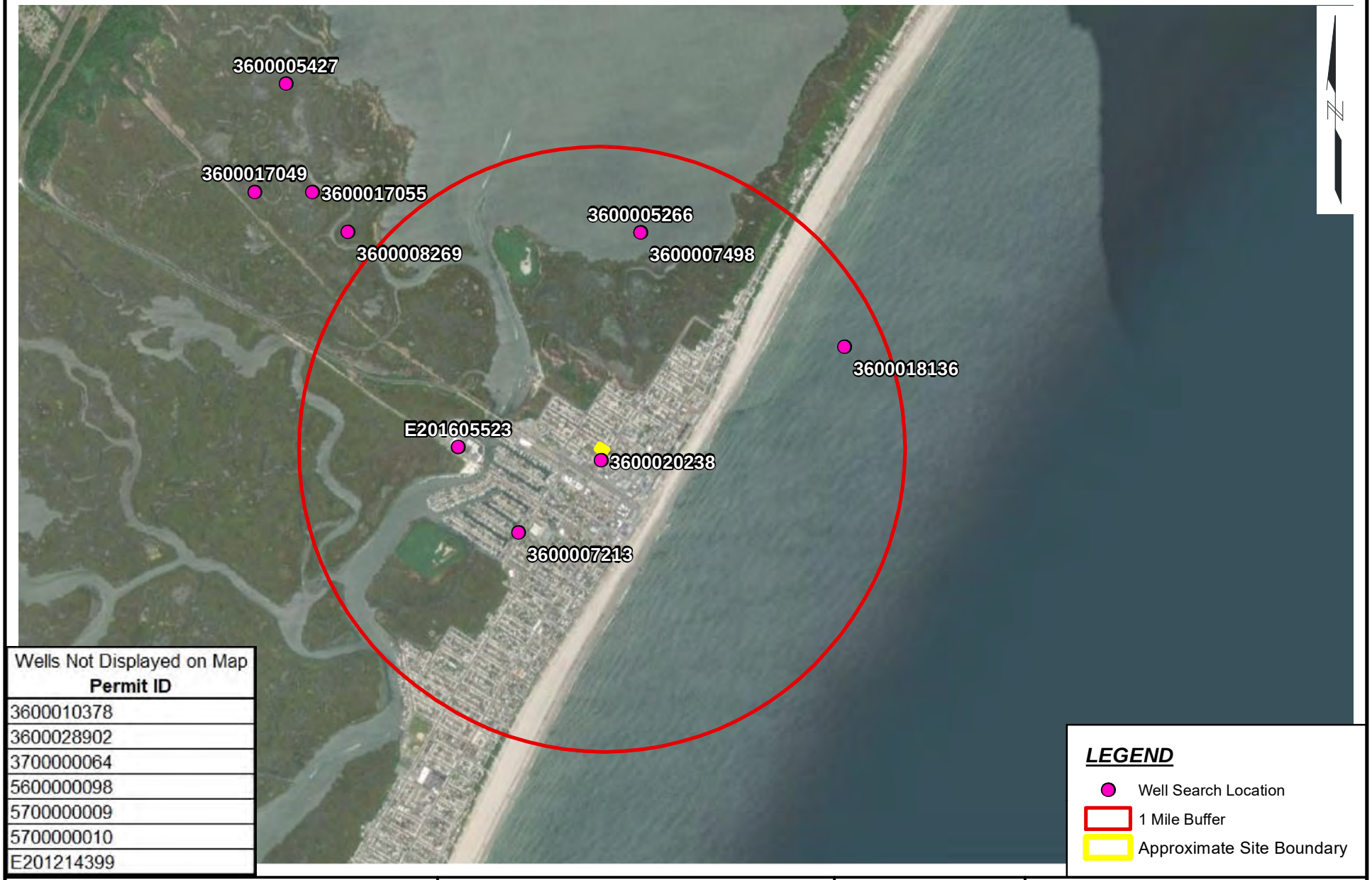
Well Permitting XY Well Search - 17 wells found within One Mile of Easting = 437497 Northing = 118239

Click here to visit the report information page

Download Document	Permit Number	Well Use	Potentially Potable	Document	Date (permitted /drilled /sealed)	Physical Address	County	Municipality	Block	Lot	Location Method	Easting (X)	Northing (Y)	Distance (Feet)	Depth (ft)	Capacity (gal/min)
PDF Document	E201605523	Irrigation	Yes	Permit	5/16/2016	14 Old Sea Isle City Blvd sea Isle NJ 08	Cape May	Dennis Twp	275	4	Digital Image	434976	118292	2,521.56	40	25
REDACTED	E201214399	Public Community Replacement	Yes	Permit	10/11/2012	REDACTED	Cape May	Sea Isle City	50.03	REDACTED	Digital Image	0	0	REDACTED	830	880
REDACTED	E201214399	Public Community Replacement	Yes	Record	2/5/2013	REDACTED	Cape May	Sea Isle City	50.03	REDACTED	GPS	0	0	REDACTED	845	790
REDACTED	E201214399	Public Community Replacement	Yes	Record	2/5/2013	REDACTED	Cape May	Sea Isle City	50.03	REDACTED	GPS	0	0	REDACTED	845	
REDACTED	3600028902	Public Community	Yes	Permit	3/16/2005	REDACTED	Cape May	Sea Isle City	54.03	REDACTED	Prop Loc - Hard Copy	0	0	REDACTED	830	800
REDACTED	3600028902	Public Community	Yes	Record	5/19/2005	REDACTED	Cape May	Sea Isle City	54.03	REDACTED	Hard Copy Map	0	0	REDACTED	820	790
	3600005266	Domestic	Yes	Permit	5/5/1985		Cape May	Dennis Twp	256	2907	Prop Loc - Hard Copy	438214	122101		50	15
	3600005427	Domestic	Yes	Permit	5/5/1985		Cape May	Dennis Twp	245	1401	Prop Loc - Hard Copy	431920	124745		50	15
	3600007213	Domestic	Yes	Record	5/17/1987	4303 PARK ROAD	Cape May	Dennis Twp	273	2	Prop Loc - Dig Image	436050	116777	2,057.09	78	17
	3600007498	Domestic	Yes	Permit	9/5/1986		Cape May	Dennis Twp	256	2919	Prop Loc - Hard Copy	438214	122101		50	15
	3600008269	Domestic Replacement	Yes	Permit	3/26/1987	ROUTE 9	Cape May	Dennis Twp	251	8	Prop Loc - Hard Copy	433016	122112		50	10
	3600017055	Domestic	Yes	Permit	8/17/1993	1342 STAGECOACH ROAD	Cape May	Dennis Twp	256.05	36.20	Prop Loc - Hard Copy	432388	122822		55	10
	3600017055	Domestic	Yes	Record	4/28/1993	1342 STAGECOACH ROAD	Cape May	Dennis Twp	256.05	36.20	Prop Loc - Hard Copy	432388	122822		53	15
	3600017049	Domestic	Yes	Permit	8/11/1993	4 ALEXANDRIA WAY	Cape May	Dennis Twp	256.05	36.01	Prop Loc - Hard Copy	431364	122824		60	15
	3600017049	Domestic	Yes	Record	8/16/1993	4 ALEXANDRIA WAY	Cape May	Dennis Twp	256.05	36.01	Prop Loc - Hard Copy	431364	122824		60	10
	3600018136	Irrigation	Yes	Permit	8/4/1994	8005 CENTRAL AVENUE	Cape May	Sea Isle City	80.03	257	Prop Loc - Hard Copy	441832	120070		20	12
	3600018136	Irrigation	Yes	Record	8/16/1994	8005 CENTRAL AVENUE	Cape May	Sea Isle City	80.03	257	Prop Loc - Hard Copy	441832	120070		18	0
REDACTED	5700000010	Public Community	Yes	Decommissioning	2/17/2013	REDACTED	Cape May	Sea Isle City	50.03	REDACTED	Prop Loc - Hard Copy	0	0	REDACTED	871	400
REDACTED	5700000010	Public Community	Yes	Permit	10/29/1930	REDACTED	Cape May	Sea Isle City		REDACTED	Prop Loc - Hard Copy	0	0	REDACTED	871	400
REDACTED	5700000010	Public Community	Yes	Record	10/30/1930	REDACTED	Cape May	Sea Isle City		REDACTED	Prop Loc - Hard Copy	0	0	REDACTED	871	400

Sea Isle City MGP
Receptor Evaluation Well Search

REDACTED	5700000009	Public Community	Yes	Permit	1/1/1926	REDACTED	Cape May	Sea Isle City		REDACTED	Prop Loc - Hard Copy	0	0	REDACTED	864	0
REDACTED	5700000009	Public Community	Yes	Record	1/2/1926	REDACTED	Cape May	Sea Isle City		REDACTED	Prop Loc - Hard Copy	0	0	REDACTED	864	0
REDACTED	3700000064	Public Community	Yes	Decommissioning	1/11/2008	REDACTED	Cape May	Sea Isle City	54.03	REDACTED	Prop Loc - Hard Copy	0	0	REDACTED		
REDACTED	3700000064	Public Community	Yes	Permit	3/29/1954	REDACTED	Cape May	Sea Isle City		REDACTED	Prop Loc - Hard Copy	0	0	REDACTED	750	700
REDACTED	3700000064	Public Community	Yes	Record	5/28/1954	REDACTED	Cape May	Sea Isle City		REDACTED	Prop Loc - Dig Image	0	0	REDACTED	830	0
REDACTED	3600020238	Public Community Replacement	Yes	Permit	4/22/1996	REDACTED	Cape May	Sea Isle City	39.03	REDACTED	Prop Loc - Hard Copy	0	0	REDACTED	877	700
REDACTED	3600020238	Public Community Replacement	Yes	Record	5/27/1996	REDACTED	Cape May	Sea Isle City	39.03	REDACTED	Prop Loc - Hard Copy	0	0	REDACTED	889	700
REDACTED	3600010378	Public Community	Yes	Permit	7/22/1988	REDACTED	Cape May	Sea Isle City	80.04	REDACTED	Prop Loc - Hard Copy	0	0	REDACTED	875	700
REDACTED	5600000098	Public Community	Yes	Permit	1/2/1996	REDACTED	Cape May	Sea Isle City		REDACTED	Prop Loc - Hard Copy	0	0	REDACTED	854	
REDACTED	5600000098	Public Community	Yes	Record	1/2/1996	REDACTED	Cape May	Sea Isle City		REDACTED	Prop Loc - Hard Copy	0	0	REDACTED	854	



Wells Not Displayed on Map
Permit ID
3600010378
3600028902
3700000064
5600000098
5700000009
5700000010
E201214399

LEGEND

- Well Search Location
- 1 Mile Buffer
- Approximate Site Boundary

0 2,500 5,000

SCALE: 1" = 2500'

SOURCE:

1. AERIAL IMAGERY VIA ESRI WORLD IMAGERY SERVICES.

Receptor Evaluation
Sea Isle City Former MGP Site
Sea Isle City, New Jersey

Jersey Central Power & Light Company
Morristown, New Jersey

GEI Consultants

Project 1610583

WELL SEARCH FIGURE

November 2020 Fig. 1

Q:\Project\JCP&L\Sea Isle City\Well Search.mxd

Receptor Evaluation Form
Sea Isle Former Manufactured Gas Plant Site
PI No. G000006130
Attachment C
Description of Contamination

Groundwater sampling performed at the Site since 1988 confirmed the presence of benzene at concentrations exceeding the applicable Groundwater Quality Standard (GWQS). In addition, exceedances of the GWQS for various polycyclic aromatic hydrocarbons (PAHs) were reported. Sampling for inorganic compounds, including metals and cyanide, was performed as part of the initial sampling events. However, only exceedances for iron and manganese were reported, and the concentrations did not demonstrate a trend that could be attributed to impacts from the former MGP Site. Benzene and PAH compounds were therefore identified as contaminants of concern for the Site. A Classification Exception Area/Well Restriction Area (CEA/WRA) for the site was established in 2016. The CEA/WRA identified benzene and PAH compounds as the contaminants of concern for the site.

Quarterly groundwater sampling was performed at the Site between 2016 and 2018 with additional subsequent sampling events completed in 2019 and 2020. Review of the analytical results finds that no exceedances of applicable GWQS were reported for PAHs in the quarterly sampling after August 2017. PAH exceedances were reported in samples collected from MW-29 in March 2019 and September 2019, but no PAH exceedances were reported in samples collected from MW-29 in December 2019 or March 2020.

With the exception of benzene, no volatile organic compound (VOC) exceedances have been reported in samples collected during the last two rounds of quarterly sampling completed in February and May 2018. One exceedance for vinyl chloride was reported in a sample collected from MW-15 in November 2017. Vinyl chloride was not reported in MW-15 or other monitoring wells before or after this sample. Additional sampling was completed in 2019 and most recently in March 2020 and incorporated a recently installed well (MW-29) not included in the previous sampling events. As with the February and May 2018 sampling events, benzene was the only reported VOC exceedance.

Receptor Evaluation Form

Sea Isle Former Manufactured Gas Plant Site
PI No. G000006130
Attachment D
Ground Water Use

GEI obtained a radius well search from the NJDEP for wells located within a ½ mile radius of the site. The only potable water well identified within the ½ mile search radius is the Sea Isle City municipal well located to the east of the site across Central Avenue. This well is screened in the Atlantic City Formation, which is significantly below (minimum of 700 feet) and separated by two regional aquicludes from the shallow groundwater zone where MGP-related impacts have been identified. The well is screened between 724 to 884 feet below ground surface. GEI has not sampled water from this well; however, Sea Isle City performs regular sampling of the potable water and the water meets the standards for use as a potable water supply. No new potable well was identified in the well search conducted on October 31, 2019. An in-person survey of the area was conducted on October 13, 2020 to visually identify any potable wells in the area. No potable wells were observed. A copy of the well search spreadsheet is included with this submittal.

Receptor Evaluation Form
Sea Isle Former Manufactured Gas Plant Site
PI No. G000006130
Attachment E
Vapor Intrusion

In 2007 a Vapor Intrusion (VI) investigation was conducted at 214 39th Street, 205 40th Street, and 209 40th Street. These dwellings were located adjacent to the site and could potentially be impacted by vapors associated with MGP contamination. The VI investigation was conducted by Haley & Aldrich, of Parsippany, New Jersey. The initial investigation involved the installation of temporary well points at each parcel and the collection of groundwater samples, to determine whether an exceedance of the VI Groundwater Screening Level was present. Review of the groundwater analytical results revealed exceedances of the 15 µg/L benzene screening level in samples collected at 214 39th Street and 209 40th Street. No exceedances were reported in the groundwater sample collected from 205 40th Street.

Based on the results of the groundwater screening, air samples were collected from the crawl spaces of the 214 39th Street and 209 40th Street dwellings, with an ambient air sample collected from the MGP site. The samples were collected using 6-liter stainless steel Summa canisters with 8-hour flow regulators. No exceedances of the Indoor Air Screening Levels were reported. Based on the results of the VI investigation, Haley & Aldrich concluded that vapor intrusion was not an environmental concern. The NJDEP responded by sending letters to the occupants of the properties tested stating that vapors from the former MGP site were not a concern inside their dwellings.

The groundwater samples collected after remedial action soil excavation are the MGP parcel did not report any groundwater samples in excess of NJDEP Vapor Intrusion Ground Water Screen Level. Therefore no VI investigation is proposed at this time.

Receptor Evaluation Form
Sea Isle Former Manufactured Gas Plant Site
PI No. G000006130
Attachment F

Ecological Receptors

GEI conducted a Baseline Ecological Evaluation (BEE) of the site in 2004. The BEE noted that while contaminants of ecological concern were present on the site, the soil and groundwater contamination was limited to residential lots and city streets, with no environmentally sensitive natural resources at or adjacent to the site. Based on this information, no further ecological evaluation was recommended. In a letter dated May 24, 2004, the NJDEP concurred with GEI's recommendation that no further ecological evaluation is needed.

Appendix D

Monitoring Well Documentation

GEI Consultants

Consulting Engineers and Scientists

May 22, 2020

Project 1610583

New Jersey Department of Environmental Protection
Division of Water Supply & Geoscience
Bureau of Water Allocation & Well Permitting
401 E. State St - P.O. Box 420
Trenton, New Jersey 08625-0420

RE: MW-12 ALTERNATE DECOMMISSIONING REPORT
SEA ISLE CITY FORMER MGP SITE
3900 CENTRAL AVENUE, BLOCK 39.04, LOT 22
SEA ISLE CITY, NEW JERSEY
NJDEP PI #G000006130

On behalf of Jersey Central Power & Light Company (JCP&L), GEI Consultants, Inc. (GEI) has prepared this Alternate Decommissioning Report to request the decommissioning of monitoring well MW-12. A figure depicting the location of this well is provided. This well was lost in 2011, during a remedial action conducted at the former MGP site and the adjoining 214 39th Street parcel. Several attempts were made to find the well but the attempts were not successful. A description of the efforts made to locate the well can be found below.

1. Name, address, and telephone number of the responsible party/owner for the well:
   Jersey Central Power & Light Company, 300 Madison Avenue, Morristown, New Jersey.
   Contact: Anna Sullivan, telephone number 860-575-0672.
2. Facility and location information where the well was located, including county, township, lot, block, and known or approximate coordinates:

Facility:	Sea Isle City Former Manufactured Gas Plant Site
Location:	Right of way in front of 214 39th Street
County:	Cape May
Municipality:	City of Sea Isle City
Block & Lot:	Not applicable, located in 39th Street right of way
Coordinates:	118 333 (Northing), 437 516 (Easting)

3. Site Remediation Program Interest No.: G000006130
4. Date when it was discovered well was damaged, destroyed, or lost:
   May 2011, during remedial action site restoration activities.
5. Approximate date the well was damaged, destroyed, or lost:
   Well lost some time between January 2011 and April 2011.
6. Circumstances resulting in the well being damaged, destroyed, or lost:
   Well was located in a highly trafficked area, adjacent to a soil excavation.
7. Description of actions taken to locate the well in case of lost wells, or actions taken to clear obstructions or facilitate decommissioning in the case of damaged or destroyed wells:

GEI Consultants, Inc.
18000 Horizon Way, Suite 200, Mount Laurel, NJ 08054
856.608.6860; fax 856.608.6864

A soil excavation was conducted adjacent to the well location in front of 214 39th Street. The contractor attempted to protect the well, but it was located in a highly trafficked area and the efforts to protect the well were not successful. During the site restoration it was found that MW-12 was not present where it was expected to be located. Two licensed surveyor (Vargo Associates and Taylor Wiseman Taylor) both staked the well location. A metal detector was used, and the area was hand cleared to a depth of approximately 4 feet. Ms. Erica Bergman of the NJDEP Bureau of Case Management was notified via e-mail on May 31, 2011. Ms. Bergman responded via e-mail that based on the available analytical data it was not critical that the well be reinstalled.

8. Well permit number: 3600010765.
   Well construction details: Flush mounted well installed September 22, 1988. Two inch PVC well screened from 1 to 9 feet below ground surface, with PVC riser from 1 foot to ground surface.

A copy of the e-mail correspondence regarding the well is included as **Appendix A**. Copies of the well permit and well record are included as **Appendix B**, along with a figure depicting the well construction details.

Should you have any questions regarding the above information, please do not hesitate to contact us at (856) 608-6860.

Sincerely,

GEI CONSULTANTS, INC.

Christopher W. Dailey, PE, LSRP
Vice President

Brian C. Mannino, P.E.
Project Engineer

CWD/BCM
Attachments

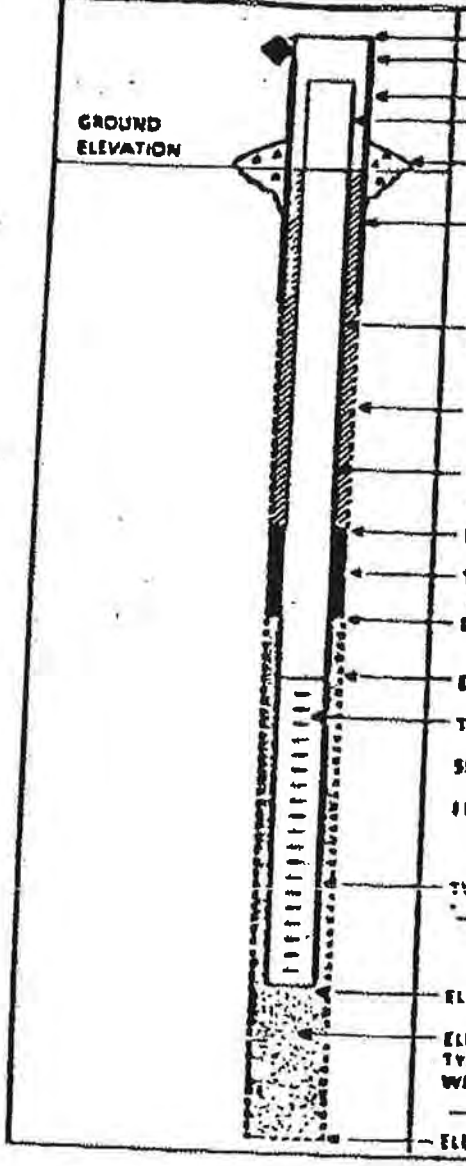
c: Ms. Anna Sullivan, JCP&L
Mr. Robert P. Blauvelt, GEI

Figures

Well No. MW-12

OVERBURDEN
MONITORING WELL SHEET

PROJECT Sea Isle City
PROJECT NO. 6333.200
ELEVATION Ground 6.23'
FIELD GEOLOGIST Pat O'Toole
LOCATION 39th & Central
BORING B-12
DATE 9-22-88
DRILLER Empire
DRILLING METHOD Hollow Stem Auger
DEVELOPMENT METHOD pump/surge



ELEVATION OF TOP OF SURFACE CASING: 6.18'
ELEVATION OF TOP OF RISER PIPE: 5.95'
STICK - UP TOP OF SURFACE CASING: flush
STICK - UP RISER PIPE: mount
TYPE OF SURFACE SEAL: neat cement
I.D. OF SURFACE CASING: 8"
TYPE OF SURFACE CASING: steel flush mount housing
RISER PIPE I.D. 2"
TYPE OF RISER PIPE: PVC
BOREHOLE DIAMETER: 6"
TYPE OF BACKFILL: None
ELEVATION / DEPTH TOP OF SEAL: 4"
TYPE OF SEAL: Bentonire
DEPTH TOP OF SAND PACK: 8"
ELEVATION / DEPTH TOP OF SCREEN: 1'
TYPE OF SCREEN: PVC
SLOT SIZE x LENGTH: 20 slot x 8'
I.D. OF SCREEN: 2"
TYPE OF SAND PACK: Morie #1
ELEVATION / DEPTH BOTTOM OF SCREEN: 9'
ELEVATION / DEPTH BOTTOM OF SAND PACK: 9'
TYPE OF BACKFILL BELOW OBSERVATION WELL: collapse of clay
ELEVATION / DEPTH OF HOLE 10'

APPENDIX B

Appendix A

Well Condition Correpondence

Mannino, Brian

From: Dailey, Christopher
Sent: Thursday, September 20, 2018 2:16 PM
To: Mannino, Brian
Subject: FW: Sea Isle City MGP site

From: Erica Bergman <Erica.Bergman@dep.state.nj.us>
Sent: Thursday, June 2, 2011 12:07 PM
To: kseborowski@firstenergycorp.com
Cc: Dailey, Christopher <CDailey@geiconsultants.com>
Subject: Re: Sea Isle City MGP site

Ken,
Thanks for the information on MW-12. Since this well has not exhibited contaminants above Groundwater Quality Standards, it is not critical that the well be reinstalled at the same location now or following soil removal activities. Following soil remediation, JCP&L will probably have an LSRP retained at that point and they can establish the groundwater monitoring plan appropriate for the site and the Remedial Action Workplan and eventual RAO for groundwater.

Thanks, Erica

Erica Bergman
NJDEP - Bureau of Case Management
401 E. State Street - Mail Code 401-05
P.O. Box 420
Trenton, NJ 08625-0420
erica.bergman@dep.state.nj.us
609-292-7406

>>> <kseborowski@firstenergycorp.com> 5/31/2011 10:33 AM >>>
Erica,

Sometime during the later stages of implementation of the Phase II Remedial Action (RA) at the JCP&L Sea Isle City former MGP Site, monitoring well MW-12 was destroyed. The monitoring well was previously located along the curb line of the former 214 39th Street property, approximately 5 feet north of the sheeting line as indicated on the attached figure. This section of 39th Street between Area 1 (properties on the north side of 39th Street) and Area 2 (properties on the southside of 39th Street) was disturbed during the construction when 39th Street was closed down. Heavy equipment moved across the area where MW-12 was located and the area was also used to stockpile soil used for backfilling activities. The contractor (Sevenson Environmental Services, Inc.) and our consultant (GEI Consultants, Inc.) were aware of and noted the location of the well and attempted to protect it, but at the end of remedial activities it was no longer visible. As part of

restoration activities, several attempts were made to locate MW-12 in the area between the sidewalk and curb line in front of the 214 39th Street property, including hand digging of the entire area after the new curb and sidewalk was constructed, but the well could not be found. The contractor had the location of the well reestablished by their surveyor, Taylor Wiseman, and Taylor (TWT), using coordinates provided by GEI's surveyor, Vargo and Associates (Vargo). TWT placed a marker at the coordinate location provided by Vargo, which was located in the same vicinity as the previous attempts to locate the monitoring well. SES attempted to locate the well again by digging to a depth of approximately 3 feet in the immediate surrounding area of the location marker. Once again the well was not able to be located and the area was subsequently restored with decorative stone.

Monitoring well MW-12 was a shallow well installed in 1988 and screened at a depth of 1 to 9 feet bgs. A copy of the well permit is attached. I have also attached a table providing the analytical results of groundwater samples collected from MW-12 beginning in October 1994 through the most recent sampling event conducted in January 2008. These results show all MGP related constituents to be below the New Jersey Department of Environmental Protection (NJDEP) standards, which are the greater value of Groundwater Quality Criteria and Practical Quantitation Limits. Therefore, JCP&L requests that this monitoring well be considered lost, and based on the previous analytical results, requests that the NJDEP forgo the requirement of a new monitoring well to be installed in its place at this time. Upon completion of the soil remediation effort at the site JCP&L will develop a plan for monitoring the groundwater.

If you have any questions or require any additional information concerning this matter, please do not hesitate to contact me

Best regards

Ken

Appendix B

Well Permit, Well Record, and Well Construction Figure

P10 DWR-133 (9/88) SERIAL # 037

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
TRENTON, N.J.

Permit No. 36-10765

Mail to
Water Allocation
CN 029
Trenton, N.J. 08625

PERMIT TO DRILL WELL 09

VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD #: 36.31.9.41

Owner: Jersey Central Power & Light
Address: 310 Madison Avenue
Morristown, NJ 07960

Name of Facility: JCP&L
Address: 3904 Central Avenue
Sea Isle City, NJ 08243

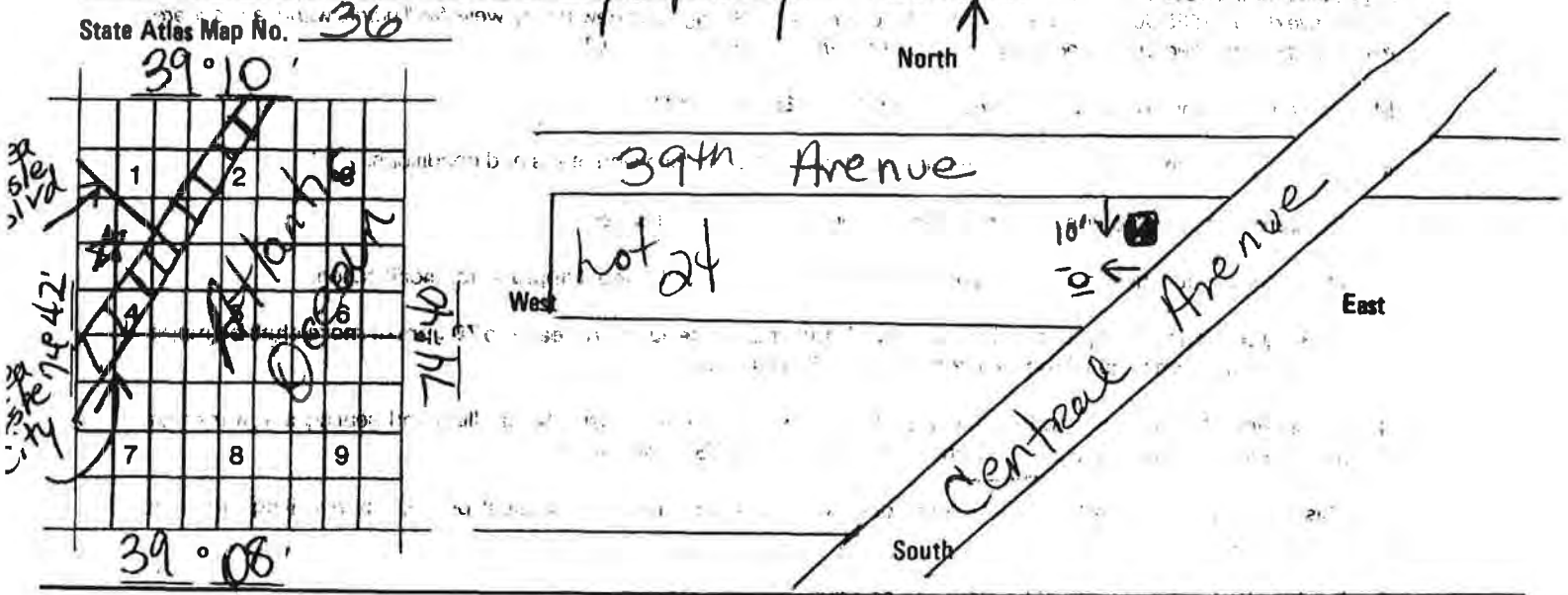
Driller: EMPIRE SOILS INVESTIGATIONS, INC.
Address: 303 CLEVELAND AVENUE
HIGHLAND PARK, NEW JERSEY 08904

Diameter of Well	4 Inches	Proposed Depth of Well	10.5 Feet
Proposed Capacity of Pump	— GPM	Method of Drilling (cable tool, rotary, etc.)	Rotary
Use of Well (See Reverse)		Piezometer	
Drinking Water Supply?	yes (see #6 on reverse)		no

LOCATION OF WELL

Lot #	Block #	Municipality	County
24	39.04	Sea Isle City	Cape May

State Atlas Map No. 36



SEE REVERSE SIDE FOR IMPORTANT PROVISIONS AND REGULATIONS PERTAINING TO THIS PERMIT. APPROVAL OF THIS PERMIT IS MADE SUBJECT TO ACCEPTANCE OF AND COMPLIANCE WITH THE FOLLOWING ADDITIONAL CONDITIONS.

- ☐ **DOMESTIC/PUBLIC NON-COMMUNITY** Water Supply Wells shall comply with N.J.A.C. 7:10-12.1 et. seq.
- ☐ **PUBLIC COMMUNITY** Water Supply Wells shall obtain construction and operation permits from the Bureau of Safe Drinking Water in accordance with N.J.A.C. 7:10-11.2 and be constructed in compliance with N.J.A.C. 7:10-11.3.
- ☐ **DOMESTIC IRRIGATION SUPPLY** - No piping from the well for which the permit applies shall enter any building.
- ☐ **HEAT PUMP WELLS** - Wells must be a minimum of 50 feet apart and the water must be returned to the same aquifer as the production well. A two hour pump test must be performed on the return well at a rate of 1½ times the estimated return flow of water.
- ☐ **INDUSTRIAL SUPPLY** - A physical connection control permit shall be obtained pursuant to the provisions of N.J.A.C. 7:10-10-1 et. seq.
- ☐ **REPLACEMENT WELL** - Existing well must be sealed by a certified New Jersey licensed well driller.
- ☐ MONITORING PURPOSES ONLY ☐ IRRIGATION PURPOSES ONLY ☐ TEST PURPOSES ONLY
- ☐ PINELANDS - Well must be drilled over 100' deep or a clay layer at least 4' in thickness must be encountered.
- ☐ GEOPHYSICAL LOGS of this well must be made. Permanent pumping equipment *SHALL NOT* be installed until such logs are made.
- ☐ SAMPLES of cuttings required every _____ feet or change in material.
- ☐ RESULTS of a volatile organic scan must be obtained prior to using the water and submitted to _____
- ☐ MINIMUM distance requirements as per N.J.A.C. 7:10-12.13 have not been met - see attached additional condition(s).
- ☐ _____

This Space for Approval Stamp
WELL PERMIT
Dept. of Environmental Protection
Water Resources Allocation
OCT 13 1988

In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date 10/6/88

Signature of Driller: Anna Kowalski
Signature of Owner: Jersey Central Power & Light

COPIES: Water Allocation — White; Health Dept. — Yellow; Owner — Blue; Driller — White

WEL PMT 006 1190

DWR 138A
1/88

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO 3610765
APPLICATION NO
COUNTY Cape May
COORD 36 31 ~~9 11~~ E 918

WELL RECORD

1 OWNER Jersey Central Power & Light ADDRESS 310 Madison Avenue Morristown, NJ 07960
Owner's Well No P12 SURFACE ELEVATION ____ Feet (Above mean sea level)
2 LOCATION Lot #24 Block #39.04 Central Ave, Beesley's Point, NJ 08243
3 DATE COMPLETED 9/22/88 DRILLER Empire Soils Investigations, Inc
4 DIAMETER Top 2 inches Bottom 2 inches TOTAL DEPTH 90' Feet
5 CASING Type PVC Diameter 2 Inches Length 10' Feet
6 SCREEN Type PVC Size of Opening 020 Diameter 2 Inches Length 80' Feet
Range in Depth { Top ____ Feet / Bottom ____ Feet Geologic Formation ____
Tail Piece Diameter ____ Inches Length ____ Feet
7 WELL FLOWS NATURALLY ____ Gallons per minute at ____ Feet above surface
Water rises to ____ Feet above surface
8 RECORD OF TEST Date ____ Yield ____ Gallons per minute
Static water level before pumping ____ Feet below surface
Pumping level ____ feet below surface after ____ hours pumping
Drawdown ____ Feet Specific Capacity ____ Gals per min per ft of drawdown
How pumped ____ How measured ____
Observed effect on nearby wells ____
9 PERMANENT PUMPING EQUIPMENT
Type ____ Mfrs Name ____
Capacity ____ G P M How Driven ____ H P ____ R P M ____
Depth of Pump in well ____ Feet Depth of Footpiece in well ____ Feet
Depth of Air Line in well ____ Feet Type of Meter on Pump ____ Size ____ Inches
10 USED FOR ____ AMOUNT { Average ____ Gallons Daily / Maximum ____ Gallons Daily
11 QUALITY OF WATER ____ Sample Yes ____ No ____
Taste ____ Odor ____ Color ____ Temp ____ °F
12 LOG ____ Are samples available? ____
(Give details on back of sheet or on separate sheet. If electric log was made please furnish copy)
13 SOURCE OF DATA ____
14 DATA OBTAINED BY Scott Alberalla #1320 Date 10/26/88

(NOTE Use other side of this sheet for additional information such as log of materials penetrated analysis of the water sketch map sketch of special casing arrangements etc)

36 31. 66

DATE	TIME	DRILLED FROM	DRILLED TO	WEATHER	TEMP
9/22/88	11 00	0	10	SUNNY	75

EMPIRE

FIELD LOG

HOLE NO P-12

GRD ELEV

36-10765

PROJECT Lee Hale City OCPL

LOCATION

Sheet ____ of ____

DEPTH OF SAMPLE	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	BLOWS ON CASING C	MOISTURE	COLOR	SAMPLE RECOVERY	CLASSIFICATION OF MATERIALS DRILLED	OTHER DATA	WELL DETAILS
0 2	1									EOD @ 10'		
2-4	2									2" PVC well set @ 9'		
4-6	3									water @ 1		
6 &	4											
& 10	5											

DRILLERS CLASSIFICATION

NOTATION SIZE AUGERS / CASING 4 1/4 SIZE SPOON 2

SIZE THIN-WALLED TUBE ____ SIZE CORE ____

N = NO OF BLOWS TO DRIVE 2 "SPOON 24" WITH 140 lb WEIGHT FALLING 30 " PER BLOW

C = NO OF BLOWS TO DRIVE "CASING " WITH lb WEIGHT FALLING PER BLOW

FILL OUT BACK OF LOG AND SIGN YOUR NAME

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201213677

WELL DECOMMISSIONING REPORT

PROPERTY OWNER: JERSEY CENTRAL POWER & LIGHT CO JERSEY CENTRAL POWER & LIGHT CO

Company/Organization: Jersey Central Power & Light Co

Address: 800 Cabin Hill Drive Greensburg, Pennsylvania 15601

WELL LOCATION: Jersey central power & light co

Address: 220 40th st

County: Cape May Municipality: Sea Isle City Lot: 21 Block: 40.04

Easting (X): 437245 Northing (Y): 118150
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL DECOMMISSIONED: May 17, 2016

WELL USE: MONITORING

Other Use(s):

Local ID: mw21

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 12

Was a New Well Drilled? N

Formation Type: Unconsolidated

New Well Permit Number:

WELL DECOMMISSIONING INFORMATION

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	2	2	PVC	sch 40
Screen	2	12	2	PVC	.010

MATERIALS USED

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	12	2	0	5	94	8
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official:

Obstruction Type:

Authorization Number:

Alternative Decomm. Method? No

Authorization Date:

Method Used

ATTACHMENTS:

Robert Wintersteen
MONITORING
Sealing Driller: LICENSE # 602265

AMERIDRILL INC
1201 EDGELY RD
Company: <NO DATA FOUND>, PA 19057

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201504977

WELL DECOMMISSIONING REPORT

PROPERTY OWNER: MUHLBAIER, GARY M & MUHLBAIER, RONALD MUHLBAIER, GARY M & MUHLBAIER, RONALD

Company/Organization: Muhlbaier, Gary M & Muhlbaier, Ronald

Address: 5 Hollybrook Court Sewell, New Jersey 08080

WELL LOCATION: Single-Family Residence

Address: 218 40th Street

County: Cape May Municipality: Sea Isle City Lot: 21 Block: 40.04

Easting (X): 437324 Northing (Y): 118109
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL DECOMMISSIONED: May 17, 2016

WELL USE: MONITORING

Other Use(s):

Local ID: MW-22

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 12

Was a New Well Drilled? N

Formation Type: Unconsolidated

New Well Permit Number:

WELL DECOMMISSIONING INFORMATION

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	2	2	PVC	sch 40
Screen	2	12	2	PVC	.010

MATERIALS USED

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	12	2	0	5	94	8
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official:

Obstruction Type:

Authorization Number:

Alternative Decomm. Method? No

Authorization Date:

Method Used

ATTACHMENTS:

Robert Wintersteen
MONITORING
Sealing Driller: LICENSE # 602265

AMERIDRILL INC
1201 EDGELY RD
Company: <NO DATA FOUND>, PA 19057

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Sea Isle City Former MGP Site

List all AKAs:

Street Address: 218 40th Street

Municipality: Sea Isle City (Township, Borough or City)

County: Cape May Zip Code: 08243

Program Interest (PI) Number(s): G000006130 Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner: Jersey Central Power & Light Company
2. Well Location (Street Address): 7' behind southern curb line of 39th Street, 25' west of Central Ave western curb line
3. Well Location (Municipal Block and Lot) Block#: Right-of-way Lot #: Right-of-way

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E201704878
2. Site Well Number (As shown on application or plans): MW 26R
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 39° 09' 28.49" Longitude: West 74° 41' 32.04"
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 118,266 feet East 437,618 feet
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 3.32
   Elevation Top of Outer casing: 3.54 Elevation of ground: 3.5
   Check One: ☒ NAVD 88 ☐ NGVD 29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   Elevations are referenced to N.A.V.D. 1988, Horizontal datum is referenced to N.J.S.P.C.S.–N.A.D. 1983 based on GPS observations by Vargo Associates in May 2004 of N.J.G.C.S. monument G101 (PID KV3414).
7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

Professional Land Surveyor's Signature: Date: 05-25-17

Surveyor's Name: Robert E. Vargo License Number: GS43261

Firm Name: Vargo Associates Certificate Authorization #: 24GA28021200

Mailing Address: 2771 Delsea Drive

City/Town: Franklinville State: NJ Zip Code: 08322

Phone Number: 856-694-1716 Ext.: 110 Fax: 856-694-3102

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201704878

MONITORING WELL RECORD

PROPERTY OWNER: JERSEY CENTRAL POWER & LIGHT CO. JERSEY CENTRAL POWER & LIGHT CO.

Company/Organization: Jersey Central Power & Light Co.

Address: 800 Cabin Hill Drive Greensburg, Pennsylvania 15601

WELL LOCATION: Jersey Central Power & Light Co.

Address: 39th Street

County: Cape May Municipality: Sea Isle City Lot: ROW Block: ROW

Easting (X): 437618 Northing (Y): 118266
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: May 4, 2017

DATE WELL COMPLETED: May 4, 2017

WELL USE: MONITORING

Other Use(s):

Local ID: MW-26R

WELL CONSTRUCTION

Total Depth Drilled (ft.): 12 Finished Well Depth (ft.): 12 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	12	8		
Casing	0	2	2	PVC	sch 40
Screen	2	12	2	PVC	.020

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0.5	1.5	8	2	5	94	8
Gravel Pack	1.5	12	8	2	morie sand #2		

Grouting Method: Gravity method Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
Static Water Level: 3 ft. below land surface
Water Level Measure Tool: tape
Well Development Period: .5 hrs.
Method of Development: Pumping
Pump Type:

Pump Capacity: _ gpm
Total Design Head: _ ft.
Drilling Fluid:
Drill Rig: Geoprobe 6610DT
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG
0 - 1: Gray OT - Other Concrete Sidewalk
1 - 10: Tan GW - Well-graded gravels and gravel-sand mixtures, little or no fines
10 - 12: Green OL - Organic silts and organic silty clays of low plasticity

ADDITIONAL INFORMATION: 17117

Driller of Record: Stephen Bartos, JOURNEYMAN LICENSE # 0023951 Company: AMERIDRILL INC

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Sea Isle City Former MGP Site

List all AKAs:

Street Address: 218 40th Street

Municipality: Sea Isle City (Township, Borough or City)

County: Cape May Zip Code: 08243

Program Interest (PI) Number(s): G000006130 Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner: Jersey Central Power & Light Company
2. Well Location (Street Address): 5' behind westerly curbline of Central Ave, 65' south of 39th Street curbline
3. Well Location (Municipal Block and Lot) Block#: Right-of-way Lot #: Right-of-way

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E201605350
2. Site Well Number (As shown on application or plans): MW 27
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 39° 09' 27.90" Longitude: West 74° 41' 32.21"
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 118,206 feet East 437,605 feet
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 3.21
   Elevation Top of Outer casing: 3.80 Elevation of ground: 3.8
   Check One: ☒ NAVD 88 ☐ NGVD 29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   Elevations are referenced to N.A.V.D. 1988, Horizontal datum is referenced to N.J.S.P.C.S.–N.A.D. 1983 based on GPS observations by Vargo Associates in May 2004 of N.J.G.C.S. monument G101 (PID KV3414).
7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

Professional Land Surveyor's Signature: R. E. V. Date: 05-26-16

Surveyor's Name: Robert E. Vargo License Number: GS43261

Firm Name: Vargo Associates Certificate Authorization #: 24GA28021200

Mailing Address: 2771 Delsea Drive

City/Town: Franklinville State: NJ Zip Code: 08322

Phone Number: 856-694-1716 Ext.: 110 Fax: 856-694-3102

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Sea Isle City Former MGP Site
List all AKAs:

Street Address: 218 40th Street
Municipality: Sea Isle City (Township, Borough or City)
County: Cape May Zip Code: 08243
Program Interest (PI) Number(s): G000006130 Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner: Jersey Central Power & Light Company
2. Well Location (Street Address): 3' behind southerly curbline of 40th Street, 25' west of Central Ave curbline
3. Well Location (Municipal Block and Lot) Block#: Right-of-way Lot #: Right-of-way

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E201605351
2. Site Well Number (As shown on application or plans): MW 28
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 39° 09' 26.22" Longitude: West 74° 41' 33.85"
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 118,036 feet East 437,475 feet
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 3.45
   Elevation Top of Outer casing: 4.00 Elevation of ground: 4.0
   Check One: ☒ NAVD 88 ☐ NGVD 29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   Elevations are referenced to N.A.V.D. 1988, Horizontal datum is referenced to N.J.S.P.C.S.–N.A.D. 1983 based on GPS observations by Vargo Associates in May 2004 of N.J.G.C.S. monument G101 (PID KV3414).
7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

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SEAL

Professional Land Surveyor's Signature: R. E. V. Date: 05-26-16
Surveyor's Name: Robert E. Vargo License Number: GS43261
Firm Name: Vargo Associates Certificate Authorization #: 24GA28021200
Mailing Address: 2771 Delsea Drive
City/Town: Franklinville State: NJ Zip Code: 08322
Phone Number: 856-694-1716 Ext.: 110 Fax: 856-694-3102

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201605350

MONITORING WELL RECORD

PROPERTY OWNER: JERSEY CENTRAL POWER & LIGHT COMPANY JERSEY CENTRAL POWER & LIGHT COMPANY

Company/Organization: Jersey Central Power & Light Company

Address: 300 Madison Ave Morristown, New Jersey 07960

WELL LOCATION: Sea Isle City Former MGP Site

Address: Central Ave

County: Cape May Municipality: Sea Isle City Lot: ROW Block: ROW

Easting (X): 437605 Northing (Y): 118206
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: May 13, 2016

DATE WELL COMPLETED: May 13, 2016

WELL USE: MONITORING

Other Use(s):

Local ID: MW-27

WELL CONSTRUCTION

Total Depth Drilled (ft.): 12 Finished Well Depth (ft.): 12 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	12	8		
Casing	0	2	2	PVC	sch 40
Screen	2	10	2	PVC	.020

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0.5	1	8	2	2.5	48	4
Gravel Pack	1	12	8	2	#1 Sand		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
Static Water Level: 8 ft. below land surface
Water Level Measure Tool: tape
Well Development Period: 1 hrs.
Method of Development: Whale Pump
Pump Type:

Pump Capacity: _ gpm
Total Design Head: _ ft.
Drilling Fluid:
Drill Rig: 6610 DT
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 12: Green PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION: 16118

Driller of Record: Robert Wintersteen, MONITORING LICENSE # 602265 Company: AMERIDRILL INC

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201605351

MONITORING WELL RECORD

PROPERTY OWNER: JERSEY CENTRAL POWER & LIGHT COMPANY JERSEY CENTRAL POWER & LIGHT COMPANY

Company/Organization: Jersey Central Power & Light Company

Address: 300 Madison Ave Morristown, New Jersey 07960

WELL LOCATION: Sea Isle City Former MGP Site

Address: Central Ave

County: Cape May Municipality: Sea Isle City Lot: ROW Block: ROW

Easting (X): 437475 Northing (Y): 118036
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: May 13, 2016

DATE WELL COMPLETED: May 13, 2016

WELL USE: MONITORING

Other Use(s):

Local ID: MW-28

WELL CONSTRUCTION

Total Depth Drilled (ft.): 12 Finished Well Depth (ft.): 12 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	12	8		
Casing	0	2	2	PVC	sch 40
Screen	2	12	2	PVC	.020

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0.5	1	8	2	2.5	47	6
Gravel Pack	1	12	8	2	#1 Sand		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
Static Water Level: 9 ft. below land surface
Water Level Measure Tool: tape
Well Development Period: 1 hrs.
Method of Development: Whale Pump
Pump Type:

Pump Capacity: _ gpm
Total Design Head: _ ft.
Drilling Fluid:
Drill Rig: 6610 DT
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 12: Green PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION: 16118

Driller of Record: Robert Wintersteen, MONITORING LICENSE # 602265 Company: AMERIDRILL INC

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Sea Isle City Former MGP Site

List all AKAs:

Street Address: 209 40th Street

Municipality: Sea Isle City (Township, Borough or City)

County: Cape May Zip Code: 08243

Program Interest (PI) Number(s): G000006130 Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Jersey Central Power & Light Company
2. Well Location (Street Address) 209 40th Street
3. Well Location (Municipal Block and Lot) Block# 39.04 Lot # 10.02

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E201902544
2. Site Well Number (As shown on application or plans): MW 29
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:

   Latitude: North 39º 09′ 27.61″ Longitude: West 74º 41′ 34.36″
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:

   North 118,177 feet East 437,435 feet
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 4.34

   Elevation Top of Outer casing: 4.78 Elevation of ground: 4.8

   Check One: ☒ NAVD 88 ☐ NGVD 29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).

   Elevations are referenced to N.A.V.D. 1988, Horizontal datum is referenced to N.J.S.P.C.S.–N.A.D. 1983 based on GPS observations by Vargo Associates in May 2004 of N.J.G.C.S. monument G101 (PID KV3414).
7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

Professional Land Surveyor's Signature: Date: 04-03-19

Surveyor's Name: Robert E. Vargo License Number: GS43261

Firm Name: Vargo Associates Certificate Authorization #: 24GA28021200

Mailing Address: 2771 Delsea Drive

City/Town: Franklinville State: NJ Zip Code: 08322

Phone Number: 856-694-1716 Ext.: 110 Fax: 856-694-3102

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201902544

MONITORING WELL RECORD

PROPERTY OWNER: JERSEY CENTRAL POWER & LIGHT JERSEY CENTRAL POWER & LIGHT

Company/Organization: Jersey Central Power & Light

Address: 800 Cabin Hill Dr Greensburg, Pennsylvania 15601

WELL LOCATION: Sea Isle City

Address: 209 40th Street

County: Cape May Municipality: Sea Isle City Lot: 10.02 Block: 39.04

Easting (X): 437435 Northing (Y): 118177
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: March 15, 2019

DATE WELL COMPLETED: March 15, 2019

WELL USE: MONITORING

Other Use(s):

Local ID: MW-29

WELL CONSTRUCTION

Total Depth Drilled (ft.): 12 Finished Well Depth (ft.): 12 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	12	8		
Casing	0	2	2	PVC	sch 40
Screen	2	12	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	1.50	8	2	5	94	8
Gravel Pack	1.50	12	8	2	Morie Sand #1		

Grouting Method: Gravity method Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
Static Water Level: 2.5 ft. below land surface
Water Level Measure Tool: tape
Well Development Period: 1 hrs.
Method of Development: tape
Pump Type:

Pump Capacity: _ gpm
Total Design Head: _ ft.
Drilling Fluid:
Drill Rig: 7822DT
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 12: Tan GW - Well-graded gravels and gravel-sand mixtures, little or no fines

ADDITIONAL INFORMATION: 19086

Driller of Record: Stephen Bartos, JOURNEYMAN LICENSE # 0023951 Company: AMERIDRILL INC

Appendix E

Statistical Analysis Spreadsheet

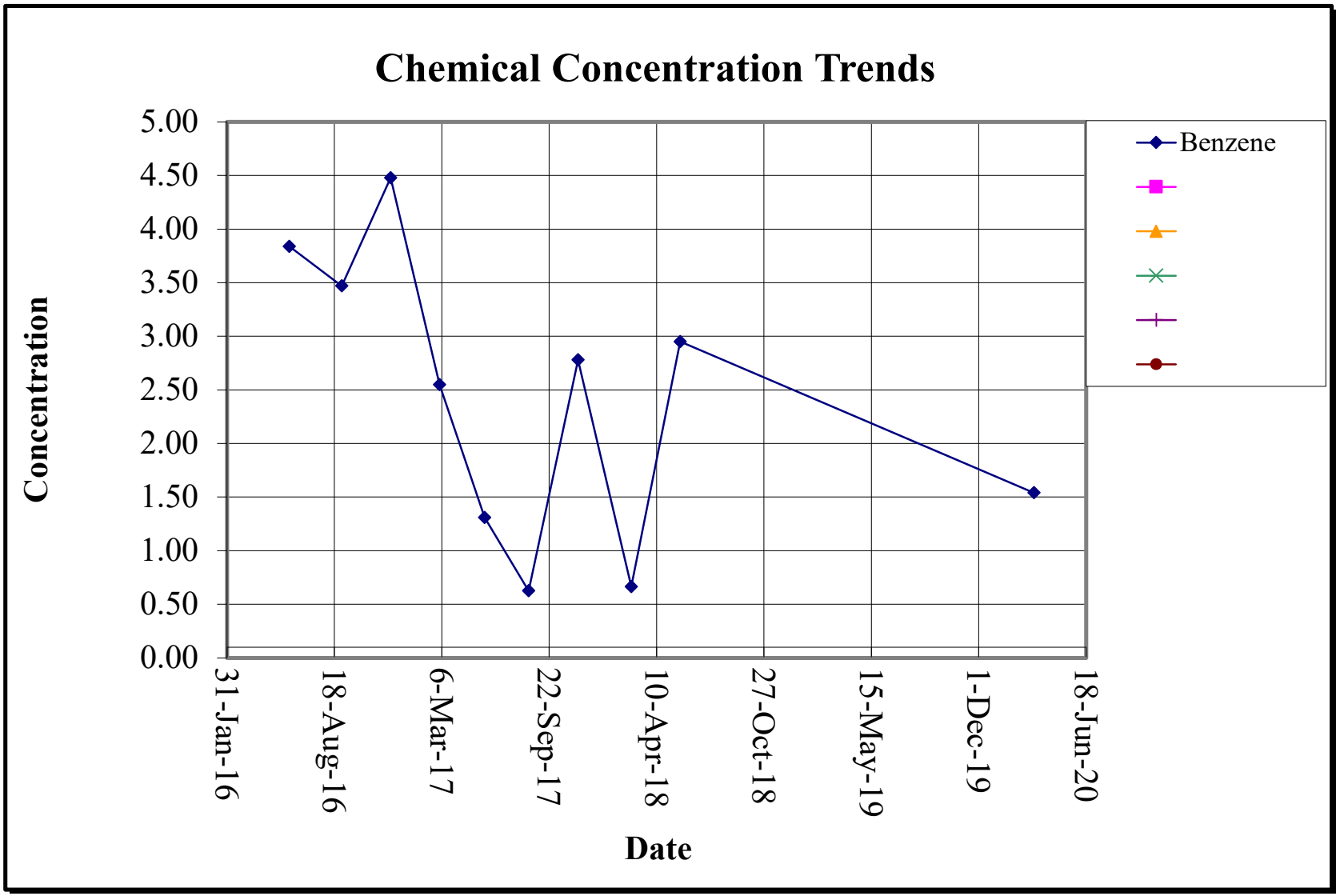
Mann-Kendall Statistical Test
Version 2 10/22/02

Instructions: To use the spreadsheet, provide at least four rounds and up to ten rounds of data. Enter the data in cells with yellow background. Output is presented in blue background cells. Use consistent concentration units. All non-detect values should be assigned a single value, less than the detection limit, even if the detection limit varies over time. The spreadsheet contains several error checks and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at 80% and 90% confidence levels. If an increasing or decreasing trend is not present, use the additional coefficient of variation (CV) test for stable and non-stable conditions, as proposed by Wiedemeier, et al (2000), *Designing Monitoring Programs to Effectively Evaluate the Performance of Natural Attenuation, AFCEE, San Antonio, Texas, January 2000*. Clicking the PRINT button will print both the data analysis sheet and the plot of concentration trends.

This spreadsheet is adapted from State of Wisconsin DNR, Remediation and Redevelopment Program Form 4400-215 (2/2001), developed by George Mickelson.

Site Name =	Sea Isle City MGP	City =	Sea Isle City	Site ID =		Well Number =	MW-24-2
Compound		Benzene					
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)				
1	26-May-16	3.84					
2	1-Sep-16	3.47					
3	1-Dec-16	4.48					
4	2-Mar-17	2.55					
5	25-May-17	1.31					
6	15-Aug-17	0.63					
7	15-Nov-17	2.78					
8	22-Feb-18	0.67					
9	24-May-18	2.950					
10	13-Mar-20	1.540					
	Mann Kendall Statistic S	-17					
	Number of Rounds n	10					
	Average	2.42					
	Standard Deviation	1.50					
	Coefficient of Variation (CV)	0.62					
Trend ≥ 80% Confidence Level		**DECREASING**					
Trend ≥ 90% Confidence Level		**DECREASING**					
Stability Test, If No Trend Exists at 80% Confidence Level		NA					
Error Check, Blank If no Errors Detected							

Data Entry By =	BCM	Date =	15-Jun-20	Checked By =	
Concentration Units =	mg/L ug/L				


Chemical Concentration Trends
Concentration
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
31-Jan-16
18-Aug-16
6-Mar-17
22-Sep-17
10-Apr-18
27-Oct-18
15-May-19
1-Dec-19
18-Jun-20
Date
Benzene

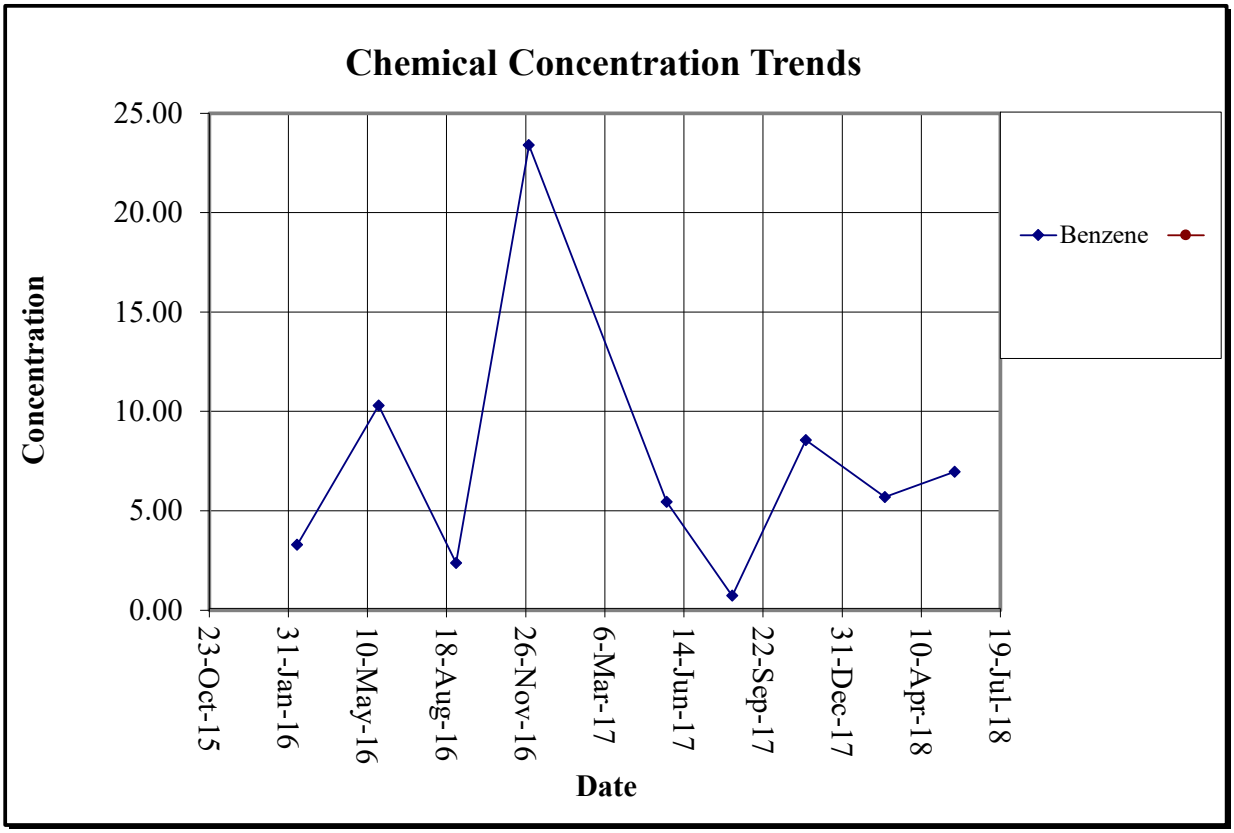
Mann-Kendall Statistical Test
Version 2 10/22/02

Instructions: To use the spreadsheet, provide at least four rounds and up to ten rounds of data. Enter the data in cells with yellow background. Output is presented in blue background cells. Use consistent concentration units. All non-detect values should be assigned a single value, less than the detection limit, even if the detection limit varies over time. The spreadsheet contains several error checks and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at 80% and 90% confidence levels. If an increasing or decreasing trend is not present, use the additional coefficient of variation (CV) test for stable and non-stable conditions, as proposed by Wiedemeier, et al (2000), *Designing Monitoring Programs to Effectively Evaluate the Performance of Natural Attenuation, AFCEE, San Antonio, Texas, January 2000*. Clicking the PRINT button will print both the data analysis sheet and the plot of concentration trends.

This spreadsheet is adapted from State of Wisconsin DNR, Remediation and Redevelopment Program Form 4400-215 (2/2001), developed by George Mickelson.

Site Name =	Sea Isle City MGP	City =	Sea Isle City	Site ID =		Well Number =	MW-26R
Compound		Benzene					
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)				
1	11-Feb-16	3.29					
2	24-May-16	10.30					
3	30-Aug-16	2.37					
4	30-Nov-16	23.40					
5	23-May-17	5.45					
6	14-Aug-17	0.72					
7	15-Nov-17	8.56					
8	23-Feb-18	5.69					
9	22-May-18	6.96					
10	12-Mar-20	0.596					
	Mann Kendall Statistic S	-7					
	Number of Rounds n	10					
	Average	6.73					
	Standard Deviation	8.42					
	Coefficient of Variation (CV)	1.25					
Trend ≥ 80% Confidence Level		No Trend					
Trend ≥ 90% Confidence Level		No Trend					
Stability Test, If No Trend Exists at 80% Confidence Level		**CV > 1 NON-STABLE**					
Error Check, Blank If no Errors Detected			**n < 4**				

Data Entry By =	BCM	Date =	15-Jun-20	Checked By =	
Concentration Units =	mg/L / ug/L				


Chemical Concentration Trends
Concentration
25.00
20.00
15.00
10.00
5.00
0.00
23-Oct-15
31-Jan-16
10-May-16
18-Aug-16
26-Nov-16
6-Mar-17
14-Jun-17
22-Sep-17
31-Dec-17
10-Apr-18
19-Jul-18
Date
Benzene

Appendix F

CEA/WRA Application and Calculations Spreadsheet

New Jersey Department of Environmental Protection
Site Remediation and Waste Management Program

CLASSIFICATION EXCEPTION AREA / WELL RESTRICTION AREA (CEA/WRA) FACT SHEET FORM

Date Stamp
(For Department use only)

SECTION A. SITE INFORMATION

Site Name: Sea Isle City Coal Gas (JCP&L and NJNG)

Program Interest (PI) Number(s): G000006130

Case Tracking Number(s) for this submission: LSR120001

This form must be attached to the Cover / Certification Form if not submitted through the Remedial Phase Report Online Service

1. Indicate the reason for submission of this form *(see instructions)*:

☐ New CEA ☒ Revise CEA ☐ Reestablish CEA ☐ Existing CEA with no changes
☐ CEA for historic fill ☐ CEA for Historically Applied Pesticides (HAP) ☐ CEA lift/removal

If you are submitting this form for an existing CEA provide the CEA Subject Item ID: 167021

2. Indicate the type of ground water Remedial Action (RA):

☒ Natural ☐ Active ☐ Final RA not yet selected

3. Is this form being submitted with a Remedial Action Permit (RAP) Form (for Soil or Ground Water)?.... ☒ Yes ☐ No

SECTION B. CEA COMPONENT AND VAPOR INTRUSION INFORMATION

Name of document that includes the CEA Fate and Transport Description: Groundwater RAR

Date of document: 11/04/2020

1. Ground Water Classification: What is the ground water classification within the CEA as per N.J.A.C. 7:9C?

(Check all that apply)

☐ Class I-A
☐ Class I-PL Pinelands Protection Area
☐ Class I-PL Pinelands Preservation Area
☒ Class II-A
☐ Class III-A
☐ Class III-B

2. Contaminant Data: This CEA/WRA applies only to the contaminants listed below with concentrations above, or assumed to be above, numeric values established for the applicable classification area via the Ground Water Quality Standards (GWQS), N.J.A.C. 7:9C. Except for historic fill CEAs based on assumed ground water contamination, list the maximum contaminant value for all ground water data that could be representative of **current** conditions for any well or sampling point used to establish the CEA. See form instructions before entering data into the below table.

Contaminant	Concentration (1)	GWQS (2)	SWQS(3)	GWSL(4)
Benzene	2.03 ug/L	1 ug/L		20 ug/L

Notes:
(1) Maximum concentration in Micrograms Per Liter
(2) New Jersey Ground Water Quality Standards, N.J.A.C. 7:9C-1.7 and 1.9(c)
(3) Surface Water Quality Standards, N.J.A.C. 7:9B - Applicable only where contaminants in the CEA may discharge to a surface water body.
(4) Current NJDEP Vapor Intrusion (VI) Ground Water Screening Levels (GWSL) available at http://www.nj.gov/dep/srp/guidance/vaporintrusion/

☐ Check if attaching the form Addendum to list additional contaminants and associated information.

SECTION C. CURRENT GROUND WATER USE DOCUMENTATION

1. Indicate the year of the most recent well search completed per N.J.A.C. 7:26E-1.14: 2020

2. If this Fact Sheet form is for a revised CEA or an existing CEA with no changes, have new wells been installed since the CEA was established? ☒ Yes ☐ No ☐ N/A

3. Are there any pumping wells (e.g., potable, industrial, irrigation or recovery wells) within the foot print of the CEA? ☐ Yes ☒ No

   If "Yes" list/attach list of the type and status of any pumping well(s) within CEA:

SECTION D. WELL RESTRICTION INFORMATION

Certain well restrictions relevant to potable ground water use, such as "Double Case Wells", "Sample Potable Wells", and "Evaluate Production Wells", are consistently set within the boundaries of all CEAs established by the NJDEP in Class I and II-A areas (*see instructions*).

1. Are there any other site-specific well restrictions relevant to potable ground water use that should be set within or near the boundaries of the proposed CEA? ☐ Yes ☒ No

   If "Yes", describe below any such site-specific well restrictions proposed for this CEA:

SECTION E. PUBLIC NOTIFICATION REQUIREMENTS

1. Indicate which of the following entities have been notified pursuant to N.J.A.C. 7:26C-7.3(d) and the dates each notification was sent. (*check all that apply*)

   ☒ Municipal and county clerk(s) ..... Dated mailed: 11/03/2020

   ☒ Local, county or regional health department(s) ..... Dated mailed: 11/03/2020

   ☐ Designated County Environmental Health Act agency (if applicable) ..... Dated mailed: _____

   ☒ County Planning Board ..... Dated mailed: 11/03/2020

   ☐ Pinelands Commission (if applicable) ..... Dated mailed: _____

   ☒ Owners of real property overlying CEA foot print ..... Dated mailed: 11/03/2020

2. **List of Names and Addresses** – List below and/or in an attachment, the names/addresses of all persons notified pursuant to N.J.A.C. 7:26C-7.3(d) based on the proposed CEA boundaries. If the site property owner differs from the person responsible for conducting the remediation, check here ☒ and enter the site owner's name and address first in the table below. *See instructions for more information regarding the address list.*

Entity or Owner Name	**Notification Address Used** If owner address differs from property address overlying CEA, add an " * " after the address.	**Blocks/Lots overlying CEA owned by this person** Block	Lot(s)
Watts, Glenn R. & Nancy T.	186 Park Avenue, Ambler, PA 19002*	39.04	11.01, 12.01
Jersey Central Power & Light Co.	300 Madison Avenue, P.O. Box 1911, Morristown, NJ 07962	39.04	11.01, 12.01
Jersey Central Power & Light Co.	300 Madison Avenue, P.O. Box 1911, Morristown, NJ 07962	39.04	11.02, 12.02
Jersey Central Power & Light Co.	300 Madison Avenue, P.O. Box 1911, Morristown, NJ 07962	39.04	22, 23, 24
Jersey Central Power & Light Co.	300 Madison Avenue, P.O. Box 1911, Morristown, NJ 07962	39.04	10.01, 10.02
City of Sea Isle City (ROW)	223 John F. Kennedy Blvd, Sea Isle City, NJ 08243*	--	--
Jersey Central Power & Light Co.	300 Madison Avenue, P.O. Box 1911, Morristown, NJ 07962	39.04	9
Jersey Central Power & Light Co.	300 Madison Avenue, P.O. Box 1911, Morristown, NJ 07962	39.04	15, 16
Jersey Central Power & Light Co.	300 Madison Avenue, P.O. Box 1911, Morristown, NJ 07962	39.04	14
Jersey Central Power & Light Co.	300 Madison Avenue, P.O. Box 1911, Morristown, NJ 07962	39.04	33, 34
Jersey Central Power & Light Co.	300 Madison Avenue, P.O. Box 1911, Morristown, NJ 07962	39.04	31, 32
Salvartore F. & Clleen Marinari	1623 Hilltop Rd., Spring City, PA 19475*	39.04	29, 30
Joann G. Derr	144 Lillac Drive, Allentown, PA 18104*	39.04	29, 30

3. CEA Boundaries and VI Pathway Status: Year of tax map used: 2013

Are there volatile contaminants in the CEA? ☒ Yes ☐ No

Is there LNAPL currently found in the CEA? ☐ Yes ☒ No

For CEA revisions only:

☒ Check if CEA Boundary has changed (*See instructions*)

☒ Check if Block and Lot numbers have changed (*See instructions*)

List the block(s) and lot(s) included in the areal extent of the CEA and check the appropriate boxes:

Block	Lot(s)	Check if off-site	Check if VI pathway was evaluated*	Check if VI pathway status is indeterminate*
39.04	22, 23, 24	☐	☒	☐
39.04	11.01, 12.01	☒	☒	☐
39.04	11.02, 12.02	☒	☒	☐
39.04	10.01, 10.02	☒	☒	☐
39.04	9, 14, 15, 16	☒	☐	☐
39.04	31, 32, 33, 34	☒	☐	☐
		☐	☐	☐

☐ Check if attaching an Addendum to list additional Blocks/Lots and associated information. *(see instructions)*

*Follow instructions for parcels where the vapor intrusion (VI) pathway was evaluated and the status is indeterminate.

Direction of ground water flow: E-SE (*If multiple water bearing zones exist within the CEA and/or there is no predominant flow direction, see instructions.*)

Vertical depth of CEA: 30 (ft bgs) **and** -25 (msl).

Horizontal extent of CEA: 53,678 Indicate units: ☐ acres or ☒ square feet

Name(s) of the affected Geologic Formation(s)/Unit(s) (*see instructions if multiple formations/units affected)*:
Unnamed overburden aquifer

Narrative description of proposed CEA boundaries:
Area extending from MW-25 east-northeast onto 39th Street to southern property boundary with Block 38.04, Lot 41, following along the southern property boundary to the eastern corner of Lot 41, then south-southeast to MW-27, then south-southwest to MW-23, continuing south to well MW-28, then north-northwest to MW-19R. Vertical extent of CEA is 25 feet below ground surface.

4. Projected Term of CEA: *(Based on modeling/calculations in the fate and transport description)*

Proposed Duration in Years: 6 Anticipated Expiration Date: 11/04/2026

or ☐ Indeterminate (*Review instructions before selecting* "Indeterminate" *for the CEA duration.*)

5. ATTACH AND/OR SUBMIT THE FOLLOWING: (*see instructions for additional information/requirements*)

Exhibit A: Site Location Maps – Based on USGS Quadrangle Map;

Exhibit B: CEA Map and Cross Section Figure – See N.J.A.C 7:26C- 7.3(c)1 and 2 and instructions regarding what is required to be included on the map and the cross-section figure.

Exhibit C: GIS Deliverables – CEA Boundary Extent Map. The CEA Boundary Extent Map shall be submitted via email to srpgis_cea@dep.nj.gov. (*See the instructions for detailed GIS deliverable requirements.)*

Identify format of CEA Boundary Extent Map being submitted: ..... ☒ Shape File ☐ CAD File ☐ N/A

If there is a CEA map already on NJ-GeoWeb, does it need to be revised? ..... ☒ Yes ☐ No ☐ N/A

ADDENDUM
Classification Exception Area / Well Restriction Area
Fact Sheet Form

Section B. CEA Component and Vapor Intrusion Information

1. **Contaminant Data** (continued)**:** This CEA/WRA applies only to the contaminants listed on page 1 and in the table below with concentrations above, or assumed to be above, numeric values established for the applicable classification area via the GWQS, N.J.A.C. 7:9C. Except for historic fill CEAs based on assumed ground water contamination, list below the maximum contaminant value for all ground water data that could be representative of **current** conditions for any well or sampling point used to establish the CEA. See form Instructions before entering data into the tables below.

Contaminant	Concentration (1)	GWQS (2)	SWQS(3)	VI GWSL(4)

Notes: (1) Maximum concentration in Micrograms Per Liter
(2) New Jersey Ground Water Quality Standards, N.J.A.C. 7:9C-1.7 and 1.9(c)
(3) Surface Water Quality Standards, N.J.A.C. 7:9B - Applicable only where contaminants in the CEA may discharge to a surface water body.
(4) Current NJDEP Vapor Intrusion (VI) Ground Water Screening Levels (GWSL)

2. **CEA Boundaries and VI Pathway Status** (continued)**:** List additional parcels included in the CEA. Attach additional Addendum sheets if necessary to list all blocks and lots within the CEA.

For CEA revisions, check here if block and lot numbers have changed: ☐

Block	Lot(s)	Check if off-site	Check if VI pathway was evaluated*	Check if VI pathway status is indeterminate*
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

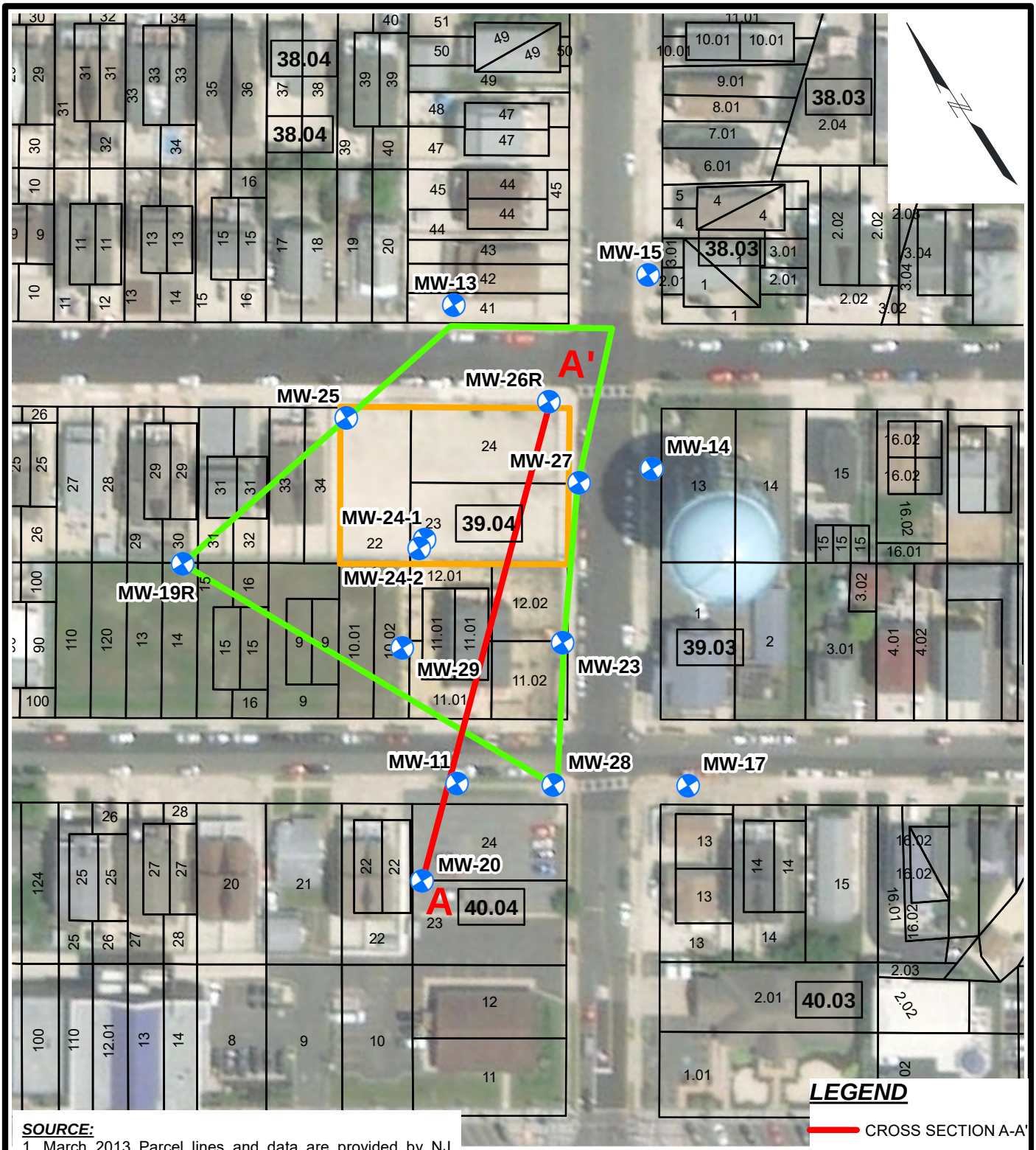
* Follow instructions for parcels where the vapor intrusion (VI) pathway was evaluated and status is indeterminate.

SOURCE:
1. USGS TOPOGRAPHIC MAP ACCESSED VIA ARCGIS ONLINE SERVICES.

0 2,000 4,000
SCALE: 1" = 2000'

Revised Classification Exception Area Sea Isle City Former MGP Site Sea Isle City, New Jersey PI #G000006130	GEI Consultants	SITE LOCATION MAP
Jersey Central Power & Light Company Morristown, New Jersey	Project 1610583	November 2020 Exhibit A-1

J:\Projects\JCP&L\Sea Isle City\Site Location.mxd



SOURCE:

1. March 2013 Parcel lines and data are provided by NJ Office of Information Technology (NJOIT), Office of Geographic Information Systems (OGIS), and are shown for graphical purposes only. This map is not to be considered a legal tax map, accessed 3/2016 via ArcGIS Online Services.
2. Site Aerial from ArcGIS Online World Imagery.

0 100 200

SCALE: 1" = 100'

LEGEND

- CROSS SECTION A-A'
- MONITORING WELLS
- REVISED CEA
- FORMER MGP SITE
- PARCELS

Groundwater Remedial Action Report
Sea Isle City Former MGP Site
Sea Isle City, NJ
PI #G000006130

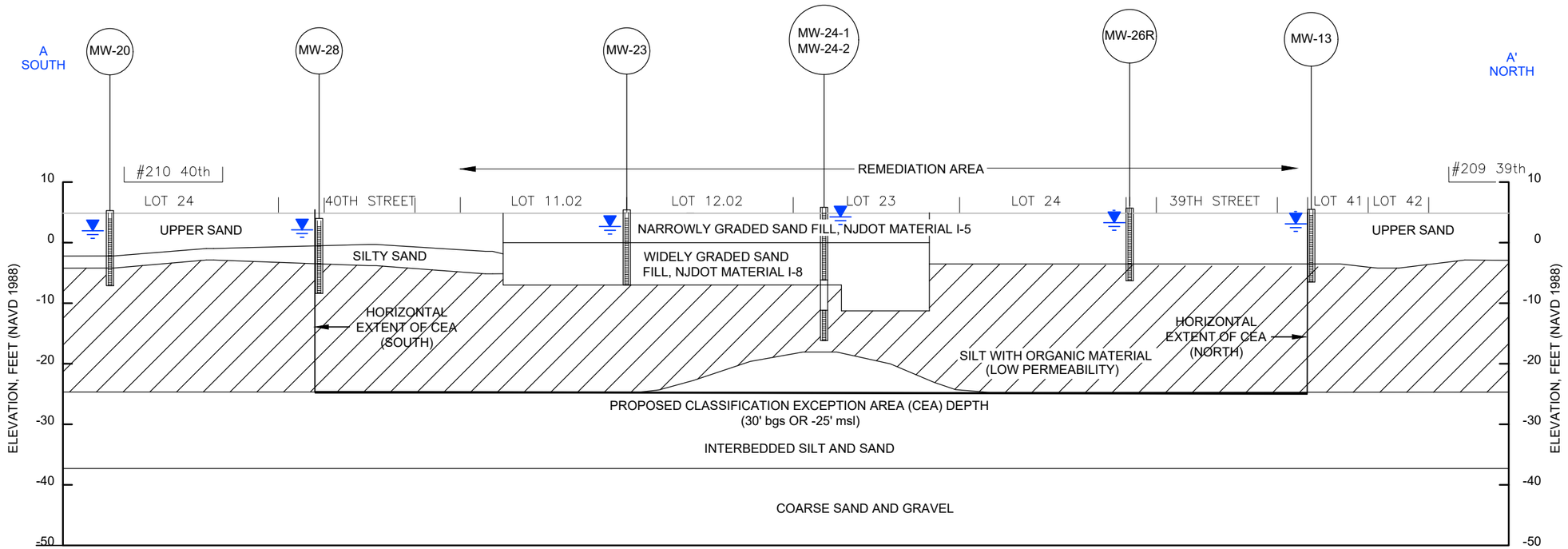
Jersey Central Power & Light Company
Morristown, New Jersey

GEI Consultants

CEA BOUNDARY EXTENT MAP

Project 1610583 | November 2020 | Exhibit B-1

J:\Projects\JCP&L\Sea Isle City\Proposed_CEA.mxd



0 150' 300'

SCALE: 1" = 150'

HORIZONTAL SCALE: 1" = 40'

0 40' 80'

VERTICAL SCALE: 1" = 40'

NOTE: 2x VERTICAL EXAGGERATION

LEGEND

- MW-20 — MONITORING WELL ID
- APPROXIMATE GROUND SURFACE
- 2–IN. DIAMETER PVC RISER PIPE
- APPROXIMATE GROUNDWATER LEVEL MEASURED IN OBSERVATION WELL IN MAY 2017
- SCREENED SECTION OF OBSERVATION WELL
- SILT WITH ORGANIC MATERIAL (LOW PERMEABILITY)

Groundwater Remedial Action Report
Sea Isle City Former MGP Site
Sea Isle City, New Jersey
PI # G000006130

Jersey Central Power & Light Company
Morristown, New Jersey

GEI Consultants

Project 1610583

CEA CROSS SECTION

November 2020 Exhibit B-2

P:\Project\JCP&L\SIC\SIC CEA Cross Section.dwg

CEA Calculation: Calibrate benzene degradation half-life

Duration of the CEA

Input

Compound of Concern:	Benzene	
Sample Collection Date:	3/11/2020	
Initial Concentration (C_o):	2.1	ppb
Target (C):	1	ppb
Half-Life ($t_{1/2}$):	1070	days

Duration of CEA

Time to reach GWQS (T_{GWQS}):	**1146**	days
	3.1	years

Explanation

Ground Water Quality Standard = GWQS

Predicted Concentration = $C = C_0 e^{-kt}$

Time to reach GWQS (T_{GWQS}) = $\ln(GWQS / C_0) / k$

Reaction Rate Constant (k) = $0.693 / t_{1/2}$

Predicted Concentration

Time (years)	Concentration (ppb)
0.1	2.1
0.4	1.9
0.7	1.8
1.0	1.6
1.4	1.5
1.7	1.4
2.0	1.3
2.3	1.2
2.6	1.1
2.9	1.1
3.2	1.0
3.6	0.9
3.9	0.8
4.2	0.8

Length of the CEA

Input

Hydraulic Conductivity (K):	2	ft / day
Hydraulic Gradient (i):	0.01	ft / ft
Effective Porosity (n_e):	0.25	- -
Bulk Density of Formation (p_b):	1.7	g / ml
n-Octanol / Carbon Partition (K_{oc}):	38	ml / g
Fraction of Organic Carbon (foc):	0.004	- -

Seepage Velocity

$V_s = K i / n_e$ = 0.080 ft / day

Retardation Factor

$R_d = 1 + (K_{oc}\ foc\ (p_b / n_e))$ = 2.03 - -

Pollutant Transport Rate

$V_{pt} = V_s / R_d$ = 0.039 ft /day

Length of CEA

Length = $V_{pt} * T_{GWQS}$ = **45** feet

Distance versus Concentration

Notes

(1) Input data boxes are shaded.

(2) Half-life data reference: Remediation Engineering Design Concepts, Suthan S. Suthersan, Lewis Publishers, 1997

(3) Koc data reference: "Bioscreen, Natural Attenuation Decision Support System - User's Manual, Version 1.3", Publication No. EPA/600/R-96/087, August 1996.

(4) Hydraulic Conductivity: Historical slug test results for wells MW-9, MW-10, MW-11, MW-12, MW-13, and MW-14. Hydraulic gradient based on readings from 2008 Supplemental RIR.

(5) Effective porosity and bulk density reference: "Bioscreen, Natural Attenuation Decision Support System - User's Manual, Version 1.3", Publication No. EPA/600/R-96/087, August 1996.

(6) Fraction of organic carbon (foc) from TOC analytical results from sample B-329(5-5.5).

CEA Calculation: Determine longevity of benzene plume

Duration of the CEA

Input

Compound of Concern:	Benzene	
Sample Collection Date:	3/11/2020	
Initial Concentration (C_o):	2.1	ppb
GWQS (C):	1	ppb
Half-Life ($t_{1/2}$):	1070	days

Duration of CEA

Time to reach GWQS (T_{GWQS}):	**1146**	days
	3.1	years

Explanation

Ground Water Quality Standard = GWQS

Predicted Concentration = $C = C_0 e^{-kt}$

Time to reach GWQS (T_{GWQS}) = $\ln(GWQS / C_0) / k$

Reaction Rate Constant (k) = $0.693 / t_{1/2}$

Predicted Concentration

Time (years)	Concentration (ppb)
0.1	2.1
0.4	1.9
0.7	1.8
1.0	1.6
1.4	1.5
1.7	1.4
2.0	1.3
2.3	1.2
2.6	1.1
2.9	1.1
3.2	1.0
3.6	0.9
3.9	0.8
4.2	0.8

Length of the CEA

Input

Hydraulic Conductivity (K):	2	ft / day
Hydraulic Gradient (i):	0.01	ft / ft
Effective Porosity (n_e):	0.25	- -
Bulk Density of Formation (p_b):	1.7	g / ml
n-Octanol / Carbon Partition (K_{oc}):	38	ml / g
Fraction of Organic Carbon (foc):	0.004	- -

Seepage Velocity

$V_s = K i / n_e$ = 0.080 ft / day

Retardation Factor

$R_d = 1 + (K_{oc}\ foc\ (p_b / n_e))$ = 2.03 - -

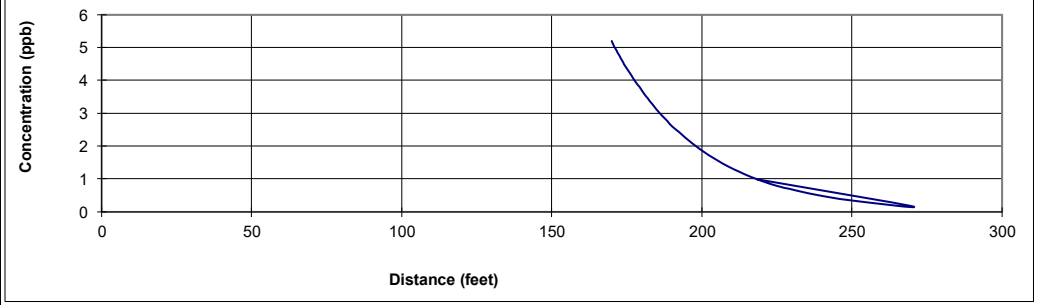
Pollutant Transport Rate

$V_{pt} = V_s / R_d$ = 0.039 ft /day

Length of CEA

Length = $V_{pt} * T_{GWQS}$ = **45** feet

Distance versus Concentration



Notes

(1) Input data boxes are shaded.

(2) Half-life data reference: Remediation Engineering Design Concepts, Suthan S. Suthersan, Lewis Publishers, 1997

(3) Koc data reference: "Bioscreen, Natural Attenuation Decision Support System - User's Manual, Version 1.3", Publication No. EPA/600/R-96/087, August 1996.

(4) Hydraulic Conductivity: Historical slug test results for wells MW-9, MW-10, MW-11, MW-12, MW-13, and MW-14.

(5) Effective porosity and bulk density reference: "Bioscreen, Natural Attenuation Decision Support System - User's Manual, Version 1.3", Publication No. EPA/600/R-96/087, August 1996.

(6) Fraction of organic carbon (foc) from TOC analytical results from sample B-329(5-5.5).

Appendix G

Electronic Data Deliverables (EDD) Submission and Approval E-Mails

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Friday, August 24, 2018 10:49 AM
To: Kincaid, Casey
Subject: G000006130, LSR120001, NJD982187460, HB229725, (Directory: 18-01326) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (ckincaid@geiconsultants.com) on (8/23/2018 4:59:15 PM) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 18-01326
- DESC: Sea Isle GW
- SRPID: G000006130
- Submit Date: 8/23/2018

This submission has been issued an SRP Catalog ID: HB229725

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_17731
Sub ID:SUB_61959

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Friday, August 24, 2018 10:50 AM
To: Kincaid, Casey
Subject: G000006130, LSR120001, NJD982187460, HB229726, (Directory: 17-10016) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (ckincaid@geiconsultants.com) on (8/23/2018 4:58:45 PM) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 17-10016
- DESC: Sea Isle GW
- SRPID: G000006130
- Submit Date: 8/23/2018

This submission has been issued an SRP Catalog ID: HB229726

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_17732
Sub ID:SUB_61960

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Friday, August 24, 2018 10:51 AM
To: Kincaid, Casey
Subject: G000006130, LSR120001, NJD982187460, HB229727, (Directory: 17-09902) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (ckincaid@geiconsultants.com) on (8/23/2018 4:58:10 PM) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 17-09902
- DESC: Sea Isle GW
- SRPID: G000006130
- Submit Date: 8/23/2018

This submission has been issued an SRP Catalog ID: HB229727

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_17733
Sub ID:SUB_61961

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Friday, August 24, 2018 10:53 AM
To: Kincaid, Casey
Subject: G000006130, LSR120001, NJD982187460, HB229728, (Directory: 17-07106) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (ckincaid@geiconsultants.com) on (8/23/2018 4:57:37 PM) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 17-07106
- DESC: Sea Isle GW
- SRPID: G000006130
- Submit Date: 8/23/2018

This submission has been issued an SRP Catalog ID: HB229728

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_17734
Sub ID:SUB_61962

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Friday, August 24, 2018 10:54 AM
To: Kincaid, Casey
Subject: G000006130, LSR120001, NJD982187460, HB229729, (Directory: 17-06953) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (ckincaid@geiconsultants.com) on (8/23/2018 4:52:08 PM) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 17-06953
- DESC: Sea Isle GW
- SRPID: G000006130
- Submit Date: 8/23/2018

This submission has been issued an SRP Catalog ID: HB229729

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_17735
Sub ID:SUB_61963

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Friday, August 24, 2018 10:56 AM
To: Kincaid, Casey
Subject: G000006130, LSR120001, NJD982187460, HB229730, (Directory: 17-04364) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (ckincaid@geiconsultants.com) on (8/23/2018 4:51:35 PM) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 17-04364
- DESC: Sea Isle GW
- SRPID: G000006130
- Submit Date: 8/23/2018

This submission has been issued an SRP Catalog ID: HB229730

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_17736
Sub ID:SUB_61964

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Friday, August 24, 2018 10:57 AM
To: Kincaid, Casey
Subject: G000006130, LSR120001, NJD982187460, HB229731, (Directory: 17-04303) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (ckincaid@geiconsultants.com) on (8/23/2018 4:50:52 PM) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 17-04303
- DESC: Sea Isle GW
- SRPID: G000006130
- Submit Date: 8/23/2018

This submission has been issued an SRP Catalog ID: HB229731

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_17737
Sub ID:SUB_61965

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Friday, August 24, 2018 10:58 AM
To: Kincaid, Casey
Subject: G000006130, LSR120001, NJD982187460, HB229732, (Directory: 17-01794) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (ckincaid@geiconsultants.com) on (8/23/2018 4:50:20 PM) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 17-01794
- DESC: Sea Isle GW
- SRPID: G000006130
- Submit Date: 8/23/2018

This submission has been issued an SRP Catalog ID: HB229732

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_17738
Sub ID:SUB_61966

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Friday, August 24, 2018 10:59 AM
To: Kincaid, Casey
Subject: G000006130, LSR120001, NJD982187460, HB229733, (Directory: 17-01722) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (ckincaid@geiconsultants.com) on (8/23/2018 4:49:52 PM) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 17-01722
- DESC: Sea Isle GW
- SRPID: G000006130
- Submit Date: 8/23/2018

This submission has been issued an SRP Catalog ID: HB229733

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_17739
Sub ID:SUB_61967

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Friday, August 24, 2018 10:59 AM
To: Kincaid, Casey
Subject: G000006130, LSR120001, NJD982187460, HB229734, (Directory: 17-01710) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (ckincaid@geiconsultants.com) on (8/23/2018 4:49:19 PM) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 17-01710
- DESC: Sea Isle GW
- SRPID: G000006130
- Submit Date: 8/23/2018

This submission has been issued an SRP Catalog ID: HB229734

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_17740
Sub ID:SUB_61968

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Friday, August 24, 2018 11:01 AM
To: Kincaid, Casey
Subject: G000006130, LSR120001, NJD982187460, HB229735, (Directory: 16-11064) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (ckincaid@geiconsultants.com) on (8/23/2018 4:48:30 PM) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 16-11064
- DESC: Sea Isle GW
- SRPID: G000006130
- Submit Date: 8/23/2018

This submission has been issued an SRP Catalog ID: HB229735

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_17741
Sub ID:SUB_61969

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Friday, August 24, 2018 11:02 AM
To: Kincaid, Casey
Subject: G000006130, LSR120001, NJD982187460, HB229736, (Directory: 16-10976) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (ckincaid@geiconsultants.com) on (8/23/2018 4:48:03 PM) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 16-10976
- DESC: Sea Isle GW
- SRPID: G000006130
- Submit Date: 8/23/2018

This submission has been issued an SRP Catalog ID: HB229736

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_17742
Sub ID:SUB_61970

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Friday, August 24, 2018 11:03 AM
To: Kincaid, Casey
Subject: G000006130, LSR120001, NJD982187460, HB229737, (Directory: 16-08180) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (ckincaid@geiconsultants.com) on (8/23/2018 4:47:30 PM) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 16-08180
- DESC: Sea Isle GW
- SRPID: G000006130
- Submit Date: 8/23/2018

This submission has been issued an SRP Catalog ID: HB229737

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_17743
Sub ID:SUB_61971

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Friday, August 24, 2018 11:04 AM
To: Kincaid, Casey
Subject: G000006130, LSR120001, NJD982187460, HB229738, (Directory: 16-08165) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (ckincaid@geiconsultants.com) on (8/23/2018 4:46:52 PM) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 16-08165
- DESC: Sea Isle GW
- SRPID: G000006130
- Submit Date: 8/23/2018

This submission has been issued an SRP Catalog ID: HB229738

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_17744
Sub ID:SUB_61972

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Friday, August 24, 2018 11:05 AM
To: Kincaid, Casey
Subject: G000006130, LSR120001, NJD982187460, HB229739, (Directory: 16-08057) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (ckincaid@geiconsultants.com) on (8/23/2018 4:46:26 PM) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 16-08057
- DESC: Sea Isle GW
- SRPID: G000006130
- Submit Date: 8/23/2018

This submission has been issued an SRP Catalog ID: HB229739

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_17745
Sub ID:SUB_61973

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Friday, August 24, 2018 11:07 AM
To: Kincaid, Casey
Subject: G000006130, LSR120001, NJD982187460, HB229740, (Directory: 16-08056) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (ckincaid@geiconsultants.com) on (8/23/2018 4:45:47 PM) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 16-08056
- DESC: Sea Isle GW
- SRPID: G000006130
- Submit Date: 8/23/2018

This submission has been issued an SRP Catalog ID: HB229740

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_17746
Sub ID:SUB_61974

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Friday, August 24, 2018 11:08 AM
To: Kincaid, Casey
Subject: G000006130, LSR120001, NJD982187460, HB229741, (Directory: 16-04762) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (ckincaid@geiconsultants.com) on (8/23/2018 4:44:47 PM) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 16-04762
- DESC: Sea Isle GW
- SRPID: G000006130
- Submit Date: 8/23/2018

This submission has been issued an SRP Catalog ID: HB229741

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_17747
Sub ID:SUB_61975

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Friday, August 24, 2018 11:09 AM
To: Kincaid, Casey
Subject: G000006130, LSR120001, NJD982187460, HB229742, (Directory: 16-04761) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (ckincaid@geiconsultants.com) on (8/23/2018 4:43:59 PM) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 16-04761
- DESC: Sea Isle GW
- SRPID: G000006130
- Submit Date: 8/23/2018

This submission has been issued an SRP Catalog ID: HB229742

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_17748
Sub ID:SUB_61976

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Tuesday, April 14, 2020 3:14 AM
To: Raphelson, Meredith
Subject: [EXT] G000006130, LSR120001, NJD982187460, HB253136, (Directory: 20-01900) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (mraphelson@geiconsultants.com) on (4/13/2020 14:15:36) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 20-01900
- DESC: Sea Isle City
- SRPID: G000006130
- Submit Date: 4/13/2020

This submission has been issued an SRP Catalog ID: HB253136

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_45476
Sub ID:SUB_422697

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Tuesday, April 14, 2020 3:15 AM
To: Raphelson, Meredith
Subject: [EXT] G000006130, LSR120001, NJD982187460, HB253137, (Directory: 20-01830) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (mraphelson@geiconsultants.com) on (4/13/2020 14:03:41) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 20-01830
- DESC: Sea Isle City
- SRPID: G000006130
- Submit Date: 4/13/2020

This submission has been issued an SRP Catalog ID: HB253137

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_45477
Sub ID:SUB_422721

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Tuesday, April 14, 2020 3:15 AM
To: Raphelson, Meredith
Subject: [EXT] G000006130, LSR120001, NJD982187460, HB253138, (Directory: 19-09097) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (mraphelson@geiconsultants.com) on (4/13/2020 13:34:15) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 19-09097
- DESC: Sea Isle City
- SRPID: G000006130
- Submit Date: 4/13/2020

This submission has been issued an SRP Catalog ID: HB253138

Submission status: Passed.

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Email ID: OEM_45478
Sub ID:SUB_422742

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Tuesday, April 14, 2020 3:16 AM
To: Raphelson, Meredith
Subject: [EXT] G000006130, LSR120001, NJD982187460, HB253141, (Directory: 19-06628) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (mraphelson@geiconsultants.com) on (4/13/2020 13:19:40) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 19-06628
- DESC: Sea Isle City
- SRPID: G000006130
- Submit Date: 4/13/2020

This submission has been issued an SRP Catalog ID: HB253141

Submission status: Passed.

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Email ID: OEM_45481
Sub ID:SUB_422754

Poinsett, Andrea

From: DEP SRPEDD <SRPEDD@dep.nj.gov>
Sent: Tuesday, April 14, 2020 3:16 AM
To: Raphelson, Meredith
Subject: [EXT] G000006130, LSR120001, NJD982187460, HB253144, (Directory: 19-02256) - Passed
Attachments: DTST.TXT; EDSA_Error_Log.html; erdtst-7-1-8.txt; erresult-7-1-8.txt; ersample-7-1-8.txt; HZRESULT.TXT; HZSAMPLE.TXT; rstp-7-1-8.txt; SampleLoc-7-1-8.KML

The EDD submission via email from (mraphelson@geiconsultants.com) on (4/13/2020 12:09:39) with the subjectline "[EXTERNAL] G000006130"

The following identifiers were in the DTST file:

- Directory: 19-02256
- DESC: Sea Isle City GW
- SRPID: G000006130
- Submit Date: 4/13/2020

This submission has been issued an SRP Catalog ID: HB253144

Submission status: Passed.

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Email ID: OEM_45484
Sub ID:SUB_422766