

REMEDIAL ACTION WORKPLAN
EWING TOWNSHIP INDUSTRIAL LAND
AOC-01C – MANUFACTURING BUILDING (SOUTH)
1445 PARKWAY AVENUE
EWING, NEW JERSEY
SRP PI # 011336
ISRA CASE # E97070

by
Haley & Aldrich, Inc.
Parsippany, New Jersey

for
RACER Trust
Detroit, Michigan

File No. 70613-857
July 2021





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09 July 2021
File No. 70613-857

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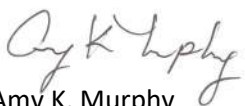
Attention: Bureau of Case Assignment & Initial Notice

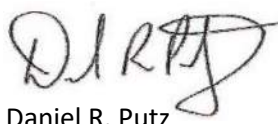
Subject: Remedial Action Workplan
RACER Trust – Ewing Township Industrial Land
Former Delphi Interior and Lighting Systems Division
AOC-01C – Manufacturing Building (South)
1445 Parkway Avenue
Ewing, New Jersey
NJDEP SRP PI No. 011336
ISRA Case No. E97070

Ladies and Gentlemen:

On behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust, Haley & Aldrich, Inc. (Haley & Aldrich) is providing this Remedial Action Workplan (RAW) for the Ewing Township Industrial Land, located at 1445 Parkway Avenue, Ewing, New Jersey (Site). This RAW was prepared to present the supplemental remedial activities proposed to be completed to reduce groundwater concentrations of chlorinated volatile organic compounds (CVOCs) in Area of Concern 01C (AOC-01C). The following work plan summarizes the rationale, selection, and proposed remedial design for further groundwater remediation at the Site. Completion of additional remediation at the Site is considered necessary to achieve compliance with applicable New Jersey Department of Environmental Protection (NJDEP) criteria consistent with the requirements of N.J.A.C. 7:26E.

Sincerely yours,
HALEY & ALDRICH, INC.


Amy K. Murphy
Licensed Site Remediation Professional # 586486


Daniel R. Putz
Program Manager

Enclosures

c: RACER Trust; Attn: Robert Hare

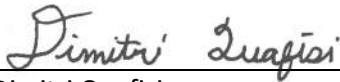
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SIGNATURE PAGE FOR

**REMEDIAL ACTION WORKPLAN
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AOC-01C –MANUFACTURING BUILDING (SOUTH)
1445 PARKWAY AVENUE
EWING, NEW JERSEY**

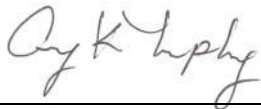
**PREPARED FOR
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1. Introduction

Haley & Aldrich, Inc. (Haley & Aldrich) is submitting this Remedial Action Workplan (RAW) on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust for the Ewing Township Industrial Land (formerly known as Delphi Interior and Lighting Systems Division) Site, located at 1445 Parkway Avenue, Ewing, New Jersey. The scope of this RAW includes groundwater remediation at 1445 Parkway Avenue of chlorinated volatile organic compounds (CVOs) in Area of Concern 01C (AOC-01C). A Project Locus map has been included as Figure 1 and a Site Plan has been included as Figure 2.

Case Name: RACER Trust - Ewing Township Industrial Land
Former Delphi Interior and Lighting Systems Division
SRP PI #: 011336
ISRA Case #: E97070

This RAW has been prepared for AOC-01C, the southern half of the former manufacturing building located in the Northwest corner of the Site (Figure 2). New Jersey Department of Environmental Protection (NJDEP) expressed concerns that concentrations of trichloroethene (TCE) in several monitoring wells in the AOC-01C area exceeded one percent of solubility, indicating the potential presence of a residual contaminant source. A significant soil VOC source was not identified despite extensive soil investigation efforts. In addition, elevated levels of hexavalent chromium are present in groundwater within AOC-01C, specifically highest at monitoring well MW-88. Additional remedial action is warranted to achieve compliance with applicable NJDEP requirements per N.J.A.C. 7:26E.

The purpose of this RAW is to:

- Summarize historical investigational and remedial activities completed for AOC-01C;
- Define the groundwater remediation area;
- Define groundwater remedial objectives and applicable standards; and
- Present the rationale and design of the proposed supplemental groundwater remediation.

1.1 SITE BACKGROUND

The Site consists of approximately 80 acres of land, comprised of two contiguous tax lots. In August 2018, Block 343, Lot 1.01 (approximately 80 acre) property was subdivided into two parcels, one continuing to be called Block 343, Lot 1.01 (approximately 76 acres) and the other a new parcel called Block 343, Lot 1.03/Sylvia Street Right-of-Way (approximately four acres). Parkway Town Center Urban Renewal, LLC (PTCUR) owns Block 343, Lot 1.01 (in its post-subdivision form), and the Township of Ewing owns Block 343, Lot 1.03/Sylvia Street Right-of-Way.

Remedial investigations and proposed remedial actions described herein have been and will be undertaken pursuant to the New Jersey Industrial Site Recovery Act (ISRA) and a 20 October 2010 Settlement Agreement between Motors Liquidation Company (MLC, formerly known as General Motors Corporation), the U.S. Environmental Protection Agency (EPA), the State of New Jersey, and other parties in the MLC bankruptcy proceeding. On 31 March 2011, as stipulated in the Settlement

Agreement, the Site's cleanup funding and real property title, along with certain obligations for addressing the MLC legacy contamination there, were transferred to RACER Trust.

The Site was previously used as farmland and orchards prior to development and is the former location of a manufacturing facility that was owned and operated by General Motors Corporation. The Site was operated for motor vehicle parts manufacturing from 1938 to 1998 and the facility operated as a Department of Defense aircraft assembly plant during World War II.

The Site has been referred to in the past by several names including the Turnstead Division of GM, Eastern Aircraft Division, Fisher Body Division, Fisher Guide Division, Inland Fisher Guide Division, Delphi Interior and Lighting Systems and the Old GM Plant. One or more of these names may have been used in previous reports or summaries of previous investigations and all refer to the facility.

The manufacturing plant at the Site closed in 1998 and demolition of Site structures occurred between the fall of 2000 and the spring of 2002. Redevelopment of the property is currently ongoing.

2. Site Regulatory Status

This RAW has been prepared in accordance with the NJDEP Administrative Requirements for the Remediation of Contaminated Sites (ARRCS) (N.J.A.C. 7:26C), the Technical Requirements for Site Remediation (TRSR) (N.J.A.C. 7:26E), and relevant technical guidance documents.

2.1 NJDEP CASE INVENTORY DOCUMENT

A completed Case Inventory Document (CID) has been provided in accordance with NJDEP requirements. The completed CID is included as Appendix A.

2.2 AUTHORIZATION TO SUBMIT A REPORT FORM AND COVER/CERTIFICATION FORM

This RAW is being submitted electronically through the NJDEP online portal. A copy of the “Authorization to Submit a Report” form is provided in Appendix B. A copy of the signed Cover/Certification Form is also included in Appendix B.

2.3 REGULATORY TIMEFRAME

Evidence of a discharge at this Site was discovered prior to 7 May 1999. Therefore, in accordance with the Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq. (SRRRA), specifically N.J.A.C. 58:10C-27a(3), the 7 May 2014 remedial investigation deadline applied to this Site. However, an extension request based on meeting criteria from section one of P.L.2013, c.283 was submitted to NJDEP on 20 March 2014, extending the deadline to complete the remedial investigation to 7 May 2016. This regulatory requirement was satisfied by submittal of a Soil Remedial Investigation Report (RIR) submitted to NJDEP on 19 June 2014 and a Groundwater RIR submitted to NJDEP in May 2016. On 1 February 2021, the NJDEP issued a Notice of Rule Waiver/Modification/Suspension pursuant to Executive Order No. 103, extending the timeframe to complete the remedial action from 6 May 2021 to 6 May 2022.

3. Physical and Hydrogeologic Setting

The following section presents the fundamental aspects of the physical and hydrogeologic setting of the Site, which provides the framework for the Conceptual Site Model (CSM).

3.1 PHYSICAL SETTING

Ground surface topography in the region is generally flat with low rolling hills incised by stream valleys, such as Gold Run. The Site is bounded on the west and south by railroad tracks that are topographically higher than the Site. A ditch has been created between the Site and the railroad tracks on the southern (aka Southern Swale) side of the Site because the railroad tracks are slightly elevated. The Site is bounded to the north by commercial areas located along Parkway Avenue, which are topographically higher than the Site; and Silvia Street to the east, which is an undeveloped dirt roadway to a nearby Ewing Township utility facility.

Rivers and streams within the vicinity of the Site, such as Gold Run and Jacobs Creek, flow generally to the south towards the Delaware River. The predominant surface water feature in the vicinity of the Site is Gold Run, which roughly transects the eastern side of the Site from north to south and is the topographic low of the Site. The storm sewers beneath Parkway Avenue discharge in the northeastern corner of the Site, which forms the present-day stream, Gold Run. Prior to 2011, the storm sewers beneath Parkway Avenue discharged into Gold Run Pond, which was located in the northeast corner and excavated in 2011, following excavation stream reconstruction was completed.

3.1.1 Geology

The geology of the Site has been identified as follows:

- **Overburden** - The overburden soils range in thickness from 0 to 20 feet (ft), overlying weathered bedrock. The soils are generally: fill, 0 to 10 ft thick, and residual bedrock, clays, silts, sands and rock fragments, 0 to 10 ft thick. The soils are thinnest at the northwest corner of the Site, and thicken in the center of the Site, where extensive fill has been placed, then thinning towards Gold Run. The overburden soils typically are dry, with groundwater present in the underlying weathered bedrock.
- **Weathered Bedrock** - The weathered bedrock is highly fractured bedrock, defined up to a depth of 30 ft below ground surface (bgs), where it transitions to competent bedrock.
- **Bedrock** - The underlying bedrock unit consists of alternating bands of light gray to reddish-brown, medium- to coarse-grained arkosic sandstone and reddish to purplish-brown siltstone and shale, with several thicker, more massive sandstone beds of the Raven Rock Member of Stockton Formation. The bedrock was formed during the late Triassic period. Bedding planes typically strike N80°E to N90°E, with a gentle dip angle to the north/northwest ranging from 9 to 14 degrees. Due to numerous episodes of faulting and fracturing, the bedrock is highly fractured, creating numerous hydraulically interconnected vertical and horizontal fractures similar to a macroscale porous media. Bedding plane joints, typical in New Jersey geology, are

present but their significance in relation to overall bedrock groundwater flow is overshadowed by significant structural geologic deformation, fracturing, and faulting.

3.1.2 Hydrogeology

The hydrogeology of the Site is as follows:

- Overburden/Weathered Bedrock - The overburden/weathered bedrock unit constitutes a single hydrogeologic unit and has an average hydraulic conductivity of 3×10^{-2} cm/s. Groundwater within the overburden/weathered bedrock aquifer flows from the west to east across the Site and discharges into Gold Run. Accordingly, Gold Run is a hydrogeologic boundary along the eastern portion of the Site for groundwater flowing through the overburdened/weathered bedrock.
- Bedrock - Groundwater flows from the northwest corner of the Site to the south, southeast, and east. The groundwater flows south along a fault that represents a low/no flow boundary on the west side of the Site. The bedrock groundwater flows east along the northern boundary of the Site, such that the northern boundary acts as up/side gradient in the bedrock aquifer. Similar to the overburden/weathered bedrock, Gold Run has been interpreted as a receiving (gaining) stream for bedrock groundwater flow. Several notable features are apparent in groundwater flow pattern in the bedrock unit.

Fracturing in the upper portion of the weathered bedrock and bedrock is significant and has resulted in these units behaving essentially as porous media. A review of fracture frequency versus depth indicates that the lithostatic pressure typically reduces the frequency of open, Rank 3 fractures past the 90 ft bgs depth. The decrease in fracture frequency corresponds to a decrease in bedrock hydraulic conductivity. The single exception to this pattern is where the formation consists of a thicker sandstone unit with a higher frequency of bedding plane joints, which results in increased hydraulic conductivity at this location.

Vertical gradients across the Site vary spatially both in direction and magnitude. In areas proximal to groundwater flow boundaries, such as Gold Run and the fault along the western border of the Site, vertical groundwater flow is upward. In the areas located some distance from the boundaries vertical flow is downward, indicative of groundwater recharge. The overburden/weathered bedrock unit exhibits a hydraulic conductivity approximately an order of magnitude greater than the bedrock unit, indicating more significant groundwater flow occurs in the overburden/weathered bedrock.

4. AOC-01C Background

4.1 AOC-01C MANUFACTURING BUILDING (SOUTH)

The proposed remedial action is focused on AOC-01C. Previous soil remediation has been conducted. Remaining Constituents of Concern (COCs) in groundwater include CVOCs and chromium. A summary of the location and operational history for AOC-01C is provided below.

4.1.1 Physical Description

AOC-01C contained the southern half of the former manufacturing building located in the northwest corner of the Site and comprises an area of approximately 11.6 acres. The manufacturing building was demolished during the period starting from November 2000 to March 2002. However, the concrete slab remained in place until after the transfer of the property in August 2018 and until demolition during redevelopment in 2019.

4.1.2 Operational History

The southern portion of the former manufacturing building consisted of Unit #6 - South Extension East. AOC-01C included the following former operational areas: the tool room wash deck; presses; former Plater Pit #5, which was also the black phosphating system; possible former Plater Pits #1, #2 and #3; former Plater Pit #4; former Plater Pit #6; former Plater Pit #7; former Plater Pit #12; barrel finishing and tumbling area; scrap metal bins; pits for plastisol paint and primer; existing die cast area; former 10,000-gallon gasoline underground storage tank (UST) location (E005); former wastewater treatment system containment pit; concrete containment for former caustic acid and liquid aboveground storage tanks (ASTs); solution storage room; and a trash compactor area. Formerly used sumps and pits were uncovered and cleaned out for NJDEP inspection in November 2003. Rail spurs connected to the railroad entered the former manufacturing building at the southeast and southwest corners.

4.1.2.1 Unit #6 - South Extension East

The Unit #6 area of the manufacturing building consisted of a solution storage area and limited office space. Six ASTs containing plating solutions were located in this area. These ASTs included: 35,000-gallon copper cyanide; 20,000-gallon chromic acid; 25,000-gallon acid copper; 18,000-gallon Semi-Brite nickel solution; 18,000-gallon Brite nickel solution; and 15,000-gallon caustic. According to facility personnel, plating solutions were mixed at the plater using raw materials diluted with water. Plating solutions were pumped via overhead pipelines directly to the plating process tanks located at the No.12 Plater line in Unit #6. Secondary containment in the tank area consisted of a concrete-lined trench.

4.1.3 Former AOIs included in AOC

The Site was originally divided into individual Areas of Interest (AOIs) based on operations and ISRA investigation requirements. These AOIs were carried forward based on discussions with the NJDEP; however, for current investigation/remediation purposes, the Site has since been divided into larger AOCs which contain one or more of the AOIs due to similarity of COCs and past operations. AOIs formerly associated with AOC-01C are listed below.

- AOI 1-19 - Pit 301 - Eastern Track Well
- AOI 1-20 - Pit 229 - Sump
- AOI 1-21 - Lateral Pipe 5
- AOI 1-22 - Pit 108 - Sewer Sump
- AOI 1-23 - Pit 109 - Sewer Sump
- AOI 1-24 - Plater Pit 5
- AOI 1-25 - Plater Pit 6
- AOI 1-26 - Pit 302 - Western Track Well
- AOI 1-27 - Pit 111 - Sewer Sump
- AOI 1-28 - Pit 110 - Sewer Sump
- AOI 1-29 - Pit 239 - Sump
- AOI 1-30 - Lateral Pipe 6
- AOI 1-31 - Plater Pit 12
- AOI 1-32 - Lateral Pipe 7
- AOI 1-33 - Pit 255 - Sump
- AOI 1-34 - Pit 113 - Sewer Pit
- AOI 1-35 - Pit 275 - Condensate Return Sump
- AOI 1-36 - Existing Die Cast Area
- AOI 1-37 - Plater Pit 7
- AOI 1-38 - Scrap Metal Pits
- AOI 1-39 - Pit 250 - Sump
- AOI 1-40 - Pit 249 - Plastisol Paint and Primer Pit
- AOI 1-41 - Pit 264 - Imbiber Bead Box
- AOI 1-42 - Former Press Storage Area
- AOI 1-43 - Pit 261 - Sump
- AOI 1-44 - Pit 262 - Sump
- AOI 1-45 - De-Ion Room
- AOI 1-46 - Pit 263 - DI Pit
- AOI 1-47 - Connection Pipe 1A
- AOI 1-48 - Lateral Pipe 8
- AOI 1-49 - Chemical Storage Area in Solution Storage Room
- AOI 1-50 - Former Gasoline UST beneath the Solution Storage Room
- AOI 1-51 - Pit 268 - Solution Storage Room Trench
- AOI 1-52 - Pit 271 - Hydraulic Compactor Trench

5. Previous Remedial Events and Current State

A Groundwater RIR was submitted in May 2016 to fulfill the regulatory deadline for the remedial investigation of the Site. The RIR provided details on delineation activities, CSM preparation, and a summary of remedial activities conducted at the Site up to the 2016 submittal of the RIR. Further details of the RIR and previous remedial events are provided below.

5.1 INTERIM REMEDIAL MEASURES/PREVIOUS REMEDIAL ACTIONS

Remedial activities that have been completed in AOC-01C have included UST removal, excavation of soil source material, and enhanced reductive dechlorination (ERD) technologies. Below is a summary of these remedial activities:

- **AOC-01C – 10,000-Gallon UST Removal.** Based on review of a historical Site map, a suspected gasoline UST was located under the Solutions Storage Room located in the southeast corner of the former manufacturing slab in AOC-01C. At some point during the operational timeframe of the plant, the dispensing units and piping were removed from the UST and the tank was partially filled with sand. In April 2008, the UST system (E005) was closed as part of on-going Site remediation activities. This remedial activity was previously documented in the 31 July 2008 Site Investigation Report for UST Closures. Approximately 119 tons of soil were excavated and disposed of from both this excavation and the 1,000-gallon UST removal (E006) in AOC-01A. Additionally, approximately 2,467-gallons of water was removed from the tank for disposal. Following excavation, the area was backfilled.
- **AOC-01C – Plater Pits #5 and #6 Excavations.** The 14 August 2009 NJDEP comment letter for the December 2008 Revised Remedial Action Workplan considered Plater Pit #5 and Plater Pit #6 to be “hot spot[s]” “that required a permanent remedial strategy”. Soil excavation activities were conducted between 24 September 2013 and 7 October 2013. The Plater Pit #5 excavation measured approximately 18.3 ft wide by 38.3 ft long and approximately 5 ft deep. Approximately 130 cubic yards (cu yd) of material was removed from Plater Pit #5. The Plater Pit #6 excavation measured approximately 38.3 ft wide by 78.3 ft long by 5.8 ft deep. Approximately 644 cu yd of material were removed from Plater Pit #6. A total of 767 tons of soil was disposed of between 27 September 2013 and 4 October 2013. The area was then backfilled.
- **AOC-01C – Impact to Groundwater Excavations.** Five excavations were conducted in March 2018 to address the potential impact to groundwater (IGW) pathway in AOC-01C. The objective of the excavations was compliance with Impact to Groundwater Site-Specific Soil Remediation Standards (IGWSSRS). The five excavations are detailed below.

1) AOC-01C – Impact to Groundwater Excavation IGW-EX-A08.

Area:	IGW-EX-A08
Date Excavated:	26 February 2018
Targeted Boring Location:	SB-F10
Constituent of Concern:	TCE at 31 milligrams per kilogram (mg/kg) at 2.0 ft bgs

Target Depth: Water table at approximately 13.1 ft
Final Size: 75 square feet (sq. ft) by 12.7 ft deep (36 cu yd)
IGW Determination Method: 75%/10x

Discussion: Following the excavation, two soil samples per side wall were collected. The shallow samples were collected at 2 ft bgs (the depth of the original exceeding sample), while the deep samples were collected at 10 ft bgs. A total of eight samples were submitted to the laboratory for analysis. The shallow sample at IGW-EX-A08-C and the deep one at IGW-EX-A08 exceeded IGWSSRS at concentrations of 1.4 mg/kg and 6.6 mg/kg, respectively. The remaining samples did not exceed IGWSSRS. Therefore, the excavation passed the 75 percent/10 times determination and no further excavation was required. Backfilling was completed on 14 March 2018.

2) AOC-01C – Impact to Groundwater Excavation IGW-EX-B01.

Area: IGW-EX-B01
Date Excavated: 12 March 2018
Targeted Boring Location: 109-1
Constituent of Concern: Chromium at 3,840 mg/kg at 7.8 ft bgs
Target Depth: Water table at approximately 14.0 ft bgs
Final Size: 76 sq. ft by 11.3 ft deep (32 cu yd)
IGW Determination Method: Confirmation samples were all below IGWSSRS

Discussion: Following the excavation, two soil samples per side wall were collected. The shallow samples were collected from 7.8 ft bgs (the depth of the original exceeding sample) and the deep samples were collected from pervasive gray mottled material at 11 ft bgs. A total of eight samples were submitted to the laboratory for analysis. Post-excavation, sample analytical results were below the IGWSSRS for the samples collected. Therefore, no further excavation was necessary. The excavation was backfilled with clean fill on 28 March 2018.

3) AOC-01C – Impact to Groundwater Excavation IGW-EX-B02.

Area: IGW-EX-B02
Date Excavated: 13 March 2018
Targeted Boring Location: 268-2
Constituent of Concern: Nickel at 9,940 mg/kg at 1.5 ft bgs
Target Depth: Water table at approximately 15.7 ft bgs
Final Size: 77 sq. ft by 12.9 ft deep (37 cu yd)
IGW Determination Method: Confirmation samples were all below IGWSSRS

Discussion: Following the excavation, two soil samples per side wall were collected. The shallow samples were collected from 1.5 ft bgs and the deeper samples were collected from 3 ft bgs from a dark seam in the soil column, which corresponded to the elevated nickel from soil boring 268-2. A total of eight samples were submitted to the laboratory for analysis. Post-excavation sample analytical results were below the

IGWSSRS criteria for the eight post-excavation samples collected. Therefore, no further excavation was necessary. The excavation was backfilled on 23 March 2018.

4) AOC-01C – Impact to Groundwater Excavation IGW-EX-B11.

Area: IGW-EX-B11
Date Excavated: 12 March 2018
Targeted Boring Location: PL05-02
Constituent of Concern: Nickel at 12,500 mg/kg at 4.0 ft bgs
Target Depth: Water table at approximately 10.0 ft bgs
Final Size: 63 sq. ft by 10.1 ft deep (24 cu yd)
IGW Determination Method: Confirmation samples below IGWSSRS

Discussion: Following the excavation, two soil samples per side wall were collected. The shallow samples were collected from 4 ft bgs (the depth of the original exceeding sample) and the deeper samples were collected from 5.5 ft bgs. A total of eight samples were submitted to the laboratory for analysis. The excavation was completed on 12 March 2018. Post-excavation sample concentrations were below the IGWSSRS for nickel. Therefore, no further excavation was necessary. The excavation was backfilled on 28 March 2018.

5) AOC-01C – Impact to Groundwater Excavation IGW-EX-B23.

Area: IGW-EX-B23
Date Completed: 13 to 19 March 2018
Targeted Boring Location: SR-1
Constituent of Concern: Chromium at 5,900 mg/kg at 1.0 ft bgs
Target Depth: Water table at approximately 16.1 ft bgs
Final Size: 107 sq. ft by 10.4 ft deep (41 cu yd)
IGW Determination Method: Confirmation samples below IGWSSRS

Discussion: Following the excavation, two soil samples per side wall were collected. The shallow samples were collected from 1 ft bgs (the depth of the original exceeding sample), while the deeper samples were collected from 2.5 ft bgs. Eight samples were submitted to the laboratory for analysis. The shallow sample from IGW-EX-B23-B exceeded IGWSSRS, with a concentration of 12,200 mg/kg. The other post-excavation samples did not exceed IGWSSRS; however, because IGW-EX-B23-B exceeded by an order of magnitude, the 75 percent/10 times method was not applicable. Therefore, the excavation was expanded on 19 March 2018 by approximately 5 ft to the west to remove the additional impacted soil. Two samples per side wall were collected from the expansion (six samples in total) and submitted to the laboratory for analysis. The post-excavation samples from the expanded excavation had concentrations below IGWSSRS. Therefore, no further excavation was necessary. The excavation was backfilled on 5 April 2018.

- **Groundwater Recirculation and Injections.** In 2019 and 2020, pilot test events were conducted within Loop #1, between RW-208 (extraction well) and RW-207 (injection well) (Figure 4) under

an approved Permit-by-Rule (PBR), dated 26 September 2019. During the recirculation event of October 2019, approximately 22,000 pounds of Provect-ERD™ and 10 liters of bioaugmentation culture were injected into the subsurface, and approximately 39,905 gallons of groundwater was recirculated. In May 2020, RACER received an extension to the PBR to conduct an additional event at the Site as the PBR time period was affected by the 2020 COVID-19 shutdowns. During the recirculation event of July 2020, approximately 28,000 pounds of Provect-ERD-CH4™ and 30 liters of bioaugmentation culture were injected into the subsurface, and approximately 45,000 gallons of groundwater was recirculated.

6. Remedial Action Workplan

The groundwater at the Site is primarily impacted with TCE and its daughter products cis-1,2-DCE and vinyl chloride. NJDEP expressed concerns that concentrations of TCE in several monitoring wells in the AOC-01C area exceeded one percent of solubility, indicating the potential presence of a residual contaminant source. A significant soil VOC source was not identified despite extensive soil investigation efforts. In addition, elevated levels of hexavalent chromium are present in groundwater within AOC-01C. Hexavalent chromium groundwater impacts are suspected to be a result from former Plater Pit #6 operations; this plater pit was remediated in October 2013. Table I and Figure 3A through 3F provides the most recent groundwater analytical data for the Site.

The proposed remedial measure includes additional in-situ reductive dechlorination to address current groundwater concentrations. The previous two pilot tests have effectively reduced the TCE concentration from 56,000 ug/l in MW-85 to non-detect or more than four orders of magnitude. This remedial effort will continue to address elevated TCE concentrations outside of the pilot area as well as continue to monitor breakdown products. The goal of the remedial activities is to further reduce CVOC and hexavalent chromium concentrations in groundwater in the target treatment areas and enhance the environment for sustained natural attenuation, enhanced biodegradation reduction of CVOCs, and reduction of hexavalent chromium to trivalent chromium in AOC-01C.

6.1 APPLICABLE REMEDIATION STANDARDS AND REMEDIAL GOAL

The applicable remediation standards are the New Jersey Groundwater Quality Standards (GWQS) for Class IIA aquifers presented in N.J.A.C. 7:9C. The remedial strategy for the Site is to achieve a sustained decrease in elevated groundwater concentrations, such that the target treatment area groundwater quality at the Site can transition to Monitored Natural Attenuation (MNA) remedial approach in the future. The goal of the remedial effort is to create a reducing (approximately -100 millivolt (mV) redox potential) and an anaerobic environment (approximately 1 milligram per liter (mg/L) dissolved oxygen or less) in the target treatment area groundwater. Additional remedial events may occur.

6.2 EXTENT OF TREATMENT AREA AND VOLUME TO BE TREATED

This remedial action targets on-Site CVOC and hexavalent chromium concentrations in the target treatment areas within AOC-01C. The remedial area is shown on Figure 4 and 5. The remedial action will be applied in a phased approach (over several years), adjusting remedial efforts based on measured responses to the in-situ efforts. For instance, if after several quarters of performance monitoring, geochemical parameters indicate that remedial efforts have not created sufficiently reducing conditions, additional remedial events may be completed. Therefore, a five-year PBR was applied for with the NJDEP with approval given on July 8, 2021, provided in Appendix D. The planned remedial action is described in further detail in Section 6.3.

The targeted treatment areas are defined as the area surrounding bedrock monitoring wells MW-86, MW-87, and the area surrounding bedrock monitoring well MW-88. These monitoring wells exhibited groundwater concentrations of TCE above 10 milligrams per liter (mg/L), with depths ranging from 60 to 120 ft bgs. Monitoring well MW-88 exhibited the highest hexavalent chromium at 2.2 mg/L in December 2014. Remediation wells were installed targeting the 60 ft bgs to 150 ft bgs portion of the

aquifer. The proposed treatment areas are shown on Figures 4 and 5. The remediation will target approximately 106,000 cu yd and approximately 215,000 gallons of mobile pore volume over approximately 40,000 sq. ft.

6.3 REMEDIAL ACTION PLAN

The remedial event is designed to create a sustained reducing environment to enhance and stimulate biodegradation in the treatment areas, and thereby, reduce the CVOC concentrations within the AOC-01C area. The planned remedial action includes:

- The recirculation event utilizes existing remediation wells within AOC-01C (Figure 4). Three recirculation and injection legs will be simultaneously operated using both a solar skid mounted and a manual recirculation system. The solar skid mounted system will operate Leg #2 and Leg #3, while the manual system will operate Leg #4. A phased approach will be applied to the target treatment areas over multiple years where the remedial amendment is emplaced in the subsurface via extraction of groundwater from existing remediation wells within in AOC-A01C, that is then amended with the proposed remedial amendments and reinjected into the subsurface. If adequate distribution is not achieved using this technique, additional remedial events may be necessary.

The remedial action is designed to stimulate native bacterial populations by creating a sustained reducing, anaerobic environment, as well as supplementing the native populations with a bioaugmentation culture in the target treatment areas. The proposed electron donor is an emulsified oil product (Provect-ERD™ or similar product) combined with a bioaugmentation culture (SDC-9™ or similar product). The safety data sheets for the proposed amendments are provided in Appendix C. The delivery of the electron donor is anticipated to be completed over five years, and therefore, consistent with NJDEP regulations, public notification is required and was submitted with the PBR application. Following performance monitoring, which is described in greater details in Section 7, if reducing and anaerobic environments are not established following the initial remedial effort in the shallow overburden, subsequent remedial events will be conducted to stimulate natural attenuation and enhanced reductive dechlorination.

6.3.1 ERD Selection

The selected remedial approach for the targeted treatment of CVOCs present in AOC-01C is ERD via Provect ERD-CH4™ combined with a bioaugmentation culture such as SDC-9™. A fully soluble amendment such as sodium lactate may also be used in future remedial events if even distribution of the Provect ERD-CH4™ does not occur in one of the remedial legs. These emulsified oil products are multi-faceted remedial amendments that provide electron donors and methane inhibitors. The electron donor itself will also promote reducing conditions as well as provide a source of energy for biological processes. A methane inhibitor may be added during the recirculation events to address potential methane generation. The methane inhibitors, which are essential oils and extracts from red yeast rice, are added to the electron donor product and will allow for the inhibition of methanogens that can compete with the dehalococcoides (DHC) and other reductive dechlorinating bacteria for electron donors. During the recirculation process, groundwater is not treated prior to reinjection, as treatment would strip many of the nutrients that the microbes need, as well as introduce air into the groundwater stream, potentially eliminating the naturally occurring anaerobic microbes.

The Site-specific health and safety plan has been updated to include the ERD application within AOC-01C. Visual monitoring of the site and surrounding well network will also be completed to identify potential “daylighting” of the amendments once they have been injected.

6.3.2 PROPOSED APPLICATION

Injections of the substrate for ERD will be achieved through the use of both a solar skid-mounted recirculation system and a manual recirculation system. The solar skid-mounted system allows for the control of pumps and the addition of substrate into the system via the branch lines located on the skid. The skid will control flow within the RW-209 and RW-210 injection legs, which target areas around monitoring well MW-87 and MW-86, respectively, and extract water from RW-207, as shown in Figure 4 and Figure 5 (Legs #2 and #3). In subsequent remedial events, Leg #1, shown in Figure 4 and Figure 5, which utilizes RW-207 as the injection well and RW-208 as the extraction well, may also be used in the recirculation activities should results indicate additional recirculation is necessary.

The manual recirculation system allows for direct recirculation between vertical wells RW-211 and RW-212, which span the area around monitoring well MW-88, as shown in Figure 4 and Figure 5 as Leg #4. The groundwater will be pumped from a downgradient extraction well and piped through the system to an upgradient injection well, coupled with periodic batch addition of the remedial amendment. The electron donor may be diluted with groundwater to between 25 percent and 60 percent fermentable carbon and batch injected into the subsurface as opposed to a continuous feed. Prior to and following the batch additions, recirculation of the groundwater will be occurring. This process is intended to enhance substrate distribution and growth of DHC. As mentioned previously, a DHC culture will be added throughout this recirculation process. The substrate will be added in batches to yield an initial goal of 1.5 g/L carbon loading recirculated into the target treatment area. This approach has been found to reduce biofouling on other programs that Haley & Aldrich has conducted on Sites across the country.

The MW-86 and MW-87 loops shown on Figure 4 and Figure 5, consist of a downgradient extraction well (RW-207) and two angled upgradient injection wells (RW-210 and 209, respectively). This system is anticipated to operate at a flow rate of up to 10 gallons per minute (gpm); however, rates will be modified in the field as pumping operations continue. The recirculation will consist of extraction from RW-207 and the three-four-week injection at each Leg (Leg #2 or Leg #3) individually, cycling until the end of the 2021 remedial program. The solar skid mounted system will be operated for up to six months during 2021; the extended pumping time will allow for better mixing and distribution of carbon substrate in the larger target treatment area. Depending on performance monitoring results and aquifer response, the initial configuration may be modified by adjusting pumping rates and substrate injection to improve substrate distribution/performance.

The MW-88 loop shown on Figure 4 and Figure 5, consists of a downgradient extraction well (RW-211) and one upgradient injection well (RW-212). This Leg #4 will be conducted concurrently with Legs #2 and #3 once the skid is operational. Leg #4 will run for approximately three weeks. These pumping scenarios allow for the targeted treatment of elevated levels of hexavalent chromium and TCE within AOC-01C. The remediation plan consists of two vertical wells constructed to recirculate groundwater and substrate targeting the highest observed concentrations of TCE and hexavalent chromium. This loop is anticipated to operate at a flow rate of up to 6 gpm for three weeks, however, rates and duration will be modified in the field as pumping operations continue. Depending on performance monitoring

results and aquifer response, the initial configuration may be modified by adjusting pumping rates and substrate injection to improve substrate distribution/performance.

Based on the modeling and presumed groundwater exchange of two to three pore volumes, up to 30,000 pounds of the electron donor will be required for each leg of this project and up to 300 liters for the bioaugmentation culture, SDC-9™. However, given the potential variability in the aquifer and the five-year time frame, we are requesting NJDEP to approve a permit for up to 300,000 pounds of substrate, so that the carbon substrate loading can be tailored to field measurements of carbon in the groundwater and 1,000 liters of bioaugmentation culture for the five-year PBR, as seen in the Table below. The anticipated flow rate for the groundwater recirculation is up to 10 gpm in the MW-86 and MW-87 treatment area and up to 6 gpm in the MW-88 treatment area. Field documentation will include actual volume and concentration of amendment, injection rates and pressures monitored via flow meters and pressure gauges at the well head, depth to water, and total gallons of amendment measured using graduated totes/tanks.

As this PBR encompasses up to a 5-year injection program, the following table outlines the potential amendment usage:

Recirculation Leg	Event Number	Estimated Electron Donor (pounds)	Estimated Bioaugmentation Culture (L)
Leg #2	1 (2021)	30,000	100
Leg #3	1 (2021)	30,000	100
Leg #4	1 (2021)	30,000	100
Leg #2	2 (TBD)	30,000	100
Leg #3	2 (TBD)	30,000	100
Leg #4	2 (TBD)	30,000	100
Leg #1	2 (TBD)	30,000	100
Leg #2	3 (TBD)	30,000	100
Leg #3	3 (TBD)	30,000	100
Leg #4	3 (TBD)	30,000	100

The remedial amendments will be stored within secondary containment. The secondary containment will be large enough to contain 10 percent of the total volume or 100 percent of the largest container, whichever is greater, per United States Environmental Protection Agency (USEPA) guidance, 40 CFR 264.175(b). Any necessary mixing will be contained within this secondary containment area. Spill containment material will also be present onsite including but not limited to absorbent pads and materials such as bentonite. Hoses will be secured to injection well heads via zip ties or similar securing materials.

Water levels will be monitored in the monitoring well network nearby to both the solar skid and manual recirculation systems. The water levels will be monitored utilizing transducers in select monitoring wells. While we expect water level elevation changes in the target treatment area, should an increase in water level result in head reversal from the current natural flow conditions, the systems will be stopped and reassessed to determine how the pumping influence has affected the aquifer. Water levels will be monitored manually for one week after beginning recirculation in select monitoring wells to ensure the amendment is not traveling outside the expected treatment area. If amendment is traveling outside the expected treatment area, the systems will be stopped and reassessed.

Based on the monitoring results, additional in-situ recirculation may be necessary and will be repeated to further enhance biodegradation of CVOCs in groundwater in the targeted treatment area. Metrics for additional recirculation will be based on geochemical and CVOC concentrations. Total organic carbon (TOC) concentrations of below 15 mg/L with stalling CVOC degradation (stable, but elevated concentrations of CVOCs, significant decrease in dissolved gases ethene and/or ethane, and non-ideal field parameters) will trigger evaluation of additional recirculation within that Leg.

6.4 QAPP

A Quality Assurance Project Plan (QAPP) prepared in accordance with N.J.A.C. 7:26E-2.2 will be followed for the work to be performed during implementation of this RAW.

7. Performance Monitoring

The effectiveness of the groundwater remedial program will be evaluated based on the results of quarterly post-injection groundwater monitoring. Groundwater samples will be collected from select wells and the sample port on the skid system at the frequency and for the listed analyses presented in Table II. The proposed performance monitoring well network is shown on Figure 6. Samples will be collected from the solar skid system sample port and the following wells surrounding the target treatment zone:

- Sample Port on Skid
- MW-18A
- MW-20A
- MW-44
- MW-84R
- MW-84AR
- MW-85
- MW-86
- MW-87
- MW-88
- RW-200C (Deep zone)
- RW-201C (Deep zone)
- RW-202C (Deep zone)
- RW-203C (Deep zone)
- RW-204C (Deep zone)
- RW-205 (Three cluster wells)
- RW-206 (Three cluster wells)

Low-flow sampling techniques will be utilized in accordance with the 2005 NJDEP Field Sampling Procedures Manual. Field parameters, including pH, dissolved oxygen, redox potential, temperature, conductivity, depth to water, and turbidity will be collected as part of the sampling program. Samples will be shipped to a NJDEP certified laboratory under standard chain of custody procedures. Groundwater samples collected in the treatment area will be analyzed for Target Compound List (TCL) VOCs via 8260C and metals via 6020B as shown in Table II. TOC will be analyzed at select wells in addition to the VOC analysis for performance monitoring to evaluate the distribution of the electron donor, which will increase the TOC concentration. Also, dissolved gases such as methane, ethene, and ethane may be analyzed at select wells throughout the monitoring program via RSK 175. The analysis of VOCs will allow for evaluation of contaminant reductions and geochemical parameters to provide insight into amendment depletion and performance. Additional sampling may be conducted for performance evaluation at select wells.

8. Permit-Related Classification Exception Area/Well Restriction Area

In accordance with N.J.A.C. 7:26C-7.3, a Classification Exception Area (CEA) and Well Restriction Area (WRA) is required due to the presence of groundwater contamination within the proposed target treatment area. The permit-related CEA encompasses the treatment area is approximately 500 ft wide and 575 ft long, as well as 200 ft deep. The CEA duration for this permit application is estimated to be five years from the start of the proposed remediation and includes the current groundwater contaminants and compounds which could potentially be generated during the remedial event. Figure 4 through Figure 9 shows the horizontal and vertical extent of the CEA boundary and Table III provides a list of compounds included in the permit-related CEA.

9. Permits

Haley & Aldrich, on behalf of RACER, submitted a Discharge to Groundwater PBR application, in accordance with the requirements of N.J.A.C. 7:14A-7.5 and consistent with the requirements of N.J.A.C. 7:26E-5.6, on 28 May 2021. The PBR approval was granted on July 8, 2021.

In addition, public notification was published in the Star Ledger on 15 May 2021. The PBR and public notification are provided in Appendix D.

10. Implementation Schedule

The anticipated schedule for implementation of the ERD activities related to the PBR application is presented below.

Work Phase	Activity	Target Task Completion Date
Preparation	ERD Planning and Design	Winter/Spring 2021
	PBR application submittal	May 2021
	30-day Public Notice	May 2021
	NJDEP Approval of PBR	XXX 2021
	Submittal of RAW	June 2021
	Baseline groundwater sampling	Q2 2021
Remedial Action	Injection	June-December 2021
	Post-remedial/performance monitoring	Q3-Q4 2021, Q1-Q2 2022
Potential Additional Remedial Actions	Future remedial events	TBD following performance monitoring

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TABLES

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-1	MW-1	MW-1	MW-1A	MW-1A	MW-1A	MW-2	MW-2	MW-2A	MW-2A	MW-3	MW-3	MW-3A	MW-3A	MW-4	MW-4	MW-4A	MW-4A
Sample Date	Quality	03/06/2018	10/22/2020	03/16/2021	03/06/2018	10/22/2020	03/16/2021	03/01/2018	10/27/2020	03/01/2018	10/27/2020	03/01/2018	10/27/2020	03/01/2018	10/27/2020	03/01/2018	10/27/2020	03/01/2018	03/01/2018
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	FD
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																			
Temperature (Deg C)	-	8.27	19.99	11.92	10.02	16.7	13.06	11.84	17.84	13.1	16.67	13.07	14.44	14.41	12.87	11.75	16.05	13.67	-
Conductivity, Field (mS/cm)	-	0.241	0.52	0.931	0.391	0.448	0.296	0.516	0.737	0.381	0.466	0.451	0.44	0.428	0.387	0.954	0.949	0.634	-
ORP, Field (mv)	-	107.2	35	67.5	90.1	-83.8	-29.2	32.4	121.1	35.4	-22.6	26	63.9	12.9	51.3	-65.5	39.8	-13.3	-
Turbidity, Field (NTU)	-	6.26	999	999	5.83	182	72.4	7	12.3	3.8	5.44	17.4	10.4	22.4	6.94	6.3	22.4	33.1	-
pH, Field (pH units)	-	6.75	6.59	6.27	6.41	6.87	6.18	6.7	6.6	6.32	6.4	6.19	5.8	6.24	5.79	6.94	6.37	6.56	-
Dissolved Oxygen, Field (ug/L)	-	2110	490	3360	750	220	680	1290	450	820	70	110	70	120	150	1110	120	270	-
Inorganic Compounds (ug/L)																			
Antimony	6	0.82 J	-	-	ND (2)	-	-	2.4	-	1.6 J	-	1.8 J	-	1.6 J	-	2	-	1.7 J	2.1
Arsenic	3	1.7 J	-	-	1 J	-	-	ND (2)	-	ND (2)	-	1.7 J	-	ND (2)	-	3.1 ^[AI]	-	2	1.7 J
Barium	6000	54.4	-	-	121	-	-	55.1	-	53.8	-	77.9	-	212	-	828	-	180	181
Beryllium	1	ND (0.8)	-	-	0.53 J	-	-	ND (0.8)	-	ND (0.8)	-	ND (0.8)	-	ND (0.8)	-	ND (0.8)	-	ND (0.8)	ND (0.8)
Cadmium	4	ND (2)	-	-	ND (2)	-	-	5.8 ^[AI]	-	ND (2)	-	ND (2)	-	ND (2)	-	ND (2)	-	ND (2)	ND (2)
Chromium	70	2.7 J	258 ^[AI]	-	2.4 J	19.3	-	1.9 J	4.3	4	3 J	3.5 J	ND (4)	1.5 J	ND (4)	4.7	2.4 J	10.1	9.1
Chromium VI (Hexavalent)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	100	ND (4)	-	-	10.1	-	-	ND (4)	-	ND (4)	-	1.5 J	-	1.7 J	-	1.5 J	-	4.4	4.2
Copper	1300	12.6	-	-	ND (4)	-	-	2 J	-	4.8	-	ND (4)	-	1.9 J	-	6.5	-	14.5	13.6
Cyanide	100	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Iron	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron, Dissolved	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	5	7.6 ^[AI]	-	-	ND (1.2)	-	-	ND (1.2)	-	ND (1.2)	-	0.63 J	-	ND (1.2)	-	0.66 J	-	ND (1.2)	ND (1.2)
Manganese	50	27.2	-	-	3810 ^[AI]	-	-	200 ^[AI]	-	1380 ^[AI]	-	3220 ^[AI]	-	1750 ^[AI]	-	3490 ^[AI]	-	4240 ^[AI]	4130 ^[AI]
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	2	ND (0.2)	-	-	ND (0.2)	-	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	ND (0.2)
Nickel	100	3.7 J	195 ^[AI]	-	19.3	44.9	-	9.4	37.8	26.4	17.6	16.7	28.2	7.3	6	28.2	55	12	11.1
Selenium	40	ND (10)	-	-	ND (10)	-	-	1.2 J	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Silver	40	ND (2)	-	-	ND (2)	-	-	ND (2)	-	ND (2)	-	ND (2)	-	ND (2)	-	ND (2)	-	ND (2)	ND (2)
Sodium	50000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	2000	54.5	-	-	8.1 J	-	-	592	-	5.8 J	-	44.1	-	ND (16)	-	132	-	ND (16)	ND (16)
Other (ug/L)																			
Alkalinity, Bicarbonate (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Hydroxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Dioxide, Free	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite/Nitrate	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	500000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs (ug/L)																			
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	ND (0.4)
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	ND (0.4)
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	ND (0.4)
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	ND (0.4)
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	ND (0.4)
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	ND (0.4)
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	ND (0.4)
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	ND (0.4)
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	ND (0.4)
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	ND (0.4)
Semi-Volatile Organic Compounds (ug/L)																			
1,4-Dioxane	0.4	ND (0.2)	ND (0.2)	-	0.24	0.48 ^[AI]	-	ND (0.2)	0.084 J	0.1 J	0.21	0.095 J	0.16 J	0.58 ^[AI]	0.38	0.29	0.24	0.33	0.29
2,2'-oxybis(1-Chloropropane)	300	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
2,4,5-Trichlorophenol	700	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
2,4,6-Trichlorophenol	20	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
2,4-Dichlorophenol	20	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Haley & Aldrich, Inc.																			

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-1	MW-1	MW-1	MW-1A	MW-1A	MW-1A	MW-2	MW-2	MW-2A	MW-2A	MW-3	MW-3	MW-3A	MW-3A	MW-4	MW-4	MW-4A	MW-4A
Sample Date	Quality	03/06/2018	10/22/2020	03/16/2021	03/06/2018	10/22/2020	03/16/2021	03/01/2018	10/27/2020	03/01/2018	10/27/2020	03/01/2018	10/27/2020	03/01/2018	10/27/2020	03/01/2018	10/27/2020	03/01/2018	03/01/2018
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	FD
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	100	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
2,4-Dinitrophenol	40	ND (20)	-	-	ND (20)	-	-	ND (21)	-	ND (21)	-	ND (21)	-	ND (21)	-	ND (21)	-	ND (21)	ND (21)
2,4-Dinitrotoluene	10	ND (2)	-	-	ND (2)	-	-	ND (2.1)	-	ND (2.1) F1	-	ND (2.1)	-	ND (2.1)	-	ND (2.1)	-	ND (2.1)	ND (2.1)
2,6-Dinitrotoluene	10	ND (2)	-	-	ND (2)	-	-	ND (2.1)	-	ND (2.1)	-	ND (2.1)	-	ND (2.1)	-	ND (2.1)	-	ND (2.1)	ND (2.1)
2-Chloronaphthalene	600	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
2-Chlorophenol	40	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
2-Methylnaphthalene	30	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
2-Methylphenol (o-Cresol)	50	ND (10) *	-	-	ND (10) *	-	-	ND (10) *	-	ND (10) *	-	ND (10) *	-	ND (10) *	-	ND (10) *	-	ND (10) *	ND (10) *
2-Nitroaniline	100	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
2-Nitrophenol	100	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
3,3'-Dichlorobenzidine	30	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
3-Nitroaniline	100	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
4,6-Dinitro-2-methylphenol	1	ND (20)	-	-	ND (20)	-	-	ND (21)	-	ND (21)	-	ND (21)	-	ND (21)	-	ND (21)	-	ND (21)	ND (21)
4-Bromophenyl phenyl ether	100	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
4-Chloro-3-methylphenol	100	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
4-Chloroaniline	30	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
4-Chlorophenyl phenyl ether	100	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
4-Methylphenol	50	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
4-Nitroaniline	100	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
4-Nitrophenol	100	ND (20)	-	-	ND (20)	-	-	ND (21)	-	ND (21)	-	ND (21)	-	ND (21)	-	ND (21)	-	ND (21)	ND (21)
Acenaphthene	400	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Acenaphthylene	100	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Acetophenone	700	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Anthracene	2000	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Atrazine	3	ND (2)	-	-	ND (2)	-	-	ND (2.1)	-	ND (2.1) F1	-	ND (2.1)	-	ND (2.1)	-	ND (2.1)	-	ND (2.1)	ND (2.1)
Benzaldehyde	100	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Benzo(a)anthracene	0.1	ND (1)	-	-	ND (1)	-	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)
Benzo(a)pyrene	0.1	ND (1)	-	-	ND (1)	-	-	ND (1)	-	ND (1) F1	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)
Benzo(b)fluoranthene	0.2	ND (1)	-	-	ND (1)	-	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)
Benzo(g,h,i)perylene	100	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Benzo(k)fluoranthene	0.5	ND (1)	-	-	ND (1)	-	-	ND (1)	-	ND (1) F1	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)
Biphenyl	400	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
bis(2-Chloroethoxy)methane	100	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
bis(2-Chloroethyl)ether	7	ND (1)	-	-	ND (1)	-	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)
bis(2-Ethylhexyl)phthalate	3	ND (2)	-	-	ND (2)	-	-	ND (2.1)	-	ND (2.1) F1	-	ND (2.1)	-	ND (2.1)	-	ND (2.1)	-	ND (2.1)	ND (2.1)
Butyl benzylphthalate	100	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10) F1	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Caprolactam	5000	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Carbazole	100	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Chrysene	5	ND (2)	-	-	ND (2)	-	-	ND (2.1)	-	ND (2.1)	-	ND (2.1)	-	ND (2.1)	-	ND (2.1)	-	ND (2.1)	ND (2.1)
Dibenz(a,h)anthracene	0.3	ND (1)	-	-	ND (1)	-	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)
Dibenzofuran	100	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Diethyl phthalate	6000	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Dimethyl phthalate	100	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Di-n-butylphthalate	700	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10) F1	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Di-n-octyl phthalate	100	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Fluoranthene	300	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Fluorene	300	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Hexachlorobenzene	0.02	ND (1)	-	-	ND (1)	-	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)
Hexachlorobutadiene	1	ND (1)	-	-	ND (1)	-	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)
Hexachlorocyclopentadiene	40	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Hexachloroethane	7	ND (1)	-	-	ND (1)	-	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)
Indeno(1,2,3-cd)pyrene	0.2	ND (1)	-	-	ND (1)	-	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)
Isophorone	40	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Naphthalene	300	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Nitrobenzene	6	ND (1)	-	-	ND (1)	-	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)
N-Nitrosodi-n-propylamine	10	ND (1)	-	-	ND (1)	-	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)
N-Nitrosodiphenylamine	10	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Pentachlorophenol	0.3	ND (20)	-	-	ND (20)	-	-	ND (21)	-	ND (21)	-	ND (21)	-	ND (21)	-	ND (21)	-	ND (21)	ND (21)
Phenanthrene	100	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Phenol	2000	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Pyrene	200	ND (10)	-	-	ND (10)	-	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)
Volatile Organic Compounds (ug/L)																			
1,1,1-Trichloroethane	30	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2,2-Tetrachloroethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2-Trichloroethane	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethane	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	6.1 ^[A]	4.3 J ^[A]	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-1	MW-1	MW-1	MW-1A	MW-1A	MW-1A	MW-2	MW-2	MW-2A	MW-2A	MW-3	MW-3	MW-3A	MW-3A	MW-4	MW-4	MW-4A	MW-4A
Sample Date	Quality	03/06/2018	10/22/2020	03/16/2021	03/06/2018	10/22/2020	03/16/2021	03/01/2018	10/27/2020	03/01/2018	10/27/2020	03/01/2018	10/27/2020	03/01/2018	10/27/2020	03/01/2018	10/27/2020	03/01/2018	03/01/2018
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	FD
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	9	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	0.39 J	0.75 J	ND (1)	ND (1)	3.4	1.4	0.34 J	ND (1)	0.34 J	0.37 J
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.35 J	ND (1)	0.46 J	0.23 J	0.27 J	0.26 J
1,2-Dichloroethane	2	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.27 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,3-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	0.35 J	ND (1)	1.1	0.75 J	ND (1)	ND (1)	0.87 J	0.93 J
1,4-Dichlorobenzene	75	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	0.39 J	0.38 J	0.84 J	0.58 J	2.9	1.9	3	2.5	3.3	3.4
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (5)	ND (5)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Acetone	6000	2.6 JB	ND (5)	16 *1	3 JB	ND (25)	ND (25)	4.7 JB	ND (5)	4.1 JB	ND (5)	5.6 B	ND (5)	5 B	ND (5)	27 B	22	5.4 B	4.3 JB
Benzene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	5.3 ^[A]	4 ^[A]	0.34 J	0.32 J
Bromodichloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromoform	4	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon disulfide	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon tetrachloride	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chlorobenzene	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	1.5	1.5	1.2	1.1	1.3	1.3	33	28	3.3	3.4
Chloroethane	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloroform (Trichloromethane)	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
cis-1,2-Dichloroethene	70	ND (1)	1.4	1.2	8.8	1500 ^[A]	1400 ^[A]	0.84 J	3	0.9 J	3.1	1.1	3.9	7.1	5.4	ND (1)	0.81 J	1.3	1.3
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Cyclohexane	100	ND (1)	ND (1)	ND (1) *1	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dibromochloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	2.2	ND (1)	ND (1)	ND (1)
Isopropylbenzene (Cumene)	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	1.8	0.74 J	ND (1)	ND (1)
Methyl acetate	7000	ND (5)	ND (5)	ND (5)	ND (5)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methyl cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.62 J	ND (1)	ND (1)	ND (1)
Methyl Tert Butyl Ether	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.22 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methylene chloride	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	0.23 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Styrene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Tetrachloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	2.2	1.1	ND (1)	ND (1)
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (1)	ND (1)	8.2	11	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trichloroethene	1	ND (1)	1.2 ^[A]	2.8 ^[A]	4 ^[A]	600 ^[A]	250 ^[A]	0.7 J	7.9 ^[A]	0.87 J	15 ^[A]	0.25 J	11 ^[A]	8.2 ^[A]	4.5 ^[A]	ND (1)	ND (1)	0.44 J	0.35 J
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Vinyl chloride	1	ND (1)	ND (1)	ND (1)	0.15 J	2.8 J ^[A]	51 ^[A]	0.11 J	ND (1)	0.21 J	0.24 J	0.2 J	0.19 J	0.47 J	0.29 J	0.089 J	0.39 J	0.17 J	0.23 J
Xylene (total)	1000	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (10)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	14	ND (2)	ND (2)	ND (2)

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Notes:
1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
 2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
 3. Results in **bold** are detected.
 4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-4A	MW-5	MW-5	MW-5A	MW-5A	MW-6	MW-6	MW-6A	MW-6A	MW-7	MW-7	MW-7A	MW-11	MW-11	MW-11A	MW-11A	MW-11A	MW-15
Sample Date	Quality	10/27/2020	03/01/2018	10/26/2020	03/01/2018	10/26/2020	03/01/2018	10/26/2020	03/01/2018	10/26/2020	03/05/2018	10/26/2020	03/05/2018	03/05/2018	10/21/2020	03/05/2018	03/05/2018	10/21/2020	03/05/2018
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																			
Temperature (Deg C)	-	11.62	11.97	19.83	12.83	17.13	10.14	19.11	12.54	15.29	7.96	14.19	6.93	9.62	17.47	11.87	-	17.62	10.32
Conductivity, Field (mS/cm)	-	0.484	1.098	4.596	0.715	0.531	0.382	2.124	0.504	0.868	0.581	0.816	0.46	0.197	0.343	0.415	-	0.385	1.185
ORP, Field (mv)	-	104.3	-12.8	-173.9	-2.5	-73.6	289.3	-62.3	47	-47.5	-83.1	-12.9	-156.5	143.7	130.2	-33.5	-	-136.6	194.1
Turbidity, Field (NTU)	-	21.6	17.8	999	34.2	50.7	24.6	281	92.6	480	11.8	268	15.3	6.73	999	22	-	28.5	5.93
pH, Field (pH units)	-	6.01	6.55	11.93	6.75	7.23	7.12	6.79	7.06	6.77	6.31	6.01	7.27	6.42	6.69	6.88	-	7.02	4.95
Dissolved Oxygen, Field (ug/L)	-	590	200	10	420	650	5100	1010	1310	640	750	160	670	1480	880	480	-	90	1570
Inorganic Compounds (ug/L)																			
Antimony	6	-	2.3	-	1.7 J	-	2.6	-	1.5 J	-	8.1 ^[A]	-	ND (2)	ND (2)	-	ND (2)	ND (2)	-	ND (2)
Arsenic	3	-	19 ^[A]	-	2.7	-	ND (2)	-	3.4 ^[A]	-	8.6 ^[A]	-	ND (2)	ND (2)	-	ND (2)	ND (2)	-	ND (2)
Barium	6000	-	1170	-	561	-	396	-	537	-	4540	-	133	170	-	305	298	-	484
Beryllium	1	-	ND (0.8)	-	ND (0.8)	-	ND (0.8)	-	ND (0.8)	-	ND (0.8)	-	ND (0.8)	ND (0.8)	-	ND (0.8)	ND (0.8)	-	1.9 ^[A]
Cadmium	4	-	ND (2)	-	ND (2)	-	1.8 J	-	ND (2)	-	9.1 ^[A]	-	ND (2)	ND (2)	-	ND (2)	ND (2)	-	ND (2)
Chromium	70	15	7	601 ^[A]	2.4 J	11.6	ND (4)	442 ^[A]	1.5 J	12	87.6 ^[A]	59.2	ND (4)	6.3	118 ^[A]	ND (4)	ND (4)	3.8 J	86.7 ^[A]
Chromium VI (Hexavalent)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	100	-	6.8	-	3 J	-	ND (4)	-	2.7 J	-	14	-	ND (4)	ND (4)	-	ND (4)	ND (4)	-	ND (4)
Copper	1300	-	26.8	-	3.6 J	-	55.9	-	3.7 J	-	746	-	ND (4)	133	-	2 J	2.1 J	-	ND (4)
Cyanide	100	-	ND (10)	-	2.1 J	-	ND (10) F1	-	ND (10)	-	4.8 JB	-	6.1 JF1B	4 JB	-	2.5 JB	3.1 JB	-	3.9 JF1B
Iron	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron, Dissolved	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	5	-	2.9	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	74.7 ^[A]	-	ND (1.2)	13.2 ^[A]	-	ND (1.2)	ND (1.2)	-	ND (1.2)
Manganese	50	-	750 ^[A]	-	6760 ^[A]	-	30	-	1290 ^[A]	-	407 ^[A]	-	1700 ^[A]	19.3	-	380 ^[A]	371 ^[A]	-	31.6
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	2	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	ND (0.2)	-	ND (0.2)	ND (0.2)	-	0.28
Nickel	100	23.3	466 ^[A]	972 ^[A]	5.4	18	188 ^[A]	518 ^[A]	9.5	60.5	1480 ^[A]	2460 ^[A]	3.7 J	15	57	3.6 J	4.3	6.2	38.7
Selenium	40	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	1.6 J	-	ND (10)	ND (10)	-	ND (10)
Silver	40	-	ND (2)	-	ND (2)	-	ND (2)	-	ND (2)	-	ND (2)	-	ND (2)	ND (2)	-	ND (2)	ND (2)	-	ND (2)
Sodium	50000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	2000	-	434	-	ND (16)	-	2890 ^[A]	-	ND (16)	-	9790 ^[A]	-	ND (16)	32.6	-	ND (16)	ND (16)	-	15 J
Other (ug/L)																			
Alkalinity, Bicarbonate (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Hydroxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Dioxide, Free	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite/Nitrate	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	500000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs (ug/L)																			
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (ug/L)																			
1,4-Dioxane	0.4	0.33	0.096 J	2.2 ^[A]	0.24	0.24	ND (0.2)	0.14 J	0.6 ^[A]	0.39	ND (0.2)	ND (0.2)	0.31	ND (0.2)	0.46 ^[A]	0.48 ^[A]	0.5 ^[A]	ND (0.2)	0.14 J
2,2'-oxybis(1-Chloropropane)	300	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
2,4,5-Trichlorophenol	700	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
2,4,6-Trichlorophenol	20	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
2,4-Dichlorophenol	20	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)

TABLE I
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RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-4A	MW-5	MW-5	MW-5A	MW-5A	MW-6	MW-6	MW-6A	MW-6A	MW-7	MW-7	MW-7A	MW-11	MW-11	MW-11A	MW-11A	MW-11A	MW-15
Sample Date	Quality	10/27/2020	03/01/2018	10/26/2020	03/01/2018	10/26/2020	03/01/2018	10/26/2020	03/01/2018	10/26/2020	03/05/2018	10/26/2020	03/05/2018	03/05/2018	10/21/2020	03/05/2018	03/05/2018	10/21/2020	03/05/2018
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	100	-	1.4 J	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
2,4-Dinitrophenol	40	-	ND (21)	-	ND (21)	-	ND (20)	-	ND (21)	-	ND (20)	-	ND (20)	ND (20)	-	ND (20)	ND (20)	-	ND (20)
2,4-Dinitrotoluene	10	-	ND (2.1)	-	ND (2.1)	-	ND (2)	-	ND (2.1)	-	ND (2)	-	ND (2)	ND (2)	-	ND (2)	ND (2)	-	ND (2)
2,6-Dinitrotoluene	10	-	ND (2.1)	-	ND (2.1)	-	ND (2)	-	ND (2.1)	-	ND (2)	-	ND (2)	ND (2)	-	ND (2)	ND (2)	-	ND (2)
2-Chloronaphthalene	600	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
2-Chlorophenol	40	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10) *	-	ND (10) *	ND (10)	-	ND (10) *
2-Methylnaphthalene	30	-	3.6 J	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
2-Methylphenol (o-Cresol)	50	-	ND (10) *	-	ND (10) *	-	ND (10) *	-	ND (10) *	-	ND (10) *	-	ND (10) *	ND (10) *	-	ND (10) *	ND (10) *	-	ND (10) *
2-Nitroaniline	100	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
2-Nitrophenol	100	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
3,3'-Dichlorobenzidine	30	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10) F1	ND (10)	-	ND (10)	ND (10)	-	ND (10)
3-Nitroaniline	100	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
4,6-Dinitro-2-methylphenol	1	-	ND (21)	-	ND (21)	-	ND (20)	-	ND (21)	-	ND (20)	-	ND (20)	ND (20)	-	ND (20)	ND (20)	-	ND (20)
4-Bromophenyl phenyl ether	100	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
4-Chloro-3-methylphenol	100	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
4-Chloroaniline	30	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
4-Chlorophenyl phenyl ether	100	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
4-Methylphenol	50	-	2.3 J	-	ND (10)	-	ND (10)	-	ND (10)	-	27	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
4-Nitroaniline	100	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
4-Nitrophenol	100	-	ND (21)	-	ND (21)	-	ND (20)	-	ND (21)	-	ND (20)	-	ND (20)	ND (20)	-	ND (20)	ND (20)	-	ND (20)
Acenaphthene	400	-	3.2 J	-	1.2 J	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Acenaphthylene	100	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Acetophenone	700	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Anthracene	2000	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Atrazine	3	-	ND (2.1)	-	ND (2.1)	-	ND (2)	-	ND (2.1)	-	ND (2)	-	ND (2)	ND (2)	-	ND (2)	ND (2)	-	ND (2)
Benzaldehyde	100	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	1.7 J	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Benzo(a)anthracene	0.1	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)	-	ND (1)	ND (1)	-	ND (1)
Benzo(a)pyrene	0.1	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)	-	ND (1)	ND (1)	-	ND (1)
Benzo(b)fluoranthene	0.2	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)	-	ND (1)	ND (1)	-	ND (1)
Benzo(g,h,i)perylene	100	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Benzo(k)fluoranthene	0.5	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)	-	ND (1)	ND (1)	-	ND (1)
Biphenyl	400	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
bis(2-Chloroethoxy)methane	100	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
bis(2-Chloroethyl)ether	7	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)	-	ND (1)	ND (1)	-	ND (1)
bis(2-Ethylhexyl)phthalate	3	-	2 J	-	ND (2.1)	-	ND (2)	-	ND (2.1)	-	ND (2)	-	ND (2)	ND (2)	-	ND (2)	ND (2)	-	ND (2)
Butyl benzylphthalate	100	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Caprolactam	5000	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10) *	-	ND (10) *	ND (10)	-	ND (10) *
Carbazole	100	-	2.6 J	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Chrysene	5	-	ND (2.1)	-	ND (2.1)	-	ND (2)	-	ND (2.1)	-	ND (2)	-	ND (2)	ND (2)	-	ND (2)	ND (2)	-	ND (2)
Dibenz(a,h)anthracene	0.3	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)	-	ND (1)	ND (1)	-	ND (1)
Dibenzofuran	100	-	1.2 J	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Diethyl phthalate	6000	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Dimethyl phthalate	100	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Di-n-butylphthalate	700	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	0.89 J	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Di-n-octyl phthalate	100	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Fluoranthene	300	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Fluorene	300	-	1.7 J	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Hexachlorobenzene	0.02	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)	-	ND (1)	ND (1)	-	ND (1)
Hexachlorobutadiene	1	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1) *	-	ND (1) *	ND (1)	-	ND (1) *
Hexachlorocyclopentadiene	40	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Hexachloroethane	7	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	0.24 J	ND (1)	-	ND (1)	ND (1)	-	ND (1)
Indeno(1,2,3-cd)pyrene	0.2	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)	-	ND (1)	ND (1)	-	ND (1)
Isophorone	40	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Naphthalene	300	-	7.4 J	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Nitrobenzene	6	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)	-	ND (1)	ND (1)	-	ND (1)
N-Nitrosodi-n-propylamine	10	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (1)	ND (1)	-	ND (1)	ND (1)	-	ND (1)
N-Nitrosodiphenylamine	10	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Pentachlorophenol	0.3	-	ND (21)	-	ND (21)	-	ND (20)	-	ND (21)	-	ND (20)	-	ND (20)	ND (20)	-	ND (20)	ND (20)	-	ND (20)
Phenanthrene	100	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Phenol	2000	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	1.9 J	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Pyrene	200	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	-	ND (10)	ND (10)	-	ND (10)	ND (10)	-	ND (10)
Volatile Organic Compounds (ug/L)																			
1,1,1-Trichloroethane	30	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2,2-Tetrachloroethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2-Trichloroethane	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.43 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethane	50	0.28 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.67 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethene	1	ND (1)	ND (1)	ND (1)	0.77 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-4A	MW-5	MW-5	MW-5A	MW-5A	MW-6	MW-6	MW-6A	MW-6A	MW-7	MW-7	MW-7A	MW-11	MW-11	MW-11A	MW-11A	MW-11A	MW-15
Sample Date	Quality	10/27/2020	03/01/2018	10/26/2020	03/01/2018	10/26/2020	03/01/2018	10/26/2020	03/01/2018	10/26/2020	03/05/2018	10/26/2020	03/05/2018	03/05/2018	10/21/2020	03/05/2018	03/05/2018	10/21/2020	03/05/2018
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	9	0.54 J	ND (1)	ND (1)	0.87 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.29 J	0.29 J	ND (1)	ND (1)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)
1,2-Dichlorobenzene	600	0.22 J	0.42 J	ND (1)	0.4 J	0.29 J	ND (1)	ND (1)	ND (1)	ND (1)	0.24 J	ND (1)	0.5 J	ND (1)	ND (1)	0.23 J	0.22 J	ND (1)	ND (1)
1,2-Dichloroethane	2	ND (1)	ND (1)	2	ND (1)	ND (1)	ND (1)	ND (1)	0.3 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloropropane	1	ND (1)	ND (1)	4 [A]	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,3-Dichlorobenzene	600	0.86 J	3.2	ND (1)	0.48 J	ND (1)	ND (1)	ND (1)	ND (1)	0.57 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,4-Dichlorobenzene	75	3.1	12	0.43 J	2.3	1.3	ND (1)	1	ND (1)	2.5	2.8	1.3	1.1	ND (1)	ND (1)	0.61 J	0.6 J	0.57 J	ND (1)
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	60	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	3.7 J	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	300	ND (5)	ND (5)	2.4 J	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	10	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Acetone	6000	8.5	100 B	560	8 B	ND (5)	6 B	ND (5)	6.5 B	ND (5)	74	6.1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Benzene	1	ND (1)	17 [A]	1	2.2 [A]	0.67 J	0.14 J	2.6 [A]	0.31 J	6.2 [A]	2.6 [A]	3.5 [A]	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromodichloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromoform	4	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon disulfide	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	1.6	ND (1)	ND (1)	0.47 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon tetrachloride	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chlorobenzene	50	1.4	57 [A]	1.1	22	7.1	ND (1)	7.3	2.4	77 [A]	18	13	6.8	ND (1)	ND (1)	0.68 J	0.66 J	ND (1)	ND (1)
Chloroethane	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloroform (Trichloromethane)	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.54 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	1.4
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
cis-1,2-Dichloroethene	70	4.2	ND (1)	ND (1)	8	0.8 J	ND (1)	ND (1)	8.3	1.8	ND (1)	ND (1)	ND (1)	1.7	1.7	0.61 J	0.62 J	0.63 J	ND (1)
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Cyclohexane	100	ND (1)	0.67 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dibromochloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	700	ND (1)	6.5	0.87 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.43 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Isopropylbenzene (Cumene)	700	ND (1)	18	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.43 J	0.49 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methyl acetate	7000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) *	ND (5)	ND (5)	ND (5) *	ND (5)
Methyl cyclohexane	100	ND (1)	2.4	ND (1) *1	ND (1)	ND (1) *1	ND (1)	ND (1) *1	ND (1)	ND (1)	0.66 J	ND (1) *1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methyl Tert Butyl Ether	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.19 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methylene chloride	3	ND (1)	ND (1)	3.4 [A]	ND (1)	ND (1)	ND (1)	ND (1)	0.23 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Styrene	100	ND (1)	ND (1)	0.52 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Tetrachloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.88 J	ND (1)	ND (1)	ND (1)	ND (1)	0.37 J	0.27 J	ND (1)	ND (1)	ND (1)	1.2 [A]
Toluene	600	ND (1)	1.2	1.5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.3 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trichloroethene	1	2 [A]	ND (1)	ND (1)	9.1 [A]	ND (1)	ND (1)	ND (1)	7.7 [A]	0.6 J	ND (1)	0.38 J	ND (1)	1.5 [A]	2.3 [A]	0.37 J	0.37 J	ND (1)	1
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.4 J	ND (1)	ND (1)	ND (1)	ND (1)	0.31 J	2.3	ND (1)	ND (1)	ND (1)	ND (1)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Vinyl chloride	1	ND (1)	0.11 J	ND (1)	1.7 [A]	0.84 J	ND (1)	ND (1)	0.1 J	0.51 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.25 J	ND (1)
Xylene (total)	1000	ND (2)	19	3.9	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	0.39 J	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.02)	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.02)	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. ND: Result is not detected above the indicated reporting limit.

J: Estimated value

B: Analyte found in blank and sample

H: Analyzed outside of hold time

D: Sample was diluted.

+: Biased high

2. Results in **red** exceed the following criteria:

- Groundwater Quality Standards (GWQS)

3. Results in **bold** are detected.

4. Sample Types: N - Normal Sample

FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-15	MW-15A	MW-15A	MW-16A	MW-16B	MW-16B	MW-16C	MW-16C	MW-18A	MW-18A	MW-18A	MW-18A	MW-18A	MW-18A	MW-20A	MW-20A	MW-20A	MW-20A
Sample Date	Quality	10/27/2020	03/05/2018	10/27/2020	03/06/2018	03/06/2018	10/26/2020	03/06/2018	10/26/2020	08/20/2019	11/20/2019	12/04/2019	12/19/2019	12/19/2019	10/23/2020	08/20/2019	11/18/2019	12/03/2019	12/18/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																			
Temperature (Deg C)	-	16	10.85	16.38	11.59	12.57	12.14	12.41	11.34	22.35	10.38	10.56	8.97	-	16.28	20.05	12.52	11.31	11.71
Conductivity, Field (mS/cm)	-	0.687	1.479	0.904	0.312	0.318	0.308	0.362	0.358	0.434	0.375	0.42	0.403	-	0.425	2.743	2.895	2.715	2.785
ORP, Field (mv)	-	164.5	-35.4	-69	-7.9	-158.3	-43.6	122.4	1.6	-123.5	-105.2	-96.9	-100.1	-	-82.9	-60.2	-74.6	78.6	-76.9
Turbidity, Field (NTU)	-	18.8	207	188	78	9.77	199	8.69	9.91	18.1	16.5	18.9	23.1	-	10.7	8.35	8.72	9.19	10.1
pH, Field (pH units)	-	5.03	6.48	6.84	6.36	7.02	6.67	6.87	6.11	6.73	6.9	6.95	6.92	-	6.82	11.91	11.95	11.94	11.93
Dissolved Oxygen, Field (ug/L)	-	620	140	150	350	250	170	1360	1860	300	470	700	870	-	520	470	530	640	750
Inorganic Compounds (ug/L)																			
Antimony	6	-	ND (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	3	-	ND (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	6000	-	1130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	4	-	ND (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	70	157 ^[A]	ND (4)	ND (4)	-	-	331 ^[A]	-	138 ^[A]	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	0.94 J	3.1 J	3.3 J	4.8	7.6
Chromium VI (Hexavalent)	-	-	-	-	-	-	-	-	-	3.4 J	51.3	ND (10)	27.6	33.2	-	ND (10)	ND (10)	ND (10)	ND (10)
Cobalt	100	-	ND (4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	1300	-	1.9 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	100	-	4.5 JB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron, Dissolved	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	5	-	ND (1.2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	50	-	1070 ^[A]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	2	-	ND (0.2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	100	27.5	17.6	2.8 J	-	-	8	-	6.8	7.7	10.6	4.5	ND (4)	ND (4)	5.3	4.8	4.3	5.9	7.9
Selenium	40	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	40	-	ND (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	50000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	2000	-	10 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other (ug/L)																			
Alkalinity, Bicarbonate (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Hydroxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Dioxide, Free	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite/Nitrate	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	500000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs (ug/L)																			
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (ug/L)																			
1,4-Dioxane	0.4	0.11 J	0.14 J	0.14 J	-	-	2.1 ^[A]	-	2.4 ^[A]	-	-	-	-	-	0.86 ^[A]	-	-	-	-
2,2'-oxybis(1-Chloropropane)	300	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	700	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	20	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	20	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haley & Aldrich, Inc.																			

TABLE I
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RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-15	MW-15A	MW-15A	MW-16A	MW-16B	MW-16B	MW-16C	MW-16C	MW-18A	MW-18A	MW-18A	MW-18A	MW-18A	MW-18A	MW-20A	MW-20A	MW-20A	MW-20A
Sample Date	Quality	10/27/2020	03/05/2018	10/27/2020	03/06/2018	03/06/2018	10/26/2020	03/06/2018	10/26/2020	08/20/2019	11/20/2019	12/04/2019	12/19/2019	12/19/2019	10/23/2020	08/20/2019	11/18/2019	12/03/2019	12/18/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	40	-	ND (20)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	10	-	ND (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	10	-	ND (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	600	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	40	-	ND (10) *	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	30	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol (o-Cresol)	50	-	ND (10) *	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	30	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	1	-	ND (20)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	30	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	50	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100	-	ND (20)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	400	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	700	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	2000	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atrazine	3	-	ND (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	0.1	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.1	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	0.2	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.5	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenyl	400	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	7	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	3	-	ND (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	100	-	ND (10)	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	5000	-	ND (10) *	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	5	-	ND (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	0.3	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	6000	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	700	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	300	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	300	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	0.02	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	1	-	ND (1) *	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	40	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	7	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.2	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	40	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	300	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	6	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	10	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	10	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	0.3	-	ND (20)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	2000	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	200	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds (ug/L)																			
1,1,1-Trichloroethane	30	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2,2-Tetrachloroethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2-Trichloroethane	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.3 J	0.84 J	2.9	ND (1)	1.4	0.9 J	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethane	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	0.3 J	ND (1)	ND (1)	ND (1)
1,1-Dichloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.67 J	ND (1)	6.3 ^[A]	2 ^[A]	7 ^[A]	5.2 ^[A]	3.5 ^[A]	4.2 ^[A]	0.54 J	ND (1)	ND (1)	ND (1)	ND (1)

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-15	MW-15A	MW-15A	MW-16A	MW-16B	MW-16B	MW-16C	MW-16C	MW-18A	MW-18A	MW-18A	MW-18A	MW-18A	MW-18A	MW-20A	MW-20A	MW-20A	MW-20A
Sample Date	Quality	10/27/2020	03/05/2018	10/27/2020	03/06/2018	03/06/2018	10/26/2020	03/06/2018	10/26/2020	08/20/2019	11/20/2019	12/04/2019	12/19/2019	12/19/2019	10/23/2020	08/20/2019	11/18/2019	12/03/2019	12/18/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	9	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1) *	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloroethane	2	ND (1)	ND (1)	ND (1)	ND (1)	0.71 J	0.85 J	ND (1)	ND (2)	ND (1)	0.64 J	ND (2)	0.47 J	ND (2)	0.65 J	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,3-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	0.35 J
1,4-Dichlorobenzene	75	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (5)	ND (10)	ND (5)	2.1 J	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Acetone	6000	ND (5)	ND (5)	ND (5)	2.6 JB	3.4 JB	ND (5)	3.8 JB	ND (10)	ND (5)	7.3	ND (10)	ND (5)	ND (10)	ND (5)	16	12	8.2	8.1
Benzene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	0.58 J	0.54 J	0.54 J	0.58 J
Bromodichloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromoform	4	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1) *	ND (1) *	ND (2)	ND (1)	ND (2)	ND (1)	ND (1) *	ND (1) F2	ND (1)	ND (1)
Carbon disulfide	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	27	24	23	24
Carbon tetrachloride	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *
Chlorobenzene	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	0.9 J	0.72 J	ND (2)	0.55 J	ND (2)	1.3	ND (1)	ND (1)	ND (1)	ND (1)
Chloroethane	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloroform (Trichloromethane)	70	0.54 J	0.43 J	ND (1)	ND (1)	ND (1)	ND (1)	0.48 J	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
cis-1,2-Dichloroethene	70	ND (1)	0.39 J	0.31 J	0.72 J	2.5	60	0.98 J	50	92 ^[A]	400 ^[A]	410 ^[A]	260 ^[A]	400 ^[A]	39	5.3	5.3	4.9	5.1
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dibromochloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1) *	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Isopropylbenzene (Cumene)	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	0.61 J	ND (1)	ND (1)	ND (1)	ND (1)
Methyl acetate	7000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methyl cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *1	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methyl Tert Butyl Ether	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	0.75 J	0.75 J	0.65 J	0.63 J
Methylene chloride	3	ND (1)	ND (1)	ND (1)	ND (1)	0.22 J	ND (1)	0.26 J	ND (2)	ND (1)	ND (1)	ND (2) *	ND (1)	ND (2)	ND (1)	0.92 J	0.75 J	0.67 J	0.47 J
Styrene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Tetrachloroethene	1	0.44 J	0.45 J	ND (1)	ND (1)	0.21 J	0.26 J	0.25 J	1.6 J ^[A]	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	0.64 J	0.63 J	0.65 J	0.68 J
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (1)	ND (1)	0.27 J	2.8	ND (1)	ND (2)	1.2	2.8	2.8	2.2	2.7	1.5	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trichloroethene	1	0.61 J	0.68 J	ND (1)	2.1 ^[A]	0.41 J	130 ^[A]	4.1 ^[A]	760 ^[A]	2.6 ^[A]	300 ^[A]	22 ^[A]	1.9 ^[A]	1.1 J ^[A]	1.7 ^[A]	7.2 ^[A]	8.1 ^[A]	7.2 ^[A]	7.8 ^[A]
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Vinyl chloride	1	ND (1)	ND (1)	0.24 J	ND (1)	25 ^[A]	29 ^[A]	ND (1)	ND (2)	53 ^[A]	67 ^[A]	60 ^[A]	41 ^[A]	50 ^[A]	63 ^[A]	0.29 J	0.32 J	0.29 J	ND (1)
Xylene (total)	1000	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (4)	ND (1)	ND (1)	ND (2)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	ND (0.02)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	ND (0.02)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Notes:
1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
 2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
 3. Results in **bold** are detected.
 4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-20A	MW-21A	MW-21A	MW-22	MW-22A	MW-35	MW-35	MW-35A	MW-35A	MW-37B	MW-37B	MW-37B	MW-37B	MW-37B	MW-43	MW-43	MW-43	MW-44
Sample Date	Quality	10/28/2020	03/05/2018	10/26/2020	03/02/2018	03/02/2018	03/05/2018	10/26/2020	03/05/2018	10/26/2020	08/23/2019	11/20/2019	12/06/2019	12/23/2019	10/23/2020	08/22/2019	10/30/2019	10/23/2020	08/23/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																			
Temperature (Deg C)	-	14.96	11.51	15.98	8.52	11.89	6.63	15.53	8.52	16.03	16.45	12.9	13.82	8.81	17.22	29.36	19.11	19.37	16.17
Conductivity, Field (mS/cm)	-	2.294	0.901	0.729	0.163	0.711	0.479	0.746	0.889	0.83	0.192	0.316	0.317	0.285	0.182	0.316	0.29	0.453	0.448
ORP, Field (mv)	-	-233.9	106.5	119.8	122	-64.7	215.8	150.1	-22.4	-21.8	-23.9	30.6	-36.9	-102.8	-45.1	74.9	177.2	141.2	181.6
Turbidity, Field (NTU)	-	999	62.3	163	11.6	18.5	1.47	21.3	208	80.3	31.6	32.9	31	24.1	33.8	999	139	89.7	24.6
pH, Field (pH units)	-	12.35	5.73	6.74	6.34	6.18	5.42	5.9	6.71	7.47	8.3	7.13	7.26	8.01	7.92	6.35	5.79	6.78	5.94
Dissolved Oxygen, Field (ug/L)	-	4090	3070	1280	3830	430	2320	630	310	470	390	1720	580	700	610	1470	5780	2510	480
Inorganic Compounds (ug/L)																			
Antimony	6	-	-	-	1.7 J	1.1 J	ND (2)	-	ND (2)	-	-	-	-	-	-	-	-	-	-
Arsenic	3	-	-	-	2.3	3.7 ^[A]	ND (2)	-	1.4 J	-	-	-	-	-	-	-	-	-	-
Barium	6000	-	-	-	37.2	88.2	412	-	361	-	-	-	-	-	-	-	-	-	-
Beryllium	1	-	-	-	ND (0.8)	ND (0.8)	0.28 J	-	ND (0.8)	-	-	-	-	-	-	-	-	-	-
Cadmium	4	-	-	-	ND (2)	ND (2)	ND (2)	-	ND (2)	-	-	-	-	-	-	-	-	-	-
Chromium	70	21.9	-	0.83 J	9	ND (4)	3.4 J	3.1 J	ND (4)	14.3	ND (4)	3.4 J	4	ND (4)	1.9 J	5780 ^[A]	715 ^[A]	2710 ^[A]	450 ^[A]
Chromium VI (Hexavalent)	-	-	-	-	-	-	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (2500)	101	-	413
Cobalt	100	-	-	-	ND (4)	ND (4)	ND (4)	-	ND (4)	-	-	-	-	-	-	-	-	-	-
Copper	1300	-	-	-	12.8	5.9	ND (4)	-	3.6 J	-	-	-	-	-	-	-	-	-	-
Cyanide	100	-	-	-	ND (10)	ND (10)	3.7 JB	-	3.3 JB	-	-	-	-	-	-	-	-	-	-
Iron	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron, Dissolved	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	5	-	-	-	1.6	ND (1.2)	ND (1.2)	-	ND (1.2)	-	-	-	-	-	-	-	-	-	-
Manganese	50	-	-	-	16.3	246 ^[A]	82.2 ^[A]	-	866 ^[A]	-	-	-	-	-	-	-	-	-	-
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	2	-	-	-	ND (0.2)	ND (0.2)	ND (0.2)	-	ND (0.2)	-	-	-	-	-	-	-	-	-	-
Nickel	100	20.4	-	ND (4)	20.8	13.4	11.9	11.5	11	20.1	ND (4)	ND (4)	ND (4)	ND (4)	0.77 J	3980 ^[A]	72.3	2110 ^[A]	4110 ^[A]
Selenium	40	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Silver	40	-	-	-	ND (2)	ND (2)	ND (2)	-	ND (2)	-	-	-	-	-	-	-	-	-	-
Sodium	50000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	2000	-	-	-	138	18.4	12.1 J	-	ND (16)	-	-	-	-	-	-	-	-	-	-
Other (ug/L)																			
Alkalinity, Bicarbonate (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Hydroxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Dioxide, Free	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (7.5)	-
Ethene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (7)	-
Methane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (4)	-
Nitrate (as N)	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite/Nitrate	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	500000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6800	2800 B	3000	-
PCBs (ug/L)																			
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (ug/L)																			
1,4-Dioxane	0.4	1.6 ^[A]	-	0.12 J	ND (0.2)	ND (0.2)	ND (0.2)	0.1 J	0.2	0.5 ^[A]	-	-	-	-	ND (0.2)	0.63 H ^[A]	1.4 ^[A]	-	-
2,2'-oxybis(1-Chloropropane)	300	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	700	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	20	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	20	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-20A	MW-21A	MW-21A	MW-22	MW-22A	MW-35	MW-35	MW-35A	MW-35A	MW-37B	MW-37B	MW-37B	MW-37B	MW-37B	MW-43	MW-43	MW-43	MW-44
Sample Date	Quality	10/28/2020	03/05/2018	10/26/2020	03/02/2018	03/02/2018	03/05/2018	10/26/2020	03/05/2018	10/26/2020	08/23/2019	11/20/2019	12/06/2019	12/23/2019	10/23/2020	08/22/2019	10/30/2019	10/23/2020	08/23/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	100	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	40	-	-	-	ND (21)	ND (20)	ND (20)	-	ND (20)	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	10	-	-	-	ND (2.1)	ND (2)	ND (2)	-	ND (2)	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	10	-	-	-	ND (2.1)	ND (2)	ND (2)	-	ND (2)	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	600	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	40	-	-	-	ND (10)	ND (10)	ND (10) *	-	ND (10) *	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	30	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
2-Methylphenol (o-Cresol)	50	-	-	-	ND (10)	ND (10)	ND (10) *	-	ND (10) *	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	100	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	100	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	30	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	100	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	1	-	-	-	ND (21)	ND (20)	ND (20)	-	ND (20)	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	100	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	100	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	30	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	100	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	50	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	100	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100	-	-	-	ND (21)	ND (20)	ND (20)	-	ND (20)	-	-	-	-	-	-	-	-	-	-
Acenaphthene	400	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	100	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Acetophenone	700	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Anthracene	2000	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Atrazine	3	-	-	-	ND (2.1) *	ND (2) *	ND (2)	-	ND (2)	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	100	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	0.1	-	-	-	ND (1)	ND (1)	ND (1)	-	ND (1)	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.1	-	-	-	ND (1)	ND (1)	ND (1)	-	ND (1)	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	0.2	-	-	-	ND (1)	ND (1)	ND (1)	-	ND (1)	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	100	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.5	-	-	-	ND (1)	ND (1)	ND (1)	-	ND (1)	-	-	-	-	-	-	-	-	-	-
Biphenyl	400	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	100	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	7	-	-	-	ND (1)	ND (1)	ND (1)	-	ND (1)	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	3	-	-	-	ND (2.1)	ND (2)	ND (2)	-	ND (2)	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	100	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Caprolactam	5000	-	-	-	ND (10)	ND (10)	ND (10) *	-	ND (10) *	-	-	-	-	-	-	-	-	-	-
Carbazole	100	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Chrysene	5	-	-	-	ND (2.1)	ND (2)	ND (2)	-	ND (2)	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	0.3	-	-	-	ND (1)	ND (1)	ND (1)	-	ND (1)	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	100	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	6000	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	100	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	700	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	100	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Fluoranthene	300	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Fluorene	300	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	0.02	-	-	-	ND (1)	ND (1)	ND (1)	-	ND (1)	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	1	-	-	-	ND (1)	ND (1)	ND (1) *	-	ND (1) *	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	40	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	7	-	-	-	ND (1)	ND (1)	ND (1)	-	ND (1)	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.2	-	-	-	ND (1)	ND (1)	ND (1)	-	ND (1)	-	-	-	-	-	-	-	-	-	-
Isophorone	40	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Naphthalene	300	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	6	-	-	-	ND (1)	ND (1)	ND (1)	-	ND (1)	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	10	-	-	-	ND (1)	ND (1)	ND (1)	-	ND (1)	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	10	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	0.3	-	-	-	ND (21)	ND (20)	ND (20)	-	ND (20)	-	-	-	-	-	-	-	-	-	-
Phenanthrene	100	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Phenol	2000	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Pyrene	200	-	-	-	ND (10)	ND (10)	ND (10)	-	ND (10)	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds (ug/L)																			
1,1,1-Trichloroethane	30	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2,2-Tetrachloroethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)
1,1,2-Trichloroethane	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	2.3	3	1.8	0.7 J	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethane	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.35 J	0.71 J	0.56 J	0.64 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-20A	MW-21A	MW-21A	MW-22	MW-22A	MW-35	MW-35	MW-35A	MW-35A	MW-37B	MW-37B	MW-37B	MW-37B	MW-37B	MW-43	MW-43	MW-43	MW-44
Sample Date	Quality	10/28/2020	03/05/2018	10/26/2020	03/02/2018	03/02/2018	03/05/2018	10/26/2020	03/05/2018	10/26/2020	08/23/2019	11/20/2019	12/06/2019	12/23/2019	10/23/2020	08/22/2019	10/30/2019	10/23/2020	08/23/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	9	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.28 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloroethane	2	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,3-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,4-Dichlorobenzene	75	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.94 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	5.3	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	300	2.5 J	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Acetone	6000	71	ND (5)	ND (5)	2.1 J	3 J	ND (5)	ND (5)	ND (5)	27	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	8.2	6.6	ND (5)	7.1
Benzene	1	0.56 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromodichloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromoform	4	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)
Carbon disulfide	700	27	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	8	ND (1)	ND (1)	ND (1)
Carbon tetrachloride	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chlorobenzene	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.62 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloroethane	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)
Chloroform (Trichloromethane)	70	ND (1)	4.1	ND (1)	ND (1)	ND (1)	1.4	0.73 J	0.54 J	ND (1)	ND (1)	0.54 J	0.7 J	0.52 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
cis-1,2-Dichloroethene	70	3.8	29	ND (1)	ND (1)	0.6 J	16	18	5.3	0.27 J	5.8	33	28	19	8.5	ND (1)	ND (1)	ND (1)	0.32 J
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dibromochloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Isopropylbenzene (Cumene)	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methyl acetate	7000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methyl cyclohexane	100	ND (1)	ND (1)	ND (1) *1	ND (1)	ND (1)	ND (1)	ND (1) *1	ND (1)	ND (1) *1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *1	ND (1)
Methyl Tert Butyl Ether	70	0.62 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methylene chloride	3	0.67 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.32 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Styrene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Tetrachloroethene	1	ND (1)	3.1 ^[A]	ND (1)	0.19 J	ND (1)	0.63 J	0.31 J	0.41 J	ND (1)	ND (1)	1.6 ^[A]	2.2 ^[A]	1.2 ^[A]	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	600	0.57 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,2-Dichloroethene	100	ND (1)	0.53 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trichloroethene	1	5.9 ^[A]	4 ^[A]	ND (1)	0.64 J	ND (1)	3.7 ^[A]	3.6 ^[A]	1.4 ^[A]	ND (1)	21 ^[A]	84 ^[A]	80 ^[A]	49 ^[A]	12 ^[A]	2.6 ^[A]	6.9 ^[A]	0.72 J	2.6 ^[A]
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Vinyl chloride	1	ND (1)	ND (1)	ND (1)	ND (1)	0.11 J	ND (1)	ND (1)	4.4 ^[A]	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Xylene (total)	1000	ND (2)	ND (2)	ND (2)	0.39 J	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (2)	ND (1)

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
3. Results in **bold** are detected.
4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-44	MW-44	MW-44	MW-44	MW-62	MW-62	MW-73	MW-73	MW-73R	MW-73R	MW-75	MW-75	MW-76	MW-76	MW-77	MW-77	MW-77A	MW-77A
Sample Date	Quality	11/20/2019	12/03/2019	12/18/2019	10/28/2020	03/05/2018	10/26/2020	08/23/2019	11/20/2019	12/23/2019	10/23/2020	03/02/2018	10/26/2020	03/02/2018	10/21/2020	03/02/2018	10/21/2020	03/02/2018	10/21/2020
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																			
Temperature (Deg C)	-	11.58	14.61	14.52	16.43	9.32	14.24	15.14	14.01	14.11	16.71	8.21	14.19	11.17	19.41	12.12	19.19	11.78	17.02
Conductivity, Field (mS/cm)	-	0.388	0.408	0.316	0.413	0.866	0.813	0.339	0.309	0.279	0.268	0.546	0.548	0.364	0.411	0.791	0.419	1.551	1.252
ORP, Field (mv)	-	165.1	19.8	-16.9	-22.3	-12.3	-8.3	26.2	3.6	3.9	12.5	50.6	77.3	45.3	156.5	159.3	234.6	180.7	235.6
Turbidity, Field (NTU)	-	27.9	173	35.4	999	41.2	4.39	0.82	2.49	52.9	11.2	4.2	7.08	32.1	19.7	7.3	5.63	18.9	3.26
pH, Field (pH units)	-	6.2	6.23	6.19	9.21	6.73	5.98	5.28	6.15	6.13	6.01	7.4	7.76	6.39	6.6	6.83	6.59	6.05	5.78
Dissolved Oxygen, Field (ug/L)	-	570	310	2070	3830	520	40	170	220	780	490	2680	5610	1890	4670	530	360	350	1480
Inorganic Compounds (ug/L)																			
Antimony	6	-	-	-	-	1.7 J	-	-	-	-	-	2.1	-	3.5	-	2.5	-	-	-
Arsenic	3	-	-	-	-	3.8 ^[A]	-	-	-	-	-	ND (2)	-	4 ^[A]	-	4.2 ^[A]	-	-	-
Barium	6000	-	-	-	-	111	-	-	-	-	-	150	-	156	-	109	-	-	-
Beryllium	1	-	-	-	-	ND (0.8)	-	-	-	-	-	ND (0.8)	-	0.43 J	-	ND (0.8)	-	-	-
Cadmium	4	-	-	-	-	1.9 J	-	-	-	-	-	ND (2)	-	ND (2)	-	ND (2)	-	-	-
Chromium	70	2150 ^[A]	1520 ^[A]	680 ^[A]	-	5.2	1.6 J	ND (4)	ND (4)	22.1	6.3	ND (4)	1.5 J	32	5.3	58.2	2.3 J	-	20.8
Chromium VI (Hexavalent)	-	10700	1350	1720	-	-	-	ND (10)	ND (10)	ND (20)	-	-	-	-	-	-	-	-	-
Cobalt	100	-	-	-	-	11	-	-	-	-	-	ND (4)	-	7.1	-	4	-	-	-
Copper	1300	-	-	-	-	112	-	-	-	-	-	ND (4)	-	30.6	-	27.6	-	-	-
Cyanide	100	-	-	-	-	3.9 JB	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Iron	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron, Dissolved	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	5	-	-	-	-	17.4 ^[A]	-	-	-	-	-	0.37 J	-	9.1 ^[A]	-	14.1 ^[A]	-	-	-
Manganese	50	-	-	-	-	1160 ^[A]	-	-	-	-	-	7.9 J	-	799 ^[A]	-	1190 ^[A]	-	-	-
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	2	-	-	-	-	ND (0.2)	-	-	-	-	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	-	-
Nickel	100	3750 ^[A]	4050 ^[A]	2200 ^[A]	-	2440 ^[A]	4230 ^[A]	ND (4)	ND (4)	20.4	7.4	ND (4)	0.71 J	11.4	1.4 J	118 ^[A]	68.6	-	355 ^[A]
Selenium	40	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Silver	40	-	-	-	-	ND (2)	-	-	-	-	-	ND (2)	-	ND (2)	-	ND (2)	-	-	-
Sodium	50000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	2000	-	-	-	-	8380 ^[A]	-	-	-	-	-	17.2	-	51.4	-	227	-	-	-
Other (ug/L)																			
Alkalinity, Bicarbonate (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Hydroxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Dioxide, Free	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite/Nitrate	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	500000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	-	-	-	-	-	-	-	-	-	-	1700	-	-	-	-	-	-	-	-
PCBs (ug/L)																			
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (ug/L)																			
1,4-Dioxane	0.4	-	-	-	-	ND (0.2)	0.1 J	-	-	-	0.14 J	0.92 ^[A]	0.9 ^[A]	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	-	-
2,2'-oxybis(1-Chloropropane)	300	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
2,4,5-Trichlorophenol	700	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
2,4,6-Trichlorophenol	20	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
2,4-Dichlorophenol	20	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Haley & Aldrich, Inc.																			

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-44	MW-44	MW-44	MW-44	MW-62	MW-62	MW-73	MW-73	MW-73R	MW-73R	MW-75	MW-75	MW-76	MW-76	MW-77	MW-77	MW-77A	MW-77A
Sample Date	Quality	11/20/2019	12/03/2019	12/18/2019	10/28/2020	03/05/2018	10/26/2020	08/23/2019	11/20/2019	12/23/2019	10/23/2020	03/02/2018	10/26/2020	03/02/2018	10/21/2020	03/02/2018	10/21/2020	03/02/2018	10/21/2020
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	100	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
2,4-Dinitrophenol	40	-	-	-	-	ND (20)	-	-	-	-	-	ND (20)	-	ND (20)	-	ND (20)	-	-	-
2,4-Dinitrotoluene	10	-	-	-	-	ND (2)	-	-	-	-	-	ND (2)	-	ND (2)	-	ND (2)	-	-	-
2,6-Dinitrotoluene	10	-	-	-	-	ND (2)	-	-	-	-	-	ND (2)	-	ND (2)	-	ND (2)	-	-	-
2-Chloronaphthalene	600	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
2-Chlorophenol	40	-	-	-	-	ND (10) *	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
2-Methylnaphthalene	30	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
2-Methylphenol (o-Cresol)	50	-	-	-	-	ND (10) *	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
2-Nitroaniline	100	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
2-Nitrophenol	100	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
3,3'-Dichlorobenzidine	30	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
3-Nitroaniline	100	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
4,6-Dinitro-2-methylphenol	1	-	-	-	-	ND (20)	-	-	-	-	-	ND (20)	-	ND (20)	-	ND (20)	-	-	-
4-Bromophenyl phenyl ether	100	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
4-Chloro-3-methylphenol	100	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
4-Chloroaniline	30	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
4-Chlorophenyl phenyl ether	100	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
4-Methylphenol	50	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
4-Nitroaniline	100	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
4-Nitrophenol	100	-	-	-	-	ND (20)	-	-	-	-	-	ND (20)	-	ND (20)	-	ND (20)	-	-	-
Acenaphthene	400	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Acenaphthylene	100	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Acetophenone	700	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Anthracene	2000	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Atrazine	3	-	-	-	-	ND (2)	-	-	-	-	-	ND (2) *	-	ND (2) *	-	ND (2) *	-	-	-
Benzaldehyde	100	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Benzo(a)anthracene	0.1	-	-	-	-	ND (1)	-	-	-	-	-	ND (1)	-	ND (1)	-	ND (1)	-	-	-
Benzo(a)pyrene	0.1	-	-	-	-	ND (1)	-	-	-	-	-	ND (1)	-	ND (1)	-	ND (1)	-	-	-
Benzo(b)fluoranthene	0.2	-	-	-	-	ND (1)	-	-	-	-	-	ND (1)	-	ND (1)	-	ND (1)	-	-	-
Benzo(g,h,i)perylene	100	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Benzo(k)fluoranthene	0.5	-	-	-	-	ND (1)	-	-	-	-	-	ND (1)	-	ND (1)	-	ND (1)	-	-	-
Biphenyl	400	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
bis(2-Chloroethoxy)methane	100	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
bis(2-Chloroethyl)ether	7	-	-	-	-	ND (1)	-	-	-	-	-	ND (1)	-	ND (1)	-	ND (1)	-	-	-
bis(2-Ethylhexyl)phthalate	3	-	-	-	-	ND (2)	-	-	-	-	-	ND (2)	-	ND (2)	-	ND (2)	-	-	-
Butyl benzylphthalate	100	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Caprolactam	5000	-	-	-	-	ND (10) *	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Carbazole	100	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Chrysene	5	-	-	-	-	ND (2)	-	-	-	-	-	ND (2)	-	ND (2)	-	ND (2)	-	-	-
Dibenz(a,h)anthracene	0.3	-	-	-	-	ND (1)	-	-	-	-	-	ND (1)	-	ND (1)	-	ND (1)	-	-	-
Dibenzofuran	100	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Diethyl phthalate	6000	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Dimethyl phthalate	100	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Di-n-butylphthalate	700	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Di-n-octyl phthalate	100	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Fluoranthene	300	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Fluorene	300	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Hexachlorobenzene	0.02	-	-	-	-	ND (1)	-	-	-	-	-	ND (1)	-	ND (1)	-	ND (1)	-	-	-
Hexachlorobutadiene	1	-	-	-	-	ND (1) *	-	-	-	-	-	ND (1)	-	ND (1)	-	ND (1)	-	-	-
Hexachlorocyclopentadiene	40	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Hexachloroethane	7	-	-	-	-	ND (1)	-	-	-	-	-	ND (1)	-	ND (1)	-	ND (1)	-	-	-
Indeno(1,2,3-cd)pyrene	0.2	-	-	-	-	ND (1)	-	-	-	-	-	ND (1)	-	ND (1)	-	ND (1)	-	-	-
Isophorone	40	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Naphthalene	300	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Nitrobenzene	6	-	-	-	-	ND (1)	-	-	-	-	-	ND (1)	-	ND (1)	-	ND (1)	-	-	-
N-Nitrosodi-n-propylamine	10	-	-	-	-	ND (1)	-	-	-	-	-	ND (1)	-	ND (1)	-	ND (1)	-	-	-
N-Nitrosodiphenylamine	10	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Pentachlorophenol	0.3	-	-	-	-	ND (20)	-	-	-	-	-	ND (20)	-	ND (20)	-	ND (20)	-	-	-
Phenanthrene	100	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Phenol	2000	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Pyrene	200	-	-	-	-	ND (10)	-	-	-	-	-	ND (10)	-	ND (10)	-	ND (10)	-	-	-
Volatile Organic Compounds (ug/L)																			
1,1,1-Trichloroethane	30	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2,2-Tetrachloroethane	1	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2-Trichloroethane	3	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	0.43 J	ND (1)	0.27 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethane	50	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.51 J	0.32 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethene	1	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	0.95 J	0.68 J	0.49 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-44	MW-44	MW-44	MW-44	MW-62	MW-62	MW-73	MW-73	MW-73R	MW-73R	MW-75	MW-75	MW-76	MW-76	MW-77	MW-77	MW-77A	MW-77A
Sample Date	Quality	11/20/2019	12/03/2019	12/18/2019	10/28/2020	03/05/2018	10/26/2020	08/23/2019	11/20/2019	12/23/2019	10/23/2020	03/02/2018	10/26/2020	03/02/2018	10/21/2020	03/02/2018	10/21/2020	03/02/2018	10/21/2020
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	9	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)
1,2-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloroethane	2	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,3-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,4-Dichlorobenzene	75	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (5)	-	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	300	ND (5)	ND (5)	ND (5)	-	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (5)	-	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Acetone	6000	6.2	ND (5)	ND (5)	-	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	290	ND (5)	3.8 J	ND (5)	2.7 J	ND (5)	3 J	ND (5)
Benzene	1	ND (1)	ND (1)	ND (1)	-	0.34 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.12 J	ND (1)	ND (1)	ND (1)
Bromodichloromethane	1	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromoform	4	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1) *	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon disulfide	700	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon tetrachloride	1	ND (1)	ND (1)	ND (1) *	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chlorobenzene	50	ND (1)	ND (1)	ND (1)	-	0.29 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloroethane	5	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloroform (Trichloromethane)	70	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.32 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
cis-1,2-Dichloroethene	70	0.99 J	1	2.7	-	ND (1)	ND (1)	62 F1	47	44	27	1.9	2.2	0.68 J	0.86 J	12	0.39 J	1.4	2.7
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Cyclohexane	100	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dibromochloromethane	1	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	700	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	0.83 J	1.5	1.6	0.9 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Isopropylbenzene (Cumene)	700	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	21	40	24	21	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methyl acetate	7000	ND (5)	ND (5)	ND (5)	-	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) *	ND (5)	ND (5) *	ND (5)	ND (5) *
Methyl cyclohexane	100	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1) *1	ND (1)	ND (1)	ND (1)	ND (1) *1	ND (1)	ND (1) *1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methyl Tert Butyl Ether	70	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.38 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methylene chloride	3	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	1.5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Styrene	100	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Tetrachloroethene	1	ND (1)	ND (1)	0.3 J	-	ND (1)	ND (1)	ND (1)	ND (1)	0.25 J	ND (1)	0.29 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	600	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	0.52 J	0.43 J	ND (1)	ND (1)	0.4 J	0.29 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trichloroethene	1	24 ^[A]	16 ^[A]	300 ^[A]	-	ND (1)	ND (1)	5.8 ^[A]	1.9 ^[A]	35 ^[A]	14 ^[A]	3.9 ^[A]	3.1 ^[A]	2.2 ^[A]	1.3 ^[A]	0.36 J	0.4 J	1.5 ^[A]	2.4 ^[A]
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.35 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Vinyl chloride	1	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	17 ^[A]	21 ^[A]	9.2 ^[A]	5.4 ^[A]	ND (1)	ND (1)	ND (1)	ND (1)	0.57 J	ND (1)	ND (1)	ND (1)
Xylene (total)	1000	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (2)	ND (1)	ND (1)	12	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.02)	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.02)	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Notes:
1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
 2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
 3. Results in **bold** are detected.
 4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-80	MW-80	MW-80	MW-80	MW-80	MW-80	MW-80	MW-80	MW-81	MW-81	MW-81	MW-81	MW-81	MW-81	MW-81	MW-82	MW-82	MW-82
Sample Date	Quality	08/22/2019	10/03/2019	10/30/2019	11/18/2019	12/03/2019	12/18/2019	04/08/2020	10/21/2020	08/23/2019	08/23/2019	11/18/2019	12/03/2019	12/19/2019	04/08/2020	10/21/2020	08/23/2019	11/19/2019	12/04/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																			
Temperature (Deg C)	-	18.75	16.55	16.63	15.74	14.02	17.12	16.67	19.33	15.4	-	13.68	14.32	10.81	16.04	17.98	15.714	12.34	11.53
Conductivity, Field (mS/cm)	-	0.258	0.258	0.234	0.252	0.273	0.234	0.304	0.23	0.592	-	0.783	0.79	0.804	0.75	0.386	0.283	0.309	0.315
ORP, Field (mv)	-	116.5	205.5	63.9	94.6	29.3	-20.4	37.8	169.2	-35.6	-	16.5	18.5	18	46.1	136.1	112.6	109.5	142.5
Turbidity, Field (NTU)	-	4.29	9.43	10.6	4.81	56.5	13.9	51.8	138	15.6	-	17.8	17	19.6	14.8	56	18.1	22.7	25.9
pH, Field (pH units)	-	5.36	5.7	5.52	6.05	5.9	5.78	6.03	6.3	6.71	-	6.97	6.96	7.04	6.98	6.43	5.86	5.76	5.86
Dissolved Oxygen, Field (ug/L)	-	290	350	1880	580	660	2370	710	3790	310	-	300	370	360	560	840	410	670	790
Inorganic Compounds (ug/L)																			
Antimony	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	70	1410 ^[A]	-	1280 ^[A]	594 ^[A]	937 ^[A]	1230 ^[A]	454 ^[A]	453 ^[A]	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	4.5	10	3.7 J	50	58.8
Chromium VI (Hexavalent)	-	1160	-	1090	513	794	26.2	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	ND (10)	29.6	33.9
Cobalt	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron, Dissolved	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	100	30.8	-	20.1	35.5	34	17.7	43	19.9	52.5	50.5	71.9	110 ^[A]	125 ^[A]	165 ^[A]	143 ^[A]	14.9	17.7	14.6
Selenium	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	50000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other (ug/L)																			
Alkalinity, Bicarbonate (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Hydroxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Dioxide, Free	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	-	-	-	-	-	-	-	-	ND (7.5)	-	-	-	-	-	-	-	-	-	-
Ethene	-	-	-	-	-	-	-	-	ND (7)	-	-	-	-	-	-	-	-	-	-
Methane	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite/Nitrate	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	500000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	-	3200	-	3200 B	2700	2600	2400	-	2000	-	-	-	-	-	-	-	-	-	-
PCBs (ug/L)																			
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (ug/L)																			
1,4-Dioxane	0.4	0.2 H	0.46 ^[A]	0.57 ^[A]	0.19 J	0.28	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Sample Date	Quality	08/22/2019	10/03/2019	10/30/2019	11/18/2019	12/03/2019	12/18/2019	04/08/2020	10/21/2020	08/23/2019	08/23/2019	11/18/2019	12/03/2019	12/19/2019	04/08/2020	10/21/2020	08/23/2019	11/19/2019	12/04/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol (o-Cresol)	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atrazine	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenyl	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	5000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds (ug/L)																			
1,1,1-Trichloroethane	30	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
1,1,2,2-Tetrachloroethane	1	ND (1) *	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
1,1,2-Trichloroethane	3	ND (1)	-	ND (1)	0.95 J	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethane	50	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethene	1	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)

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Sample Date	Quality	08/22/2019	10/03/2019	10/30/2019	11/18/2019	12/03/2019	12/18/2019	04/08/2020	10/21/2020	08/23/2019	08/23/2019	11/18/2019	12/03/2019	12/19/2019	04/08/2020	10/21/2020	08/23/2019	11/19/2019	12/04/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	9	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1) *	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
1,2-Dichlorobenzene	600	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
1,2-Dichloroethane	2	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
1,2-Dichloropropane	1	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
1,3-Dichlorobenzene	600	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
1,4-Dichlorobenzene	75	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	-	ND (5)	ND (10)	ND (10)	ND (5)	ND (25)	ND (5)	ND (5)	ND (5)	ND (10)	ND (10)	ND (25)	ND (25)	ND (10)	ND (5)	ND (5)	ND (5)
2-Hexanone	300	ND (5)	-	ND (5)	ND (10)	ND (10)	ND (5)	ND (25)	ND (5)	ND (5)	ND (5)	ND (10)	ND (10)	ND (25)	ND (25)	ND (10)	ND (5)	ND (5)	ND (5) F2
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	-	ND (5)	ND (10)	ND (10)	ND (5)	ND (25)	ND (5)	ND (5)	ND (5)	ND (10)	ND (10)	ND (25)	ND (25)	ND (10)	ND (5)	ND (5)	ND (5) F2
Acetone	6000	ND (5)	-	ND (5)	ND (10)	ND (10)	ND (5)	ND (25)	ND (5)	9.6	8.7	ND (10)	ND (10)	ND (25)	ND (25)	ND (10)	ND (5)	6.2	ND (5)
Benzene	1	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Bromodichloromethane	1	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Bromoform	4	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5) *	ND (2)	ND (1)	ND (1)	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1)	-	ND (1) *	ND (2)	ND (2)	ND (1)	ND (5)	ND (1) *	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2) *	ND (1)	ND (1)	ND (1)
Carbon disulfide	700	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Carbon tetrachloride	1	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Chlorobenzene	50	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Chloroethane	5	ND (1)	-	ND (1) *	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Chloroform (Trichloromethane)	70	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	0.34 J	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Chloromethane (Methyl Chloride)	100	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
cis-1,2-Dichloroethene	70	1.7	-	2.4	1.9 J	1.7 J	1	ND (5)	1.9	41	41	10	13	20	5.4	3.3	ND (1)	ND (1)	ND (1)
cis-1,3-Dichloropropene	1	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Cyclohexane	100	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Dibromochloromethane	1	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Ethylbenzene	700	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Isopropylbenzene (Cumene)	700	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	0.93 J	0.88 J	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Methyl acetate	7000	ND (5)	-	ND (5)	ND (10)	ND (10)	ND (5)	ND (25)	ND (5) *	ND (5)	ND (5)	ND (10)	ND (10)	ND (25)	ND (25)	ND (10) *	ND (5)	ND (5)	ND (5)
Methyl cyclohexane	100	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Methyl Tert Butyl Ether	70	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Methylene chloride	3	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Styrene	100	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Tetrachloroethene	1	ND (1)	-	0.5 J	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	0.29 J	ND (1)	0.5 J	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Toluene	600	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
trans-1,2-Dichloroethene	100	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	0.34 J	0.32 J	ND (2)	0.58 J	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
trans-1,3-Dichloropropene	1	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Trichloroethene	1	250 ^[AI]	-	440 ^[AI]	920 ^[AI]	770 ^[AI]	48 ^[AI]	1400 ^[AI]	16 ^[AI]	360 ^[AI]	370 ^[AI]	540 ^[AI]	580 ^[AI]	1800 ^[AI]	1200 ^[AI]	550 ^[AI]	0.48 J	2 ^[AI]	1.4 ^[AI]
Trichlorofluoromethane (CFC-11)	2000	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Vinyl chloride	1	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (1)	ND (1)	ND (1)
Xylene (total)	1000	ND (1)	-	ND (1)	ND (2)	ND (2)	ND (1)	ND (5)	ND (2)	0.77 J	0.78 J	ND (2)	ND (2)	ND (5)	ND (5)	ND (4)	ND (1)	ND (1)	ND (1)

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
3. Results in **bold** are detected.
4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-82	MW-84A	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR
Sample Date	Quality	12/18/2019	03/02/2018	08/20/2019	10/03/2019	10/03/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/05/2019	11/13/2019	11/18/2019	12/04/2019	12/19/2019	01/20/2020	02/20/2020	02/20/2020	04/07/2020
Sample Type	Standards	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	FD	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																			
Temperature (Deg C)	-	11.12	13.82	20.48	16.34	-	14.2	14.73	16.14	16.98	16.23	14.52	10.71	15.07	12.18	8.26	10.89	-	15.59
Conductivity, Field (mS/cm)	-	0.338	0.079	0.39	0.361	-	0.369	0.433	0.377	0.439	0.382	0.391	0.424	0.499	0.486	0.371	0.425	-	0.388
ORP, Field (mv)	-	152	87.5	118.9	146.8	-	131.9	114.8	161.8	102.4	-131	-152	-83.7	-110.2	-117	30.9	-56.8	-	-97.1
Turbidity, Field (NTU)	-	25.7	46.3	9.96	9.41	-	999	999	999	329	999	999	999	999	999	999	999	-	116
pH, Field (pH units)	-	5.95	7.07	6.34	6.66	-	6.4	6.69	6.26	7.29	7.64	7.68	6.49	6.07	5.95	6.29	5.39	-	5.57
Dissolved Oxygen, Field (ug/L)	-	770	5300	450	400	-	460	810	370	380	0	0	400	2310	2450	610	990	-	630
Inorganic Compounds (ug/L)																			
Antimony	6	-	1.5 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	3	-	ND (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	6000	-	22.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	1	-	ND (0.8)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	4	-	ND (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	70	56.8	3.4 J	233 ^[A]	-	-	81.5 ^[A]	52.7	9.5	7.2	-	-	26.6	28.9	12	-	-	-	ND (4)
Chromium VI (Hexavalent)	-	48.3	-	186	-	-	ND (1000)	ND (500)	ND (1000)	ND (50)	-	-	1700	ND (2000)	ND (1000)	-	-	-	-
Cobalt	100	-	ND (4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	1300	-	12.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	300	-	-	245	-	-	-	-	-	-	-	-	-	-	5950 ^[A]	5240 ^[A]	4310 ^[A]	4510 ^[A]	4420 ^[A]
Iron, Dissolved	300	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (120)	5400 ^[A]	4440 ^[A]	3980 ^[A]	10300 ^[A]
Lead	5	-	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	50	-	11.7	-	-	-	-	-	-	-	-	-	-	-	14000 ^[A]	11800 ^[A]	9540 ^[A]	9960 ^[A]	10800 ^[A]
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	-	-	-	-	-	15100 ^[A]	11900 ^[A]	9990 ^[A]	8860 ^[A]	20600 ^[A]
Mercury	2	-	ND (0.2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	100	15	4.3	2.4 J	-	-	7.2	10.8	ND (4)	18.6	-	-	20.8	32	12.4	-	-	-	13
Selenium	40	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	40	-	ND (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	50000	-	-	16600	-	-	-	-	-	-	-	-	-	-	20400	-	-	-	-
Zinc	2000	-	99.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other (ug/L)																			
Alkalinity, Bicarbonate (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Hydroxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Dioxide, Free	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	303000 HF	-	-	-	-
Chloride	250000	-	-	14700	-	-	-	-	-	-	-	-	-	-	25100	-	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	290000	306000	174000	-
Ethane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5 J	1.8 J	ND (170)	ND (170)	ND (170)
Ethene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6 J	3.4 J	ND (150)	ND (150)	ND (150)
Methane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.8	52	780	1100	5300
Nitrate (as N)	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	2600 HB	27 JB	52 J	53 J	21 J
Nitrite/Nitrate	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	11000 HB ^[A]	63 JB	120 JB	110 JB	37 J
Sulfate	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (3000)	700	ND (5000)	ND (5000)	ND (5000)
Total Dissolved Solids (TDS)	500000	-	-	252000	-	-	-	-	-	-	-	-	-	-	2480000 ^[A]	-	-	-	-
Total Organic Carbon (TOC)	-	-	-	1700	-	-	5140000	1250000	1810000	70300	604000	4650000 B	16900000	3380000	2750000 B	620000	465000	372000	149000
PCBs (ug/L)																			
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (ug/L)																			
1,4-Dioxane	0.4	-	ND (0.2)	0.41 H ^[A]	0.43 ^[A]	0.2	-	-	-	0.45 ^[A]	-	-	2 ^[A]	0.31	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	300	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	700	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	20	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	20	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haley & Aldrich, Inc.																			

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SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-82	MW-84A	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR
Sample Date	Quality	12/18/2019	03/02/2018	08/20/2019	10/03/2019	10/03/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/05/2019	11/13/2019	11/18/2019	12/04/2019	12/19/2019	01/20/2020	02/20/2020	02/20/2020	04/07/2020
Sample Type	Standards	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	FD	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	40	-	ND (21)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	10	-	ND (2.1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	10	-	ND (2.1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	600	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	40	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	30	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol (o-Cresol)	50	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	30	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	1	-	ND (21)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	30	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	50	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100	-	ND (21)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	400	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	700	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	2000	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atrazine	3	-	ND (2.1) *	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	0.1	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.1	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	0.2	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.5	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenyl	400	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	7	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	3	-	ND (2.1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	5000	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	5	-	ND (2.1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	0.3	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	6000	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	700	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	300	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	300	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	0.02	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	1	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	40	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	7	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.2	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	40	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	300	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	6	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	10	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	10	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	0.3	-	ND (21)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	2000	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	200	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds (ug/L)																			
1,1,1-Trichloroethane	30	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
1,1,2,2-Tetrachloroethane	1	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
1,1,2-Trichloroethane	3	ND (1)	ND (1)	11 J ^[A]	-	-	ND (50)	ND (25)	ND (50)	13 J ^[A]	12 J ^[A]	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
1,1-Dichloroethane	50	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
1,1-Dichloroethene	1	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	26 J ^[A]	34 J ^[A]	36 J ^[A]	46 J ^[A]

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-82	MW-84A	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR
Sample Date	Quality	12/18/2019	03/02/2018	08/20/2019	10/03/2019	10/03/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/05/2019	11/13/2019	11/18/2019	12/04/2019	12/19/2019	01/20/2020	02/20/2020	02/20/2020	04/07/2020
Sample Type	Standards	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	FD	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	9	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	-	ND (50)	ND (50)	ND (50)	ND (50)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	-	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	-	ND (50)	ND (50)	ND (50)	ND (50)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	-	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	-	ND (50)	ND (50)	ND (50)	ND (50)
1,2-Dichlorobenzene	600	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	-	ND (50)	ND (50)	ND (50)	ND (50)
1,2-Dichloroethane	2	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
1,3-Dichlorobenzene	600	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	-	ND (50)	ND (50)	ND (50)	ND (50)
1,4-Dichlorobenzene	75	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	-	ND (50)	ND (50)	ND (50)	ND (50)
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (100)	-	-	ND (250)	ND (130)	ND (250)	ND (130)	ND (130)	ND (500)	ND (500)	ND (250)	-	ND (250)	ND (250)	ND (250)	ND (250)
2-Hexanone	300	ND (5)	ND (5)	ND (100)	-	-	ND (250)	ND (130)	ND (250)	ND (130)	ND (130)	ND (500)	ND (500)	ND (250)	-	ND (250)	ND (250)	ND (250)	ND (250)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (100)	-	-	ND (250)	ND (130)	ND (250)	ND (130)	ND (130)	ND (500)	ND (500)	ND (250)	-	ND (250)	ND (250)	ND (250)	ND (250)
Acetone	6000	ND (5)	7.5	ND (100)	-	-	ND (250)	ND (130)	ND (250)	ND (130)	ND (130)	ND (500)	ND (500)	ND (250)	-	ND (250)	ND (250)	ND (250)	ND (250)
Benzene	1	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	-	ND (50)	ND (50)	ND (50)	ND (50)
Bromodichloromethane	1	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
Bromoform	4	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	-	ND (50)	ND (50)	ND (50)	ND (50)
Bromomethane (Methyl Bromide)	10	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50) *	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	-	ND (50)	ND (50)	ND (50)	ND (50)
Carbon disulfide	700	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	-	ND (50)	ND (50)	51	ND (50)
Carbon tetrachloride	1	ND (1) *	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
Chlorobenzene	50	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
Chloroethane	5	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
Chloroform (Trichloromethane)	70	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
cis-1,2-Dichloroethene	70	ND (1)	11	81 ^[A]	-	-	85 ^[A]	76 ^[A]	66	90 ^[A]	69	66 J	72 J ^[A]	78 ^[A]	98 ^[A]	10000 ^[A]	11000 ^[A]	12000 ^[A]	16000 ^[A]
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
Cyclohexane	100	ND (1)	ND (1)	ND (20)	-	-	33 J	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	91 J	37 J	-	ND (50)	ND (50)	ND (50)	ND (50)
Dibromochloromethane	1	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	-	ND (50)	ND (50)	ND (50)	ND (50)
Ethylbenzene	700	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	-	ND (50)	ND (50)	ND (50)	ND (50)
Isopropylbenzene (Cumene)	700	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	-	ND (50)	ND (50)	ND (50)	ND (50)
Methyl acetate	7000	ND (5)	ND (5)	ND (100) F1	-	-	190 J	68 J	55 J	50 J	120 J	190 J	720	330	-	ND (250)	ND (250)	ND (250)	ND (250)
Methyl cyclohexane	100	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	-	ND (50)	ND (50)	ND (50)	ND (50)
Methyl Tert Butyl Ether	70	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	-	ND (50)	ND (50)	ND (50)	ND (50)
Methylene chloride	3	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50) *	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
Styrene	100	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	-	ND (50)	ND (50)	ND (50)	ND (50)
Tetrachloroethene	1	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
Toluene	600	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	-	ND (50)	ND (50)	ND (50)	ND (50)
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	15 J	ND (50)	ND (50)	16 J
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
Trichloroethene	1	3.6 ^[A]	45 ^[A]	8100 ^[A]	-	-	20000 ^[A]	6900 ^[A]	10000 ^[A]	9000 ^[A]	10000 ^[A]	27000 ^[A]	45000 ^[A]	17000 ^[A]	16000 ^[A]	2900 ^[A]	180 ^[A]	200 ^[A]	430 ^[A]
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	-	ND (50)	ND (50)	ND (50)	ND (50)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	-	ND (50)	ND (50)	ND (50)	ND (50)
Vinyl chloride	1	ND (1)	0.96 J	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	55 ^[A]	61 ^[A]	74 ^[A]	150 ^[A]
Xylene (total)	1000	ND (1)	ND (2)	ND (20)	-	-	ND (50)	ND (25)	ND (50)	ND (25)	ND (25)	ND (100)	ND (100)	ND (50)	-	ND (50)	ND (50)	ND (50)	ND (50)

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	ND (0.02)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	ND (0.02)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Notes:
1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
 2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
 3. Results in **bold** are detected.
 4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R
Sample Date	Quality	04/07/2020	08/24/2020	08/24/2020	10/20/2020	03/16/2021	08/20/2019	08/20/2019	10/03/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/18/2019	12/04/2019	12/23/2019	01/20/2020	02/20/2020	04/07/2020
Sample Type	Standards	FD	N	FD	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																			
Temperature (Deg C)	-	-	21.5	-	18.06	12.35	16.92	-	16.24	14.34	14.94	16.17	17.42	11.23	14.82	16.18	12.2	10.01	14.51
Conductivity, Field (mS/cm)	-	-	0.371	-	0.399	0.158	0.257	-	0.239	0.233	0.245	0.219	0.234	0.251	0.233	0.226	0.207	0.235	0.23
ORP, Field (mv)	-	-	160.7	-	109.8	21.4	167.1	-	91.2	155.5	119.3	182.7	137.6	50.3	-51.4	-25.2	83.7	187.6	213.9
Turbidity, Field (NTU)	-	-	999	-	999	497	9.59	-	13.7	38.4	19	16.1	13.6	16.6	14.7	5	46	9.71	4.31
pH, Field (pH units)	-	-	5.53	-	5.67	4.78	5.18	-	6.18	5.58	5.77	5.25	5.67	5.76	5.92	5.76	6.18	5.51	5.56
Dissolved Oxygen, Field (ug/L)	-	-	2100	-	1210	1300	2260	-	180	720	570	260	290	400	7960	470	290	1530	910
Inorganic Compounds (ug/L)																			
Antimony	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	70	ND (4)	10.9	11.7	13.2	3.8 J	34.2	33.3	-	4.4	ND (4)	ND (4)	2.6 J	3.1 J	3.4 J	4.9	-	-	2.7 J
Chromium VI (Hexavalent)	-	-	-	-	-	-	ND (10)	15.2	-	ND (10)	6.6 J	ND (10)	7.8 J	ND (10)	ND (10)	ND (10)	-	-	-
Cobalt	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	300	5750 ^[A]	3750 ^[A]	3770 ^[A]	5330 ^[A]	8550 ^[A]	170	ND (120)	-	-	-	-	-	-	-	574 ^[A]	1020 ^[A]	ND (120)	51.1 J
Iron, Dissolved	300	10300 ^[A]	3430 ^[A]	3390 ^[A]	5760 B ^[A]	9370 ^[A]	-	-	-	-	-	-	-	-	-	-	59 J	ND (120)	ND (240)
Lead	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	50	11800 ^[A]	11500 ^[A]	11700 ^[A]	11900 ^[A]	15700 ^[A]	-	-	-	-	-	-	-	-	-	-	874 ^[A]	907 ^[A]	749 ^[A]
Manganese, Dissolved	50	20800 ^[A]	11200 ^[A]	11100 ^[A]	12400 ^[A]	15900 ^[A]	-	-	-	-	-	-	-	-	-	-	1010 ^[A]	757 ^[A]	1610 ^[A]
Mercury	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	100	14.3	15.4	15.7	20.2	8.4	291 ^[A]	281 ^[A]	-	127 ^[A]	79.2	82	109 ^[A]	95.3	105 ^[A]	111 ^[A]	-	-	88.7
Selenium	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	50000	-	-	-	-	-	26400	25300	-	-	-	-	-	-	-	22600	-	-	-
Zinc	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other (ug/L)																			
Alkalinity, Bicarbonate (as CaCO3)	-	-	ND (10000)	ND (10000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	-	-	ND (10000)	ND (10000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Hydroxide	-	-	145000	149000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	-	-	145000	149000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Dioxide, Free	-	-	480000 HF	440000 HF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	250000	-	-	-	-	-	10100	9770	-	-	-	-	-	-	-	17200	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2400	2100	-
Ethane	-	ND (170)	ND (830)	ND (830)	ND (330)	ND (170)	-	-	-	-	-	-	-	-	-	-	ND (7.5)	ND (7.5)	ND (83)
Ethene	-	ND (150)	ND (770)	ND (770)	ND (310)	400	-	-	-	-	-	-	-	-	-	-	ND (7)	ND (7)	ND (77)
Methane	-	5200	20000	23000	23000 D	26000 D	-	-	-	-	-	-	-	-	-	-	68 F1	140	130
Nitrate (as N)	10000	19 J	1400	1800	180	ND (100)	-	-	-	-	-	-	-	-	-	-	130 B	60 J	63 J
Nitrite/Nitrate	10000	38 J	760 J	1100	120	44 J	-	-	-	-	-	-	-	-	-	-	170 B	94 JB	82 J
Sulfate	250000	ND (5000)	ND (5000)	ND (5000)	ND (5000)	ND (5000)	-	-	-	-	-	-	-	-	-	-	30900 F1	30900	29900
Total Dissolved Solids (TDS)	500000	-	-	-	-	-	178000	184000	-	-	-	-	-	-	-	176000	-	-	-
Total Organic Carbon (TOC)	-	158000	2480000	2620000	1110000	253000	2900	2800	-	2700	3100 B	2700	2900 B	2700	2900	3000	2700	2200	2000
PCBs (ug/L)																			
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (ug/L)																			
1,4-Dioxane	0.4	-	-	-	-	-	80 H ^[A]	-	90 ^[A]	-	-	-	76 ^[A]	70 ^[A]	81 ^[A]	-	-	-	-
2,2'-oxybis(1-Chloropropane)	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haley & Aldrich, Inc.																			

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SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-84R	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R
Sample Date	Quality	04/07/2020	08/24/2020	08/24/2020	10/20/2020	03/16/2021	08/20/2019	08/20/2019	10/03/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/18/2019	12/04/2019	12/23/2019	01/20/2020	02/20/2020	04/07/2020
Sample Type	Standards	FD	N	FD	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol (o-Cresol)	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atrazine	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenyl	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	100	-	-	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	5000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds (ug/L)																			
1,1,1-Trichloroethane	30	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
1,1,2,2-Tetrachloroethane	1	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
1,1,2-Trichloroethane	3	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	1.2 J	ND (2)	ND (2)	ND (2)	ND (2)
1,1-Dichloroethane	50	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	4.7	4.1	-	4.9	4.4	4.7	5.8	5.3	5.7	5.9	5.6	4.9	5.9
1,1-Dichloroethene	1	44 J ^[A]	34 J ^[A]	30 J ^[A]	28 ^[A]	7.1 J ^[A]	5.9 ^[A]	5.5 ^[A]	-	5.4 ^[A]	6.2 ^[A]	6.1 ^[A]	7.5 ^[A]	6.3 ^[A]	7.8 ^[A]	7.3 ^[A]	6.4 ^[A]	5.9 ^[A]	7.2 ^[A]

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84AR	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R	MW-84R
Sample Date	Quality	04/07/2020	08/24/2020	08/24/2020	10/20/2020	03/16/2021	08/20/2019	08/20/2019	10/03/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/18/2019	12/04/2019	12/23/2019	01/20/2020	02/20/2020	04/07/2020
Sample Type	Standards	FD	N	FD	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	9	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
1,2-Dichlorobenzene	600	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
1,2-Dichloroethane	2	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
1,2-Dichloropropane	1	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
1,3-Dichlorobenzene	600	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
1,4-Dichlorobenzene	75	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
2-Butanone (Methyl Ethyl Ketone)	300	ND (250)	ND (250)	ND (250)	ND (130)	ND (50)	ND (10)	ND (10)	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (25)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Hexanone	300	ND (250)	ND (250)	ND (250)	ND (130)	ND (50)	ND (10)	ND (10)	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (25)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (250)	ND (250)	ND (250)	ND (130)	ND (50)	ND (10)	ND (10)	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (25)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Acetone	6000	ND (250)	ND (250)	ND (250)	ND (130)	ND (50)	ND (10)	ND (10)	-	ND (10)	ND (10)	ND (10)	29	ND (25)	ND (10)	ND (10)	ND (10)	150	ND (10)
Benzene	1	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Bromodichloromethane	1	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Bromoform	4	ND (50)	ND (50) *	ND (50) *	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2) F1	ND (2)	ND (2)
Bromomethane (Methyl Bromide)	10	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5) *	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Carbon disulfide	700	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Carbon tetrachloride	1	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	2.1 [A]	1.5 J [A]	-	1.3 J [A]	1.1 J [A]	2 [A]	3 [A]	2.6 J [A]	3.6 [A]	2.5 [A]	2.2 [A]	2.9 [A]	5.1 [A]
Chlorobenzene	50	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Chloroethane	5	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Chloroform (Trichloromethane)	70	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	2.6	2.2	-	1.9 J	1.9 J	3.4	4.9	3.9 J	4.7	4.8	3.9	3.5	5
Chloromethane (Methyl Chloride)	100	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
cis-1,2-Dichloroethene	70	15000 [A]	5000 [A]	4800 [A]	6900 [A]	2300 [A]	340 [A]	330 [A]	-	490 [A]	480 [A]	400 [A]	490 [A]	510 [A]	500 [A]	460 [A]	450 [A]	420 [A]	510 [A]
cis-1,3-Dichloropropene	1	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Cyclohexane	100	ND (50)	31 J	35 J	17 J	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Dibromochloromethane	1	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Dichlorodifluoromethane (CFC-12)	1000	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Ethylbenzene	700	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Isopropylbenzene (Cumene)	700	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Methyl acetate	7000	ND (250)	210 J	190 J	120 J	18 J	ND (10)	ND (10)	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (25)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Methyl cyclohexane	100	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2) *	ND (2)	ND (2)	ND (2)
Methyl Tert Butyl Ether	70	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Methylene chloride	3	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	0.75 J	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2) *	ND (2)	ND (2)	ND (2)	ND (2)
Styrene	100	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Tetrachloroethene	1	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Toluene	600	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
trans-1,2-Dichloroethene	100	16 J	15 J	14 J	34	14	ND (2)	ND (2)	-	1.3 J	1.2 J	ND (2)	0.57 J	ND (5)	0.48 J	0.72 J	0.77 J	ND (2)	ND (2)
trans-1,3-Dichloropropene	1	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Trichloroethene	1	480 [A]	14000 [A]	15000 [A]	7800 [A]	900 [A]	800 [A]	710 [A]	-	820 [A]	730 [A]	740 [A]	980 [A]	1100 [A]	960 [A]	930 [A]	810 [A]	730 [A]	970 [A]
Trichlorofluoromethane (CFC-11)	2000	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2) *	ND (2)	ND (2)	ND (2)
Trifluorotrichloroethane (Freon 113)	20000	ND (50)	ND (50)	ND (50)	ND (25)	ND (10)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Vinyl chloride	1	140 [A]	270 [A]	250 [A]	930 [A]	1300 [A]	24 [A]	21 [A]	-	33 [A]	35 [A]	32 [A]	40 [A]	33 [A]	38 [A]	35 [A]	22 [A]	25 [A]	27 [A]
Xylene (total)	1000	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Notes:
1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
 2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
 3. Results in **bold** are detected.
 4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-84R	MW-84R	MW-84R	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85
Sample Date	Quality	08/24/2020	10/20/2020	03/16/2021	08/21/2019	10/03/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/05/2019	11/13/2019	11/18/2019	12/04/2019	12/04/2019	12/19/2019	01/20/2020	02/20/2020	04/07/2020
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																			
Temperature (Deg C)	-	21.9	17.93	11.1	18.65	16.44	14.31	14.18	16.37	16.79	16.33	14.91	11	14.75	-	11.34	10.39	11.16	16.3
Conductivity, Field (mS/cm)	-	0.244	0.251	0.22	0.396	0.413	0.413	0.436	0.415	0.472	0.325	0.356	0.443	0.567	-	0.596	0.511	0.543	0.585
ORP, Field (mv)	-	-22.2	-24.6	130.2	166.8	162.6	148.2	124.6	174.5	123.9	-19	-11	-18.4	-107.9	-	-110.1	-2.7	-112.8	-84.6
Turbidity, Field (NTU)	-	26.2	13.7	21.4	4.45	5.28	838	566	392	38.2	105	746	999	162	-	608	142	15.1	6.58
pH, Field (pH units)	-	5.66	6.05	5.09	5.96	6.5	6.38	6.42	6.34	6.87	6.95	7.1	6.61	6.82	-	6.79	7.06	6.14	6.36
Dissolved Oxygen, Field (ug/L)	-	1310	950	520	240	400	450	730	360	410	0	0	650	5730	-	7920	370	1370	1030
Inorganic Compounds (ug/L)																			
Antimony	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	70	0.77 J	1.7 J	ND (4)	206 ^[A]	-	160 ^[A]	306 ^[A]	93.5 ^[A]	24.6	-	-	11.5	4.9	6	14.5	-	-	2.7 J
Chromium VI (Hexavalent)	-	-	-	-	307 F1	-	ND (1000)	ND (10)	ND (10)	39.2	-	-	ND (1000)	46.4	ND (40)	ND (20)	-	-	-
Cobalt	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	300	711 ^[A]	1760 ^[A]	345 ^[A]	2230 ^[A]	-	-	-	-	-	-	-	-	-	-	5440 ^[A]	5010 ^[A]	2910 ^[A]	2930 ^[A]
Iron, Dissolved	300	743 ^[A]	1580 B ^[A]	ND (120)	-	-	-	-	-	-	-	-	-	-	-	4900 ^[A]	4200 ^[A]	2180 ^[A]	6230 ^[A]
Lead	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	50	874 ^[A]	979 ^[A]	714 ^[A]	-	-	-	-	-	-	-	-	-	-	-	11500 ^[A]	14900 ^[A]	17300 ^[A]	16700 ^[A]
Manganese, Dissolved	50	875 ^[A]	953 ^[A]	478 ^[A]	-	-	-	-	-	-	-	-	-	-	-	7950 ^[A]	11800 ^[A]	15900 ^[A]	33600 ^[A]
Mercury	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	100	77.9	67.8	57.9	17.1	-	4.8	7.8	4.2	19.2	-	-	22.4	13.2	12.8	6.5	-	-	5.3
Selenium	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	50000	-	-	-	24900	-	-	-	-	-	-	-	-	-	-	26300	-	-	-
Zinc	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other (ug/L)																			
Alkalinity, Bicarbonate (as CaCO3)	-	58800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	-	ND (5000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Hydroxide	-	ND (5000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	-	58800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Dioxide, Free	-	132000 HF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97800 HF	-	-	-
Chloride	250000	-	-	-	29600 F1	-	-	-	-	-	-	-	-	-	-	48000	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96700	69300	-
Ethane	-	ND (7.5)	ND (7.5)	ND (7.5)	-	-	-	-	-	-	-	-	-	-	-	3.1 J	4.7 J	ND (83)	ND (330)
Ethene	-	2.3 J	1.9 J	4.7 J	-	-	-	-	-	-	-	-	-	-	-	12	15	ND (77)	ND (310)
Methane	-	130	180	170	-	-	-	-	-	-	-	-	-	-	-	ND (4)	2.3 J	240 F1F2	1700
Nitrate (as N)	10000	ND (100)	43 J	75 J	-	-	-	-	-	-	-	-	-	-	-	27 JHB	28 JB	ND (100)	ND (100)
Nitrite/Nitrate	10000	ND (100)	43 J	99 J	-	-	-	-	-	-	-	-	-	-	-	51 JHB	66 JB	45 JB	26 J
Sulfate	250000	25000	22100	26300	-	-	-	-	-	-	-	-	-	-	-	1460	ND (600)	ND (5000)	ND (5000)
Total Dissolved Solids (TDS)	500000	-	-	-	278000	-	-	-	-	-	-	-	-	-	-	245000	-	-	-
Total Organic Carbon (TOC)	-	4300	2300	2200	940 J	-	231000	78500 B	43800	8900 B	18100	477000 B	604000	145000	150000	126000	96700	75000	75800
PCBs (ug/L)																			
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (ug/L)																			
1,4-Dioxane	0.4	-	-	-	0.72 HF1 ^[A]	0.61 ^[A]	-	-	-	0.97 ^[A]	-	-	1 ^[A]	0.7 ^[A]	0.75 ^[A]	-	-	-	-
2,2'-oxybis(1-Chloropropane)	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haley & Aldrich, Inc.																			

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-84R	MW-84R	MW-84R	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85
Sample Date	Quality	08/24/2020	10/20/2020	03/16/2021	08/21/2019	10/03/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/05/2019	11/13/2019	11/18/2019	12/04/2019	12/04/2019	12/19/2019	01/20/2020	02/20/2020	04/07/2020
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol (o-Cresol)	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atrazine	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenyl	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	5000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds (ug/L)																			
1,1,1-Trichloroethane	30	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
1,1,2,2-Tetrachloroethane	1	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
1,1,2-Trichloroethane	3	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
1,1-Dichloroethane	50	7.8	9.9	5.1	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
1,1-Dichloroethene	1	7.2 ^[A]	14 ^[A]	8.8 ^[A]	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	65 ^[A]	59 ^[A]	48 J ^[A]	32 J ^[A]

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-84R	MW-84R	MW-84R	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85	MW-85
Sample Date	Quality	08/24/2020	10/20/2020	03/16/2021	08/21/2019	10/03/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/05/2019	11/13/2019	11/18/2019	12/04/2019	12/04/2019	12/19/2019	01/20/2020	02/20/2020	04/07/2020
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	9	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	-	ND (50)	ND (50)	ND (50)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	-	ND (50)	ND (50)	ND (50)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	-	ND (50)	ND (50)	ND (50)
1,2-Dichlorobenzene	600	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	-	ND (50)	ND (50)	ND (50)
1,2-Dichloroethane	2	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
1,2-Dichloropropane	1	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
1,3-Dichlorobenzene	600	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	-	ND (50)	ND (50)	ND (50)
1,4-Dichlorobenzene	75	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	-	ND (50)	ND (50)	ND (50)
2-Butanone (Methyl Ethyl Ketone)	300	ND (10)	ND (10)	ND (10)	ND (250)	-	ND (1300)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (500)	ND (500)	-	ND (250)	ND (250)	ND (250)
2-Hexanone	300	ND (10)	ND (10)	ND (10)	ND (250)	-	ND (1300)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (500)	ND (500)	-	ND (250)	ND (250)	ND (250)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (10)	ND (10)	ND (10)	ND (250)	-	ND (1300)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (500)	ND (500)	-	ND (250)	ND (250)	ND (250)
Acetone	6000	ND (10)	ND (10)	ND (10)	ND (250)	-	ND (1300)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (500)	ND (500)	-	ND (250)	ND (250)	ND (250)
Benzene	1	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	-	ND (50)	ND (50)	ND (50)
Bromodichloromethane	1	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
Bromoform	4	ND (2) *	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100) *	ND (100) *	-	ND (50)	ND (50)	ND (50)
Bromomethane (Methyl Bromide)	10	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100) *	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	-	ND (50)	ND (50)	ND (50)
Carbon disulfide	700	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	-	ND (50)	ND (50)	ND (50)
Carbon tetrachloride	1	1.8 J ^[A]	1.8 J ^[A]	3.9 ^[A]	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
Chlorobenzene	50	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
Chloroethane	5	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100) *	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
Chloroform (Trichloromethane)	70	4.7	4	3	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
Chloromethane (Methyl Chloride)	100	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
cis-1,2-Dichloroethene	70	570 ^[A]	820 ^[A]	680 ^[A]	45 J	-	ND (250)	31 J	29 J	65 J	36 J	31 J	ND (200)	58 J	60 J	14000 ^[A]	25000 ^[A]	24000 ^[A]	18000 ^[A]
cis-1,3-Dichloropropene	1	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
Cyclohexane	100	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	-	ND (50)	ND (50)	ND (50)
Dibromochloromethane	1	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
Dichlorodifluoromethane (CFC-12)	1000	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	-	ND (50)	ND (50) F1	ND (50)
Ethylbenzene	700	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	-	ND (50)	ND (50)	ND (50)
Isopropylbenzene (Cumene)	700	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	-	ND (50)	ND (50)	ND (50)
Methyl acetate	7000	ND (10)	ND (10)	ND (10)	ND (250) *	-	ND (1300)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (1000) *	100 J	91 J	-	ND (250)	ND (250)	ND (250)
Methyl cyclohexane	100	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	-	ND (50)	ND (50)	ND (50)
Methyl Tert Butyl Ether	70	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	-	ND (50)	ND (50)	ND (50)
Methylene chloride	3	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
Styrene	100	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	-	ND (50)	ND (50)	ND (50)
Tetrachloroethene	1	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
Toluene	600	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	-	ND (50)	ND (50)	ND (50)
trans-1,2-Dichloroethene	100	1.4 J	1.4 J	1.4 J	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	14 J	27 J	33 J	55
trans-1,3-Dichloropropene	1	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
Trichloroethene	1	670 ^[A]	870 ^[A]	670 ^[A]	24000 ^[A]	-	56000 ^[A]	22000 ^[A]	25000 ^[A]	38000 ^[A]	37000 ^[A]	39000 ^[A]	46000 ^[A]	21000 ^[A]	23000 ^[A]	17000 ^[A]	89 ^[A]	17 J ^[A]	ND (50)
Trichlorofluoromethane (CFC-11)	2000	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	-	ND (50)	ND (50)	ND (50)
Trifluorotrichloroethane (Freon 113)	20000	ND (2)	ND (2)	ND (2)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	-	ND (50)	ND (50)	ND (50)
Vinyl chloride	1	22 ^[A]	27 ^[A]	30 ^[A]	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	28 J ^[A]	160 ^[A]	120 F1 ^[A]	9600 ^[A]
Xylene (total)	1000	ND (2)	ND (4)	ND (4)	ND (50)	-	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	ND (100)	-	ND (50)	ND (50)	ND (50)

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Notes:
1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
 2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
 3. Results in **bold** are detected.
 4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-85	MW-85	MW-85	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86
Sample Date	Quality	08/24/2020	10/20/2020	03/16/2021	08/21/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/18/2019	12/06/2019	12/23/2019	12/23/2019	01/20/2020	01/20/2020	02/20/2020	04/08/2020	08/25/2020	10/21/2020
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	FD	N	FD	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																			
Temperature (Deg C)	-	20.65	17.99	11.49	19.63	16.24	16.25	16.67	16.43	13.27	12.92	14.46	-	15.86	-	11.99	16.48	21.16	16.31
Conductivity, Field (mS/cm)	-	0.512	0.774	0.215	0.133	0.263	0.349	0.342	0.361	0.34	0.289	0.296	-	0.287	-	0.308	0.374	0.243	0.252
ORP, Field (mv)	-	-43.3	-59.7	-57.2	133.7	152.1	210.8	236.6	-74.8	-29	-27.8	-49.3	-	-44.9	-	134.5	116.4	-192.7	3
Turbidity, Field (NTU)	-	12.7	4.77	8.96	12.6	4.86	7.92	10.5	2.72	22.8	23.8	24.4	-	27.9	-	1.21	1.17	3.22	2.01
pH, Field (pH units)	-	5.78	5.84	5.43	9.68	9.37	9.39	9.66	9.31	8.52	8.44	8.48	-	8.33	-	7.7	7.9	8.1	9.04
Dissolved Oxygen, Field (ug/L)	-	1180	1380	730	630	2810	590	590	410	680	680	790	-	710	-	860	110	390	1360
Inorganic Compounds (ug/L)																			
Antimony	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	70	4.1	2.4 J	ND (4)	127 ^[A]	60	62.4	61.8	146 ^[A]	73 ^[A]	24	22.2	21	-	-	-	138 ^[A]	1 J	54.5
Chromium VI (Hexavalent)	-	-	-	-	83.9	53.4	56.9	49.3	ND (10)	20.4	ND (10)	ND (10)	ND (10) H	-	-	-	-	-	-
Cobalt	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	300	1960 ^[A]	7220 ^[A]	4710 ^[A]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron, Dissolved	300	2020 ^[A]	6600 B ^[A]	4620 ^[A]	-	-	-	-	-	-	-	-	-	183	188	68.7 J	ND (120)	26.2 J	38.7 J
Lead	5	-	-	-	-	-	-	-	-	-	-	-	-	ND (120)	ND (120)	ND (120)	ND (120)	32 J	21.1 JB
Manganese	50	9440 ^[A]	22700 ^[A]	24300 ^[A]	-	-	-	-	-	-	-	-	-	12.7	11.6	5.9 J	7 J	10.7	6.5 J
Manganese, Dissolved	50	9700 ^[A]	21600 ^[A]	24500 ^[A]	-	-	-	-	-	-	-	-	-	9.9	7.5 J	3.8 J	6.1 J	10	5.7 J
Mercury	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	100	4.5	6.1	5.6	9.1	2.6 J	ND (4)	2.4 J	4.3	20.1	2.7 J	3.1 J	2.7 J	-	-	-	ND (4)	1.6 J	ND (4)
Selenium	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	50000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other (ug/L)																			
Alkalinity, Bicarbonate (as CaCO3)	-	131000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69000	-
Alkalinity, Carbonate	-	ND (5000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5000)	-
Alkalinity, Hydroxide	-	ND (5000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5000)	-
Alkalinity, Total (as CaCO3)	-	131000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69000	-
Carbon Dioxide, Free	-	446000 HF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5000) HF	-
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	4400	3900	1600	-	-	-
Ethane	-	ND (170)	ND (170)	ND (170)	-	-	-	-	-	-	-	-	-	1.9 J	1.9 J	2.5 J	ND (7.5)	ND (7.5)	ND (7.5)
Ethene	-	1000	4000	5200	-	-	-	-	-	-	-	-	-	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)
Methane	-	2500	6900 D	25000 D	-	-	-	-	-	-	-	-	-	10	9.4	4	2.9 J	4.3	17
Nitrate (as N)	10000	ND (100)	23 J	ND (100)	-	-	-	-	-	-	-	-	-	29 JB	29 JB	770	730 F1	26 JBF1	690
Nitrite/Nitrate	10000	ND (100)	ND (100)	37 J	-	-	-	-	-	-	-	-	-	61 JB	64 JB	800 B	740 F1	57 JB^	760
Sulfate	250000	ND (5000)	ND (5000)	ND (5000)	-	-	-	-	-	-	-	-	-	21900	23600	25000	24100	25200	21600
Total Dissolved Solids (TDS)	500000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	-	117000	214000	151000	1700	2100	2200	7800	2300 B	4200	13300 B	13700	13900	5900	6300	1700	1700	2500	1300
PCBs (ug/L)																			
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (ug/L)																			
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	7.5 ^[A]	9.8 ^[A]	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haley & Aldrich, Inc.																			

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RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-85	MW-85	MW-85	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86
Sample Date	Quality	08/24/2020	10/20/2020	03/16/2021	08/21/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/18/2019	12/06/2019	12/23/2019	12/23/2019	01/20/2020	01/20/2020	02/20/2020	04/08/2020	08/25/2020	10/21/2020
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	FD	N	FD	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol (o-Cresol)	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atrazine	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenyl	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	5000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds (ug/L)																			
1,1,1-Trichloroethane	30	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,2,2-Tetrachloroethane	1	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,2-Trichloroethane	3	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	2.6 J	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	2.2 J	ND (5)	2.3 J
1,1-Dichloroethane	50	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	1.4 J	ND (5)	ND (5)
1,1-Dichloroethene	1	14 J ^[A]	3.9 J ^[A]	ND (1)	3.1 J ^[A]	ND (10)	ND (10)	2.1 J ^[A]	2 J ^[A]	ND (20)	1.7 J ^[A]	2.4 J ^[A]	2.1 J ^[A]	ND (5)	ND (5)	ND (5)	1.6 J ^[A]	2.5 J ^[A]	3.5 J ^[A]

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-85	MW-85	MW-85	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86	MW-86
Sample Date	Quality	08/24/2020	10/20/2020	03/16/2021	08/21/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/18/2019	12/06/2019	12/23/2019	12/23/2019	01/20/2020	01/20/2020	02/20/2020	04/08/2020	08/25/2020	10/21/2020
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	FD	N	FD	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	9	ND (25)	ND (10)	ND (1)	ND (5)	3.9 J	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichlorobenzene	600	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichloroethane	2	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichloropropane	1	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,3-Dichlorobenzene	600	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,4-Dichlorobenzene	75	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Butanone (Methyl Ethyl Ketone)	300	ND (130)	ND (50)	28	ND (25)	ND (50)	ND (50)	ND (25) *	ND (25)	ND (100)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)
2-Hexanone	300	ND (130)	ND (50)	ND (5)	ND (25)	ND (50)	ND (50)	ND (25)	ND (25)	ND (100)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (130)	ND (50)	ND (5)	ND (25)	ND (50)	ND (50)	ND (25)	ND (25)	ND (100)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)
Acetone	6000	ND (130)	ND (50)	12	ND (25)	ND (50)	ND (50)	ND (25)	ND (25)	ND (100)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	33	ND (25)	ND (25)	ND (25)
Benzene	1	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromodichloromethane	1	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromoform	4	ND (25) *	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) F1*	ND (5)	ND (5)
Bromomethane (Methyl Bromide)	10	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Carbon disulfide	700	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Carbon tetrachloride	1	ND (25)	ND (10)	ND (1)	3.9 J ^[A]	ND (10)	3.8 J ^[A]	2.2 J ^[A]	7.8 ^[A]	ND (20)	1.9 J ^[A]	2.1 J ^[A]	ND (5)	ND (5)	ND (5)	7.5 ^[A]	4.3 J ^[A]	ND (5)	4.4 J ^[A]
Chlorobenzene	50	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloroethane	5	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5) *	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloroform (Trichloromethane)	70	ND (25)	ND (10)	ND (1)	3.9 J	ND (10)	3.9 J	2.8 J	4.6 J	ND (20)	3.1 J	4.7 J	3.6 J	5.9	5.2	5.6	ND (5)	ND (5)	4.5 J
Chloromethane (Methyl Chloride)	100	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
cis-1,2-Dichloroethene	70	6200 ^[A]	2300 ^[A]	3.9	18	31	49	16	33	40	22	24	21	30	26	29	62 F1	1100 ^[A]	480 ^[A]
cis-1,3-Dichloropropene	1	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Cyclohexane	100	ND (25)	ND (10)	1.4	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Dibromochloromethane	1	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Dichlorodifluoromethane (CFC-12)	1000	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	2.7 J	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Ethylbenzene	700	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Isopropylbenzene (Cumene)	700	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methyl acetate	7000	ND (130)	ND (50)	ND (5)	ND (25) *	ND (50)	ND (50)	ND (25)	ND (25)	ND (100)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25) *
Methyl cyclohexane	100	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5) *	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methyl Tert Butyl Ether	70	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methylene chloride	3	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	3.7 J ^[A]	ND (5)
Styrene	100	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Tetrachloroethene	1	ND (25)	ND (10)	ND (1)	1.6 J ^[A]	2.9 J ^[A]	3.7 J ^[A]	ND (5)	1.9 J ^[A]	ND (20)	ND (5)	1.6 J ^[A]	ND (5)	1.3 J ^[A]	ND (5)	1.5 J ^[A]	ND (5)	ND (5)	ND (5)
Toluene	600	ND (25)	ND (10)	1.5	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
trans-1,2-Dichloroethene	100	67	49	0.99 J	2.7 J	ND (10)	ND (10)	ND (5)	1.3 J	ND (20)	2.3 J	2.7 J	1.7 J	2.1 J	1.9 J	ND (5)	1.3 J	6.5	3.9 J
trans-1,3-Dichloropropene	1	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Trichloroethene	1	71 ^[A]	16 ^[A]	0.7 J	2300 ^[A]	3500 ^[A]	4000 ^[A]	2100 ^[A]	2300 ^[A]	4400 ^[A]	2000 ^[A]	2400 ^[A]	1900 ^[A]	2000 ^[A]	1700 ^[A]	1100 ^[A]	980 ^[A]	27 ^[A]	2200 ^[A]
Trichlorofluoromethane (CFC-11)	2000	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5) *	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Trifluorotrichloroethane (Freon 113)	20000	ND (25)	ND (10)	ND (1)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Vinyl chloride	1	7400 ^[A]	4300 ^[A]	72 ^[A]	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	2.8 J ^[A]	2.1 J ^[A]
Xylene (total)	1000	ND (25)	ND (20)	ND (2)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (20)	4.5 J	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
3. Results in **bold** are detected.
4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-86	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87
Sample Date	Quality	03/15/2021	03/02/2018	08/21/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/05/2019	11/13/2019	11/18/2019	12/06/2019	12/20/2019	01/20/2020	02/20/2020	04/08/2020	08/24/2020	10/20/2020	03/15/2021
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																			
Temperature (Deg C)	-	14.35	14.08	18.14	14.57	15.15	16.39	17.2	16.41	15.16	11.1	13.97	11.62	12.23	10.68	16.15	24.17	17.34	14.22
Conductivity, Field (mS/cm)	-	0.295	0.221	0.355	0.286	0.355	0.225	0.326	0.241	0.251	0.291	0.248	0.323	0.278	0.22	0.369	0.214	0.339	0.271
ORP, Field (mv)	-	35.4	-26.2	162.3	113.6	40.3	104.3	121.2	49	49	7.1	-48.7	-94.2	-92.8	30.8	101.2	186.4	-82.8	-82.3
Turbidity, Field (NTU)	-	8.99	16.2	0.72	7.74	9.36	10.6	9.19	5.4	10.1	9.86	19.1	9.21	11.8	10.4	7.96	9.62	7.1	9.68
pH, Field (pH units)	-	7.96	10.32	7.09	7.69	7.57	9.38	7.76	7.72	7.74	7.78	9.27	7.97	7.93	8.31	7.18	7.36	7.4	7.84
Dissolved Oxygen, Field (ug/L)	-	270	1910	260	780	570	400	430	0	0	430	1270	1010	1180	470	110	1120	1890	2630
Inorganic Compounds (ug/L)																			
Antimony	6	-	4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	3	-	0.83 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	6000	-	96.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	1	-	ND (0.8)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	4	-	ND (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	70	43.8	15.6	ND (4)	6.1	12.8	4.3	29.9	-	-	3.7 J	7.9	18.2	-	-	14.1	1.1 J	1.8 J	ND (4)
Chromium VI (Hexavalent)	-	-	-	ND (10)	5.5 J	8.9 J	ND (10)	115	-	-	ND (10)	557	ND (10)	-	-	-	-	-	-
Cobalt	100	-	ND (4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	1300	-	ND (4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	100	-	2.2 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	300	69.4 J	-	ND (120)	-	-	-	-	-	-	-	-	613 ^[A]	491 ^[A]	197	305 ^[A]	68.1 J	76.1 J	ND (120)
Iron, Dissolved	300	ND (120)	-	-	-	-	-	-	-	-	-	-	-	ND (120)	ND (120)	ND (120)	20.8 J	22.9 JB	ND (120)
Lead	5	-	ND (1.2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	50	4.8 J	ND (8)	-	-	-	-	-	-	-	-	-	-	22.8	15.6	67.2 ^[A]	9.8	36.4	5.4 J
Manganese, Dissolved	50	6.6 JB	-	-	-	-	-	-	-	-	-	-	-	13.4	8.8	42.9	8.8	34.9	4.7 JB
Mercury	2	-	ND (0.2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	100	1.8 J	3.5 J	3.6 J	5.6	11.8	4.8	23.1	-	-	4.5	7.6	10.9	-	-	12.5	4	2.7 J	3.7 J
Selenium	40	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	40	-	ND (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	50000	-	-	15200	-	-	-	-	-	-	-	-	15500	-	-	-	-	-	-
Zinc	2000	-	ND (16)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other (ug/L)																			
Alkalinity, Bicarbonate (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46800	-	-
Alkalinity, Carbonate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13900	-	-
Alkalinity, Hydroxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5000)	-	-
Alkalinity, Total (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60700	-	-
Carbon Dioxide, Free	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5000) HF	-	-
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	250000	-	-	16000	-	-	-	-	-	-	-	-	15100	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	7600	5600	-	-	-	-
Ethane	-	ND (7.5)	-	-	-	-	-	-	-	-	-	-	-	ND (7.5)	ND (7.5)	ND (7.5)	ND (7.5)	ND (7.5)	ND (7.5)
Ethene	-	4.9 J	-	-	-	-	-	-	-	-	-	-	-	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)
Methane	-	5	-	-	-	-	-	-	-	-	-	-	-	ND (4)	ND (4)	ND (4)	2.8 J	260	27
Nitrate (as N)	10000	1000	-	-	-	-	-	-	-	-	-	-	-	29 JB	23 J	980	ND (100)	810	90 J
Nitrite/Nitrate	10000	1100	-	-	-	-	-	-	-	-	-	-	-	60 JB	55 JB	1000	ND (100)	810	120
Sulfate	250000	23100	-	-	-	-	-	-	-	-	-	-	-	12600	18300	10900	22100	11500	22700
Total Dissolved Solids (TDS)	500000	-	-	206000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	-	1600	-	2000	2000	3700 B	4000	3100 B	3100	4200 B	4200	5900 B	5000	8700	6000	2000	2500	1100	1900
PCBs (ug/L)																			
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (ug/L)																			
1,4-Dioxane	0.4	-	3 ^[A]	-	-	-	-	-	-	-	-	6.4 ^[A]	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	300	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	700	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	20	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	20	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haley & Aldrich, Inc.																			

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-86	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87
Sample Date	Quality	03/15/2021	03/02/2018	08/21/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/05/2019	11/13/2019	11/18/2019	12/06/2019	12/20/2019	01/20/2020	02/20/2020	04/08/2020	08/24/2020	10/20/2020	03/15/2021
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	40	-	ND (21)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	10	-	ND (2.1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	10	-	ND (2.1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	600	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	40	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	30	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol (o-Cresol)	50	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	30	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	1	-	ND (21)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	30	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	50	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100	-	ND (21)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	400	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	700	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	2000	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atrazine	3	-	ND (2.1) *	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	0.1	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.1	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	0.2	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.5	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenyl	400	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	7	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	3	-	ND (2.1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	5000	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	5	-	ND (2.1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	0.3	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	6000	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	700	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	300	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	300	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	0.02	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	1	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	40	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	7	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.2	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	40	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	300	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	6	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	10	-	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	10	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	0.3	-	ND (21)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	100	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	2000	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	200	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds (ug/L)																			
1,1,1-Trichloroethane	30	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
1,1,2,2-Tetrachloroethane	1	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
1,1,2-Trichloroethane	3	1.8 J	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	10 J ^[A]	ND (25)
1,1-Dichloroethane	50	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
1,1-Dichloroethene	1	2.4 J ^[A]	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-86	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87	MW-87
Sample Date	Quality	03/15/2021	03/02/2018	08/21/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/05/2019	11/13/2019	11/18/2019	12/06/2019	12/20/2019	01/20/2020	02/20/2020	04/08/2020	08/24/2020	10/20/2020	03/15/2021
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	9	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (5)	-	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (5)	-	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
1,2-Dichlorobenzene	600	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
1,2-Dichloroethane	2	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
1,2-Dichloropropane	1	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
1,3-Dichlorobenzene	600	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
1,4-Dichlorobenzene	75	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
2-Butanone (Methyl Ethyl Ketone)	300	ND (25)	ND (500)	ND (250)	ND (250)	ND (250)	ND (130)	ND (250)	ND (500)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (100)	ND (500)	ND (130)	ND (250)	ND (130)
2-Hexanone	300	ND (25)	ND (500)	ND (250)	ND (250)	ND (250)	ND (130)	ND (250)	ND (500)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (100)	ND (500)	ND (130)	ND (250)	ND (130)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (25)	ND (500)	ND (250)	ND (250)	ND (250)	ND (130)	ND (250)	ND (500)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (100)	ND (500)	ND (130)	ND (250)	ND (130)
Acetone	6000	ND (25)	ND (500)	ND (250)	ND (250)	ND (250)	ND (130)	ND (250)	ND (500)	ND (250)	ND (250)	ND (250)	330	ND (250)	ND (100)	ND (500)	ND (130)	ND (250)	ND (130)
Benzene	1	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Bromodichloromethane	1	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Bromoform	4	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25) *	ND (50)	ND (25)
Bromomethane (Methyl Bromide)	10	ND (5)	ND (100)	ND (50)	ND (50) *	ND (50)	ND (25) *	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Carbon disulfide	700	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Carbon tetrachloride	1	8.9 ^[A]	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Chlorobenzene	50	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Chloroethane	5	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Chloroform (Trichloromethane)	70	4.8 J	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Chloromethane (Methyl Chloride)	100	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
cis-1,2-Dichloroethene	70	200 ^[A]	40 J	74 ^[A]	58	83 ^[A]	46	79 ^[A]	76 J ^[A]	57	60	76 ^[A]	90 ^[A]	62	71 ^[A]	82 J ^[A]	84 ^[A]	140 ^[A]	170 ^[A]
cis-1,3-Dichloropropene	1	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Cyclohexane	100	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Dibromochloromethane	1	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Dichlorodifluoromethane (CFC-12)	1000	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Ethylbenzene	700	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Isopropylbenzene (Cumene)	700	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Methyl acetate	7000	ND (25) *+	ND (500)	ND (250) *	ND (250)	ND (250)	ND (130)	ND (250)	ND (500)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (100)	ND (500)	ND (130)	ND (250)	ND (130)
Methyl cyclohexane	100	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Methyl Tert Butyl Ether	70	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Methylene chloride	3	ND (5)	24 J ^[A]	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Styrene	100	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Tetrachloroethene	1	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	6.4 J ^[A]	ND (50)	ND (100)	15 J ^[A]	ND (50)	ND (50)	ND (50)	ND (50)	5.4 J ^[A]	ND (100)	ND (25)	ND (50)	7 J ^[A]
Toluene	600	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
trans-1,2-Dichloroethene	100	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
trans-1,3-Dichloropropene	1	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Trichloroethene	1	1300 ^[A]	22000 ^[A]	11000 ^[A]	16000 ^[A]	11000 ^[A]	8100 ^[A]	13000 ^[A]	26000 ^[A]	20000 ^[A]	14000 ^[A]	9200 ^[A]	12000 ^[A]	9600 ^[A]	7600 ^[A]	22000 ^[A]	9500 ^[A]	20000 ^[A]	7800 ^[A]
Trichlorofluoromethane (CFC-11)	2000	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Trifluorotrichloroethane (Freon 113)	20000	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Vinyl chloride	1	ND (5)	ND (100)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (50)	ND (25)
Xylene (total)	1000	ND (10)	ND (200)	ND (50)	ND (50)	ND (50)	ND (25)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (20)	ND (100)	ND (25)	ND (100)	ND (50)

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	ND (0.02)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	ND (0.02)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Notes:
1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
 2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
 3. Results in **bold** are detected.
 4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-87	MW-88	MW-88	MW-88	MW-88	MW-88	MW-88	MW-88	MW-88	MW-88	RW-200A	RW-200A	RW-200A	RW-200A	RW-200A	RW-200B	RW-200B	RW-200B
Sample Date	Quality	03/15/2021	08/21/2019	11/20/2019	12/06/2019	12/20/2019	01/20/2020	02/20/2020	04/07/2020	10/22/2020	03/16/2021	08/20/2019	11/19/2019	12/05/2019	12/05/2019	12/23/2019	08/20/2019	11/19/2019	12/05/2019
Sample Type	Standards	FD	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	55 (ft)	-	-	-	-	90 (ft)	-	-
Field Parameters																			
Temperature (Deg C)	-	-	24	16.22	15	14.6	11.02	13.41	16.31	17.88	14.3	25.01	10.65	9.98	-	8.59	20.73	11.38	11.05
Conductivity, Field (mS/cm)	-	-	0.19	0.196	0.188	0.183	0.00178	0.186	0.191	0.19	0.241	0.251	0.283	0.257	-	0.264	0.231	0.248	0.245
ORP, Field (mv)	-	-	171.8	37.9	-2.4	50	58.8	215.8	7.2	208.2	237.4	24.2	11	26.1	-	31.3	22.7	40.6	43.6
Turbidity, Field (NTU)	-	-	3.33	7.82	10.9	21.9	46.7	34.9	26.3	20.8	3.61	21.6	18.2	17.1	-	18.4	41.4	34.3	45.8
pH, Field (pH units)	-	-	5.38	5.8	5.91	5.78	5.97	4.73	5.86	5.13	5.21	5.99	5.95	5.98	-	5.95	5.75	5.73	5.75
Dissolved Oxygen, Field (ug/L)	-	-	4820	600	1260	960	1170	2420	1540	840	830	420	600	720	-	1230	150	460	570
Inorganic Compounds (ug/L)																			
Antimony	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	70	-	1030 ^[A]	891 ^[A]	806 ^[A]	867 ^[A]	-	-	791 ^[A]	686 ^[A]	665 ^[A]	5.8	3.8 J	2.3 J	2.4 J	2.7 J	19.2	10	8.2
Chromium VI (Hexavalent)	-	-	833	668	ND (10)	114	-	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Cobalt	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	300	ND (120)	-	-	-	-	298	334 ^[A]	-	-	ND (120)	-	-	-	-	-	-	-	-
Iron, Dissolved	300	ND (120)	-	-	-	-	ND (120)	ND (120)	-	-	ND (120)	-	-	-	-	-	-	-	-
Lead	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	50	6.5 J	-	-	-	-	26.7	93.5 ^[A]	-	-	19.2	-	-	-	-	-	-	-	-
Manganese, Dissolved	50	4.4 JB	-	-	-	-	17.6	33	-	-	14.8	-	-	-	-	-	-	-	-
Mercury	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	100	-	6.7	6	6.3	8.1	-	-	9.2	6.7	5.9	19.4	6.3	4.2	5.1	4.2	14.8	8.8	10.1
Selenium	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	50000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other (ug/L)																			
Alkalinity, Bicarbonate (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Hydroxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Dioxide, Free	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	2200	2300	-	-	-	-	-	-	-	-	-	-	-
Ethane	-	-	-	-	-	-	ND (7.5)	ND (7.5)	-	-	ND (7.5)	-	-	-	-	-	-	-	-
Ethene	-	-	-	-	-	-	ND (7)	ND (7)	-	-	ND (7)	-	-	-	-	-	-	-	-
Methane	-	-	-	-	-	-	ND (4)	ND (4)	-	-	ND (4)	-	-	-	-	-	-	-	-
Nitrate (as N)	10000	-	-	-	-	-	1300 B	1500	-	-	2800	-	-	-	-	-	-	-	-
Nitrite/Nitrate	10000	-	-	-	-	-	1300 B	1500 B	-	-	2800	-	-	-	-	-	-	-	-
Sulfate	250000	-	-	-	-	-	27900	31100	-	-	31300	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	500000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	-	-	-	-	-	-	1700	2600	-	-	1800	-	-	-	-	-	-	-	-
PCBs (ug/L)																			
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (ug/L)																			
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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EWING, NJ

Location	Groundwater	MW-87	MW-88	MW-88	MW-88	MW-88	MW-88	MW-88	MW-88	MW-88	MW-88	MW-88	RW-200A	RW-200A	RW-200A	RW-200A	RW-200A	RW-200B	RW-200B	RW-200B
Sample Date	Quality	03/15/2021	08/21/2019	11/20/2019	12/06/2019	12/20/2019	01/20/2020	02/20/2020	04/07/2020	10/22/2020	03/16/2021	08/20/2019	11/19/2019	12/05/2019	12/05/2019	12/23/2019	08/20/2019	11/19/2019	12/05/2019	
Sample Type	Standards	FD	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	
Sample Depth (bgs)												55 (ft)						90 (ft)		
2,4-Dimethylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,4-Dinitrophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,4-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,6-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Chloronaphthalene	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Chlorophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Methylnaphthalene	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Methylphenol (o-Cresol)	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3,3'-Dichlorobenzidine	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4,6-Dinitro-2-methylphenol	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Bromophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Chloro-3-methylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Chloroaniline	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Chlorophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Methylphenol	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthene	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acetophenone	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Atrazine	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzaldehyde	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Biphenyl	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
bis(2-Chloroethoxy)methane	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
bis(2-Chloroethyl)ether	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
bis(2-Ethylhexyl)phthalate	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Butyl benzylphthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Caprolactam	5000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbazole	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenz(a,h)anthracene	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzofuran	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Diethyl phthalate	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dimethyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Di-n-butylphthalate	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Di-n-octyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobenzene	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobutadiene	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorocyclopentadiene	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachloroethane	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Isophorone	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nitrobenzene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-Nitrosodi-n-propylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-Nitrosodiphenylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenol	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Volatile Organic Compounds (ug/L)																				
1,1,1-Trichloroethane	30	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,1,2,2-Tetrachloroethane	1	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,1,2-Trichloroethane	3	ND (25)	1.1	2.2 J	1.4	2.1	2.3 J	2.2	2.3 J	3.6 J ^[A]	2.7 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,1-Dichloroethane	50	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,1-Dichloroethene	1	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	MW-87	MW-88	MW-88	MW-88	MW-88	MW-88	MW-88	MW-88	MW-88	MW-88	MW-88	RW-200A	RW-200A	RW-200A	RW-200A	RW-200A	RW-200B	RW-200B	RW-200B
Sample Date	Quality	03/15/2021	08/21/2019	11/20/2019	12/06/2019	12/20/2019	01/20/2020	02/20/2020	04/07/2020	10/22/2020	03/16/2021	08/20/2019	11/19/2019	12/05/2019	12/05/2019	12/23/2019	08/20/2019	11/19/2019	12/05/2019	
Sample Type	Standards	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Sample Depth (bgs)	-	-	-	-	-	-	-	-	-	-	-	55 (ft)	-	-	-	-	90 (ft)	-	-	
1,2,4-Trichlorobenzene	9	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,2-Dichlorobenzene	600	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,2-Dichloroethane	2	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,2-Dichloropropane	1	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,3-Dichlorobenzene	600	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,4-Dichlorobenzene	75	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
2-Butanone (Methyl Ethyl Ketone)	300	ND (130)	ND (5)	ND (25)	ND (5)	ND (10)	ND (25)	ND (10)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	
2-Hexanone	300	ND (130)	ND (5)	ND (25)	ND (5)	ND (10)	ND (25)	ND (10)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (130)	ND (5)	ND (25)	ND (5)	ND (10)	ND (25)	ND (10)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	
Acetone	6000	ND (130)	ND (5)	ND (25)	ND (5)	ND (10)	ND (25)	ND (10)	ND (25)	ND (25)	28 *1	ND (5)	260	ND (5)	ND (5)	ND (5)	ND (5)	18	ND (5)	
Benzene	1	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Bromodichloromethane	1	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Bromoform	4	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Bromomethane (Methyl Bromide)	10	ND (25)	ND (1)	ND (5) *	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Carbon disulfide	700	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Carbon tetrachloride	1	ND (25)	0.28 J	ND (5)	0.53 J	0.83 J	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	0.45 J	ND (1)	ND (1)	ND (1)	0.37 J	0.49 J	0.51 J	
Chlorobenzene	50	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Chloroethane	5	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	
Chloroform (Trichloromethane)	70	ND (25)	0.51 J	ND (5)	0.7 J	0.97 J	ND (5)	0.88 J	ND (5)	ND (5)	ND (5)	0.53 J	0.48 J	0.41 J	0.45 J	0.48 J	0.49 J	0.55 J	0.51 J	
Chloromethane (Methyl Chloride)	100	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
cis-1,2-Dichloroethene	70	170 [A]	3.2	10	4.6	8.1	9.4	15	12	7.6	17	19	17	15	15	14	17	14	13	
cis-1,3-Dichloropropene	1	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Cyclohexane	100	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5) *1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Dibromochloromethane	1	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Dichlorodifluoromethane (CFC-12)	1000	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Ethylbenzene	700	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Isopropylbenzene (Cumene)	700	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Methyl acetate	7000	ND (130)	ND (5) *	ND (25)	ND (5)	ND (10)	ND (25)	ND (10)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	
Methyl cyclohexane	100	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Methyl Tert Butyl Ether	70	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Methylene chloride	3	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Styrene	100	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Tetrachloroethene	1	ND (25)	0.72 J	1.5 J [A]	1.5 [A]	1.6 J [A]	1.3 J [A]	1.4 J [A]	ND (5)	ND (5)	1.4 J [A]	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Toluene	600	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
trans-1,2-Dichloroethene	100	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
trans-1,3-Dichloropropene	1	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Trichloroethene	1	8300 [A]	180 [A]	1000 [A]	320 [A]	900 [A]	1000 [A]	1000 [A]	850 [A]	1100 [A]	2000 [A]	79 [A]	74 [A]	71 [A]	69 [A]	57 [A]	72 [A]	73 [A]	78 [A]	
Trichlorofluoromethane (CFC-11)	2000	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Trifluorotrichloroethane (Freon 113)	20000	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Vinyl chloride	1	ND (25)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	3.6 [A]	2.8 [A]	4.3 [A]	4.4 [A]	3.2 [A]	2.7 [A]	1.7 [A]	1.7 [A]	
Xylene (total)	1000	ND (50)	ND (1)	ND (5)	ND (1)	ND (2)	ND (5)	ND (2)	ND (5)	ND (10)	ND (10)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Volatile Organic Compounds SIM (ug/L)																				
1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Notes:
1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
 2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
 3. Results in **bold** are detected.
 4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-200B	RW-200C	RW-200C	RW-200C	RW-200C	RW-200C	RW-200C	RW-200C	RW-200C	RW-200C	RW-201A	RW-201A	RW-201A	RW-201A	RW-201B	RW-201B	RW-201B	RW-201B
Sample Date	Quality	12/23/2019	08/20/2019	11/19/2019	11/19/2019	12/05/2019	12/23/2019	04/07/2020	08/26/2020	10/22/2020	03/15/2021	08/20/2019	11/18/2019	12/05/2019	12/20/2019	08/20/2019	11/18/2019	12/05/2019	12/20/2019
Sample Type	Standards	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	120 (ft)	-	-	-	-	-	-	-	-	55 (ft)	-	-	-	80 (ft)	-	-	-
Field Parameters																			
Temperature (Deg C)	-	10.59	18.59	12.91	-	11.96	11.48	14.59	16.48	17.32	12.39	21.19	10.33	12.4	9.56	21.67	9.45	11.97	11.23
Conductivity, Field (mS/cm)	-	0.241	0.229	0.237	-	0.23	0.223	0.285	0.258	0.252	0.237	0.317	0.281	0.279	0.27	0.273	0.259	0.261	0.246
ORP, Field (mv)	-	43.9	29.8	45.2	-	41.3	42	46.5	82.2	50.6	84.1	-158.9	18.5	19.1	14.1	-48.8	34.1	34	33.9
Turbidity, Field (NTU)	-	49.2	76	98.7	-	95.5	97.9	96.9	573	999	872	12.9	33	21.4	17.9	14.2	14.3	18.3	17.5
pH, Field (pH units)	-	5.75	5.55	5.73	-	5.71	5.62	5.78	5.65	6.06	5.69	6.52	6.54	6.55	6.58	6.37	6.48	6.46	6.39
Dissolved Oxygen, Field (ug/L)	-	640	150	360	-	460	510	710	340	710	1110	240	590	710	1130	150	1940	1870	1490
Inorganic Compounds (ug/L)																			
Antimony	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	70	6.9	42.9	39.7	37.9	9.1	9	14.9	34.9	14.2	11.8	7.9	3 J	2.6 J	ND (4)	6.3	ND (4)	ND (4)	ND (4)
Chromium VI (Hexavalent)	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Cobalt	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron, Dissolved	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	100	8.1	12.5	15.1	13.8	8.9	5.7	11.1	5.3	19.8	8.8	12.1	11.8	9	5.5	12.4	12.1	13.3	8.9
Selenium	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	50000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other (ug/L)																			
Alkalinity, Bicarbonate (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Hydroxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Dioxide, Free	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite/Nitrate	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	500000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	-	-	-	-	-	-	-	-	-	3200	2900	-	-	-	-	-	-	-	-
PCBs (ug/L)																			
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (ug/L)																			
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	0.12 J	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-200B	RW-200C	RW-200C	RW-200C	RW-200C	RW-200C	RW-200C	RW-200C	RW-200C	RW-200C	RW-201A	RW-201A	RW-201A	RW-201A	RW-201B	RW-201B	RW-201B	RW-201B
Sample Date	Quality	12/23/2019	08/20/2019	11/19/2019	11/19/2019	12/05/2019	12/23/2019	04/07/2020	08/26/2020	10/22/2020	03/15/2021	08/20/2019	11/18/2019	12/05/2019	12/20/2019	08/20/2019	11/18/2019	12/05/2019	12/20/2019
Sample Type	Standards	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	120 (ft)	-	-	-	-	-	-	-	-	55 (ft)	-	-	-	80 (ft)	-	-	-
1,2,4-Trichlorobenzene	9	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloroethane	2	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,3-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,4-Dichlorobenzene	75	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Acetone	6000	ND (5)	ND (5)	12	12	ND (5)	ND (5)	ND (5)	ND (5)	14	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Benzene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromodichloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromoform	4	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)*	ND (1)*	ND (1)	ND (1)	ND (1)*	ND (1)*	ND (1)	ND (1)
Carbon disulfide	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon tetrachloride	1	ND (1)	0.34 J	0.58 J	0.49 J	0.49 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chlorobenzene	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloroethane	5	ND (1)*	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)*	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloroform (Trichloromethane)	70	0.58 J	0.48 J	0.61 J	0.53 J	0.53 J	0.54 J	0.43 J	0.44 J	0.5 J	0.39 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
cis-1,2-Dichloroethene	70	13	17	17	15	13	13	10	15	14	8.5	3.4	6	4.5	3.3	8.9	14	10	7.5
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)*1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dibromochloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Isopropylbenzene (Cumene)	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methyl acetate	7000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)*+	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methyl cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)*1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methyl Tert Butyl Ether	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methylene chloride	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Styrene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Tetrachloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trichloroethene	1	64 ^[A]	71 ^[A]	86 ^[A]	75 ^[A]	76 ^[A]	62 ^[A]	71 ^[A]	71 ^[A]	59 ^[A]	31 ^[A]	17 ^[A]	30 ^[A]	23 ^[A]	18 ^[A]	49 ^[A]	66 ^[A]	52 ^[A]	42 ^[A]
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Vinyl chloride	1	1.8 ^[A]	2.5 ^[A]	2 ^[A]	1.7 ^[A]	1.5 ^[A]	1.5 ^[A]	0.46 J	1	0.81 J	ND (1)	4.4 ^[A]	4.2 ^[A]	3.8 ^[A]	5.1 ^[A]	3.3 ^[A]	3.6 ^[A]	3 ^[A]	2.6 ^[A]
Xylene (total)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Volatile Organic Compounds SIM (ug/L)																			
1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Notes:
1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
 2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
 3. Results in **bold** are detected.
 4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-201C	RW-201C	RW-201C	RW-201C	RW-201C	RW-201C	RW-201C	RW-201C	RW-202A	RW-202A	RW-202A	RW-202A	RW-202A	RW-202B	RW-202B	RW-202B	RW-202B	RW-202C
Sample Date	Quality	08/20/2019	11/18/2019	12/05/2019	12/20/2019	04/07/2020	08/26/2020	10/20/2020	03/15/2021	08/21/2019	11/20/2019	11/20/2019	12/04/2019	12/20/2019	08/21/2019	11/20/2019	12/04/2019	12/20/2019	08/21/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N
Sample Depth (bgs)		120 (ft)	-	-	-	-	-	-	-	55 (ft)	-	-	-	-	80 (ft)	-	-	-	100 (ft)
Field Parameters																			
Temperature (Deg C)	-	22.97	15.23	12.12	12.17	15.85	18.92	17.95	13.72	22.59	12.56	-	11.75	9.52	24.73	12.03	12.01	10.25	25.2
Conductivity, Field (mS/cm)	-	0.257	0.271	0.275	0.288	0.281	0.261	0.239	0.233	0.353	0.362	-	0.324	0.344	0.357	0.36	0.359	0.355	0.377
ORP, Field (mv)	-	-43.9	25.5	28.3	34.4	31.7	52.3	-39.1	78	94.8	32.4	-	31.1	36.1	55.1	54.9	53.2	53.1	46.2
Turbidity, Field (NTU)	-	31.8	50.1	28.3	25.5	28.6	47.4	999	726	34.5	110	-	117	110	48.7	116	121	124	50.8
pH, Field (pH units)	-	6.19	6.59	6.65	6.71	6.64	6.63	5.96	5.81	6.98	7.17	-	7.17	7.13	7.1	7.18	7.27	7.28	7.21
Dissolved Oxygen, Field (ug/L)	-	190	1780	1800	1770	1610	1520	1530	530	900	2280	-	2490	2710	740	1810	1860	2150	690
Inorganic Compounds (ug/L)																			
Antimony	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	70	3.3 J	4.6	2.5 J	ND (4)	ND (4)	2.7 J	6.6	3.4 J	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)
Chromium VI (Hexavalent)	-	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	ND (10)	ND (10)	8.4 J	ND (10)	ND (10)	14.3	ND (10)	ND (10)	ND (10)	ND (10)
Cobalt	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron, Dissolved	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	100	11.6	14.1	19.3	14.4	9.6	12.6	30.3	16.6	3 J	2.7 J	2.6 J	6.2	3.1 J	2.7 J	2.4 J	ND (4)	2.7 J	ND (4)
Selenium	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	50000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other (ug/L)																			
Alkalinity, Bicarbonate (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Hydroxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Dioxide, Free	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite/Nitrate	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	500000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	-	-	-	-	-	-	-	2100 J	2900	-	-	-	-	-	-	-	-	-	-
PCBs (ug/L)																			
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (ug/L)																			
1,4-Dioxane	0.4	-	-	-	-	-	-	0.35	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haley & Aldrich, Inc.																			

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-201C	RW-201C	RW-201C	RW-201C	RW-201C	RW-201C	RW-201C	RW-201C	RW-202A	RW-202A	RW-202A	RW-202A	RW-202A	RW-202B	RW-202B	RW-202B	RW-202B	RW-202C
Sample Date	Quality	08/20/2019	11/18/2019	12/05/2019	12/20/2019	04/07/2020	08/26/2020	10/20/2020	03/15/2021	08/21/2019	11/20/2019	11/20/2019	12/04/2019	12/20/2019	08/21/2019	11/20/2019	12/04/2019	12/20/2019	08/21/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N
Sample Depth (bgs)		120 (ft)	-	-	-	-	-	-	-	55 (ft)	-	-	-	-	80 (ft)	-	-	-	100 (ft)
2,4-Dimethylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol (o-Cresol)	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atrazine	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenyl	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	100	-	-	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	5000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds (ug/L)																			
1,1,1-Trichloroethane	30	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2,2-Tetrachloroethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2-Trichloroethane	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethane	50	ND (1)	ND (1)	0.29 J	0.27 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-201C	RW-201C	RW-201C	RW-201C	RW-201C	RW-201C	RW-201C	RW-201C	RW-202A	RW-202A	RW-202A	RW-202A	RW-202A	RW-202B	RW-202B	RW-202B	RW-202B	RW-202C
Sample Date	Quality	08/20/2019	11/18/2019	12/05/2019	12/20/2019	04/07/2020	08/26/2020	10/20/2020	03/15/2021	08/21/2019	11/20/2019	11/20/2019	12/04/2019	12/20/2019	08/21/2019	11/20/2019	12/04/2019	12/20/2019	08/21/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N
Sample Depth (bgs)		120 (ft)	-	-	-	-	-	-	-	55 (ft)	-	-	-	-	80 (ft)	-	-	-	100 (ft)
1,2,4-Trichlorobenzene	9	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.28 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloroethane	2	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,3-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,4-Dichlorobenzene	75	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Acetone	6000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Benzene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromodichloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromoform	4	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1) *	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)
Carbon disulfide	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon tetrachloride	1	ND (1)	ND (1)	ND (1)	0.31 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chlorobenzene	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloroethane	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloroform (Trichloromethane)	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
cis-1,2-Dichloroethene	70	9.2	13	17	16	8.4	14	17	8.7	3.1	2.5	2.5	3.8	4.2	2.5	2.5	3.2	2.4	2.2
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dibromochloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Isopropylbenzene (Cumene)	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methyl acetate	7000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methyl cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methyl Tert Butyl Ether	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methylene chloride	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Styrene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Tetrachloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trichloroethene	1	50 ^[A]	58 ^[A]	72 ^[A]	87 ^[A]	56 ^[A]	85 ^[A]	100 ^[A]	58 ^[A]	1.5 ^[A]	1.4 ^[A]	1.3 ^[A]	0.82 J	2.1 ^[A]	1.3 ^[A]	1.5 ^[A]	1.3 ^[A]	1.6 ^[A]	1.3 ^[A]
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Vinyl chloride	1	3.1 ^[A]	3.7 ^[A]	3.3 ^[A]	2.6 ^[A]	1.7 ^[A]	3.5 ^[A]	2.3 ^[A]	0.82 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Xylene (total)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Notes:
1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
 2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
 3. Results in **bold** are detected.
 4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-202C	RW-202C	RW-202C	RW-202C	RW-202C	RW-203A	RW-203A	RW-203A	RW-203A	RW-203A	RW-203A	RW-203A	RW-203B	RW-203B	RW-203B	RW-203B	RW-203B	RW-203B	RW-203C
Sample Date	Quality	11/20/2019	12/04/2019	12/20/2019	10/22/2020	10/22/2020	08/22/2019	10/18/2019	10/23/2019	11/18/2019	12/03/2019	12/18/2019	08/22/2019	10/18/2019	10/23/2019	11/18/2019	12/03/2019	12/18/2019	08/22/2019	
Sample Type	Standards	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	
Sample Depth (bgs)		-	-	-	-	-	55 (ft)	-	-	-	-	-	80 (ft)	-	-	-	-	-	100 (ft)	
Field Parameters																				
Temperature (Deg C)	-	14.04	12.42	11.39	17.23	-	24.52	13.97	15.07	12.12	11.56	10.19	23.96	12.97	16.38	12.83	12.24	11.28	24.31	
Conductivity, Field (mS/cm)	-	0.36	0.372	0.391	0.328	-	0.335	0.373	0.324	0.331	0.33	0.371	0.34	0.352	0.311	0.334	0.331	0.342	0.291	
ORP, Field (mv)	-	64.5	62.1	62.6	48.7	-	-84.3	-83.1	25.9	-85.7	-88.9	-90.5	-64.1	-59.7	34.8	-59.1	-67.9	-65.6	-58.7	
Turbidity, Field (NTU)	-	88.3	87.8	83.8	88.6	-	24.8	29	120	25.3	31.5	29	37.9	34.7	168	39.1	39.7	43.9	27.5	
pH, Field (pH units)	-	7.24	7.34	7.41	6.62	-	6.67	6.28	5.96	6.69	6.67	6.48	6.37	6.45	5.93	6.29	6.3	6.32	6.23	
Dissolved Oxygen, Field (ug/L)	-	1260	1330	1620	1340	-	800	830	300	710	1130	1250	340	630	80	700	520	740	190	
Inorganic Compounds (ug/L)																				
Antimony	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	70	ND (4)	ND (4)	ND (4)	-	-	ND (4)	-	-	56.9	ND (4)	3.2 J	5	-	-	50.6	9.2	4.6	4.4	
Chromium VI (Hexavalent)	-	ND (10)	ND (10)	ND (10)	-	-	54.4	-	-	27.3	ND (10)	44.8	93	-	-	ND (20)	ND (10)	52.9	57.9	
Cobalt	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iron	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iron, Dissolved	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mercury	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	100	ND (4)	2.8 J	ND (4)	-	-	5.9	-	-	8.8	8.1	10.3	17.4	-	-	12.5	11.4	14.8	15.7	
Selenium	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	50000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other (ug/L)																				
Alkalinity, Bicarbonate (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Alkalinity, Carbonate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Alkalinity, Hydroxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Alkalinity, Total (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Dioxide, Free	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloride	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nitrate (as N)	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nitrite/Nitrate	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sulfate	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Dissolved Solids (TDS)	500000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Organic Carbon (TOC)	-	-	-	-	-	-	-	2700 B	2400 B	-	-	-	-	2600 B	2500 B	-	-	-	-	
PCBs (ug/L)																				
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Semi-Volatile Organic Compounds (ug/L)																				
1,4-Dioxane	0.4	-	-	-	0.2	0.18 J	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,2'-oxybis(1-Chloropropane)	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,4,5-Trichlorophenol	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,4,6-Trichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,4-Dichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Haley & Aldrich, Inc.																				

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-202C	RW-202C	RW-202C	RW-202C	RW-202C	RW-203A	RW-203A	RW-203A	RW-203A	RW-203A	RW-203A	RW-203B	RW-203B	RW-203B	RW-203B	RW-203B	RW-203B	RW-203C
Sample Date	Quality	11/20/2019	12/04/2019	12/20/2019	10/22/2020	10/22/2020	08/22/2019	10/18/2019	10/23/2019	11/18/2019	12/03/2019	12/18/2019	08/22/2019	10/18/2019	10/23/2019	11/18/2019	12/03/2019	12/18/2019	08/22/2019
Sample Type	Standards	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	55 (ft)	-	-	-	-	-	80 (ft)	-	-	-	-	-	100 (ft)
1,2,4-Trichlorobenzene	9	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
1,2-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
1,2-Dichloroethane	2	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
1,3-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
1,4-Dichlorobenzene	75	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (5)
2-Hexanone	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (5)
Acetone	6000	ND (5)	ND (5)	ND (5)	ND (5)	6.3	ND (5)	11	6.6	ND (5)	ND (5)	ND (5)	ND (5)	7.5	ND (10)	ND (10)	ND (5)	ND (5)	ND (5)
Benzene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Bromodichloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Bromoform	4	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (2) *	ND (2) *	ND (1)	ND (1)	ND (1)
Carbon disulfide	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Carbon tetrachloride	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	0.22 J*	ND (1)
Chlorobenzene	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Chloroethane	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Chloroform (Trichloromethane)	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	0.38 J	0.46 J	0.33 J	0.35 J	ND (1)	ND (1)	ND (2)	ND (2)	0.37 J	0.43 J	ND (1)
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
cis-1,2-Dichloroethene	70	2.3	2.3	2.1	1.2	1.1	13	2	1.1	1.7	2.8	1.5	11	2.6	1.2 J	1.5 J	3	2	9.8
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Dibromochloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Ethylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Isopropylbenzene (Cumene)	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Methyl acetate	7000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (5)
Methyl cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Methyl Tert Butyl Ether	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Methylene chloride	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Styrene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Tetrachloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Toluene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Trichloroethene	1	1.4 ^[A]	1.3 ^[A]	1.4 ^[A]	1.1 ^[A]	0.78 J	88 ^[A]	660 ^[A]	440 ^[A]	470 ^[A]	230 ^[A]	320 ^[A]	110 ^[A]	410 ^[A]	440 ^[A]	570 ^[A]	290 ^[A]	480 ^[A]	140 ^[A]
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Vinyl chloride	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)
Xylene (total)	1000	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Notes:
1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
 2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
 3. Results in **bold** are detected.
 4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-203C	RW-203C	RW-203C	RW-203C	RW-203C	RW-203C	RW-203C	RW-203C	RW-203C	RW-204A	RW-204A	RW-204A	RW-204A	RW-204B	RW-204B	RW-204B	RW-204B	RW-204C
Sample Date	Quality	10/18/2019	10/23/2019	11/18/2019	12/03/2019	12/18/2019	04/08/2020	08/25/2020	10/21/2020	03/15/2021	08/21/2019	11/20/2019	12/04/2019	12/20/2019	08/21/2019	11/20/2019	12/04/2019	12/20/2019	08/21/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	55 (ft)	-	-	-	90 (ft)	-	-	-	120 (ft)
Field Parameters																			
Temperature (Deg C)	-	13.84	16.79	13.61	12.79	11.97	16.32	21.12	17.8	14.23	23.56	11.53	13	14.48	24.19	11.62	13.11	14.8	23.46
Conductivity, Field (mS/cm)	-	0.345	0.314	0.3	0.306	0.303	0.332	0.299	0.299	0.268	0.205	0.203	0.197	0.193	0.209	0.226	0.227	0.225	0.216
ORP, Field (mv)	-	-42.3	29.6	-49.5	-56.4	-54.5	-59.5	-6.8	54.5	47.8	-4.5	29.9	-25.1	-9.2	28.9	40.2	-8	14.5	47.6
Turbidity, Field (NTU)	-	28.9	209	63.1	66.1	64.3	26.8	473	723	597	66.2	573	344	524	65.8	258	255	319	77.8
pH, Field (pH units)	-	6.52	5.91	6.43	6.42	6.25	6.44	6.66	6.35	6.72	5.81	5.99	5.96	6.01	5.6	6.07	6.08	6.16	5.52
Dissolved Oxygen, Field (ug/L)	-	260	30	290	400	580	420	960	790	1260	160	1770	810	270	110	580	7170	490	110
Inorganic Compounds (ug/L)																			
Antimony	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	70	-	-	212 ^[A]	12.7	12.5	ND (4)	23.8	30.9	19.4	550 ^[A]	2130 ^[A]	1200 ^[A]	990 ^[A]	1290 ^[A]	1800 ^[A]	1970 ^[A]	1400 ^[A]	1620 ^[A]
Chromium VI (Hexavalent)	-	-	-	ND (40)	ND (10)	54.1	-	-	-	-	ND (50)	113	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (40)
Cobalt	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	300	-	-	-	-	-	-	40100 ^[A]	-	-	-	-	-	-	-	-	-	-	-
Iron, Dissolved	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	50	-	-	-	-	-	-	820 ^[A]	-	-	-	-	-	-	-	-	-	-	-
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	100	-	-	71.2	12	18.7	10	8.1	7.4	9.1	31	39.2	40.5	31.1	66.2	18.3	33.6	29.7	74
Selenium	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	50000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other (ug/L)																			
Alkalinity, Bicarbonate (as CaCO3)	-	-	-	-	-	-	-	ND (5000)	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	-	-	-	-	-	-	-	ND (5000)	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Hydroxide	-	-	-	-	-	-	-	ND (5000)	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	-	-	-	-	-	-	-	ND (5000)	-	-	-	-	-	-	-	-	-	-	-
Carbon Dioxide, Free	-	-	-	-	-	-	-	ND (5000) HF	-	-	-	-	-	-	-	-	-	-	-
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	-	-	-	-	-	-	-	ND (7.5)	ND (7.5)	ND (7.5)	-	-	-	-	-	-	-	-	-
Ethene	-	-	-	-	-	-	-	ND (7)	ND (7)	ND (7)	-	-	-	-	-	-	-	-	-
Methane	-	-	-	-	-	-	-	ND (4)	3.6 J	140	-	-	-	-	-	-	-	-	-
Nitrate (as N)	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite/Nitrate	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	500000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	-	2500 B	2500	-	-	-	-	910 J	770 J	1100	-	-	-	-	-	-	-	-	-
PCBs (ug/L)																			
-																			
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (ug/L)																			
1,4-Dioxane	0.4	-	-	-	-	-	-	-	0.23	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-203C	RW-203C	RW-203C	RW-203C	RW-203C	RW-203C	RW-203C	RW-203C	RW-203C	RW-203C	RW-204A	RW-204A	RW-204A	RW-204A	RW-204B	RW-204B	RW-204B	RW-204B	RW-204C
Sample Date	Quality	10/18/2019	10/23/2019	11/18/2019	12/03/2019	12/18/2019	04/08/2020	08/25/2020	10/21/2020	03/15/2021	08/21/2019	11/20/2019	12/04/2019	12/20/2019	08/21/2019	11/20/2019	12/04/2019	12/20/2019	08/21/2019	
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	55 (ft)	-	-	-	-	90 (ft)	-	-	-	
2,4-Dimethylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,4-Dinitrophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,4-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,6-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Chloronaphthalene	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Chlorophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Methylnaphthalene	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Methylphenol (o-Cresol)	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3,3'-Dichlorobenzidine	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4,6-Dinitro-2-methylphenol	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Bromophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Chloro-3-methylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Chloroaniline	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Chlorophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Methylphenol	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthene	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acetophenone	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Atrazine	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzaldehyde	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Biphenyl	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
bis(2-Chloroethoxy)methane	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
bis(2-Chloroethyl)ether	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
bis(2-Ethylhexyl)phthalate	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Butyl benzylphthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Caprolactam	5000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbazole	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenz(a,h)anthracene	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzofuran	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Diethyl phthalate	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dimethyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Di-n-butylphthalate	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Di-n-octyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobenzene	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobutadiene	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorocyclopentadiene	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachloroethane	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Isophorone	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nitrobenzene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-Nitrosodi-n-propylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-Nitrosodiphenylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenol	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Volatile Organic Compounds (ug/L)																				
1,1,1-Trichloroethane	30	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,1,2,2-Tetrachloroethane	1	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,1,2-Trichloroethane	3	ND (1)	ND (2)	1 J	ND (1)	0.57 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.49 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,1-Dichloroethane	50	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.62 J	0.46 J	0.51 J	0.47 J	0.5 J	0.48 J	0.56 J	0.51 J	0.7 J	
1,1-Dichloroethene	1	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	0.87 J	0.97 J	1.1 [A]	1.1 [A]	ND (1)	1	0.91 J	1	0.68 J	

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-203C	RW-203C	RW-203C	RW-203C	RW-203C	RW-203C	RW-203C	RW-203C	RW-203C	RW-203C	RW-204A	RW-204A	RW-204A	RW-204A	RW-204B	RW-204B	RW-204B	RW-204B	RW-204C
Sample Date	Quality	10/18/2019	10/23/2019	11/18/2019	12/03/2019	12/18/2019	04/08/2020	08/25/2020	10/21/2020	03/15/2021	08/21/2019	11/20/2019	12/04/2019	12/20/2019	08/21/2019	11/20/2019	12/04/2019	12/20/2019	08/21/2019	
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	55 (ft)	-	-	-	90 (ft)	-	-	-	-	
1,2,4-Trichlorobenzene	9	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,2-Dichlorobenzene	600	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,2-Dichloroethane	2	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,2-Dichloropropane	1	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,3-Dichlorobenzene	600	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,4-Dichlorobenzene	75	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	
2-Hexanone	300	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	
Acetone	6000	7.7	11	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	
Benzene	1	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Bromodichloromethane	1	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Bromoform	4	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Bromomethane (Methyl Bromide)	10	ND (1)	ND (2) *	ND (2) *	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	
Carbon disulfide	700	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Carbon tetrachloride	1	ND (1)	ND (2)	ND (2)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	2.3 ^[AI]	2.2 ^[AI]	2.8 ^[AI]	2.7 ^[AI]	3.1 ^[AI]	2.8 ^[AI]	3.3 ^[AI]	3 ^[AI]	3.8 ^[AI]	
Chlorobenzene	50	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Chloroethane	5	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Chloroform (Trichloromethane)	70	ND (1)	ND (2)	ND (2)	0.42 J	0.34 J	ND (1)	0.49 J	ND (1)	ND (1)	1.4	1.4	1.5	1.7	1.6	1.9	1.9	3.3	2.1	
Chloromethane (Methyl Chloride)	100	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
cis-1,2-Dichloroethene	70	3.4	1.4 J	1.4 J	2.9	1.6	1.6	0.8 J	0.65 J	0.57 J	10	8.1	8.7	9	9.5	17	18	18	16	
cis-1,3-Dichloropropene	1	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Cyclohexane	100	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Dibromochloromethane	1	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Ethylbenzene	700	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Isopropylbenzene (Cumene)	700	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Methyl acetate	7000	ND (5)	ND (10)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) *	ND (5) *+	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	
Methyl cyclohexane	100	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Methyl Tert Butyl Ether	70	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Methylene chloride	3	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	
Styrene	100	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Tetrachloroethene	1	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Toluene	600	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
trans-1,2-Dichloroethene	100	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
trans-1,3-Dichloropropene	1	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Trichloroethene	1	180 ^[AI]	430 ^[AI]	860 ^[AI]	340 ^[AI]	350 ^[AI]	110 ^[AI]	47 ^[AI]	14 ^[AI]	10 ^[AI]	70 ^[AI]	79 ^[AI]	84 ^[AI]	96 ^[AI]	84 ^[AI]	160 ^[AI]	170 ^[AI]	180 ^[AI]	140 ^[AI]	
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Vinyl chloride	1	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	1.8 ^[AI]	0.73 J	0.77 J	0.63 J	ND (1)	0.42 J	0.5 J	0.39 J	ND (1)	
Xylene (total)	1000	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
Volatile Organic Compounds SIM (ug/L)																				
1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
3. Results in **bold** are detected.
4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-204C	RW-204C	RW-204C	RW-204C	RW-204C	RW-205	RW-205A	RW-205A	RW-205A	RW-205A	RW-205A	RW-205A	RW-205B	RW-205B	RW-205B	RW-205B	RW-205B	RW-205B
Sample Date	Quality	11/20/2019	12/04/2019	12/20/2019	04/07/2020	10/22/2020	03/02/2018	08/22/2019	10/18/2019	10/23/2019	11/20/2019	12/03/2019	12/18/2019	08/22/2019	10/18/2019	10/23/2019	11/20/2019	12/03/2019	12/18/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	55 (ft)	-	-	-	-	-	80 (ft)	-	-	-	-	-
Field Parameters																			
Temperature (Deg C)	-	15.43	12.87	13.62	15.45	17.26	12.62	23.25	15.87	17.93	12.03	11.63	11.74	22.59	16.37	18.07	11.71	14.29	14.41
Conductivity, Field (mS/cm)	-	0.235	0.231	0.227	0.209	0.215	0.336	0.299	0.395	0.339	0.328	0.358	0.333	0.567	0.493	0.431	0.428	0.49	0.488
ORP, Field (mv)	-	32.3	-2.4	15.1	17.7	98.3	119.6	53.9	148.1	165.1	158	-3.9	-47.4	35.7	86.5	34.1	35.1	-19	-53.7
Turbidity, Field (NTU)	-	382	300	370	232	999	87.3	36.8	0.85	1.94	12	6.72	2.54	30.2	3.85	9.11	23.8	61.2	33.1
pH, Field (pH units)	-	6.04	6.08	6.21	6.09	5.39	6.17	9.02	6.49	6.35	6.53	6.75	6.45	10.62	10.67	10.65	10.13	9.36	6.96
Dissolved Oxygen, Field (ug/L)	-	480	8980	810	4910	630	1810	610	630	390	880	750	310	890	230	260	460	1030	170
Inorganic Compounds (ug/L)																			
Antimony	6	-	-	-	-	-	1.5 J	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	3	-	-	-	-	-	1 J	-	-	-	-	-	-	-	-	-	-	-	-
Barium	6000	-	-	-	-	-	151	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	1	-	-	-	-	-	ND (0.8)	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	4	-	-	-	-	-	ND (2)	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	70	3710 ^[A]	2710 ^[A]	2320 ^[A]	3520 ^[A]	-	1260 ^[A]	26.9	-	-	73.8 ^[A]	118 ^[A]	123 ^[A]	120 ^[A]	-	-	30.7	34	34.7
Chromium VI (Hexavalent)	-	328	ND (20)	ND (20) F1	-	-	-	22.8	-	-	65.2	105	155	111	-	-	16.6	26.2	36.7
Cobalt	100	-	-	-	-	-	4.8	-	-	-	-	-	-	-	-	-	-	-	-
Copper	1300	-	-	-	-	-	5.8	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	100	-	-	-	-	-	4.4 J	-	-	-	-	-	-	-	-	-	-	-	-
Iron	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron, Dissolved	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	5	-	-	-	-	-	ND (1.2)	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	50	-	-	-	-	-	121 ^[A]	-	-	-	-	-	-	-	-	-	-	-	-
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	2	-	-	-	-	-	ND (0.2)	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	100	12.8	27.4	35	24.6	-	9.6	2.5 J	-	-	4.7	3.9 J	4.8	ND (4)	-	-	5.6	4	2.8 J
Selenium	40	-	-	-	-	-	0.69 J	-	-	-	-	-	-	-	-	-	-	-	-
Silver	40	-	-	-	-	-	ND (2)	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	50000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	2000	-	-	-	-	-	ND (16)	-	-	-	-	-	-	-	-	-	-	-	-
Other (ug/L)																			
Alkalinity, Bicarbonate (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Hydroxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Dioxide, Free	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite/Nitrate	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	500000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	-	-	-	-	-	-	-	-	860 JB	960 JB	-	-	-	-	1200	1400 B	-	-	-
PCBs (ug/L)																			
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (ug/L)																			
1,4-Dioxane	0.4	-	-	-	-	8.3 ^[A]	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haley & Aldrich, Inc.																			

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-204C	RW-204C	RW-204C	RW-204C	RW-204C	RW-205	RW-205A	RW-205A	RW-205A	RW-205A	RW-205A	RW-205A	RW-205B	RW-205B	RW-205B	RW-205B	RW-205B	RW-205B
Sample Date	Quality	11/20/2019	12/04/2019	12/20/2019	04/07/2020	10/22/2020	03/02/2018	08/22/2019	10/18/2019	10/23/2019	11/20/2019	12/03/2019	12/18/2019	08/22/2019	10/18/2019	10/23/2019	11/20/2019	12/03/2019	12/18/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	55 (ft)	-	-	-	-	-	80 (ft)	-	-	-	-	-
1,2,4-Trichlorobenzene	9	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichloroethane	2	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,3-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,4-Dichlorobenzene	75	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (10)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)
2-Hexanone	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (10)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (10)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)
Acetone	6000	ND (5)	ND (5)	ND (5)	ND (5)	16	ND (25)	ND (25)	ND (25)	73	210	ND (10)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)
Benzene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromodichloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromoform	4	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5) *	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromomethane (Methyl Bromide)	10	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) *	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) *F1F2	ND (5)	ND (5)
Carbon disulfide	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Carbon tetrachloride	1	2.8 ^[A]	3.1 ^[A]	3.3 ^[A]	3.3 ^[A]	3.8 ^[A]	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	0.88 J	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) *
Chlorobenzene	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloroethane	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloroform (Trichloromethane)	70	2	1.8	2	1.9	2.1	1.4 J	2 J	ND (5)	2.1 J	ND (5)	1.2 J	1.8 J	1.7 J	2 J	2.1 J	2.8 J	3 J	2.2 J
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
cis-1,2-Dichloroethene	70	19	19	19	12	16	9.3	5.6	6.6	7.6	3 J	4.6	9.7	11	15	18	25	27	20
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Dibromochloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Ethylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Isopropylbenzene (Cumene)	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methyl acetate	7000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (10)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)
Methyl cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methyl Tert Butyl Ether	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methylene chloride	3	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	1.1 J	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Styrene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Tetrachloroethene	1	ND (1)	0.25 J	ND (1)	ND (1)	ND (1)	1 J	ND (5)	ND (5)	ND (5)	ND (5)	0.59 J	ND (5)	ND (5)	ND (5)	ND (5)	1.3 J ^[A]	1.7 J ^[A]	2 J ^[A]
Toluene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Trichloroethene	1	160 ^[A]	160 ^[A]	180 ^[A]	130 ^[A]	120 ^[A]	1800 ^[A]	1300 ^[A]	1500 ^[A]	1700 ^[A]	1000 ^[A]	610 ^[A]	1600 ^[A]	1100 ^[A]	1200 ^[A]	1300 ^[A]	1900 ^[A]	2200 ^[A]	2100 ^[A]
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1)	ND (1) F1	ND (1)	ND (1)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Vinyl chloride	1	0.38 J	0.44 J	0.43 J	0.95 J	1.2 ^[A]	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Xylene (total)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	ND (0.02)	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	ND (0.02)	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	0.82 ^[A]	-	-	-	-	-	-	-	-	-	-	-	-

- Notes:
1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
 2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
 3. Results in **bold** are detected.
 4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-205B	RW-205C	RW-205C	RW-205C	RW-205C	RW-205C	RW-205C	RW-205C	RW-205C	RW-205C	RW-205C	RW-206	RW-206A	RW-206A	RW-206A	RW-206A	RW-206A	RW-206A
Sample Date	Quality	04/08/2020	08/22/2019	10/18/2019	10/23/2019	11/20/2019	12/03/2019	12/18/2019	04/08/2020	08/25/2020	10/22/2020	03/16/2021	03/02/2018	08/22/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/19/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	100 (ft)	-	-	-	-	-	-	-	-	-	-	55 (ft)	55 (ft)	-	-	-	-
Field Parameters																			
Temperature (Deg C)	-	16.41	23.84	16.1	17.89	11.8	11.88	14.77	17.26	21.91	17.47	13.26	11.5	19.1	16.66	17.04	16.38	16.45	17.57
Conductivity, Field (mS/cm)	-	0.47	0.209	0.87	0.509	0.478	0.397	0.512	0.412	0.271	0.284	0.519	0.256	3.481	2.521	2.792	2.786	1.713	1.926
ORP, Field (mv)	-	-31.2	39.8	47.4	16.1	12.6	-33.4	-62.2	-34.5	-46.6	47.3	178.6	-45.6	-30	49.7	51.2	68.8	-28.1	-5.8
Turbidity, Field (NTU)	-	48.7	9.8	7.84	8.26	13.8	166	21.3	59.6	12.4	10.2	5.45	6	1.2	46.9	8.38	8.77	2.21	2.29
pH, Field (pH units)	-	9.48	10.6	11.98	11.39	11.14	11.15	11.7	10.94	10	9.6	6.97	6.78	12.71	13.84	13.91	12.43	13.53	11.98
Dissolved Oxygen, Field (ug/L)	-	1210	1430	240	450	670	640	320	810	2360	1150	520	960	1570	570	440	550	340	160
Inorganic Compounds (ug/L)																			
Antimony	6	-	-	-	-	-	-	-	-	-	-	-	1.4 J	-	-	-	-	-	-
Arsenic	3	-	-	-	-	-	-	-	-	-	-	-	1.2 J	-	-	-	-	-	-
Barium	6000	-	-	-	-	-	-	-	-	-	-	-	558	-	-	-	-	-	-
Beryllium	1	-	-	-	-	-	-	-	-	-	-	-	ND (0.8)	-	-	-	-	-	-
Cadmium	4	-	-	-	-	-	-	-	-	-	-	-	ND (2)	-	-	-	-	-	-
Chromium	70	31.7	203 ^[A]	-	-	65.2	208 ^[A]	76.8 ^[A]	75 ^[A]	70.3 ^[A]	119 ^[A]	105 ^[A]	1.6 J	531 ^[A]	303 ^[A]	235 ^[A]	226 ^[A]	87.5 ^[A]	165 ^[A]
Chromium VI (Hexavalent)	-	-	125	-	-	59.4	71.3	65.7	-	-	-	-	-	342	252	221	233	82.2	135
Cobalt	100	-	-	-	-	-	-	-	-	-	-	-	7.3	-	-	-	-	-	-
Copper	1300	-	-	-	-	-	-	-	-	-	-	-	ND (4)	-	-	-	-	-	-
Cyanide	100	-	-	-	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	-	-
Iron	300	-	-	-	-	-	-	-	-	59.3 J	-	-	-	-	-	-	-	-	-
Iron, Dissolved	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	5	-	-	-	-	-	-	-	-	-	-	-	ND (1.2)	-	-	-	-	-	-
Manganese	50	-	-	-	-	-	-	-	-	1.1 J	-	-	1360 ^[A]	-	-	-	-	-	-
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	2	-	-	-	-	-	-	-	-	-	-	-	ND (0.2)	-	-	-	-	-	-
Nickel	100	ND (4)	3.1 J	-	-	10.7	37.2	5.6	ND (4)	0.64 J	2.4 J	2.9 J	19.3	8.4	17.7	12.7	9	11.1	11.1
Selenium	40	-	-	-	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	-	-
Silver	40	-	-	-	-	-	-	-	-	-	-	-	ND (2)	-	-	-	-	-	-
Sodium	50000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	2000	-	-	-	-	-	-	-	-	-	-	-	ND (16)	-	-	-	-	-	-
Other (ug/L)																			
Alkalinity, Bicarbonate (as CaCO3)	-	-	-	-	-	-	-	-	-	ND (5000)	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	-	-	-	-	-	-	-	-	-	ND (5000)	-	-	-	-	-	-	-	-	-
Alkalinity, Hydroxide	-	-	-	-	-	-	-	-	-	ND (5000)	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	-	-	-	-	-	-	-	-	-	ND (5000)	-	-	-	-	-	-	-	-	-
Carbon Dioxide, Free	-	-	-	-	-	-	-	-	-	ND (5000) HF	-	-	-	-	-	-	-	-	-
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	-	-	-	-	-	-	-	-	-	ND (7.5)	ND (7.5)	ND (7.5)	-	-	-	-	-	-	-
Ethene	-	-	-	-	-	-	-	-	-	ND (7)	ND (7)	ND (7)	-	-	-	-	-	-	-
Methane	-	-	-	-	-	-	-	-	-	ND (4)	ND (4)	ND (4)	-	-	-	-	-	-	-
Nitrate (as N)	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite/Nitrate	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	500000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	-	-	-	1400 B	1600 B	-	-	-	-	720 J	390 J	710 J	-	6200	5200	5000	4700	4500	4100
PCBs (ug/L)																			
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (ug/L)																			
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	0.87 ^[A]	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haley & Aldrich, Inc.																			

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EWING, NJ

Location	Groundwater	RW-205B	RW-205C	RW-205C	RW-205C	RW-205C	RW-205C	RW-205C	RW-205C	RW-205C	RW-205C	RW-205C	RW-205C	RW-206	RW-206A	RW-206A	RW-206A	RW-206A	RW-206A	RW-206A
Sample Date	Quality	04/08/2020	08/22/2019	10/18/2019	10/23/2019	11/20/2019	12/03/2019	12/18/2019	04/08/2020	08/25/2020	10/22/2020	03/16/2021	03/02/2018	08/22/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/19/2019	
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Sample Depth (bgs)		-	100 (ft)	-	-	-	-	-	-	-	-	-	-	-	55 (ft)	55 (ft)	-	-	-	
2,4-Dimethylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,4-Dinitrophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,4-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,6-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Chloronaphthalene	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Chlorophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Methylnaphthalene	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Methylphenol (o-Cresol)	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3,3'-Dichlorobenzidine	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4,6-Dinitro-2-methylphenol	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Bromophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Chloro-3-methylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Chloroaniline	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Chlorophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Methylphenol	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthene	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acetophenone	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Atrazine	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzaldehyde	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Biphenyl	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
bis(2-Chloroethoxy)methane	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
bis(2-Chloroethyl)ether	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
bis(2-Ethylhexyl)phthalate	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Butyl benzylphthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Caprolactam	5000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbazole	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenz(a,h)anthracene	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzofuran	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Diethyl phthalate	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dimethyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Di-n-butylphthalate	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Di-n-octyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobenzene	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobutadiene	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorocyclopentadiene	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachloroethane	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Isophorone	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nitrobenzene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-Nitrosodi-n-propylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-Nitrosodiphenylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenol	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Volatile Organic Compounds (ug/L)																				
1,1,1-Trichloroethane	30	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,1,2,2-Tetrachloroethane	1	ND (5)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,1,2-Trichloroethane	3	ND (5)	0.95 J	0.51 J	ND (1)	ND (1)	ND (1)	0.64 J	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,1-Dichloroethane	50	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	0.26 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	
1,1-Dichloroethene	1	1.3 J ^[A]	0.68 J	0.83 J	0.89 J	1.3 ^[A]	1	0.8 J	1.4 ^[A]	1	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-205B	RW-205C	RW-205C	RW-205C	RW-205C	RW-205C	RW-205C	RW-205C	RW-205C	RW-205C	RW-205C	RW-206	RW-206A	RW-206A	RW-206A	RW-206A	RW-206A	RW-206A
Sample Date	Quality	04/08/2020	08/22/2019	10/18/2019	10/23/2019	11/20/2019	12/03/2019	12/18/2019	04/08/2020	08/25/2020	10/22/2020	03/16/2021	03/02/2018	08/22/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/19/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	100 (ft)	-	-	-	-	-	-	-	-	-	-	55 (ft)	55 (ft)	-	-	-	-
1,2,4-Trichlorobenzene	9	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichlorobenzene	600	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloroethane	2	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloropropane	1	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,3-Dichlorobenzene	600	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,4-Dichlorobenzene	75	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
2-Butanone (Methyl Ethyl Ketone)	300	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (25)	ND (25)	ND (5)	ND (5)	3 J	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	300	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Acetone	6000	ND (25)	ND (5)	ND (5)	17	13	ND (5)	ND (5)	ND (5)	ND (5)	ND (25)	ND (25) *1	4.9 J	9.9	9	11	ND (5)	ND (5)	9
Benzene	1	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromodichloromethane	1	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromoform	4	ND (5) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromomethane (Methyl Bromide)	10	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)
Carbon disulfide	700	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	0.97 J	ND (1)	ND (1)
Carbon tetrachloride	1	ND (5)	0.47 J	0.41 J	ND (1)	0.38 J	0.41 J	0.41 J *	0.34 J	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chlorobenzene	50	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloroethane	5	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)
Chloroform (Trichloromethane)	70	ND (5)	1.3	1.3	1.3	1.3	1.2	1.4	1.5	1.8	2.6 J	2.8 J	0.22 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloromethane (Methyl Chloride)	100	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
cis-1,2-Dichloroethene	70	20	4.5	4.6	4.8	5.1	4.2	4.9	9.8	15	36	46	36	17	18	18	16	19	18
cis-1,3-Dichloropropene	1	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Cyclohexane	100	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (5) *1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dibromochloromethane	1	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	700	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Isopropylbenzene (Cumene)	700	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methyl acetate	7000	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methyl cyclohexane	100	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methyl Tert Butyl Ether	70	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methylene chloride	3	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	0.26 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Styrene	100	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Tetrachloroethene	1	ND (5)	0.96 J	1.1 [A]	1.2 [A]	1.5 [A]	1.1 [A]	1.3 [A]	1.2 [A]	1	1.4 J [A]	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	600	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,2-Dichloroethene	100	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.28 J	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,3-Dichloropropene	1	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trichloroethene	1	1500 [A]	310 [A]	180 [A]	180 [A]	250 [A]	230 [A]	250 [A]	380 [A]	490 [A]	1000 [A]	1300 [A]	66 [A]	30 [A]	30 [A]	32 [A]	42 [A]	49 [A]	51 [A]
Trichlorofluoromethane (CFC-11)	2000	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trifluorotrichloroethane (Freon 113)	20000	ND (5)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Vinyl chloride	1	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.27 J	0.27 J	ND (5)	ND (5)	2.7 [A]	0.74 J	0.9 J	0.93 J	0.77 J	0.65 J	0.67 J
Xylene (total)	1000	ND (5)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (10)	ND (10)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Volatile Organic Compounds SIM (ug/L)																			
1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	ND (0.02)	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	ND (0.02)	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	0.38 J	-	-	-	-	-	-

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	ND (0.02)	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	ND (0.02)	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	0.38 J	-	-	-	-	-	-

- Notes:
1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
 2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
 3. Results in **bold** are detected.
 4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-206A	RW-206A	RW-206B	RW-206B	RW-206B	RW-206B	RW-206B	RW-206B	RW-206B	RW-206B	RW-206B	RW-206B	RW-206C	RW-206C	RW-206C	RW-206C	RW-206C	RW-206C
Sample Date	Quality	12/06/2019	12/19/2019	08/22/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/19/2019	12/05/2019	12/20/2019	10/20/2020	10/20/2020	08/22/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/05/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N
Sample Depth (bgs)		-	-	85 (ft)	85 (ft)	-	-	-	-	-	-	-	-	120 (ft)	120 (ft)	-	-	-	-
Field Parameters																			
Temperature (Deg C)	-	14.07	8.5	19.91	15.68	16.66	15.97	16.44	17	12.67	12.67	17.64	-	18.96	16.28	16.82	16.09	16.14	18.08
Conductivity, Field (mS/cm)	-	1.974	1.51	0.273	0.329	0.286	0.393	0.232	0.246	0.243	0.203	0.206	-	0.398	0.403	0.371	0.417	0.374	0.244
ORP, Field (mv)	-	-9.8	-53.2	96.1	147.6	137.2	155.9	78	13	27.2	-30.5	150.1	-	85.5	133.5	143.9	156.6	-19.5	-116
Turbidity, Field (NTU)	-	5.07	6.32	10.1	8.98	2.27	4.84	8.12	7.56	9.23	2.66	9.96	-	6.25	5.63	9.51	12	13.3	18.4
pH, Field (pH units)	-	11.96	13.41	6.2	7.64	7.27	7.48	6.54	6.02	5.96	5.84	5.53	-	6.92	16.3	7.17	7.14	7.07	7.21
Dissolved Oxygen, Field (ug/L)	-	210	150	970	640	310	570	250	390	280	1550	760	-	1360	190	2320	2090	320	0
Inorganic Compounds (ug/L)																			
Antimony	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	70	80.1 ^[A]	62.3	283 ^[A]	239 ^[A]	81.8 ^[A]	103 ^[A]	142 ^[A]	5.6	8.7	233 ^[A]	-	-	23.5	18.7	24	36.5	45.7	-
Chromium VI (Hexavalent)	-	67.2	50.1	188	94.3	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	175	-	-	ND (10)	23	4.3 J	ND (10)	ND (10)	-
Cobalt	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron, Dissolved	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	100	11.9	11.8	7.7	11.5	6.8	4.5	9.9	3.2 J	5	7	-	-	9.1	5.1	8.8	10.9	10.6	-
Selenium	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	50000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other (ug/L)																			
Alkalinity, Bicarbonate (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Hydroxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Dioxide, Free	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite/Nitrate	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	500000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	-	4600 B	4000	2200	2600	2400	2100	2500	12400	2800 B	2200	-	-	1700	1700	3200	2500	2500	5300
PCBs (ug/L)																			
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (ug/L)																			
1,4-Dioxane	0.4	0.87 ^[A]	-	-	-	-	-	-	-	43 ^[A]	-	28 ^[A]	29 ^[A]	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haley & Aldrich, Inc.																			

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-206A	RW-206A	RW-206B	RW-206B	RW-206B	RW-206B	RW-206B	RW-206B	RW-206B	RW-206B	RW-206B	RW-206B	RW-206C	RW-206C	RW-206C	RW-206C	RW-206C	RW-206C
Sample Date	Quality	12/06/2019	12/19/2019	08/22/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/19/2019	12/05/2019	12/20/2019	10/20/2020	10/20/2020	08/22/2019	10/08/2019	10/15/2019	10/22/2019	10/30/2019	11/05/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	85 (ft)	85 (ft)	-	-	-	-	-	-	-	-	120 (ft)	120 (ft)	-	-	-	-
1,2,4-Trichlorobenzene	9	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
1,2-Dichlorobenzene	600	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
1,2-Dichloroethane	2	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
1,3-Dichlorobenzene	600	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
1,4-Dichlorobenzene	75	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (50)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (10)	ND (10)	ND (25)	ND (25)
2-Hexanone	300	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (50)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (10)	ND (10)	ND (25)	ND (25)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (50)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (10)	ND (10)	ND (25)	ND (25)
Acetone	6000	ND (5)	4.7 J	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (50)	ND (5)	10	ND (10)	ND (10)	ND (25)	ND (25)	ND (10)	ND (10)	ND (25)	ND (25)
Benzene	1	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Bromodichloromethane	1	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Bromoform	4	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Bromomethane (Methyl Bromide)	10	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Carbon disulfide	700	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Carbon tetrachloride	1	ND (1)	ND (1)	2.7 [A]	2.6 [A]	3.1 [A]	5.6 [A]	4.6 [A]	ND (10)	17 [A]	3.3 [A]	4.9 [A]	6.4 [A]	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Chlorobenzene	50	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Chloroethane	5	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Chloroform (Trichloromethane)	70	ND (1)	ND (1)	3.5	3.4	4.2	5.5	4.1	ND (10)	10	3.7	4.4	4.7	ND (5)	ND (5)	0.77 J	0.84 J	ND (5)	ND (5)
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
cis-1,2-Dichloroethene	70	17	21	77 [A]	100 [A]	88 [A]	54	76 [A]	2800 [A]	73 F1 [A]	76 [A]	73 [A]	84 [A]	500 [A]	1000 [A]	570 [A]	320 [A]	1100 [A]	850 [A]
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Cyclohexane	100	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Dibromochloromethane	1	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Ethylbenzene	700	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Isopropylbenzene (Cumene)	700	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Methyl acetate	7000	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (50)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (10)	ND (10)	ND (25)	ND (25)
Methyl cyclohexane	100	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Methyl Tert Butyl Ether	70	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Methylene chloride	3	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Styrene	100	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Tetrachloroethene	1	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	1.8 J [A]	ND (5)	1.1 J [A]	1.3 J [A]	ND (5)	1.2 J [A]
Toluene	600	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	14	ND (1)	ND (2)	ND (2)	ND (2)	2.4 J	5.1	4.4	1.6 J	5.7	3.9 J
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Trichloroethene	1	56 [A]	130 [A]	600 [A]	730 [A]	600 [A]	460 [A]	590 [A]	280 [A]	690 D [A]	580 [A]	540 [A]	630 [A]	1400 [A]	450 [A]	630 [A]	940 [A]	870 [A]	1900 [A]
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (2)	ND (2)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Vinyl chloride	1	0.62 J	0.79 J	2.4 [A]	5 [A]	4 [A]	1.2 J [A]	2.6 [A]	15 [A]	1.4 [A]	2.5 [A]	1.6 J [A]	2 [A]	2.2 J [A]	6.7 [A]	4.2 [A]	2.4 [A]	9 [A]	2.7 J [A]
Xylene (total)	1000	ND (1)	ND (1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (10)	ND (1)	ND (2)	ND (4)	ND (4)	ND (5)	ND (5)	ND (2)	ND (2)	ND (5)	ND (5)
Volatile Organic Compounds SIM (ug/L)																			
1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Notes:
1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
 2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
 3. Results in **bold** are detected.
 4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-206C	RW-206C	RW-206C	RW-206C	RW-206C	RW-206C	RW-206C	RW-206C	RW-206C	RW-206C	RW-206C	RW-207	RW-207	RW-207	RW-207	RW-207	RW-207	RW-207	RW-207
Sample Date	Quality	11/13/2019	11/19/2019	12/05/2019	12/19/2019	01/20/2020	02/20/2020	04/08/2020	08/25/2020	10/20/2020	03/15/2021	05/20/2020	05/20/2020	05/20/2020	05/20/2020	05/20/2020	05/20/2020	05/20/2020	08/25/2020	08/26/2020
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	-	65 (ft)	75.5 (ft)	102 (ft)	110 (ft)	114 (ft)	122 (ft)	-	102 (ft)
2,4-Dimethylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol (o-Cresol)	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atrazine	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenyl	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	100	-	-	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	5000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds (ug/L)																				
1,1,1-Trichloroethane	30	ND (5)	ND (2)	ND (2)	ND (10)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	ND (20)	-	ND (5)
1,1,2,2-Tetrachloroethane	1	ND (5)	ND (2)	ND (2)	ND (10)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	ND (20)	-	ND (5)
1,1,2-Trichloroethane	3	2.6 J	ND (2)	2.3	ND (10)	ND (20)	ND (20)	ND (20)	4.3 J ^[A]	5 J ^[A]	5.4 J ^[A]	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	ND (20)	-	ND (5)
1,1-Dichloroethane	50	ND (5)	1.6 J	ND (2)	ND (10)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	ND (20)	-	ND (5)
1,1-Dichloroethene	1	3 J ^[A]	4.3 ^[A]	4.3 ^[A]	5.2 J ^[A]	7.2 J ^[A]	11 J ^[A]	13 J ^[A]	13 ^[A]	12 ^[A]	13 ^[A]	ND (100)	ND (100)	10 J ^[A]	16 ^[A]	15 J ^[A]	12 J ^[A]	-	-	2.1 J ^[A]

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-206C	RW-206C	RW-206C	RW-206C	RW-206C	RW-206C	RW-206C	RW-206C	RW-206C	RW-206C	RW-207	RW-207	RW-207	RW-207	RW-207	RW-207	RW-207	RW-207
Sample Date	Quality	11/13/2019	11/19/2019	12/05/2019	12/19/2019	01/20/2020	02/20/2020	04/08/2020	08/25/2020	10/20/2020	03/15/2021	05/20/2020	05/20/2020	05/20/2020	05/20/2020	05/20/2020	05/20/2020	05/20/2020	08/25/2020
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-	-	65 (ft)	75.5 (ft)	102 (ft)	110 (ft)	114 (ft)	122 (ft)		102 (ft)
1,2,4-Trichlorobenzene	9	ND (5)	ND (2)	ND (2)	-	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (5)	ND (2)	ND (2)	-	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (5)	ND (2)	ND (2)	-	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
1,2-Dichlorobenzene	600	ND (5)	ND (2)	ND (2)	-	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
1,2-Dichloroethane	2	ND (5)	ND (2)	0.92 J	ND (10)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	5.1 J ^[A]	ND (20)	ND (20)	-	ND (5)
1,2-Dichloropropane	1	ND (5)	ND (2)	ND (2)	ND (10)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
1,3-Dichlorobenzene	600	ND (5)	ND (2)	ND (2)	-	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
1,4-Dichlorobenzene	75	ND (5)	ND (2)	ND (2)	-	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
2-Butanone (Methyl Ethyl Ketone)	300	ND (25)	ND (10)	ND (10)	-	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (500)	ND (500)	ND (130)	ND (50)	ND (100)	ND (100)	-	ND (25)
2-Hexanone	300	ND (25)	ND (10)	ND (10)	-	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (500)	ND (500)	ND (130)	ND (50)	ND (100)	ND (100)	-	ND (25)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (25)	ND (10)	ND (10)	-	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (500)	ND (500)	ND (130)	ND (50)	ND (100)	ND (100)	-	ND (25)
Acetone	6000	ND (25)	ND (10)	ND (10)	-	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	64	ND (500)	ND (500)	ND (130)	ND (50)	ND (100)	ND (100)	-	ND (25)
Benzene	1	ND (5)	ND (2)	ND (2)	-	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	2.4 J ^[A]	ND (20)	ND (20)	-	ND (5)
Bromodichloromethane	1	ND (5)	ND (2)	ND (2)	ND (10)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
Bromoform	4	ND (5)	ND (2)	ND (2)	-	ND (20)	ND (20)	ND (20) *	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
Bromomethane (Methyl Bromide)	10	ND (5)	ND (2)	ND (2)	-	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100) *	ND (100) *	ND (25) *	ND (10) *	ND (20) *	ND (20) *	-	ND (5)
Carbon disulfide	700	ND (5)	ND (2)	2.3	-	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
Carbon tetrachloride	1	ND (5)	7.4 ^[A]	ND (2)	ND (10)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
Chlorobenzene	50	ND (5)	ND (2)	ND (2)	ND (10)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
Chloroethane	5	ND (5)	ND (2)	ND (2)	ND (10)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
Chloroform (Trichloromethane)	70	ND (5)	6.5	0.95 J	ND (10)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
Chloromethane (Methyl Chloride)	100	ND (5)	ND (2)	ND (2)	ND (10)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
cis-1,2-Dichloroethene	70	1100 ^[A]	62	2700 D ^[A]	3800 ^[A]	4900 ^[A]	4100 ^[A]	3800 ^[A]	3400 ^[A]	3800 ^[A]	4800 ^[A]	470 ^[A]	530 ^[A]	2000 ^[A]	4600 ^[A]	5000 ^[A]	4900 ^[A]	-	1500 ^[A]
cis-1,3-Dichloropropene	1	ND (5)	ND (2)	ND (2)	ND (10)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
Cyclohexane	100	ND (5)	ND (2)	ND (2)	-	ND (20)	ND (20)	ND (20)	ND (10) *1	ND (10)	ND (10)	82 J	70 J	23 J	12	ND (20)	ND (20)	-	ND (5)
Dibromochloromethane	1	ND (5)	ND (2)	ND (2)	ND (10)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
Dichlorodifluoromethane (CFC-12)	1000	ND (5)	ND (2)	ND (2)	-	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
Ethylbenzene	700	ND (5)	ND (2)	ND (2)	-	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
Isopropylbenzene (Cumene)	700	ND (5)	ND (2)	ND (2)	-	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
Methyl acetate	7000	ND (25)	ND (10)	ND (10)	-	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50) *+	950	890	330	170	72 J	51 J	-	7.8 J
Methyl cyclohexane	100	ND (5)	ND (2)	ND (2)	-	ND (20)	ND (20)	ND (20)	ND (10) *1	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
Methyl Tert Butyl Ether	70	ND (5)	ND (2)	ND (2)	-	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
Methylene chloride	3	ND (5)	ND (2)	ND (2)	ND (10)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	6 J ^[A]	ND (20)	ND (20)	-	ND (5)
Styrene	100	ND (5)	ND (2)	ND (2)	-	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
Tetrachloroethene	1	1.3 J ^[A]	ND (2)	ND (2)	ND (10)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
Toluene	600	ND (5)	ND (2)	ND (2)	-	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
trans-1,2-Dichloroethene	100	5.2	ND (2)	16	46	46	33	27	17	32	29	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	6.2
trans-1,3-Dichloropropene	1	ND (5)	ND (2)	ND (2)	ND (10)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
Trichloroethene	1	1600 ^[A]	620 ^[A]	54 ^[A]	390 ^[A]	110 ^[A]	2700 ^[A]	4000 ^[A]	3600 ^[A]	2100 ^[A]	1400 ^[A]	24000 ^[A]	21000 ^[A]	8100 ^[A]	3700 ^[A]	730 ^[A]	52 ^[A]	-	840 ^[A]
Trichlorofluoromethane (CFC-11)	2000	ND (5)	ND (2)	ND (2)	-	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
Trifluorotrichloroethane (Freon 113)	20000	ND (5)	ND (2)	ND (2)	-	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (100)	ND (100)	ND (25)	ND (10)	ND (20)	ND (20)	-	ND (5)
Vinyl chloride	1	8.6 ^[A]	1.7 J ^[A]	22 ^[A]	140 ^[A]	36 ^[A]	93 ^[A]	58 ^[A]	23 ^[A]	29 ^[A]	110 ^[A]	18 J ^[A]	ND (100)	24 J ^[A]	59 ^[A]	69 ^[A]	67 ^[A]	-	110 ^[A]
Xylene (total)	1000	ND (5)	ND (2)	ND (2)	-	ND (20)	ND (20)	ND (20)	ND (10)	ND (20)	ND (20)	ND (100)	ND (100)	ND (25)	3.5 J	ND (20)	ND (20)	-	ND (5)

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Notes:
1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
 2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
 3. Results in **bold** are detected.
 4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-207	RW-207	RW-207	RW-207	RW-207A	RW-207B	RW-207C	RW-207C	RW-207C	RW-207C	RW-207C	RW-207C	RW-207C	RW-207C	RW-207C	RW-207C	RW-208	RW-208
Sample Date	Quality	08/26/2020	08/26/2020	08/26/2020	10/23/2020	09/03/2019	09/03/2019	09/03/2019	09/03/2019	10/26/2019	10/26/2019	10/26/2019	10/26/2019	01/20/2020	02/20/2020	04/08/2020	03/16/2021	06/05/2020	06/05/2020
Sample Type	Standards	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		110 (ft)	114 (ft)	122 (ft)	-	-	-	-	-	-	-	-	-	-	-	-	100 (ft)	69 (ft)	86 (ft)
Field Parameters																			
Temperature (Deg C)	-	19.86	20.44	21.34	19.41	21.12	20.41	18.59	-	19.27	18.17	17.43	17.18	11.86	11.16	15.81	14.23	17.78	18.71
Conductivity, Field (mS/cm)	-	0.827	1.197	1.289	1.268	0.319	0.317	0.339	-	0.423	0.382	0.383	0.369	0.634	0.427	0.813	2.464	0.779	0.767
ORP, Field (mv)	-	17.7	16.9	16	-24.4	-63.8	-63	-20.1	-	110	256	230	221	-99.3	79.6	-7.8	124.2	-166.7	-158.6
Turbidity, Field (NTU)	-	91.1	80.8	67.2	378	60.3	59.4	69.4	-	999	999	999	999	121	341	999	953	13.6	12.9
pH, Field (pH units)	-	5.11	5.23	5.33	4.7	7.37	7.36	6.16	-	6.48	7.12	7.85	7.23	7.43	4.72	5.35	4.21	6.74	6.89
Dissolved Oxygen, Field (ug/L)	-	440	220	130	1080	80	120	350	-	11250	10210	11060	9890	540	100	20	130	4760	2860
Inorganic Compounds (ug/L)																			
Antimony	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	70	17.1	25.9	28	25	5.6	15.4	37	40.8	-	-	-	-	-	-	76.3 ^[A]	33.4	-	-
Chromium VI (Hexavalent)	-	-	-	-	-	8.2 J	9.4 J	ND (10)	ND (10)	-	-	-	-	-	-	-	-	-	-
Cobalt	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	300	24600 ^[A]	44700 ^[A]	32900 ^[A]	52600 ^[A]	-	-	-	-	-	-	-	-	86900 ^[A]	12200 ^[A]	22700 ^[A]	52100 ^[A]	72100 ^[A]	70900 ^[A]
Iron, Dissolved	300	24600 ^[A]	45300 ^[A]	32800 ^[A]	50900 B ^[A]	-	-	-	-	-	-	-	-	81300 ^[A]	12600 ^[A]	41400 ^[A]	56400 ^[A]	63500 ^[A]	59500 ^[A]
Lead	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	50	51900 ^[A]	90400 ^[A]	58000 ^[A]	75400 ^[A]	-	-	-	-	-	-	-	-	8040 ^[A]	24400 ^[A]	5970 ^[A]	157000 ^[A]	9400 ^[A]	9740 ^[A]
Manganese, Dissolved	50	57300 ^[A]	93100 ^[A]	61000 ^[A]	67500 ^[A]	-	-	-	-	-	-	-	-	8100 ^[A]	22600 ^[A]	10900 ^[A]	209000 ^[A]	8570 ^[A]	8290 ^[A]
Mercury	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	100	75.5	187 ^[A]	113 ^[A]	196 ^[A]	5.3	10.2	4.5	4.6	-	-	-	-	-	-	15.9	390 ^[A]	-	-
Selenium	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	50000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other (ug/L)																			
Alkalinity, Bicarbonate (as CaCO3)	-	294000	417000	303000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	-	ND (5000)	ND (5000)	ND (5000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Hydroxide	-	ND (5000)	ND (5000)	ND (5000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	-	294000	417000	303000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Dioxide, Free	-	4700000 HF	7070000 HF	5160000 HF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	153000	499000	-	-	-	-
Ethane	-	ND (170)	ND (170)	ND (330)	ND (170)	-	-	-	-	-	-	-	-	4.5 J	9.7	ND (660)	ND (170)	-	-
Ethene	-	ND (150)	ND (150)	ND (310)	ND (150)	-	-	-	-	-	-	-	-	17	4 J	ND (620)	ND (150)	-	-
Methane	-	7900 D	11000 D	5500	30000 D	-	-	-	-	-	-	-	-	5.9	35	ND (350)	22000 D	-	-
Nitrate (as N)	10000	68 J	42 J	ND (100)	ND (100)	-	-	-	-	-	-	-	-	46 JB	43 J	3700 J	50 J	69 J	45 J
Nitrite/Nitrate	10000	ND (100)	ND (100)	ND (100)	40 J	-	-	-	-	-	-	-	-	30 JB	110 JB	4500 J	34 J	120	ND (100)
Sulfate	250000	ND (5000)	ND (5000)	8900	2500 J	-	-	-	-	-	-	-	-	ND (600)	ND (5000)	431000 ^[A]	ND (5000)	ND (5000)	ND (5000)
Total Dissolved Solids (TDS)	500000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	-	830000	2090000	1310000	1440000	-	-	-	-	9860000	2130000	1670000	1400000	173000	495000	12300000	4110000	121000	114000
PCBs (ug/L)																			
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (ug/L)																			
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haley & Aldrich, Inc.																			

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-207	RW-207	RW-207	RW-207	RW-207A	RW-207B	RW-207C	RW-207C	RW-207C	RW-207C	RW-207C	RW-207C	RW-207C	RW-207C	RW-207C	RW-208	RW-208	
Sample Date	Quality	08/26/2020	08/26/2020	08/26/2020	10/23/2020	09/03/2019	09/03/2019	09/03/2019	09/03/2019	10/26/2019	10/26/2019	10/26/2019	10/26/2019	01/20/2020	02/20/2020	04/08/2020	03/16/2021	06/05/2020	06/05/2020
Sample Type	Standards	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		110 (ft)	114 (ft)	122 (ft)	-	-	-	-	-	-	-	-	-	-	-	-	100 (ft)	69 (ft)	86 (ft)
2,4-Dimethylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol (o-Cresol)	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atrazine	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenyl	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	5000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds (ug/L)																			
1,1,1-Trichloroethane	30	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
1,1,2,2-Tetrachloroethane	1	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
1,1,2-Trichloroethane	3	ND (10)	ND (20)	ND (10)	3.2 J ^[A]	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (100)	2.7 J	ND (100)	ND (10)	ND (50)	ND (50)
1,1-Dichloroethane	50	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
1,1-Dichloroethene	1	4.6 J ^[A]	ND (20)	ND (10)	5 J ^[A]	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	74 J ^[A]	6.7 ^[A]	ND (100) *	3.2 J ^[A]	ND (50)	ND (50)

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-207	RW-207	RW-207	RW-207	RW-207A	RW-207B	RW-207C	RW-207C	RW-207C	RW-207C	RW-207C	RW-207C	RW-207C	RW-207C	RW-207C	RW-207C	RW-208	RW-208	
Sample Date	Quality	08/26/2020	08/26/2020	08/26/2020	10/23/2020	09/03/2019	09/03/2019	09/03/2019	09/03/2019	10/26/2019	10/26/2019	10/26/2019	10/26/2019	10/26/2019	01/20/2020	02/20/2020	04/08/2020	03/16/2021	06/05/2020	06/05/2020
Sample Type	Standards	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		110 (ft)	114 (ft)	122 (ft)	-	-	-	-	-	-	-	-	-	-	-	-	-	100 (ft)	69 (ft)	86 (ft)
1,2,4-Trichlorobenzene	9	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
1,2-Dichlorobenzene	600	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
1,2-Dichloroethane	2	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
1,2-Dichloropropane	1	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
1,3-Dichlorobenzene	600	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
1,4-Dichlorobenzene	75	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
2-Butanone (Methyl Ethyl Ketone)	300	ND (50)	ND (100)	ND (50)	190	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (500)	ND (25)	ND (500)	130	ND (250)	ND (250)
2-Hexanone	300	ND (50)	ND (100)	ND (50)	ND (50)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (500)	ND (25)	ND (500)	ND (50)	ND (250)	ND (250)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (50)	ND (100)	ND (50)	ND (50)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (500)	ND (25)	ND (500)	ND (50)	ND (250)	ND (250)
Acetone	6000	ND (50)	ND (100)	ND (50)	53	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (100)	ND (100)	ND (100)	ND (100)	ND (500)	ND (25)	ND (500)	71	ND (250)	ND (250)
Benzene	1	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
Bromodichloromethane	1	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
Bromoform	4	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
Bromomethane (Methyl Bromide)	10	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100) *	ND (10)	ND (50)	ND (50)
Carbon disulfide	700	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
Carbon tetrachloride	1	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
Chlorobenzene	50	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
Chloroethane	5	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
Chloroform (Trichloromethane)	70	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
Chloromethane (Methyl Chloride)	100	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
cis-1,2-Dichloroethene	70	4600 [A]	5600 [A]	2400 [A]	2400 [A]	77 J [A]	89 J [A]	22	15 J	15 J	7.9 J	9.3 J	8.7 J	28000 [A]	1400 [A]	360 [A]	2400 [A]	ND (50)	22 J	
cis-1,3-Dichloropropene	1	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)
Cyclohexane	100	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	30 J	9.1 J	11 J	8.7 J	ND (100)	1.8 J	88 J	ND (10)	ND (50)	ND (50)	
Dibromochloromethane	1	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)	
Dichlorodifluoromethane (CFC-12)	1000	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)	
Ethylbenzene	700	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)	
Isopropylbenzene (Cumene)	700	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)	
Methyl acetate	7000	10 J	21 J	11 J	ND (50)	ND (500)	ND (500)	ND (100)	ND (100)	330	200	210	180	79 J	140	780	34 J	ND (250)	ND (250)	
Methyl cyclohexane	100	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)	
Methyl Tert Butyl Ether	70	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)	
Methylene chloride	3	ND (10)	ND (20)	ND (10)	3.2 J [A]	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (100)	4.7 J [A]	ND (100) *	ND (10)	ND (50)	ND (50)	
Styrene	100	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)	
Tetrachloroethene	1	ND (10)	ND (20)	ND (10)	ND (10)	25 J [A]	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)	
Toluene	600	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)	
trans-1,2-Dichloroethene	100	22	25	10	7.8 J	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100) *	6.7 J	24 J	23 J	
trans-1,3-Dichloropropene	1	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)	
Trichloroethene	1	400 [A]	230 [A]	130 [A]	1000 [A]	24000 [A]	26000 [A]	7300 [A]	5600 [A]	12000 [A]	4500 [A]	4900 [A]	4000 [A]	1900 [A]	1500 [A]	26000 [A]	1600 [A]	ND (50)	ND (50)	
Trichlorofluoromethane (CFC-11)	2000	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (10)	ND (50)	ND (50)	
Trifluorotrichloroethane (Freon 113)	20000	ND (10)	ND (20)	ND (10)	ND (10)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100) *	ND (10)	ND (50)	ND (50)	
Vinyl chloride	1	140 [A]	150 [A]	69 [A]	110 [A]	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	88 J [A]	10 [A]	ND (100) *	82 [A]	15000 [A]	13000 [A]	
Xylene (total)	1000	ND (10)	ND (20)	ND (10)	ND (20)	ND (100)	ND (100)	ND (20)	ND (20)	ND (50)	ND (20)	ND (20)	ND (20)	ND (100)	ND (5)	ND (100)	ND (20)	ND (50)	ND (50)	
Volatile Organic Compounds SIM (ug/L)																				
1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Notes:
1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
 2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
 3. Results in **bold** are detected.
 4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208A	RW-208B	RW-208C	Sample Port	Sample Port	
Sample Date	Quality	06/05/2020	06/05/2020	06/05/2020	08/26/2020	08/26/2020	08/26/2020	08/26/2020	08/26/2020	03/17/2021	03/17/2021	03/17/2021	03/17/2021	03/17/2021	09/03/2019	09/03/2019	09/03/2019	10/03/2019	10/08/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		96 (ft)	108 (ft)	120 (ft)	69 (ft)	86 (ft)	96 (ft)	108 (ft)	120 (ft)	69 (ft)	86 (ft)	96 (ft)	108 (ft)	120 (ft)	-	-	-	-	-
Field Parameters																			
Temperature (Deg C)	-	19.63	20.41	21.41	18.14	18.32	17.99	19.96	17.68	11.01	10.37	11.79	12.5	14.12	19.66	20.06	18.52	16.16	14.45
Conductivity, Field (mS/cm)	-	0.728	0.711	0.689	0.646	0.605	0.566	0.516	0.445	0.504	0.367	0.337	0.305	0.36	0.442	0.421	0.435	0.411	0.429
ORP, Field (mv)	-	-145.1	-136.9	-128.7	-43.1	-38.2	-38.9	-41.8	-45.4	-55.9	10.2	37.8	43.9	43.1	-6.7	-1.6	7.9	57.1	212.8
Turbidity, Field (NTU)	-	12.4	15.4	19.3	21	15.9	13.1	18.1	35.2	12.8	12.2	10.9	14.9	999	140	392	223	999	999
pH, Field (pH units)	-	6.82	6.68	6.52	6.03	5.97	5.95	5.87	5.78	5.59	5.85	5.66	5.57	5.38	6.01	5.88	5.88	6.95	6.55
Dissolved Oxygen, Field (ug/L)	-	2780	1580	1560	110	100	80	70	60	1820	1140	740	510	290	340	240	180	3350	1950
Inorganic Compounds (ug/L)																			
Antimony	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	70	-	-	-	10	9.3	9.4	16.4	36.1	ND (8)	ND (8)	ND (8)	17.9	217 ^[A]	207 ^[A]	272 ^[A]	209 ^[A]	2060 ^[A]	301 ^[A]
Chromium VI (Hexavalent)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (40)	ND (40)	ND (10)	509	ND (2000)
Cobalt	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	300	64600 ^[A]	47400 ^[A]	70800 ^[A]	91400 ^[A]	75200 ^[A]	66000 ^[A]	47700 ^[A]	27000 ^[A]	104000 ^[A]	93900 ^[A]	82300 ^[A]	53700 ^[A]	93800 ^[A]	-	-	-	-	-
Iron, Dissolved	300	56100 ^[A]	37700 ^[A]	58100 ^[A]	90500 ^[A]	75700 ^[A]	64200 ^[A]	47900 ^[A]	27300 ^[A]	102000 ^[A]	92200 ^[A]	80400 ^[A]	52600 ^[A]	104000 ^[A]	-	-	-	-	-
Lead	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	50	9460 ^[A]	9580 ^[A]	9860 ^[A]	4170 ^[A]	3980 ^[A]	3940 ^[A]	3470 ^[A]	2920 ^[A]	6480 ^[A]	6380 ^[A]	6070 ^[A]	5200 ^[A]	6160 ^[A]	-	-	-	-	-
Manganese, Dissolved	50	8390 ^[A]	7740 ^[A]	8400 ^[A]	4100 ^[A]	4050 ^[A]	3880 ^[A]	3510 ^[A]	2960 ^[A]	6450 ^[A]	6190 ^[A]	5960 ^[A]	5120 ^[A]	6710 ^[A]	-	-	-	-	-
Mercury	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	100	-	-	-	3.6 J	3.6 J	3.3 J	4.8	6.9	ND (8)	ND (8)	ND (8)	3.6 J	73.8	4.7	4.6	3.7 J	14.1	7.7
Selenium	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	50000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other (ug/L)																			
Alkalinity, Bicarbonate (as CaCO3)	-	-	-	-	193000	163000	164000	147000	117000	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	-	-	-	-	ND (5000)	ND (5000)	ND (5000)	ND (5000)	ND (5000)	-	-	-	-	-	-	-	-	-	-
Alkalinity, Hydroxide	-	-	-	-	ND (5000)	ND (5000)	ND (5000)	ND (5000)	ND (5000)	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	-	-	-	-	193000	163000	164000	147000	117000	-	-	-	-	-	-	-	-	-	-
Carbon Dioxide, Free	-	-	-	-	266000 HF	341000 HF	321000 HF	283000 HF	199000 HF	-	-	-	-	-	-	-	-	-	-
Carbon dioxide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	250000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	-	-	-	-	ND (83)	ND (83)	ND (83)	ND (83)	ND (83)	ND (83)	ND (170)	ND (170)	ND (83)	ND (170)	-	-	-	-	-
Ethene	-	-	-	-	80	100	70 J	51 J	91	3700	3600	3500	2400	4000	-	-	-	-	-
Methane	-	-	-	-	350	470	360	300	410	10000 D	11000 D	12000 D	6700 D	13000 D	-	-	-	-	-
Nitrate (as N)	10000	43 J	70 J	48 J	73 J	65 J	31 J	70 J	130	100	78 J	48 J	230	84 J	-	-	-	-	-
Nitrite/Nitrate	10000	ND (100)	160	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	170	26 J	52 J	72 J	360	46 J	-	-	-	-	-
Sulfate	250000	ND (5000)	9500	124000	ND (5000)	ND (5000)	ND (5000)	3700 J	16600	ND (5000)	ND (5000)	ND (5000)	12500	ND (5000)	-	-	-	-	-
Total Dissolved Solids (TDS)	500000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	-	113000	76500	117000	117000	112000	108000	91900	60800	156000	147000	132000	87400	151000	-	-	-	1500	739000
PCBs (ug/L)																			
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (ug/L)																			
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.51 ^[A]	1.2 ^[A]
2,2'-oxybis(1-Chloropropane)	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haley & Aldrich, Inc.																			
\\haleyaldrich.com\share\cle_common\Projects\70613\860 - 2021 ERD Injections\Permit-By-Rule\2. Tables\2021-0429-HAI-GW_Data.xlsx																			

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208A	RW-208B	RW-208C	Sample Port	Sample Port
Sample Date	Quality	06/05/2020	06/05/2020	06/05/2020	08/26/2020	08/26/2020	08/26/2020	08/26/2020	08/26/2020	03/17/2021	03/17/2021	03/17/2021	03/17/2021	03/17/2021	09/03/2019	09/03/2019	09/03/2019	10/03/2019	10/08/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		96 (ft)	108 (ft)	120 (ft)	69 (ft)	86 (ft)	96 (ft)	108 (ft)	120 (ft)	69 (ft)	86 (ft)	96 (ft)	108 (ft)	120 (ft)	-	-	-	-	-
2,4-Dimethylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol (o-Cresol)	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atrazine	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenyl	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	5000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds (ug/L)																			
1,1,1-Trichloroethane	30	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
1,1,2,2-Tetrachloroethane	1	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
1,1,2-Trichloroethane	3	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
1,1-Dichloroethane	50	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
1,1-Dichloroethene	1	ND (50)	ND (25)	ND (50)	39 J ^[A]	ND (100)	ND (100)	22 J ^[A]	16 J ^[A]	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208	RW-208A	RW-208B	RW-208C	Sample Port	Sample Port
Sample Date	Quality	06/05/2020	06/05/2020	06/05/2020	08/26/2020	08/26/2020	08/26/2020	08/26/2020	08/26/2020	03/17/2021	03/17/2021	03/17/2021	03/17/2021	03/17/2021	09/03/2019	09/03/2019	09/03/2019	10/03/2019	10/08/2019
Sample Type	Standards	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		96 (ft)	108 (ft)	120 (ft)	69 (ft)	86 (ft)	96 (ft)	108 (ft)	120 (ft)	69 (ft)	86 (ft)	96 (ft)	108 (ft)	120 (ft)	-	-	-	-	-
1,2,4-Trichlorobenzene	9	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
1,2-Dichlorobenzene	600	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
1,2-Dichloroethane	2	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
1,2-Dichloropropane	1	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
1,3-Dichlorobenzene	600	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
1,4-Dichlorobenzene	75	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
2-Butanone (Methyl Ethyl Ketone)	300	ND (250)	ND (130)	ND (250)	ND (500)	ND (500)	ND (500)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)
2-Hexanone	300	ND (250)	ND (130)	ND (250)	ND (500)	ND (500)	ND (500)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (250)	ND (130)	ND (250)	ND (500)	ND (500)	ND (500)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)
Acetone	6000	ND (250)	ND (130)	ND (250)	ND (500)	ND (500)	ND (500)	ND (250)	ND (250)	310	ND (250)	ND (250)	ND (250)	ND (250)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)
Benzene	1	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Bromodichloromethane	1	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Bromoform	4	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Bromomethane (Methyl Bromide)	10	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Carbon disulfide	700	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Carbon tetrachloride	1	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Chlorobenzene	50	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Chloroethane	5	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Chloroform (Trichloromethane)	70	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Chloromethane (Methyl Chloride)	100	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
cis-1,2-Dichloroethene	70	ND (50)	210 [A]	ND (50)	39000 [A]	37000 [A]	30000 [A]	22000 [A]	15000 [A]	160 [A]	47 J	54	ND (50)	130 [A]	180 J [A]	170 J [A]	150 J [A]	99 J [A]	39 J
cis-1,3-Dichloropropene	1	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Cyclohexane	100	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Dibromochloromethane	1	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Dichlorodifluoromethane (CFC-12)	1000	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Ethylbenzene	700	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Isopropylbenzene (Cumene)	700	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Methyl acetate	7000	ND (250)	ND (130)	ND (250)	ND (500)	ND (500)	ND (500)	ND (250)	ND (250)	ND (250) **	ND (250) **	ND (250) **	ND (250) **	ND (250) **	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)
Methyl cyclohexane	100	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Methyl Tert Butyl Ether	70	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Methylene chloride	3	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Styrene	100	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Tetrachloroethene	1	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Toluene	600	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
trans-1,2-Dichloroethene	100	25 J	18 J	26 J	220 [A]	200 [A]	180 [A]	120 [A]	93	81	79	69	79	42 J	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
trans-1,3-Dichloropropene	1	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Trichloroethene	1	ND (50)	550 [A]	ND (50)	6300 [A]	1600 [A]	1300 [A]	660 [A]	680 [A]	71 [A]	28 J [A]	40 J [A]	ND (50)	280 [A]	87000 [A]	91000 [A]	81000 [A]	40000 [A]	24000 [A]
Trichlorofluoromethane (CFC-11)	2000	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Trifluorotrichloroethane (Freon 113)	20000	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Vinyl chloride	1	13000 [A]	7800 [A]	15000 [A]	800 [A]	830 [A]	640 [A]	480 [A]	610 [A]	20000 [A]	19000 [A]	16000 [A]	19000 [A]	10000 [A]	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Xylene (total)	1000	ND (50)	ND (25)	ND (50)	ND (100)	ND (100)	ND (100)	ND (50)	ND (50)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (250)	ND (250)	ND (200)	ND (100)	ND (100)
Volatile Organic Compounds SIM (ug/L)																			
1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
3. Results in **bold** are detected.
4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE I
SUMMARY OF ANALYTICAL RESULTS SINCE 2018
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	Groundwater	Sample Port	Sample Port	Sample Port	Sample Port	Sample Port	Sample Port	Sample Port	Sample Port	Sample Port
Sample Date	Quality	10/30/2019	11/05/2019	11/13/2019	11/18/2019	12/19/2019	01/20/2020	02/20/2020	04/07/2020	10/20/2020
Sample Type	Standards	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-
Field Parameters										
Temperature (Deg C)	-	16.88	16.84	15.24	9.28	14.9	12.56	11.22	15.7	18.45
Conductivity, Field (mS/cm)	-	0.448	0.312	0.334	0.526	0.529	0.532	0.603	0.604	0.594
ORP, Field (mv)	-	75.8	179	153	10.7	-101.5	-16.9	-121.8	-109.1	-79.8
Turbidity, Field (NTU)	-	10.2	44.2	316	999	127	999	41.9	38.2	58.9
pH, Field (pH units)	-	6.27	6.84	7.07	6.59	6.26	6.57	6.56	6.39	6.24
Dissolved Oxygen, Field (ug/L)	-	2510	2060	1010	3510	190	170	1060	300	2510
Inorganic Compounds (ug/L)										
Antimony	6	-	-	-	-	-	-	-	-	-
Arsenic	3	-	-	-	-	-	-	-	-	-
Barium	6000	-	-	-	-	-	-	-	-	-
Beryllium	1	-	-	-	-	-	-	-	-	-
Cadmium	4	-	-	-	-	-	-	-	-	-
Chromium	70	138 ^[A]	-	-	53	-	-	-	4.5	14.6
Chromium VI (Hexavalent)	-	101	-	-	2830	ND (20)	-	-	-	-
Cobalt	100	-	-	-	-	-	-	-	-	-
Copper	1300	-	-	-	-	-	-	-	-	-
Cyanide	100	-	-	-	-	-	-	-	-	-
Iron	300	-	-	-	-	50800 ^[A]	24000 ^[A]	59600 ^[A]	59300 ^[A]	89500 ^[A]
Iron, Dissolved	300	-	-	-	-	1790 ^[A]	25600 ^[A]	53100 ^[A]	115000 ^[A]	82100 B ^[A]
Lead	5	-	-	-	-	-	-	-	-	-
Manganese	50	-	-	-	-	5560 ^[A]	6670 ^[A]	7340 ^[A]	8380 ^[A]	4900 ^[A]
Manganese, Dissolved	50	-	-	-	-	4730 ^[A]	7860 ^[A]	6980 ^[A]	16900 ^[A]	4770 ^[A]
Mercury	2	-	-	-	-	-	-	-	-	-
Nickel	100	11.7	-	-	14.5	-	-	-	5.9	6.2
Selenium	40	-	-	-	-	-	-	-	-	-
Silver	40	-	-	-	-	-	-	-	-	-
Sodium	50000	-	-	-	-	-	-	-	-	-
Zinc	2000	-	-	-	-	-	-	-	-	-
Other (ug/L)										
Alkalinity, Bicarbonate (as CaCO3)	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	-	-	-	-	-	-	-	-	-	-
Alkalinity, Hydroxide	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	-	-	-	-	-	-	-	-	-	-
Carbon Dioxide, Free	-	-	-	-	-	-	-	-	-	-
Carbon dioxide	-	-	-	-	-	98900 HF	-	-	-	-
Chloride	250000	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	-	-	-	-	-	-	12800000	84600	-	-
Ethane	-	-	-	-	-	1.9 J	ND (830)	5.6 J	ND (330)	ND (83)
Ethene	-	-	-	-	-	7.9	ND (770)	15	ND (310)	570
Methane	-	-	-	-	-	ND (4)	ND (440)	36	1600	4200
Nitrate (as N)	10000	-	-	-	-	27 JHB	680 B	ND (100)	39 J	96 J
Nitrite/Nitrate	10000	-	-	-	-	52 JHB	760 B	75 JB	90 J	ND (100)
Sulfate	250000	-	-	-	-	ND (600)	ND (600)	ND (5000)	ND (5000)	ND (5000)
Total Dissolved Solids (TDS)	500000	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	-	6800 B	15400	59500 B	1130000	-	12000000	82100	97400	110000
PCBs (ug/L)										
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-
Semi-Volatile Organic Compounds (ug/L)										
1,4-Dioxane	0.4	0.88 ^[A]	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	300	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	700	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	20	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	20	-	-	-	-	-	-	-	-	-

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EWING, NJ

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Sample Date	Quality	10/30/2019	11/05/2019	11/13/2019	11/18/2019	12/19/2019	01/20/2020	02/20/2020	04/07/2020	10/20/2020
Sample Type	Standards	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	100	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	40	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	600	-	-	-	-	-	-	-	-	-
2-Chlorophenol	40	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	30	-	-	-	-	-	-	-	-	-
2-Methylphenol (o-Cresol)	50	-	-	-	-	-	-	-	-	-
2-Nitroaniline	100	-	-	-	-	-	-	-	-	-
2-Nitrophenol	100	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	30	-	-	-	-	-	-	-	-	-
3-Nitroaniline	100	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	1	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	100	-	-	-	-	-	-	-	-	-
4-Chloroaniline	30	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	100	-	-	-	-	-	-	-	-	-
4-Methylphenol	50	-	-	-	-	-	-	-	-	-
4-Nitroaniline	100	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100	-	-	-	-	-	-	-	-	-
Acenaphthene	400	-	-	-	-	-	-	-	-	-
Acenaphthylene	100	-	-	-	-	-	-	-	-	-
Acetophenone	700	-	-	-	-	-	-	-	-	-
Anthracene	2000	-	-	-	-	-	-	-	-	-
Atrazine	3	-	-	-	-	-	-	-	-	-
Benzaldehyde	100	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	0.1	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.1	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	0.2	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	100	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.5	-	-	-	-	-	-	-	-	-
Biphenyl	400	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	100	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	7	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	3	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	100	-	-	-	-	-	-	-	-	-
Caprolactam	5000	-	-	-	-	-	-	-	-	-
Carbazole	100	-	-	-	-	-	-	-	-	-
Chrysene	5	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	0.3	-	-	-	-	-	-	-	-	-
Dibenzofuran	100	-	-	-	-	-	-	-	-	-
Diethyl phthalate	6000	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	100	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	700	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	100	-	-	-	-	-	-	-	-	-
Fluoranthene	300	-	-	-	-	-	-	-	-	-
Fluorene	300	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	0.02	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	1	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	40	-	-	-	-	-	-	-	-	-
Hexachloroethane	7	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.2	-	-	-	-	-	-	-	-	-
Isophorone	40	-	-	-	-	-	-	-	-	-
Naphthalene	300	-	-	-	-	-	-	-	-	-
Nitrobenzene	6	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	10	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	10	-	-	-	-	-	-	-	-	-
Pentachlorophenol	0.3	-	-	-	-	-	-	-	-	-
Phenanthrene	100	-	-	-	-	-	-	-	-	-
Phenol	2000	-	-	-	-	-	-	-	-	-
Pyrene	200	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds (ug/L)										
1,1,1-Trichloroethane	30	ND (100)	ND (100)	ND (50)	ND (100)	ND (50)	ND (100)	ND (100)	ND (100)	ND (100)
1,1,2,2-Tetrachloroethane	1	ND (100)	ND (100)	ND (50)	ND (100)	ND (50)	ND (100)	ND (100)	ND (100)	ND (100)
1,1,2-Trichloroethane	3	ND (100)	ND (100)	ND (50)	ND (100)	ND (50)	ND (100)	ND (100)	ND (100)	ND (100)
1,1-Dichloroethane	50	ND (100)	ND (100)	ND (50)	ND (100)	ND (50)	ND (100)	ND (100)	ND (100)	ND (100)
1,1-Dichloroethene	1	ND (100)	ND (100)	ND (50)	ND (100)	17 J ^[A]	ND (100)	130 ^[A]	180 ^[A]	48 J ^[A]

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Location	Groundwater	Sample Port	Sample Port	Sample Port	Sample Port	Sample Port	Sample Port	Sample Port	Sample Port	Sample Port
Sample Date	Quality	10/30/2019	11/05/2019	11/13/2019	11/18/2019	12/19/2019	01/20/2020	02/20/2020	04/07/2020	10/20/2020
Sample Type	Standards	N	N	N	N	N	N	N	N	N
Sample Depth (bgs)		-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	9	ND (100)	ND (100)	ND (50)	ND (100)	-	ND (100)	ND (100)	ND (100)	ND (100)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (100)	ND (100)	ND (50)	ND (100)	-	ND (100)	ND (100)	ND (100)	ND (100)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (100)	ND (100)	ND (50)	ND (100)	-	ND (100)	ND (100)	ND (100)	ND (100)
1,2-Dichlorobenzene	600	ND (100)	ND (100)	ND (50)	ND (100)	-	ND (100)	ND (100)	ND (100)	ND (100)
1,2-Dichloroethane	2	ND (100)	ND (100)	ND (50)	ND (100)	ND (50)	ND (100)	ND (100)	ND (100)	ND (100)
1,2-Dichloropropane	1	ND (100)	ND (100)	ND (50)	ND (100)	ND (50)	ND (100)	ND (100)	ND (100)	ND (100)
1,3-Dichlorobenzene	600	ND (100)	ND (100)	ND (50)	ND (100)	-	ND (100)	ND (100)	ND (100)	ND (100)
1,4-Dichlorobenzene	75	ND (100)	ND (100)	ND (50)	ND (100)	-	ND (100)	ND (100)	ND (100)	ND (100)
2-Butanone (Methyl Ethyl Ketone)	300	ND (500)	ND (500)	ND (250)	ND (500)	-	ND (500)	ND (500)	ND (500)	ND (500)
2-Hexanone	300	ND (500)	ND (500)	ND (250)	ND (500)	-	ND (500)	ND (500)	ND (500)	ND (500)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (500)	ND (500)	ND (250)	ND (500)	-	ND (500)	ND (500)	ND (500)	ND (500)
Acetone	6000	ND (500)	ND (500)	ND (250)	ND (500)	-	ND (500)	ND (500)	ND (500)	ND (500)
Benzene	1	ND (100)	ND (100)	ND (50)	ND (100)	-	ND (100)	ND (100)	ND (100)	ND (100)
Bromodichloromethane	1	ND (100)	ND (100)	ND (50)	ND (100)	ND (50)	ND (100)	ND (100)	ND (100)	ND (100)
Bromoform	4	ND (100)	ND (100)	ND (50)	ND (100)	-	ND (100)	ND (100)	ND (100)	ND (100)
Bromomethane (Methyl Bromide)	10	ND (100) *	ND (100)	ND (50)	ND (100)	-	ND (100)	ND (100)	ND (100)	ND (100)
Carbon disulfide	700	ND (100)	ND (100)	ND (50)	ND (100)	-	ND (100)	ND (100)	ND (100)	ND (100)
Carbon tetrachloride	1	ND (100)	ND (100)	ND (50)	ND (100)	ND (50)	ND (100)	ND (100)	ND (100)	ND (100)
Chlorobenzene	50	ND (100)	ND (100)	ND (50)	ND (100)	ND (50)	ND (100)	ND (100)	ND (100)	ND (100)
Chloroethane	5	ND (100) *	ND (100)	ND (50)	ND (100)	ND (50)	ND (100)	ND (100)	ND (100)	ND (100)
Chloroform (Trichloromethane)	70	ND (100)	ND (100)	ND (50)	ND (100)	ND (50)	ND (100)	ND (100)	ND (100)	ND (100)
Chloromethane (Methyl Chloride)	100	ND (100)	ND (100)	ND (50)	ND (100)	ND (50)	ND (100)	ND (100)	ND (100)	ND (100)
cis-1,2-Dichloroethene	70	71 J ^[A]	43 J	31 J	34 J	1900 ^[A]	120 ^[A]	35000 ^[A]	43000 ^[A]	23000 ^[A]
cis-1,3-Dichloropropene	1	ND (100)	ND (100)	ND (50)	ND (100)	ND (50)	ND (100)	ND (100)	ND (100)	ND (100)
Cyclohexane	100	ND (100)	ND (100)	ND (50)	ND (100)	-	74 J	ND (100)	ND (100)	ND (100)
Dibromochloromethane	1	ND (100)	ND (100)	ND (50)	ND (100)	ND (50)	ND (100)	ND (100)	ND (100)	ND (100)
Dichlorodifluoromethane (CFC-12)	1000	ND (100)	ND (100)	ND (50)	ND (100)	-	ND (100)	ND (100)	ND (100)	ND (100)
Ethylbenzene	700	ND (100)	ND (100)	ND (50)	ND (100)	-	ND (100)	ND (100)	ND (100)	ND (100)
Isopropylbenzene (Cumene)	700	ND (100)	ND (100)	ND (50)	ND (100)	-	ND (100)	ND (100)	ND (100)	ND (100)
Methyl acetate	7000	ND (500)	ND (500)	ND (250)	110 J*	-	870	ND (500)	ND (500)	ND (500)
Methyl cyclohexane	100	ND (100)	ND (100)	ND (50)	ND (100)	-	ND (100)	ND (100)	ND (100)	ND (100)
Methyl Tert Butyl Ether	70	ND (100)	ND (100)	ND (50)	ND (100)	-	ND (100)	ND (100)	ND (100)	ND (100)
Methylene chloride	3	ND (100)	ND (100)	ND (50)	ND (100)	ND (50)	ND (100)	ND (100)	ND (100)	ND (100)
Styrene	100	ND (100)	ND (100)	ND (50)	ND (100)	-	ND (100)	ND (100)	ND (100)	ND (100)
Tetrachloroethene	1	ND (100)	ND (100)	ND (50)	ND (100)	ND (50)	ND (100)	ND (100)	ND (100)	ND (100)
Toluene	600	ND (100)	ND (100)	ND (50)	ND (100)	-	46 J	ND (100)	ND (100)	ND (100)
trans-1,2-Dichloroethene	100	ND (100)	ND (100)	ND (50)	ND (100)	ND (50)	ND (100)	55 J	43 J	120 ^[A]
trans-1,3-Dichloropropene	1	ND (100)	ND (100)	ND (50)	ND (100)	ND (50)	ND (100)	ND (100)	ND (100)	ND (100)
Trichloroethene	1	21000 ^[A]	26000 ^[A]	16000 ^[A]	27000 ^[A]	21000 ^[A]	31000 ^[A]	38 J ^[A]	ND (100)	3200 ^[A]
Trichlorofluoromethane (CFC-11)	2000	ND (100)	ND (100)	ND (50)	ND (100)	-	ND (100)	ND (100)	ND (100)	ND (100)
Trifluorotrichloroethane (Freon 113)	20000	ND (100)	ND (100)	ND (50)	ND (100)	-	ND (100)	ND (100)	ND (100)	ND (100)
Vinyl chloride	1	ND (100)	ND (100)	ND (50)	ND (100)	ND (50)	ND (100)	58 J ^[A]	1100 ^[A]	1800 ^[A]
Xylene (total)	1000	ND (100)	ND (100)	ND (50)	ND (100)	-	40 J	ND (100)	ND (100)	ND (200)

Volatile Organic Compounds SIM (ug/L)

1,2-Dibromo-3-chloropropane (DBCP)	0.02	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.03	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-

- Notes:
1. ND: Result is not detected above the indicated reporting limit.
J: Estimated value
B: Analyte found in blank and sample
H: Analyzed outside of hold time
D: Sample was diluted.
+: Biased high
 2. Results in **red** exceed the following criteria:
- Groundwater Quality Standards (GWQS)
 3. Results in **bold** are detected.
 4. Sample Types: N - Normal Sample
FD - Field Duplicate

TABLE II
GROUNDWATER SAMPLING PLAN
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location	Unit	Top of Hole/ Screen (ft bgs)	Bottom of Hole/Screen (ft bgs)	Sampling Depth (ft bloc)	2021 Groundwater Sampling Events				2022 Groundwater Sampling Events				2023 Groundwater Sampling Events				
					Quarter 1 Focused	Quarter 2 Site Wide	Quarter 3 Focused	Quarter 4 Site Wide	Quarter 1 Site Wide	Quarter 2 Site Wide	Quarter 3 Site Wide	Quarter 4 Site Wide	Quarter 1 Site Wide	Quarter 2	Quarter 3	Quarter 4 Site Wide	
System Sample Port (If Operating)					Located on Skid	F, T, V, M, G, N	F, T, V, M, D	F, T, V, M, G, N	F, T, V, M, D	F, T, V, M, D	F, T, V, M, D	F, T, V, M, D	F, T, V, M, D			F, T, V, M, D	
MW-1	erburden/Weathered Bedr	4	9	6.5			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-1A	Bedrock	33	40	36.5			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-2	erburden/Weathered Bedr	6	12	9.5			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-2A	Bedrock	27	41	34			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-3	erburden/Weathered Bedr	4	11	10			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-3A	Bedrock	30	45	37.5			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-4	erburden/Weathered Bedr	5	12	11.5			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-4A	Bedrock	30	45	37.5			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-5R	erburden/Weathered Bedr	12	17	14.5			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-5A	Bedrock	30	45	37.5			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-6	erburden/Weathered Bedr	5	12	11.5			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-6A	Bedrock	27	44	35.5			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-7	erburden/Weathered Bedr	5.5	15.5	13.5			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-7AR	Bedrock	40	45	42.5			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-9A	Bedrock	33	40	--													
MW-11	erburden/Weathered Bedr	6.5	17.5	12			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-11A	Bedrock	58	82	70			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-13	Bedrock	21	40	--													
MW-14A	Bedrock	13	50	--													
MW-15	erburden/Weathered Bedr	2	12	7			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-15A	Bedrock	18	28	23			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-16A	erburden/Weathered Bedr	20	42	--													
MW-16B	Bedrock	61	71	66			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-16C	Bedrock	115	125	120			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-17A	erburden/Weathered Bedr	10	35	22.5		F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D	
MW-17B	Bedrock	91	101	96		F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D	
MW-18	erburden/Weathered Bedr	9	24	16.5		F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D	
MW-18A	Bedrock	47	52	49.5		F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D	
MW-19	erburden/Weathered Bedr	11	26	--													
MW-20	erburden/Weathered Bedr	9	24	--													
MW-20A	Bedrock	276	286	281		F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D	
MW-21	erburden/Weathered Bedr	4	14	9			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-21A	Bedrock	55	65	60			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-22	erburden/Weathered Bedr	8	18	--													
MW-22A	Bedrock	27	55	40			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-25	erburden/Weathered Bedr	3	12.5	8			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-27AR	Bedrock	37	61	--													
MW-31	erburden/Weathered Bedr	7	17	16.5			V, D		V, D	V, D	V, D	V, D	V, D			V, D	
MW-34R	erburden/Weathered Bedr	3	13	8			V, D		V, D	V, D	V, D	V, D	V, D			V, D	
MW-35	erburden/Weathered Bedr	1.62	9.52	7.5			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-35AR	Bedrock	40	45	42.5			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-37	erburden/Weathered Bedr	4	11.7	--													
MW-37A	Bedrock	39.5	44.5	--													
MW-37B	Bedrock	64	71.5	65.5			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-38	Bedrock	30	35	--													
MW-38A	Bedrock	48	53	--													
MW-39	erburden/Weathered Bedr	8.5	18.5	--													
MW-39A	Bedrock	67.5	72.5	--													
MW-41	erburden/Weathered Bedr	3	13	--													
MW-42	erburden/Weathered Bedr	10	20	--		F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D	
MW-43	Overburden/ Weathered Bedrock	4	14	13.5			F, T, V, M, G, D		F, T, V, M, G, D	F, T, V, M, G, D	F, T, V, M, G, D	F, T, V, M, G, D	F, T, V, M, G, D			F, T, V, M, G, D	
MW-44	Overburden/ Weathered Bedrock	12	22	21.5			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-47	erburden/Weathered Bedr	3	13	11.25			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-51	erburden/Weathered Bedr	6.5	16.5	18.22			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-52R	erburden/Weathered Bedr	16	21	18.5			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-62	erburden/Weathered Bedr	4.5	15	10			V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D	
MW-63	erburden/Weathered Bedr	4.5	15	--													
MW-64	erburden/Weathered Bedr	4.5	14	--													
MW-65	erburden/Weathered Bedr	5.5	12.5	--													
MW-69	erburden/Weathered Bedr	18	28	23			V, D		V, D	V, D	V, D	V, D	V, D			V, D	
MW-70	erburden/Weathered Bedr	18	30	24		F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D	
MW-71	Bedrock	23	35	--													
MW-73R	Bedrock	23	35	29			F, T, V, M, D		F, T, V, M, D	F, T, V, M, D	F, T, V, M, D	F, T, V, M, D	F, T, V, M, D			F, T, V, M, D	
MW-74	Bedrock	108	110	--													
MW-75	Bedrock	86	96	91			V, M, D</										

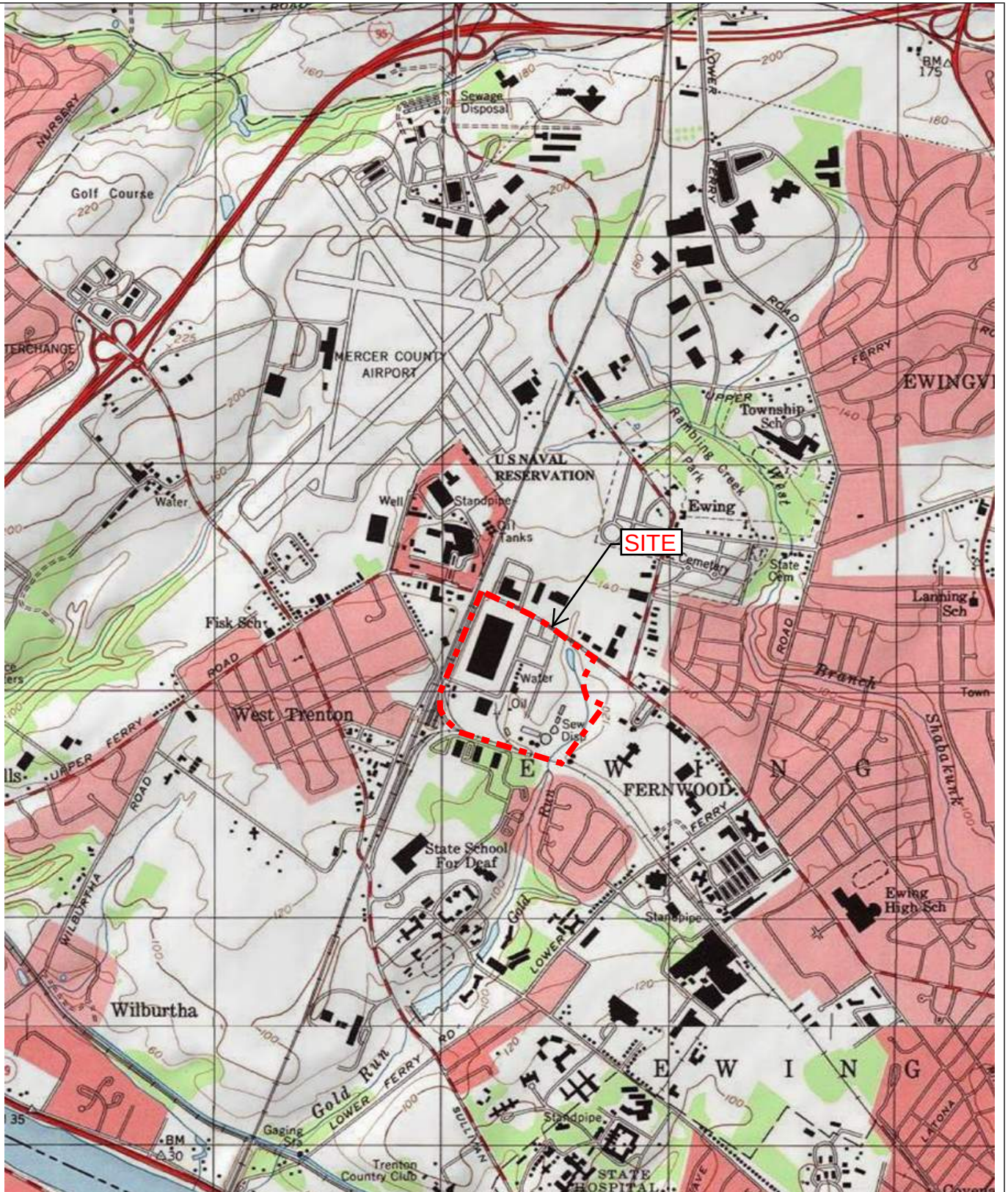
TABLE II
GROUNDWATER SAMPLING PLAN
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

					2024 Groundwater Sampling Events				2025 Groundwater Sampling Events			
Location	Unit	Top of Hole/ Screen (ft bgs)	Bottom of Hole/Screen (ft bgs)	Sampling Depth (ft bloc)	Quarter 1 Site Wide	Quarter 2	Quarter 3	Quarter 4 Site Wide	Quarter 1 Site Wide	Quarter 2	Quarter 3	Quarter 4 Site Wide
System Sample Port (If Operating)				Located on Skid		F, T, V, M, D					F, T, V, M, D	
MW-1	erburden/Weathered Bedr	4	9	6.5		V, M, D					V, M, D	
MW-1A	Bedrock	33	40	36.5		V, M, D					V, M, D	
MW-2	erburden/Weathered Bedr	6	12	9.5		V, M, D					V, M, D	
MW-2A	Bedrock	27	41	34		V, M, D					V, M, D	
MW-3	erburden/Weathered Bedr	4	11	10		V, M, D					V, M, D	
MW-3A	Bedrock	30	45	37.5		V, M, D					V, M, D	
MW-4	erburden/Weathered Bedr	5	12	11.5		V, M, D					V, M, D	
MW-4A	Bedrock	30	45	37.5		V, M, D					V, M, D	
MW-5R	erburden/Weathered Bedr	12	17	14.5		V, M, D					V, M, D	
MW-5A	Bedrock	30	45	37.5		V, M, D					V, M, D	
MW-6	erburden/Weathered Bedr	5	12	11.5		V, M, D					V, M, D	
MW-6A	Bedrock	27	44	35.5		V, M, D					V, M, D	
MW-7	erburden/Weathered Bedr	5.5	15.5	13.5		V, M, D					V, M, D	
MW-7AR	Bedrock	40	45	42.5		V, M, D					V, M, D	
MW-9A	Bedrock	33	40	--								
MW-11	erburden/Weathered Bedr	6.5	17.5	12		V, M, D					V, M, D	
MW-11A	Bedrock	58	82	70		V, M, D					V, M, D	
MW-13	Bedrock	21	40	--		W					W	
MW-14A	Bedrock	13	50	--		W					W	
MW-15	erburden/Weathered Bedr	2	12	7		V, M, D					V, M, D	
MW-15A	Bedrock	18	28	23		V, M, D					V, M, D	
MW-16A	erburden/Weathered Bedr	20	42	--		W					W	
MW-16B	Bedrock	61	71	66		V, M, D					V, M, D	
MW-16C	Bedrock	115	125	120		V, M, D					V, M, D	
MW-17A	erburden/Weathered Bedr	10	35	22.5		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-17B	Bedrock	91	101	96		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-18	erburden/Weathered Bedr	9	24	16.5		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-18A	Bedrock	47	52	49.5		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-19	erburden/Weathered Bedr	11	26	--		W					W	
MW-20	erburden/Weathered Bedr	9	24	--		W					W	
MW-20A	Bedrock	276	286	281		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-21	erburden/Weathered Bedr	4	14	9		V, M, D					V, M, D	
MW-21A	Bedrock	55	65	60		V, M, D					V, M, D	
MW-22	erburden/Weathered Bedr	8	18	--								
MW-22A	Bedrock	27	56	40		V, M, D					V, M, D	
MW-25	erburden/Weathered Bedr	3	12.5	8		V, M, D					V, M, D	
MW-27AR	Bedrock	37	61	--		W					W	
MW-31	erburden/Weathered Bedr	7	17	16.5		V, D					V, D	
MW-34R	erburden/Weathered Bedr	3	13	8		V, D					V, D	
MW-35	erburden/Weathered Bedr	1.62	9.52	7.5		V, M, D					V, M, D	
MW-35AR	Bedrock	40	45	42.5		V, M, D					V, M, D	
MW-37	erburden/Weathered Bedr	4	11.7	--		W					W	
MW-37A	Bedrock	39.5	44.5	--		W					W	
MW-37B	Bedrock	64	71.5	65.5		V, M, D					V, M, D	
MW-38	Bedrock	30	35	--		W					W	
MW-38A	Bedrock	48	53	--		W					W	
MW-39	erburden/Weathered Bedr	8.5	18.5	--		W					W	
MW-39A	Bedrock	67.5	72.5	--		W					W	
MW-41	erburden/Weathered Bedr	3	13	--		W					W	
MW-42	erburden/Weathered Bedr	10	20	--		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-43	Overburden/ Weathered Bedrock	4	14	13.5		F, T, V, M, G, D					F, T, V, M, G, D	
MW-44	Overburden/ Weathered Bedrock	12	22	21.5		V, M, D					V, M, D	
MW-47	erburden/Weathered Bedr	3	13	11.25		V, M, D					V, M, D	
MW-51	erburden/Weathered Bedr	6.5	16.5	18.22		V, M, D					V, M, D	
MW-52R	erburden/Weathered Bedr	16	21	18.5		V, M, D					V, M, D	
MW-62	erburden/Weathered Bedr	4.5	15	10		V, M, D					V, M, D	
MW-63	erburden/Weathered Bedr	4.5	15	--		W					W	
MW-64	erburden/Weathered Bedr	4.5	14	--		W					W	
MW-65	erburden/Weathered Bedr	5.5	12.5	--		W					W	
MW-69	erburden/Weathered Bedr	18	28	23		V,D					V,D	
MW-70	erburden/Weathered Bedr	18	30	24		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-71	Bedrock	23	35	--								
MW-73R	Bedrock	23	35	29		F,T,V,M,D					F,T,V,M,D	
MW-74	Bedrock	108	110	--		W					W	
MW-75	Bedrock	86	96	91		V, M, D					V, M, D	
MW-76	erburden/Weathered Bedr	9.5	19.5	17.2		V, M,D					V, M,D	
MW-77	erburden/Weathered Bedr	8	18	16.75		V, M,D					V, M,D	
MW-77A	Bedrock	71	81	76		V, M, D					V, M, D	
MW-78	erburden/Weathered Bedr	8	20	--		W					W	
MW-79	erburden/Weathered Bedr	7	17	--		W					W	
MW-80	Overburden/ Weathered Bedrock	24	34	29		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-81	Overburden/ Weathered Bedrock	23.5	33.5	28.5		V, M, D					V, M, D	
MW-82	Overburden/ Weathered Bedrock	24	34	29		V, M, D					V, M, D	
MW-84R	Overburden/ Weathered Bedrock	24	34	29		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-84AR	Bedrock	73	83	78		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-85	Bedrock	111	121	116		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-86	Bedrock	112	122	117		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-87	Bedrock	91	101	96		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-88	Bedrock	76.5	86.5	83		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-89	erburden/Weathered Bedr	20	30	25		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-89A	Bedrock	91	101	96		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-90R	erburden/Weathered Bedr	20	30	--		W					W	
MW-90AR	Bedrock	80	90	--		W					W	
UST-1	Bedrock	25	60	--		W					W	
UST-3	Bedrock	25	61	43		V,D					V,D	
UST-4	Bedrock	28	40	--		W					W	
UST-7	Bedrock	100	115	107.5		V,D					V,D	
UST-9R	Bedrock	30	55	42.5		V,D					V,D	
UST-11	Bedrock	27	55	--		W					W	
RW-200a	Bedrock	45	55	--								
RW-200b	Bedrock	80	90	--								
RW-200c	Bedrock	110	120	115		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-201a	Bedrock	45	55	--								
RW-201b	Bedrock	70	80	--								
RW-201c	Bedrock	110	120	115		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-202a	Bedrock	45	55	--								
RW-202b	Bedrock	70	80	--								
RW-202c	Bedrock	90	100	95		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-203a	Bedrock	45	55	--								
RW-203b	Bedrock	70	80	--								
RW-203c	Bedrock	90	100	95		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-204a	Bedrock	45	55	--								
RW-204b	Bedrock	80	90	--								
RW-204c	Bedrock	110	120	115		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-205a	Bedrock	45	55	50		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-205b	Bedrock	70	80	75		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-20												

TABLE III
PERMIT-RELATED CEA CONSTITUENTS
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Compound Group	Chemical Name	Maximum Concentration (ug/L)	GWQS (ug/L)	Location of Maximum Concentration	Date of Maximum Concentration
Above GWQS					
Inorganic Compounds	Antimony	9.8	6	MW-87	12/18/2015
	Arsenic	4.5	3	MW-87	3/26/2014
	Beryllium	2.9	1	MW-84A	3/27/2014
	Chromium	12500	70	MW-44	8/14/2008
	Chromium VI (Hexavalent)	13730	70	MW-44	8/14/2008
	Iron	125000	300	RW-207	5/20/2020
	Lead	12.3	5	MW-84A	3/27/2014
	Manganese	209000	50	RW-207C	3/16/2021
	Nickel	4620	100	MW-44	8/14/2008
Other	Nitrate (as N)	34000	10000	MW-85	8/25/2016
	Sulfate	431000	250000	RW-207C	4/8/2020
Semi-Volatile Organic Compounds	Benzo(a)anthracene	0.89	0.1	MW-84	6/26/2014
	Benzo(a)pyrene	0.34	0.1	MW-84A	9/18/2015
	Benzo(b)fluoranthene	0.7	0.2	MW-84A	9/18/2015
	Benzo(b)fluoranthene	0.59	0.2	MW-84A	6/15/2015
	bis(2-Ethylhexyl)phthalate	12	3	MW-84	9/18/2015
	Hexachlorobenzene	0.026	0.02	MW-44	12/9/2013
	Indeno(1,2,3-cd)pyrene	0.44	0.2	MW-84A	6/15/2015
Volatile Organic Compounds	1,1,2-Trichloroethane	42	3	MW-87	3/26/2014
	1,1-Dichloroethene	180	1	Sample Port	4/7/2020
	1,2-Dichloroethane	5.1	2	RW-207	5/20/2020
	1,4-Dioxane	210	0.4	MW-84	6/26/2014
	Benzene	2.4	1	RW-207	5/20/2020
	Bromomethane (Methyl Bromide)	15	10	RW-205	9/8/2017
	Carbon tetrachloride	690	1	MW-84A	6/11/2013
	cis-1,2-Dichloroethene	43000	70	Sample Port	4/7/2020
	Methyl cyclohexane	240	100	MW-84A	3/27/2017
	Methylene chloride	120	3	MW-84A	12/13/2013
	Tetrachloroethene	40	1	MW-87	3/26/2014
	trans-1,2-Dichloroethene	220	100	RW-208	8/26/2020
	Trichloroethene	91000	1	RW-208B	9/3/2019
	Vinyl chloride	20000	1	RW-208	3/17/2021
Associated with Amendment					
Other	Chloride	48000	250000	MW-85	12/19/2019
	Total Dissolved Solids (TDS)	2480000		MW-84AR	12/19/2019

FIGURES



MAP SOURCE: ESRI

SITE COORDINATES: 40°16'1"N, 74°48'32"W



**HALEY
ALDRICH**

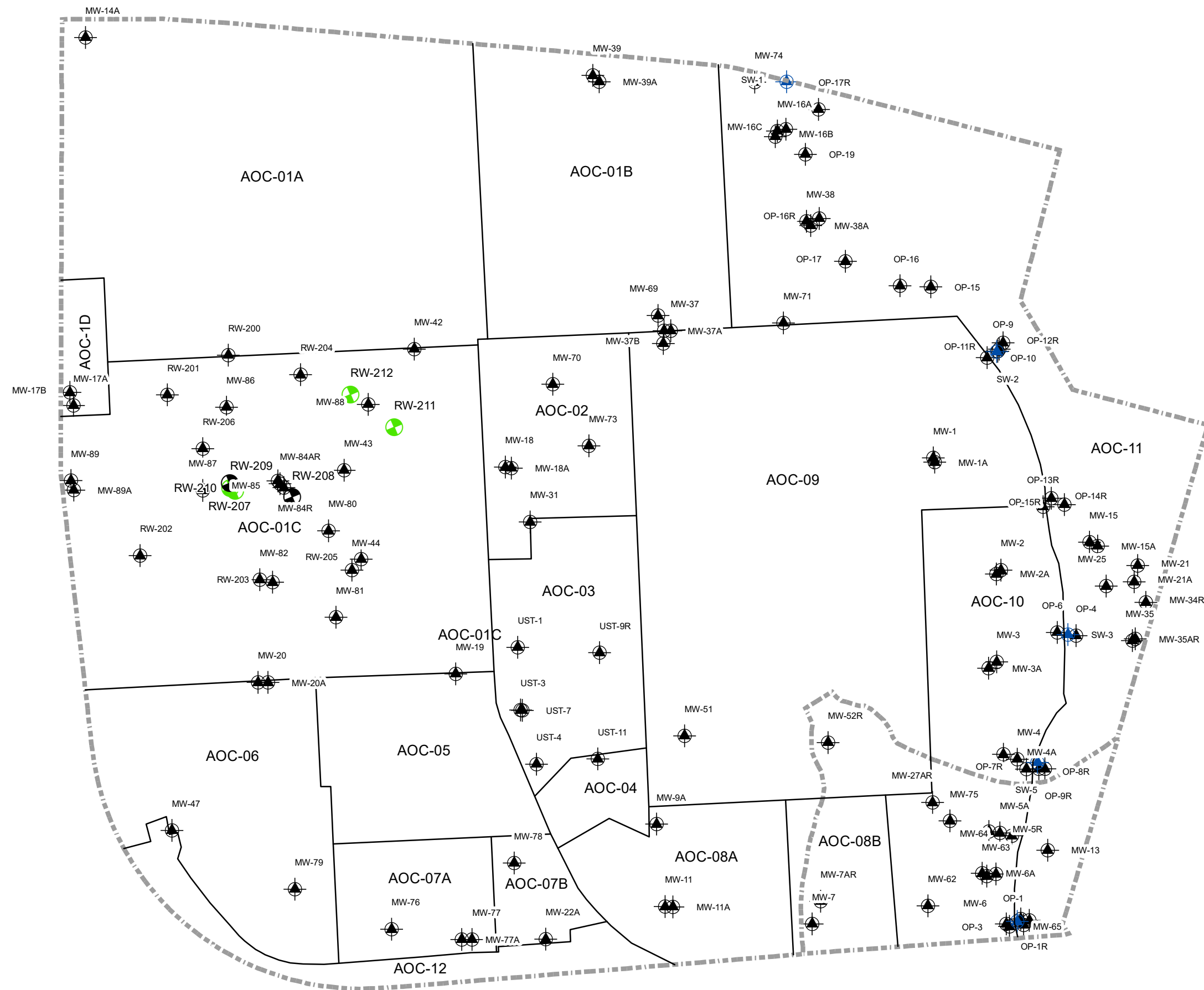
EWING TOWNSHIP INDUSTRIAL LAND
ISRA CASE NO. E97070
EWING TOWNSHIP, NEW JERSEY

PROJECT LOCUS

APPROXIMATE SCALE: 1 IN = 2000 FT
December 2018

FIGURE 1

GIS FILE PATH: C:\Users\dqualisi\Desktop\2021_PBR Figure Prep\2021_PBR_Figures.mxd — USER: dqualisi — LAST SAVED: 5/11/2021 2:44:47 PM



LEGEND

- AOC Boundaries
- - - Tax Parcel Boundaries
- ⊕ Monitoring Well
- ⊕ Monitoring Well (Abandoned)
- ⊕ Surface Water Monitoring Location
- ⊕ Remediation Wells
- ⊕ Newly Installed Remediation Wells

NOTES

1. ALL LOCATIONS AND EXTENTS APPROXIMATE

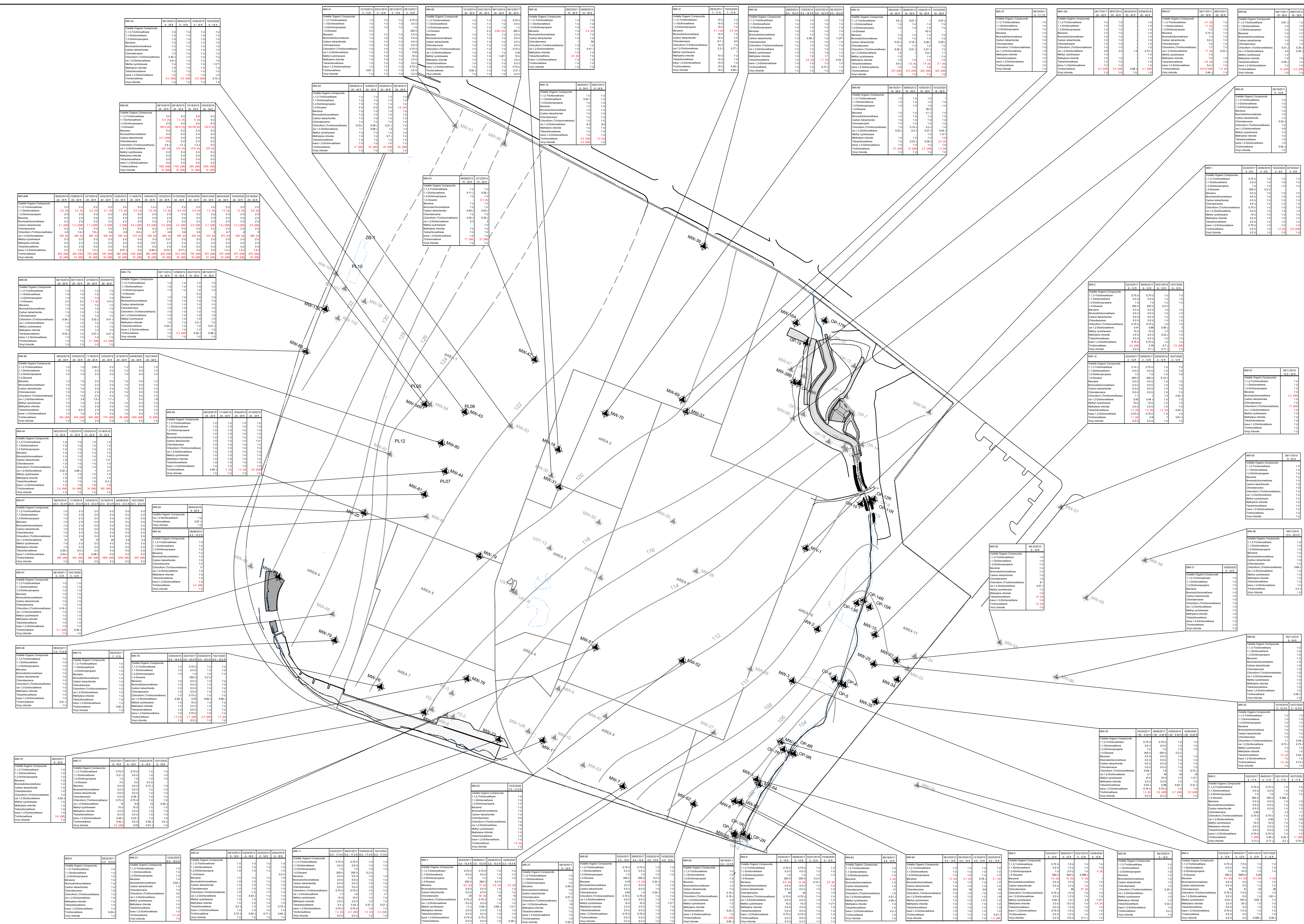
HALEY
ALDRICH

EWING TOWNSHIP INDUSTRIAL LAND
ISRA CASE NO. E97070
EWING TOWNSHIP, NEW JERSEY

SITE PLAN WITH MONITORING WELLS

MAY 2021

FIGURE 2



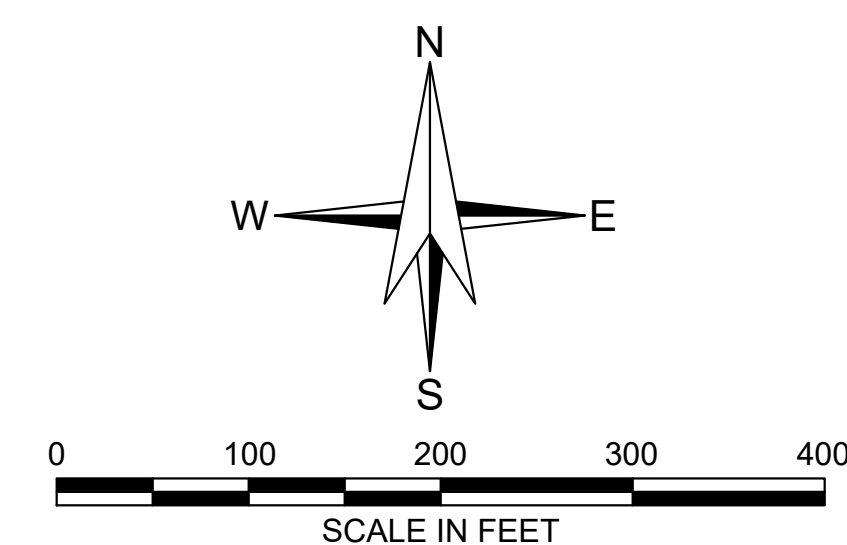
NOTES:

1. MONITORING WELL LOCATIONS BASED ON A SURVEY PERFORMED BY GERALD G. DEGRATO, L.S. DATED NOVEMBER 20, 2002. REVISION TO APRIL 15, 2013. BOUNDARY INFORMATION SHOWN IS BASED ON A SURVEY PERFORMED BY GERALD G. DEGRATO, L.S. DATED JUNE 21, 2005. BEARINGS SHOWN ARE BASED ON DEED BOOK 4512, PAGE 252. WETLANDS DELINEATED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS, INC., FLEMINGTON, N.J., JUNE, 2005. WETLAND BOUNDARIES SHOWN BASED ON A WETLAND SURVEY PERFORMED BY GERALD G. DEGRATO, L.S. DATED JUNE 21, 2005. REVISED TO JANUARY 20, 2006.
2. AERIAL TOPOGRAPHY PERFORMED BY ATLANTIS AERIAL SURVEY CO., INC., MT. OLIVE, N.J. DATE OF FLIGHT: MARCH 27, 2010. VERTICAL DATUM: NAVD 1988. HORIZONTAL DATUM: N.J.S.P.C. NAD 1983.
3. UNITS SHOWN IN UGL.

4. ONLY CHEMICALS EXCEEDING CRITERIA ARE SHOWN IN DATABOXES. DATABOXES ARE RESTRICTED TO THE MOST RECENT FOUR SAMPLING EVENTS SINCE 2010.
5. DATA SHOWN IN RED EXCEED THE ONE OR MORE OF THE FOLLOWING CRITERIA:
 - (A) - NEW JERSEY GROUNDWATER QUALITY STANDARDS (JULY 2010)
 - (B) - NIDEUP APPROPRIATE INTRUSION (MARCH 2013)
6. RESULTS IN RED WERE DETECTED AND EXCEED CRITERIA.
7. GROUNDWATER ELEVATIONS MEASURED 28 FEBRUARY 2018.
8. DASH INDICATES ANALYTE WAS NOT ANALYZED. AUGUST 2016 SAMPLING EVENT WAS LIMITED ANALYTES LIST.

LEGEND:

- PROPERTY LINE
- x- FENCE
- WETLANDS
- 100 YEAR FLOOD ZONE
- WATER BODY
- POTENTIOMETRIC GROUNDWATER SURFACE CONTOUR
- MONITORING WELL LOCATION ASSOCIATED WITH OVERBURDEN
- ABANDONED WELL



EWING TOWNSHIP INDUSTRIAL LAND
ISRA CASE NO. E97070
EWING TOWNSHIP, NEW JERSEY

**GROUNDWATER ANALYTICAL DATA
OVERBURDEN AND WEATHERED
BEDROCK - VOCs**

SCALE: AS SHOWN
APRIL 2021

FIGURE 3A

NOTES:

1. MONITORING WELL LOCATIONS BASED ON A SURVEY PERFORMED BY GERALD G. DEGROAT, L.S. DATED NOVEMBER 20, 2002. REVISED TO APRIL 15, 2013. BOUNDARY INFORMATION SHOWN IS BASED ON A SURVEY PERFORMED BY GERALD G. DEGROAT, L.S. DATED JUNE 21, 2005. BEARINGS SHOWN ARE BASED ON DEED BOOK 4512, PAGE 252. WETLANDS DELINEATED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS, INC., FLEMINGTON, N.J., JUNE, 2005. WETLAND BOUNDARIES SHOWN BASED ON A WETLAND SURVEY PERFORMED BY GERALD G. DEGROAT, L.S. DATED JUNE 21, 2005. REVISED TO JANUARY 20, 2006.

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VERTICAL DATUM: NAVD 1988
HORIZONTAL DATUM: N.J.S.P.C.S. NAD 1983.

3. UNITS SHOWN IN UGAL.

4. ONLY CHEMICALS EXCEEDING CRITERIA ARE SHOWN IN DATBOXES. DATBOXES ARE RESTRICTED TO THE MOST RECENT FOUR SAMPLING EVENTS SINCE 2010.

5. DATA SHOWN IN RED EXCEED THE ONE OR MORE OF THE FOLLOWING CRITERIA:
[A] - NEW JERSEY GROUNDWATER QUALITY STANDARDS (JULY 2010)
[B] - NIDEP VAPOR INTRUSION (MARCH 2013)

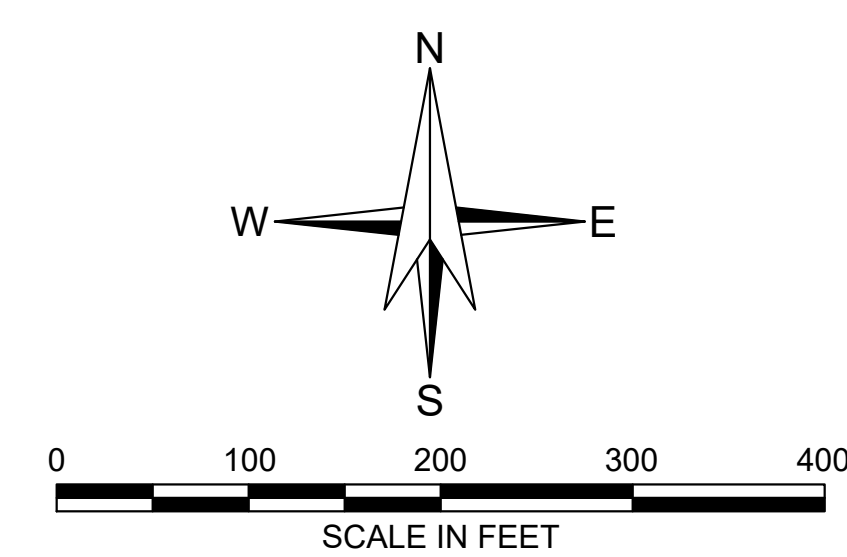
6. RESULTS IN RED WERE DETECTED AND EXCEED CRITERIA.

7. GROUNDWATER ELEVATIONS MEASURED 28 FEBRUARY 2018.

8. DASH INDICATES ANALYTE WAS NOT ANALYZED. AUGUST 2016 SAMPLING EVENT WAS LIMITED ANALYTES LIST.

LEGEND:

- PROPERTY LINE
- - - - - SUSPECTED FAULT LOCATION
- - - - - FENCE
- - - - - WETLANDS
- - - - - 100 YEAR FLOOD ZONE
- - - - - POTENTIOMETRIC GROUNDWATER SURFACE CONTOUR
- MONITORING WELL LOCATION ASSOCIATED WITH BEDROCK
- ▲ ABANDONED WELL



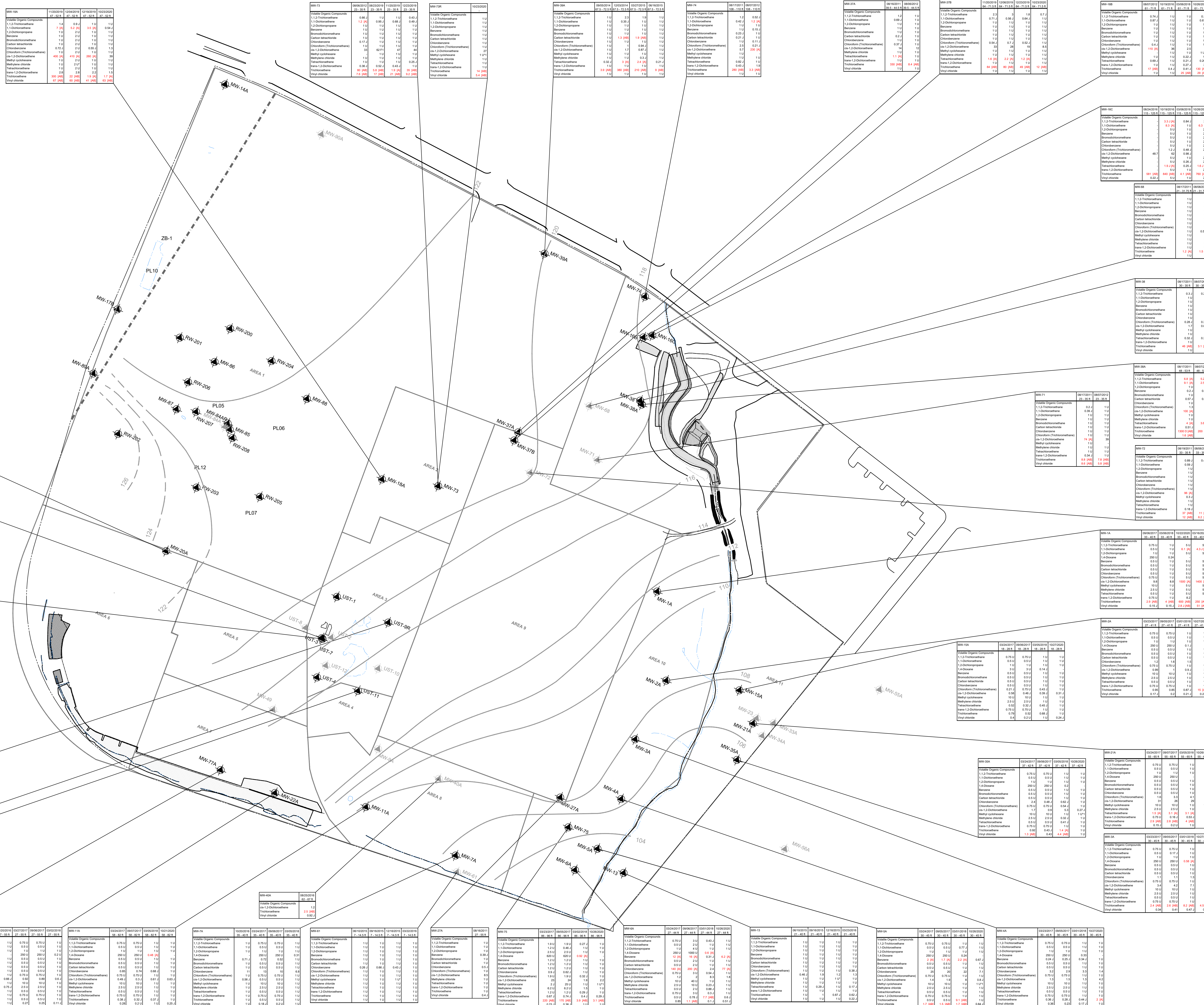
HALEY
ALDRICH

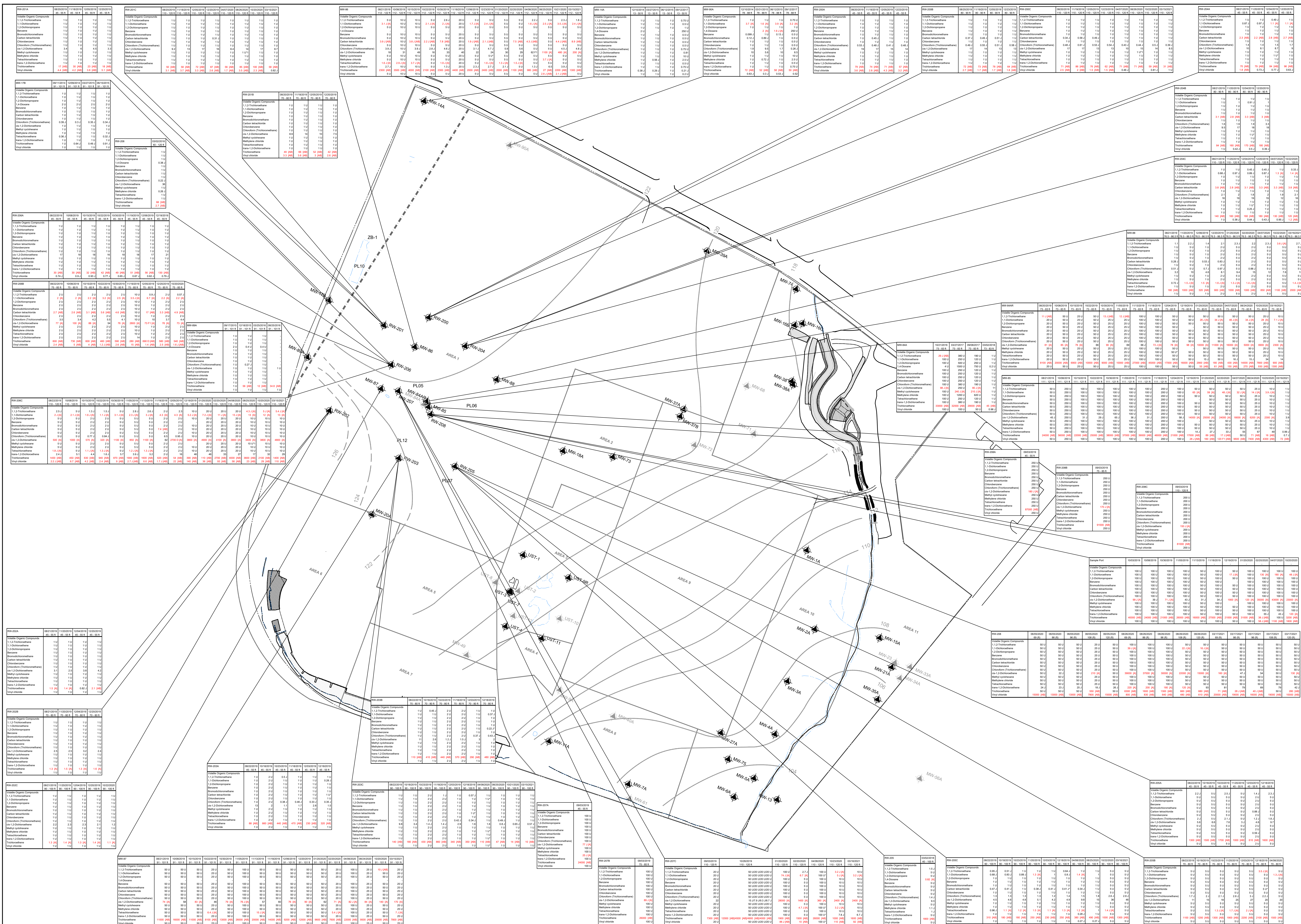
EVING TOWNSHIP INDUSTRIAL LAND
ISRA CASE NO. E97070
EVING TOWNSHIP, NEW JERSEY

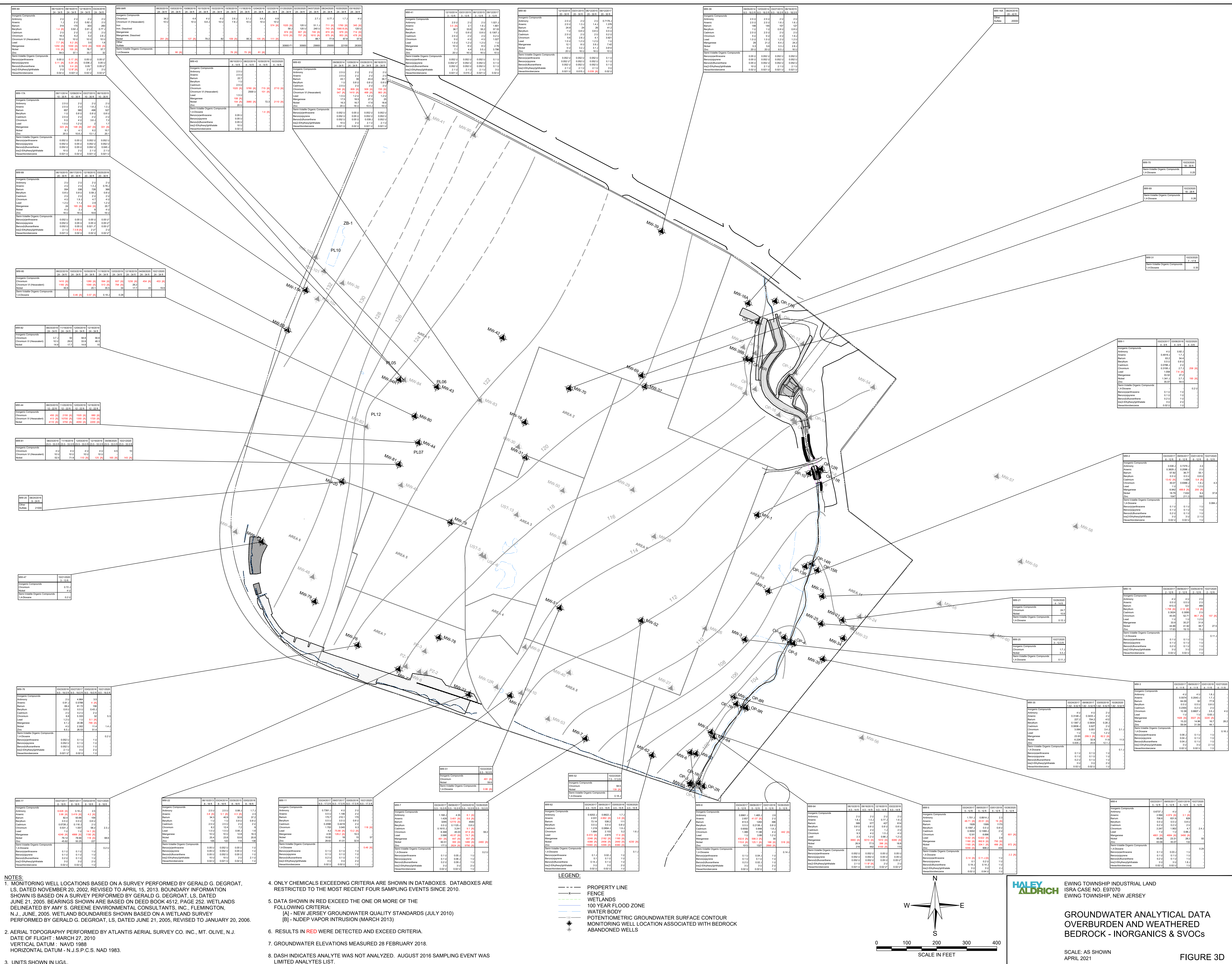
GROUNDWATER ANALYTICAL DATA BEDROCK ZONE - VOCs DOWNGRADIENT

SCALE: AS SHOWN
APRIL 2021

FIGURE 3B







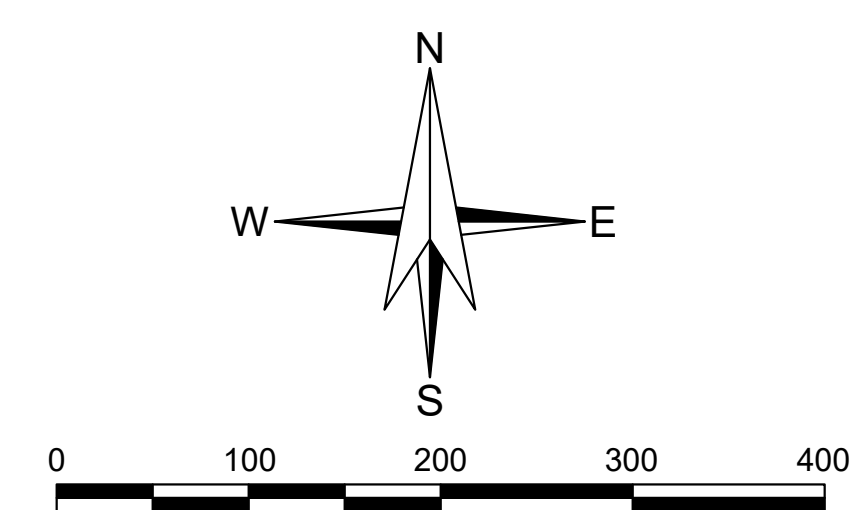
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1. MONITORING WELL LOCATIONS BASED ON A SURVEY PERFORMED BY GERALD G. DEGROAT, L.S., DATED NOVEMBER 20, 2002, REVISED TO APRIL 15, 2013. BOUNDARY INFORMATION SHOWN IS BASED ON A SURVEY PERFORMED BY GERALD G. DEGROAT, L.S., DATED JUNE 21, 2005. BEARINGS SHOWN ARE BASED ON DEED BOOK 4512, PAGE 252. WETLANDS DELINEATED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS, INC., FLEMINGTON, N.J., JUNE, 2005. WETLAND BOUNDARIES SHOWN BASED ON A WETLAND SURVEY PERFORMED BY GERALD G. DEGROAT, L.S., DATED JUNE 21, 2005, REVISED TO JANUARY 20, 2006.
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VERTICAL DATUM - NAVD 1988
HORIZONTAL DATUM - N.J.S.P.C.S. NAD 1983.
3. UNITS SHOWN IN UG/L.

4. ONLY CHEMICALS EXCEEDING CRITERIA ARE SHOWN IN DATABASES. DATABASES ARE RESTRICTED TO THE MOST RECENT FOUR SAMPLING EVENTS SINCE 2010.
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6. RESULTS IN RED WERE DETECTED AND EXCEED CRITERIA.
7. GROUNDWATER ELEVATIONS MEASURED 28 FEBRUARY 2018.
8. DASH INDICATES ANALYTE WAS NOT ANALYZED. AUGUST 2016 SAMPLING EVENT WAS LIMITED ANALYTES LIST.

LEGEND:

- PROPERTY LINE
- x- FENCE
- WETLANDS
- 100 YEAR FLOOD ZONE
- WATER BODY
- POTENTIOMETRIC GROUNDWATER SURFACE CONTOUR
- MONITORING WELL LOCATION ASSOCIATED WITH BEDROCK
- ABANDONED WELLS
- SUSPECTED FAULT LOCATION



HALEY ALDRICH

EWING TOWNSHIP INDUSTRIAL LAND
ISRA CASE NO. E97070
EWING TOWNSHIP, NEW JERSEY

GROUNDWATER ANALYTICAL DATA BEDROCK ZONE - INORGANICS & SVOCs DOWNGRADIENT

SCALE: AS SHOWN
APRIL 2021

FIGURE 3E

MW-5A	10/05/2016	05/05/2017	01/05/2018	10/05/2019
Inorganic Compounds	47.52.8	47.52.8	47.52.8	47.52.8
Antimony	4.1	4.1	4.1	4.1
Asbestos	0.1	0.1	0.1	0.1
Barium	10.0	10.0	10.0	10.0
Beryllium	0.1	0.1	0.1	0.1
Cadmium	0.1	0.1	0.1	0.1
Chromium	0.1	0.1	0.1	0.1
Copper	0.1	0.1	0.1	0.1
Lead	0.1	0.1	0.1	0.1
Manganese	0.1	0.1	0.1	0.1
Nickel	0.1	0.1	0.1	0.1
Selenium	0.1	0.1	0.1	0.1
Silver	0.1	0.1	0.1	0.1
Sulfate	0.1	0.1	0.1	0.1
Tin	0.1	0.1	0.1	0.1
Zinc	0.1	0.1	0.1	0.1

MW-7A	05/05/2017	10/05/2017	01/05/2018	10/05/2019
Inorganic Compounds	20.32.8	20.32.8	20.32.8	20.32.8
Antimony	4.1	4.1	4.1	4.1
Asbestos	0.1	0.1	0.1	0.1
Barium	10.0	10.0	10.0	10.0
Beryllium	0.1	0.1	0.1	0.1
Cadmium	0.1	0.1	0.1	0.1
Chromium	0.1	0.1	0.1	0.1
Copper	0.1	0.1	0.1	0.1
Lead	0.1	0.1	0.1	0.1
Manganese	0.1	0.1	0.1	0.1
Nickel	0.1	0.1	0.1	0.1
Selenium	0.1	0.1	0.1	0.1
Silver	0.1	0.1	0.1	0.1
Sulfate	0.1	0.1	0.1	0.1
Tin	0.1	0.1	0.1	0.1
Zinc	0.1	0.1	0.1	0.1

MW-7A	10/05/2019
Inorganic Compounds	20.32.8
Antimony	4.1
Asbestos	0.1
Barium	10.0
Beryllium	0.1
Cadmium	0.1
Chromium	0.1
Copper	0.1
Lead	0.1
Manganese	0.1
Nickel	0.1
Selenium	0.1
Silver	0.1
Sulfate	0.1
Tin	0.1
Zinc	0.1

MW-8A	05/05/2017	10/05/2017	01/05/2018	10/05/2019
Inorganic Compounds	20.32.8	20.32.8	20.32.8	20.32.8
Antimony	4.1	4.1	4.1	4.1
Asbestos	0.1	0.1	0.1	0.1
Barium	10.0	10.0	10.0	10.0
Beryllium	0.1	0.1	0.1	0.1
Cadmium	0.1	0.1	0.1	0.1
Chromium	0.1	0.1	0.1	0.1
Copper	0.1	0.1	0.1	0.1
Lead	0.1	0.1	0.1	0.1
Manganese	0.1	0.1	0.1	0.1
Nickel	0.1	0.1	0.1	0.1
Selenium	0.1	0.1	0.1	0.1
Silver	0.1	0.1	0.1	0.1
Sulfate	0.1	0.1	0.1	0.1
Tin	0.1	0.1	0.1	0.1
Zinc	0.1	0.1	0.1	0.1

MW-9B	10/05/2019	05/05/2017	01/05/2018	10/05/2019
Inorganic Compounds	20.32.8	20.32.8	20.32.8	20.32.8
Antimony	4.1	4.1	4.1	4.1
Asbestos	0.1	0.1	0.1	0.1
Barium	10.0	10.0	10.0	10.0
Beryllium	0.1	0.1	0.1	0.1
Cadmium	0.1	0.1	0.1	0.1
Chromium	0.1	0.1	0.1	0.1
Copper	0.1	0.1	0.1	0.1
Lead	0.1	0.1	0.1	0.1
Manganese	0.1	0.1	0.1	0.1
Nickel	0.1	0.1	0.1	0.1
Selenium	0.1	0.1	0.1	0.1
Silver	0.1	0.1	0.1	0.1
Sulfate	0.1	0.1	0.1	0.1
Tin	0.1	0.1	0.1	0.1
Zinc	0.1	0.1	0.1	0.1

MW-10B	10/05/2019
Inorganic Compounds	20.32.8
Antimony	4.1
Asbestos	0.1
Barium	10.0
Beryllium	0.1
Cadmium	0.1
Chromium	0.1
Copper	0.1
Lead	0.1
Manganese	0.1
Nickel	0.1
Selenium	0.1
Silver	0.1
Sulfate	0.1
Tin	0.1
Zinc	0.1

MW-10C	05/05/2017	10/05/2017	01/05/2018	10/05/2019
Inorganic Compounds	20.32.8	20.32.8	20.32.8	20.32.8
Antimony	4.1	4.1	4.1	4.1
Asbestos	0.1	0.1	0.1	0.1
Barium	10.0	10.0	10.0	10.0
Beryllium	0.1	0.1	0.1	0.1
Cadmium	0.1	0.1	0.1	0.1
Chromium	0.1	0.1	0.1	0.1
Copper	0.1	0.1	0.1	0.1
Lead	0.1	0.1	0.1	0.1
Manganese	0.1	0.1	0.1	0.1
Nickel	0.1	0.1	0.1	0.1
Selenium	0.1	0.1	0.1	0.1
Silver	0.1	0.1	0.1	0.1
Sulfate	0.1	0.1	0.1	0.1
Tin	0.1	0.1	0.1	0.1
Zinc	0.1	0.1	0.1	0.1

MW-10C	10/05/2019
Inorganic Compounds	20.32.8
Antimony	4.1
Asbestos	0.1
Barium	10.0
Beryllium	0.1
Cadmium	0.1
Chromium	0.1
Copper	0.1
Lead	0.1
Manganese	0.1
Nickel	0.1
Selenium	0.1
Silver	0.1
Sulfate	0.1
Tin	0.1
Zinc	0.1

MW-10C	05/05/2017	10/05/2017	01/05/2018	10/05/2019
Inorganic Compounds	20.32.8	20.32.8	20.32.8	20.32.8
Antimony	4.1	4.1	4.1	4.1
Asbestos	0.1	0.1	0.1	0.1
Barium	10.0	10.0	10.0	10.0
Beryllium	0.1	0.1	0.1	0.1
Cadmium	0.1	0.1	0.1	0.1
Chromium	0.1	0.1	0.1	0.1
Copper	0.1	0.1	0.1	0.1
Lead	0.1	0.1	0.1	0.1
Manganese	0.1	0.1	0.1	0.1
Nickel	0.1	0.1	0.1	0.1
Selenium	0.1	0.1	0.1	0.1
Silver	0.1	0.1	0.1	0.1
Sulfate	0.1	0.1	0.1	0.1
Tin	0.1	0.1	0.1	0.1
Zinc	0.1	0.1	0.1	0.1

MW-10C	10/05/2019
Inorganic Compounds	20.32.8
Antimony	4.1
Asbestos	0.1
Barium	10.0
Beryllium	0.1
Cadmium	0.1
Chromium	0.1
Copper	0.1
Lead	0.1
Manganese	0.1
Nickel	0.1
Selenium	0.1
Silver	0.1
Sulfate	0.1
Tin	0.1
Zinc	0.1

MW-10C	05/05/2017	10/05/2017	01/05/2018	10/05/2019
Inorganic Compounds	20.32.8	20.32.8	20.32.8	20.32.8
Antimony	4.1	4.1	4.1	4.1
Asbestos	0.1	0.1	0.1	0.1
Barium	10.0	10.0	10.0	10.0
Beryllium	0.1	0.1	0.1	0.1
Cadmium	0.1	0.1	0.1	0.1
Chromium	0.1	0.1	0.1	0.1
Copper	0.1	0.1	0.1	0.1
Lead	0.1	0.1	0.1	0.1
Manganese	0.1	0.1	0.1	0.1
Nickel	0.1	0.1	0.1	0.1
Selenium	0.1	0.1	0.1	0.1
Silver	0.1	0.1	0.1	0.1
Sulfate	0.1	0.1	0.1	0.1
Tin	0.1	0.1	0.1	0.1
Zinc	0.1	0.1	0.1	0.1

MW-10C	10/05/2019
Inorganic Compounds	20.32.8
Antimony	4.1
Asbestos	0.1
Barium	10.0
Beryllium	0.1
Cadmium	0.1
Chromium	0.1
Copper	0.1
Lead	0.1
Manganese	0.1
Nickel	0.1
Selenium	0.1
Silver	0.1
Sulfate	0.1
Tin	0.1
Zinc	0.1

MW-10C	05/05/2017	10/05/2017	01/05/2018	10/05/2019
Inorganic Compounds	20.32.8	20.32.8	20.32.8	20.32.8
Antimony	4.1	4.1	4.1	4.1
Asbestos	0.1	0.1	0.1	0.1
Barium	10.0	10.0	10.0	10.0
Beryllium	0.1	0.1	0.1	0.1
Cadmium	0.1	0.1	0.1	0.1
Chromium	0.1	0.1	0.1	0.1
Copper	0.1	0.1	0.1	0.1
Lead	0.1	0.1	0.1	0.1
Manganese	0.1	0.1	0.1	0.1
Nickel	0.1	0.1	0.1	0.1
Selenium	0.1	0.1	0.1	0.1
Silver	0.1	0.1	0.1	0.1
Sulfate	0.1	0.1	0.1	0.1
Tin	0.1	0.1	0.1	0.1
Zinc	0.1	0.1	0.1	0.1

MW-10C	10/05/2019
Inorganic Compounds	20.32.8
Antimony	4.1
Asbestos	0.1
Barium	10.0
Beryllium	0.1
Cadmium	0.1
Chromium	0.1
Copper	0.1
Lead	0.1
Manganese	0.1
Nickel	0.1
Selenium	0.1
Silver	0.1
Sulfate	0.1
Tin	0.1
Zinc	0.1

MW-10C	05/05/2017	10/05/2017	01/05/2018	10/05/2019
Inorganic Compounds	20.32.8	20.32.8	20.32.8	20.32.8
Antimony	4.1	4.1	4.1	4.1
Asbestos	0.1	0.1	0.1	0.1
Barium	10.0	10.0	10.0	10.0
Beryllium	0.1	0.1	0.1	0.1
Cadmium	0.1	0.1	0.1	0.1
Chromium	0.1	0.1	0.1	0.1
Copper	0.1	0.1	0.1	0.1
Lead	0.1	0.1	0.1	0.1
Manganese	0.1	0.1	0.1	0.1
Nickel	0.1	0.1	0.1	0.1
Selenium	0.1	0.1	0.1	0.1
Silver	0.1	0.1	0.1	0.1
Sulfate	0.1	0.1	0.1	0.1
Tin	0.1	0.1	0.1	0.1
Zinc	0.1	0.1	0.1	0.1

MW-10C	10/05/2019
Inorganic Compounds	20.32.8
Antimony	4.1
Asbestos	0.1
Barium	10.0
Beryllium	0.1
Cadmium	0.1
Chromium	0.1
Copper	0.1
Lead	0.1
Manganese	0.1
Nickel	0.1
Selenium	0.1
Silver	0.1
Sulfate	0.1
Tin	0.1
Zinc	0.1

MW-35A	03/24/2017 37 - 42 ft	09/06/2017 37 - 42 ft
Inorganic Compounds		
Antimony	4 U	4 U

NOTES:

1. MONITORING WELL LOCATIONS BASED ON A SURVEY PERFORMED BY GERALD G. DEGROAT, L.S., DATED NOVEMBER 20, 2002, REVISED TO APRIL 15, 2013. BOUNDARY INFORMATION SHOWN IS BASED ON A SURVEY PERFORMED BY GERALD G. DEGROAT, L.S., DATED JUNE 21, 2005. BEARINGS SHOWN ARE BASED ON DEED BOOK 4512, PAGE 252. WETLANDS DELINEATED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS, INC., FLEMINGTON, N.J., JUNE, 2005. WETLAND BOUNDARIES SHOWN BASED ON A WETLAND SURVEY PERFORMED BY GERALD G. DEGROAT, L.S., DATED JUNE 21, 2005, REVISED TO JANUARY 20, 2006.
2. AERIAL TOPOGRAPHY PERFORMED BY ATLANTIS AERIAL SURVEY CO., INC., MT. OLIVE, N.J. DATE OF FLIGHT : MARCH 27, 2010
VERTICAL DATUM : NAVD 1988
HORIZONTAL DATUM - N.J.S.P.C.S. NAD 1983.
3. UNITS SHOWN IN UGAL.

4. ONLY CHEMICALS EXCEEDING CRITERIA ARE SHOWN IN DATABASES. DATABASES ARE RESTRICTED TO THE MOST RECENT FOUR SAMPLING EVENTS SINCE 2010.

5. DATA SHOWN IN RED EXCEED THE ONE OR MORE OF THE FOLLOWING CRITERIA:
[A] - NEW JERSEY GROUNDWATER QUALITY STANDARDS (JULY 2010)
[B] - NIDEP VAPOR INTRUSION (MARCH 2013)

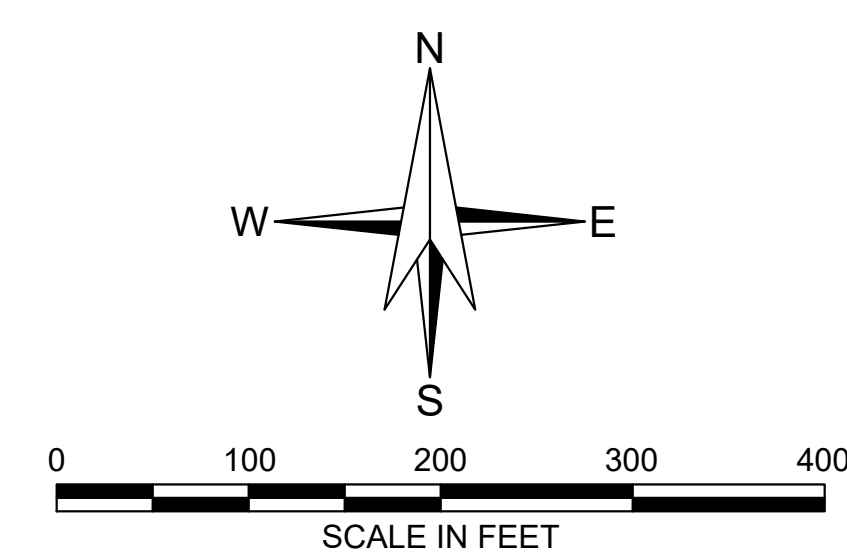
6. RESULTS IN RED WERE DETECTED AND EXCEED CRITERIA.

7. GROUNDWATER ELEVATIONS MEASURED 28 FEBRUARY 2018.

8. DASH INDICATES ANALYTE WAS NOT ANALYZED. AUGUST 2016 SAMPLING EVENT WAS LIMITED ANALYTES LIST.

LEGEND:

- PROPERTY LINE
- x- FENCE
- WETLANDS
- 100 YEAR FLOOD ZONE
- POTENTIOMETRIC GROUNDWATER SURFACE CONTOUR
- MONITORING WELL LOCATION ASSOCIATED WITH BEDROCK ABANDONED WELLS
- SUSPECTED FAULT LOCATION



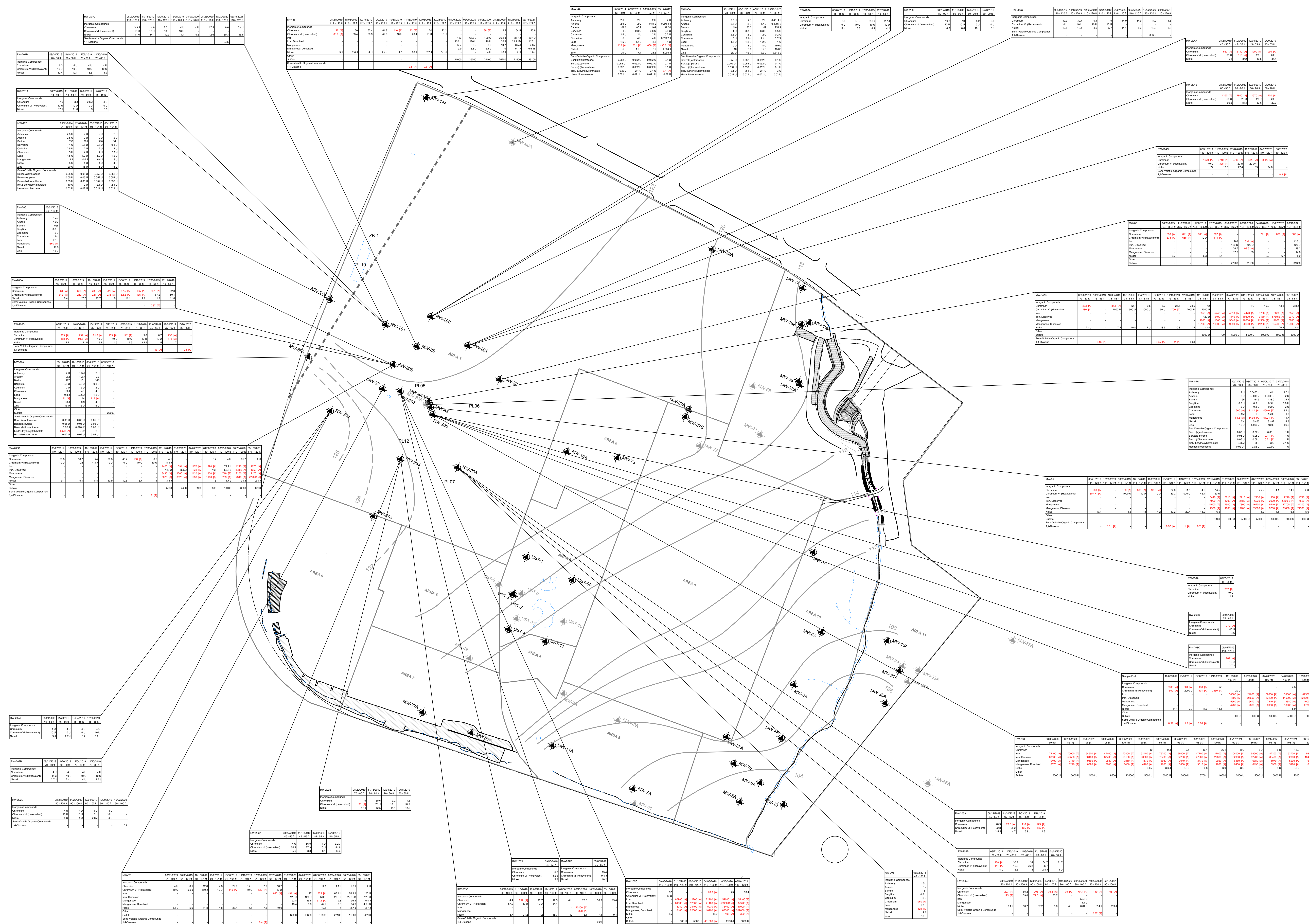
HALEY ALDRICH

EWING TOWNSHIP INDUSTRIAL LAND
ISRA CASE NO. E97070
EWING TOWNSHIP, NEW JERSEY

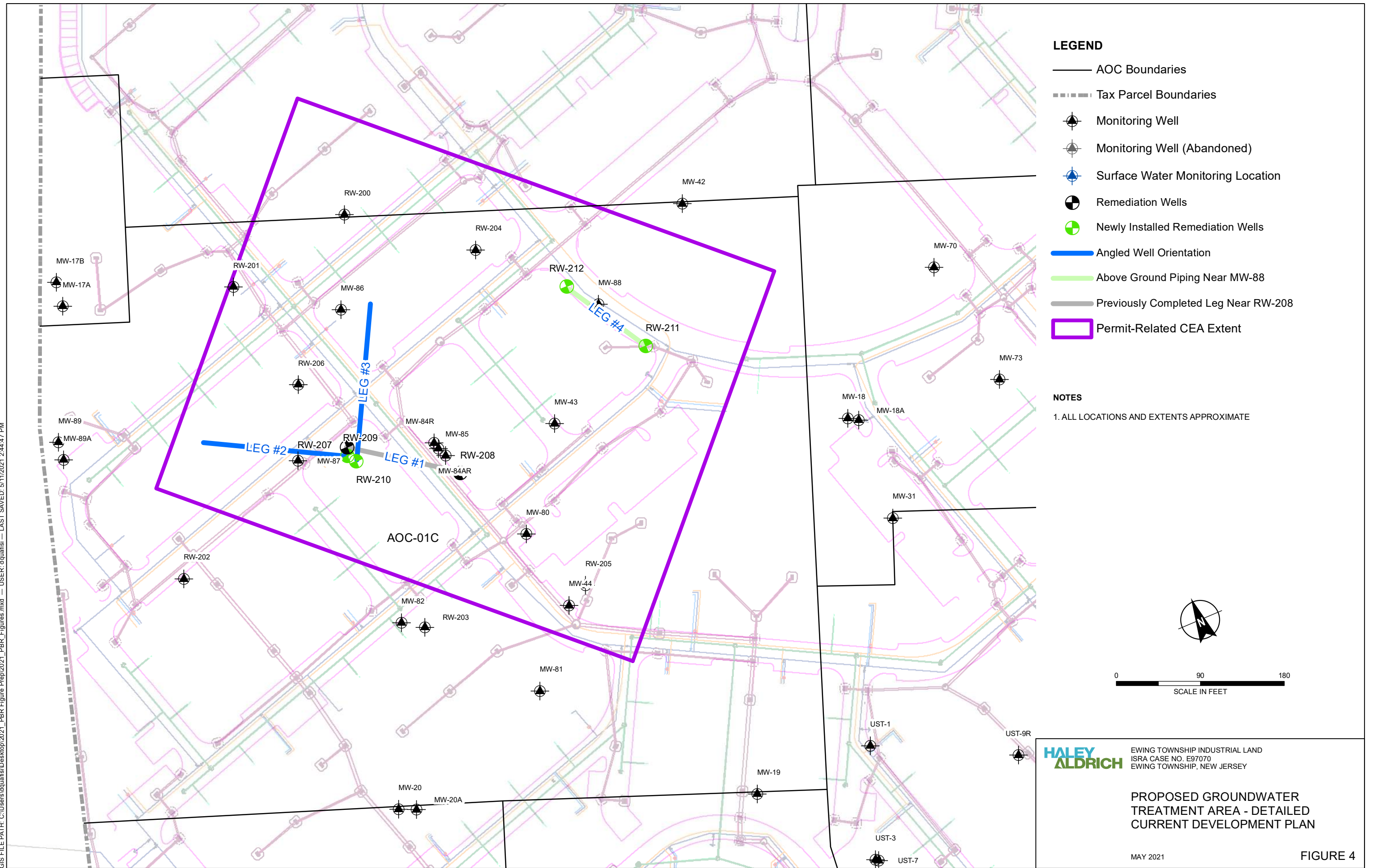
GROUNDWATER ANALYTICAL DATA BEDROCK ZONE - INORGANICS & SVOCs FORMER BUILDING

SCALE: AS SHOWN
APRIL 2021

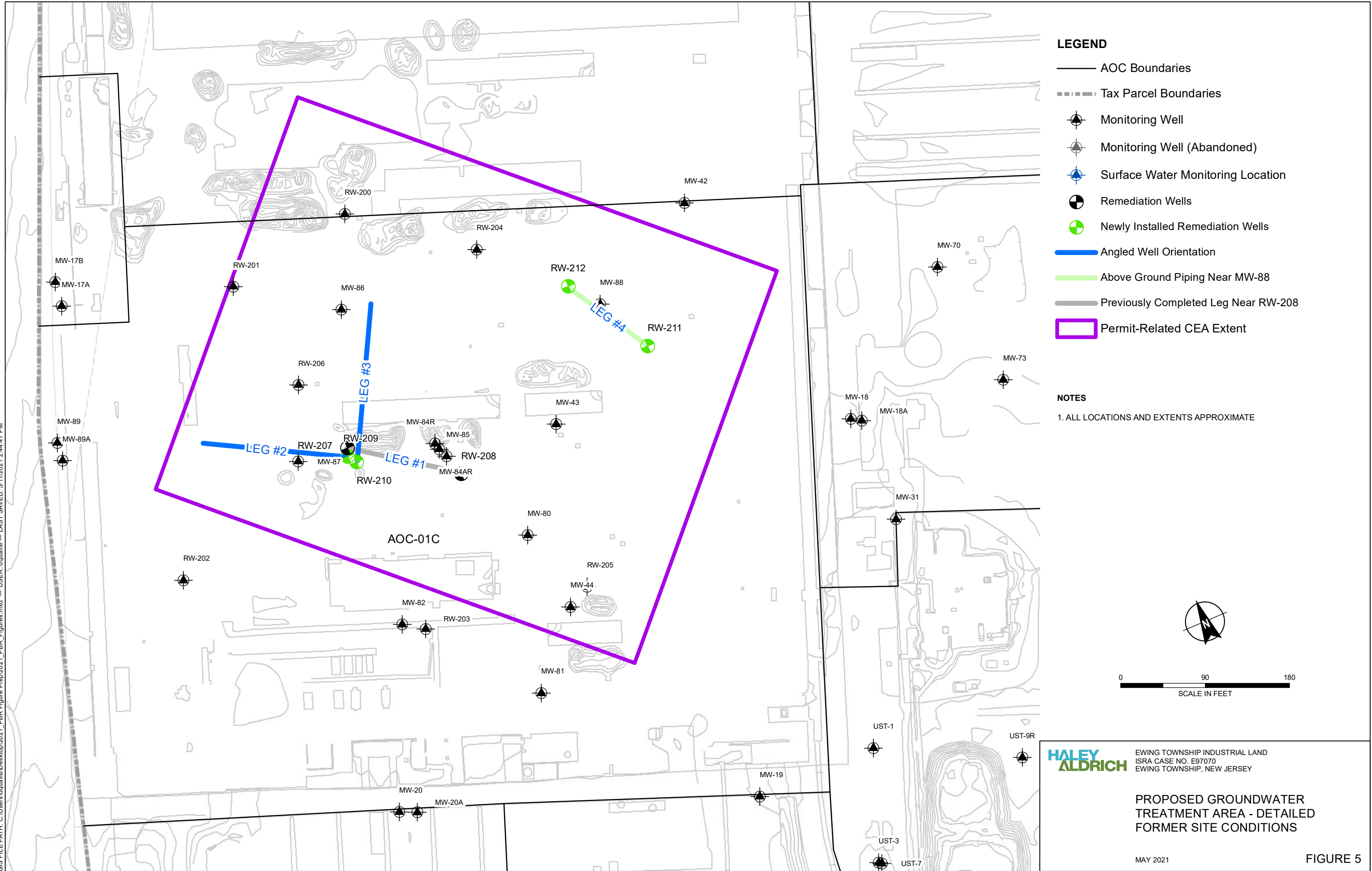
FIGURE 3F



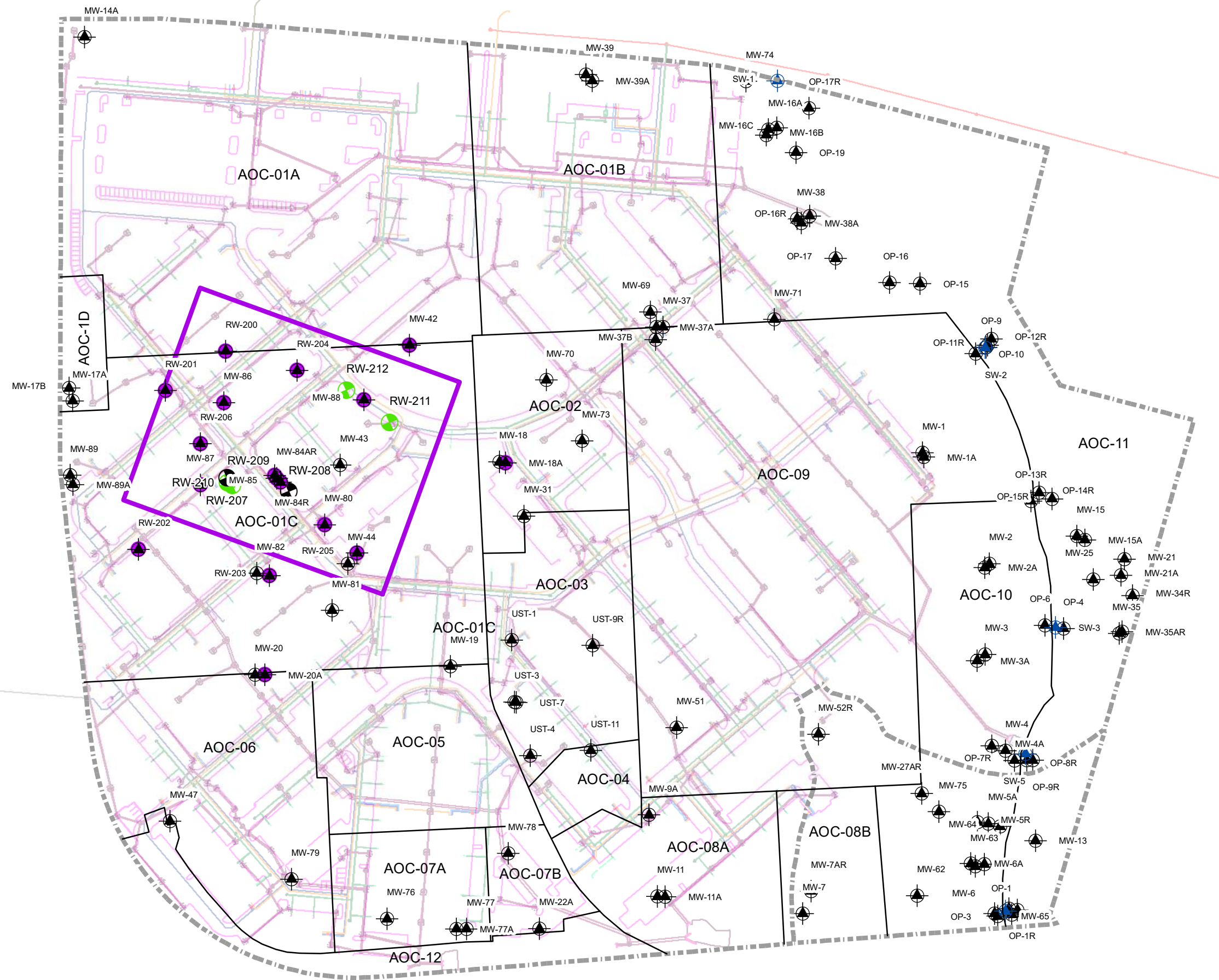
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GIS FILE PATH: C:\Users\dqualisi\Desktop\2021_PBR Figure Prep\2021_PBR_Figures.mxd — USER: dqualisi — LAST SAVED: 5/11/2021 2:44:47 PM



GIS FILE PATH: C:\Users\dqualisi\Desktop\2021_PBR Figure Prep\2021_PBR_Figures.mxd — USER: dqualisi — LAST SAVED: 5/28/2021 9:59:34 AM



LEGEND

- AOC Boundaries
- - - Tax Parcel Boundaries
- Monitoring Well
- Monitoring Well (Abandoned)
- Surface Water Monitoring Location
- Remediation Wells
- Newly Installed Remediation Wells
- Performance Monitoring Wells; MW-42
- Permit-Related CEA Extent

NOTES

1. ALL LOCATIONS AND EXTENTS APPROXIMATE

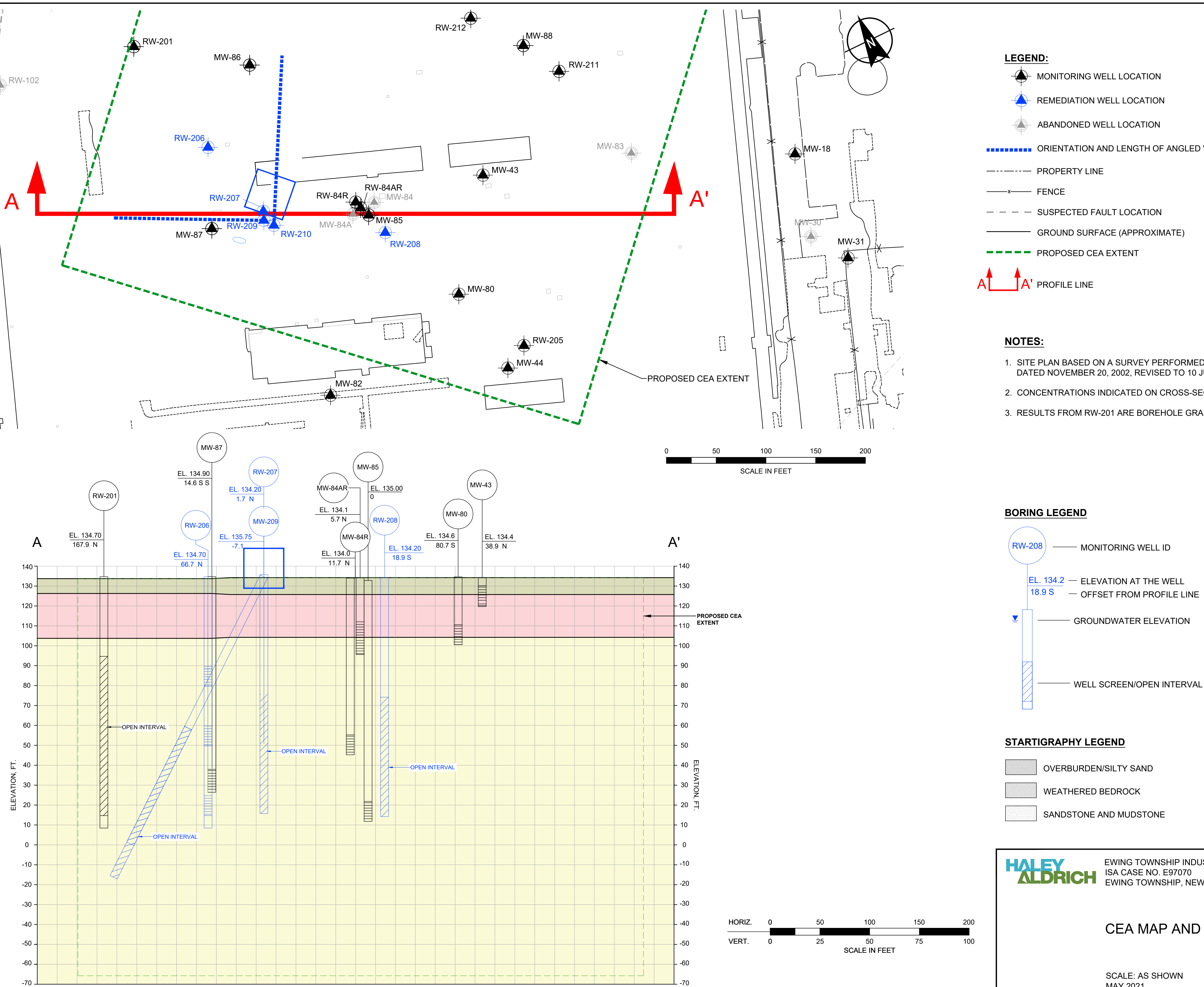
HALEY
ALDRICH

EWING TOWNSHIP INDUSTRIAL LAND
ISRA CASE NO. E97070
EWING TOWNSHIP, NEW JERSEY

**SITE PLAN WITH PERFORMANCE
MONITORING WELLS**

MAY 2021

FIGURE 6

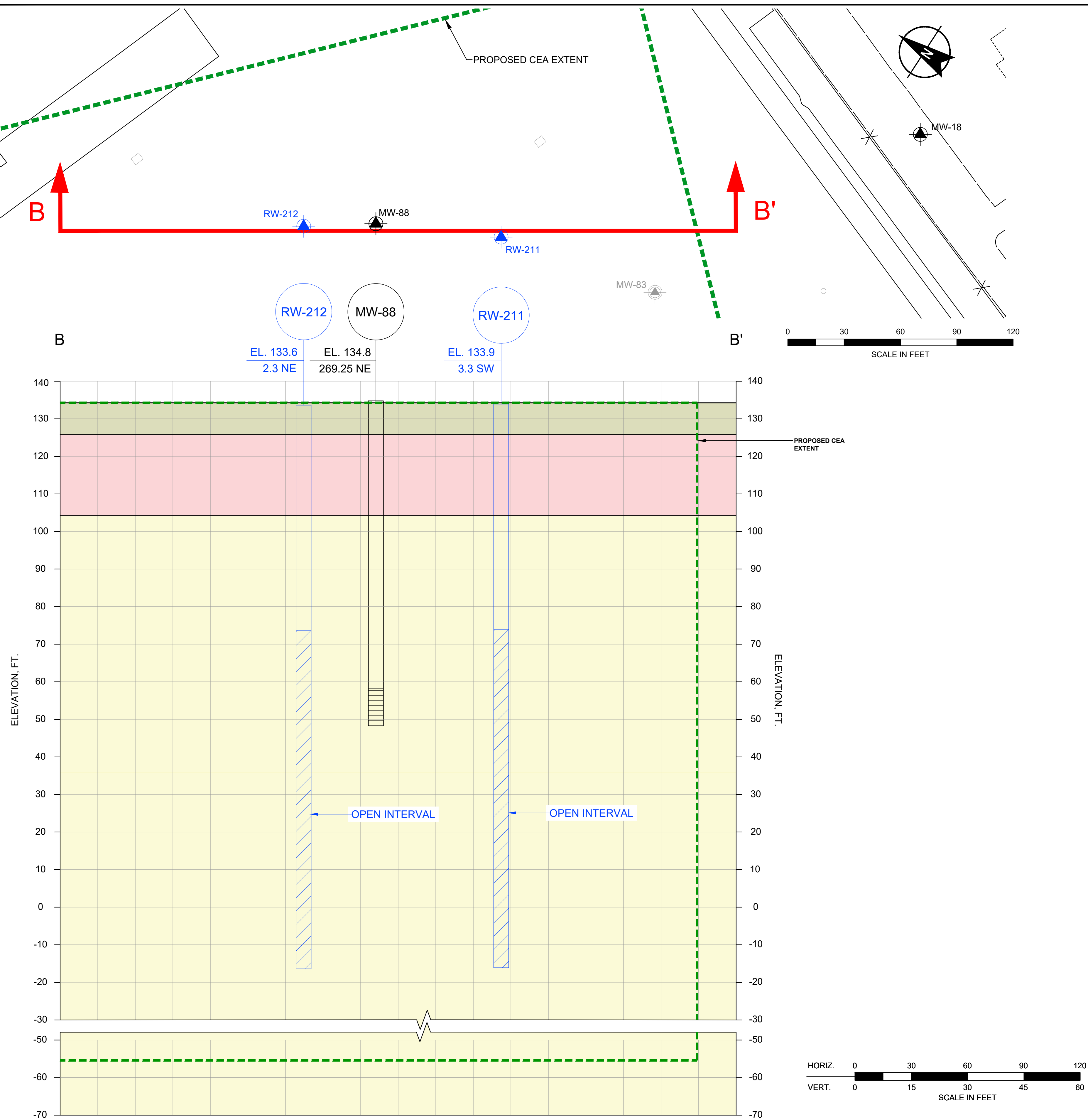


HALEY ALDRICH EWING TOWNSHIP INDUSTRIAL LAND
ISA CASE NO. E97070
EWING TOWNSHIP, NEW JERSEY

CEA MAP AND CROSS SECTION A-A'

SCALE: AS SHOWN
MAY 2021

FIGURE 7



- LEGEND:**
- MONITORING WELL LOCATION
 - REMEDIAION WELL LOCATION
 - ABANDONED WELL LOCATION
 - PROPERTY LINE
 - FENCE
 - SUSPECTED FAULT LOCATION
 - GROUND SURFACE (APPROXIMATE)
 - PROPOSED CEA EXTENT
- B B' CROSS SECTION LINE**

- NOTES:**
- SITE PLAN BASED ON A SURVEY PERFORMED BY GERALD G. DEGROAT, LS, DATED NOVEMBER 20, 2002, REVISED TO 10 JULY 2015.
 - CONCENTRATIONS INDICATED ON CROSS-SECTION ARE TCE IN ug/L.
 - RESULTS FROM RW-201 ARE BOREHOLE GRAB SAMPLES.

- BORING LEGEND**
- MONITORING WELL ID
 - ELEVATION AT THE WELL
 - OFFSET FROM PROFILE LINE
 - GROUNDWATER ELEVATION
 - WELL SCREEN/OPEN INTERVAL

- STARTIGRAPHY LEGEND**
- OVERBURDEN/SILTY SAND
 - WEATHERED BEDROCK
 - SANDSTONE AND MUDSTONE

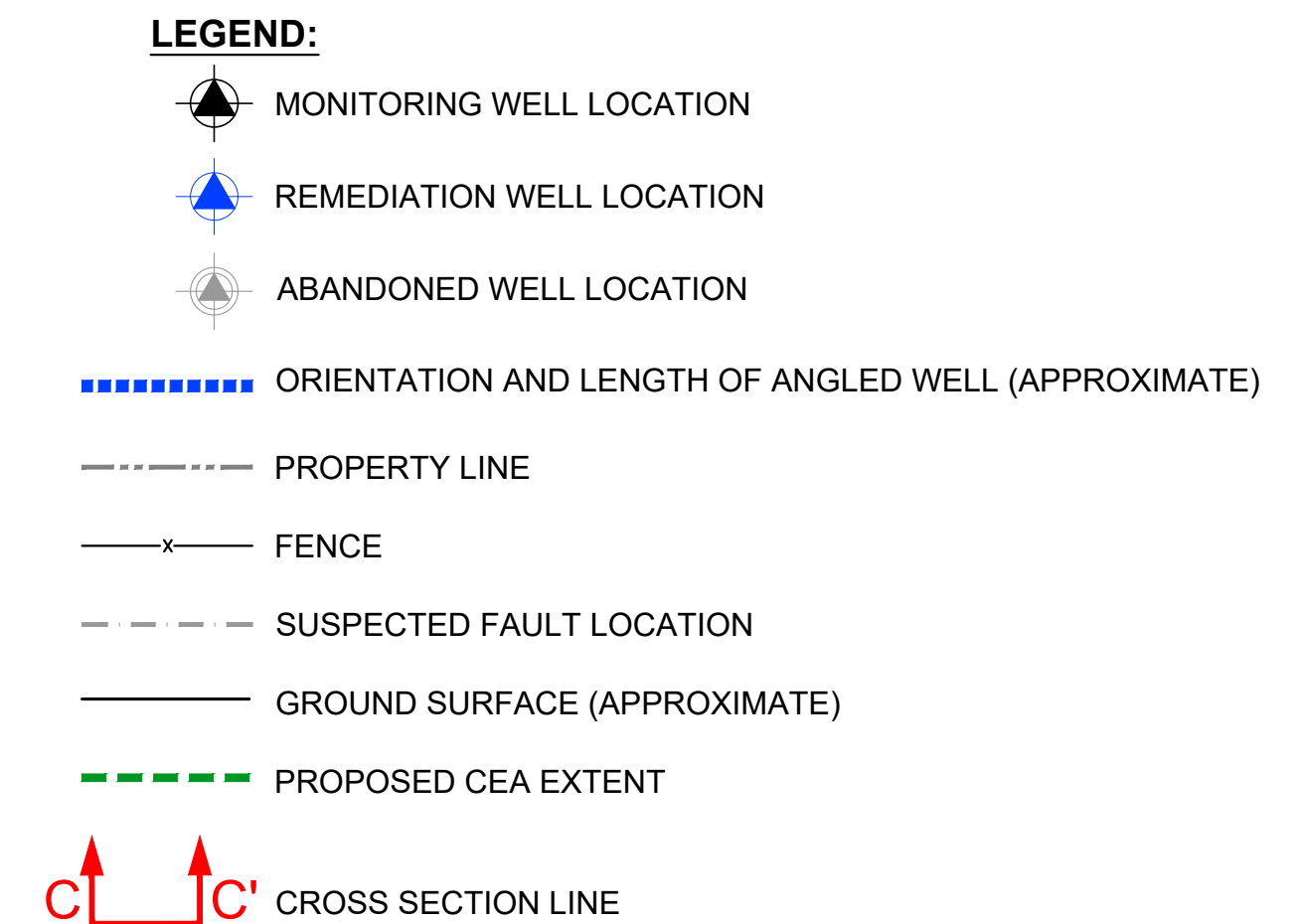
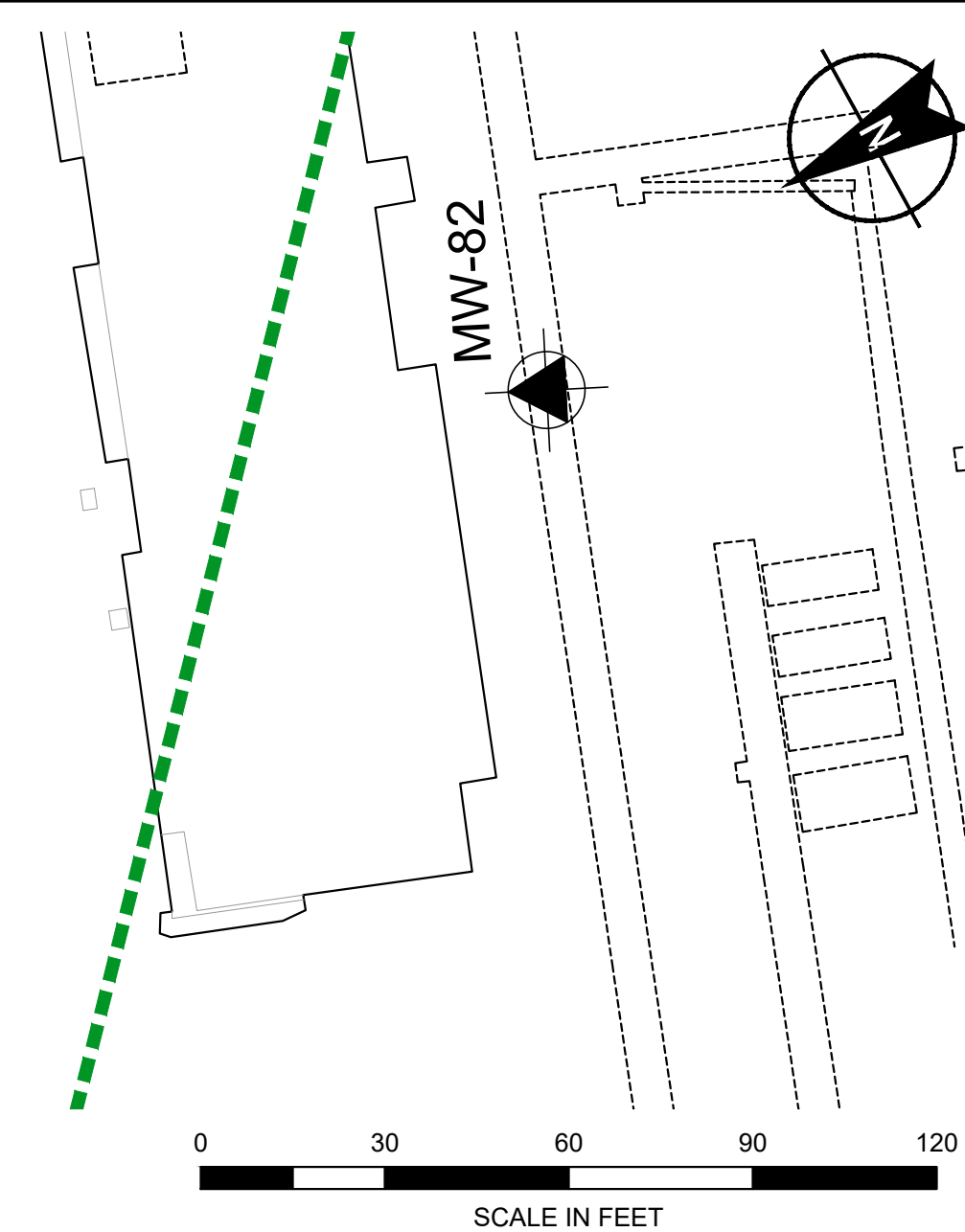
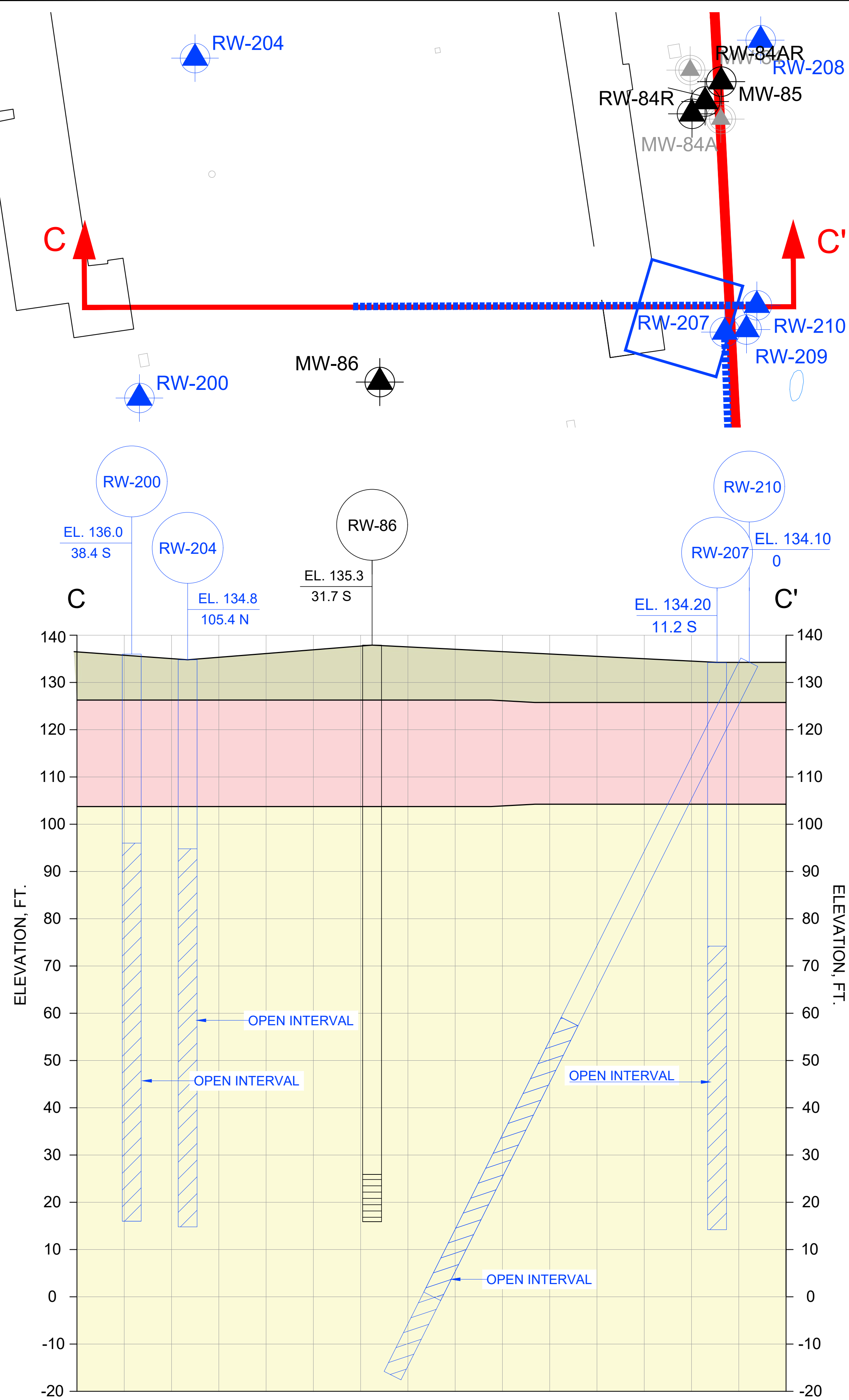


EWING TOWNSHIP INDUSTRIAL LAND
ISA CASE NO. E97070
EWING TOWNSHIP, NEW JERSEY

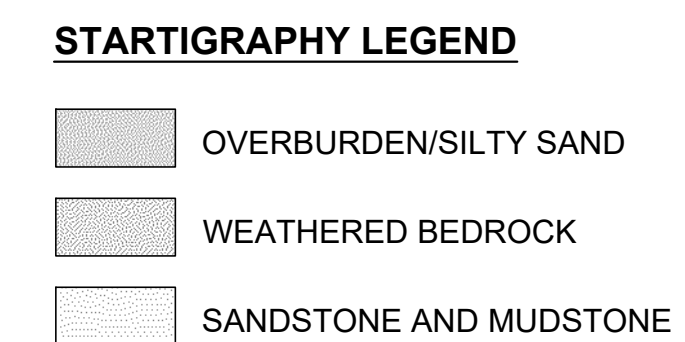
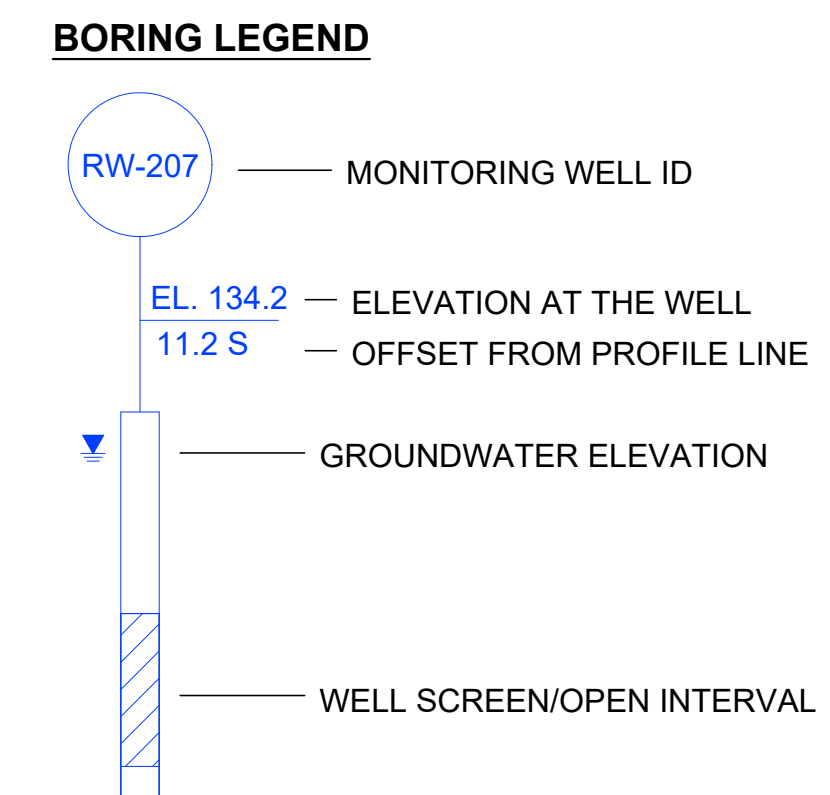
CEA MAP AND CROSS SECTION B-B'

SCALE: AS SHOWN
MAY 2021

FIGURE 8



- NOTES:**
- SITE PLAN BASED ON A SURVEY PERFORMED BY GERALD G. DEGROAT, LS, DATED NOVEMBER 20, 2002, REVISED TO 10 JULY 2015.
 - CONCENTRATIONS INDICATED ON CROSS-SECTION ARE TCE IN ug/L.
 - RESULTS FROM RW-201 ARE BOREHOLE GRAB SAMPLES.



HALEY ALDRICH EWING TOWNSHIP INDUSTRIAL LAND
ISA CASE NO. E97070
EWING TOWNSHIP, NEW JERSEY

CEA MAP AND CROSS SECTION C-C'

SCALE: AS SHOWN
MAY 2021

FIGURE 9

APPENDIX A

NJDEP Case Inventory Document

Case Name

Ewing Township Industrial Land

PI #:

011336

Activity #:

LSR110001

IMPORTANT: 1) The CID must be **FINALIZED** prior to upload. After the CID has been populated, click the Validate for Upload button and follow the instructions.
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Case Inventory Document Version 1.5.1 02/04/21

AOC ID	AOC Type	AOC Description	Confirmed Contamination	Exclude AOC from Billing	AOC Status Achieved	Status Achieved Date	Incident Communication Center #s Managed in Case	NJDEP ID	Contaminated Media	Contaminants of Concern	Additional Contaminants of Concern	Additional Contaminants of Concern
AOC-01A	Storage tank and appurtenance - State or Federal Regulated underground storage tank	Manufacturing Building (North)	Yes		RA	06/15/2018	08-04-08-1326-08		Mixed Media	VO + PAHs	Metals + PCBs	Other
AOC-01B	Other areas of concern - Any area suspected of containing contaminants	East Parking Lot	Yes		RA	06/15/2018			Mixed Media	VO + PAHs	Metals	
AOC-01C	Storage tank and appurtenance - State or Federal Regulated underground storage tank	Manufacturing Building (South)	Yes		RAW	07/08/2021	08-04-10-1241-12		Mixed Media	VO + BN	Metals + PCBs	Other

Case Name

Ewing Township Industrial Land

PI #:

011336

Activity #:

LSR110001

Case Inventory Document Version 1.5.1 02/04/21

AOC ID	AOC Type	Applicable Remediation Standard	Exposure Route	Additional Exposure Route	RA Type	Additional RA Type	Was an Order of Magnitude Evaluation Conducted?	Activity
AOC-01A	Storage tank and appurtenance - State or Federal Regulated underground storage tank	Remediation Standards	Ingestion/Dermal	Ground Water	Excavation		Yes	Soil contamination related to former manufacturing processes and Diffuse Anthropogenic Pollution (DAP) adjacent to Parkway Avenue. A 3,300-gallon waste oil UST (E004) located on the west side of the Manufacturing Building was abandoned in place in 1988. A 1,000-gallon gasoline UST (E006) located off the northeastern corner of the Manufacturing Building was removed in April 2008. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-01B	Other areas of concern - Any area suspected of containing contaminants	Remediation Standards	Ingestion/Dermal	Ground Water			Yes	Manufacturing processes and support activities were never conducted in this area. Soil contamination related DAP adjacent to Parkway Avenue. The nature and extent of contamination is known in this area.
AOC-01C	Storage tank and appurtenance - State or Federal Regulated underground storage tank	Remediation Standards	Ingestion/Dermal	Ground Water	Excavation	Bioremediation	Yes	Soil contamination related to former manufacturing processes. A 10,000-gallon gasoline UST (E005) located beneath the Solutions Storage Room was removed in April 2008. Targeted hot spot excavation activities were conducted in 2013 at former Plater Pit #5 for elevated levels of organic compounds and at former Plater Pit #6 for elevated levels of hexavalent chromium. Additional targeted hot spot excavation activities were conducted in 2018 for elevated levels of TCE, chromium, nickel, and arsenic. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going. Groundwater recirculation and amendment injections were completed in 2019 and 2020 to facilitate enhanced reductive dechlorination. Additional recirculation and amendment injections are proposed in this 2021 RAW.

Case Name

Ewing Township Industrial Land

PI #:

011336

Activity #:

LSR110001

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Case Inventory Document Version 1.5.1 02/04/21

AOC ID	AOC Type	AOC Description	Confirmed Contamination	Exclude AOC from Billing	AOC Status Achieved	Status Achieved Date	Incident Communication Center #s Managed in Case	NJDEP ID	Contaminated Media	Contaminants of Concern	Additional Contaminants of Concern	Additional Contaminants of Concern
AOC-01D	Other areas of concern - Any area suspected of containing contaminants	Manufacturing Building (West)	Yes		RA	06/15/2018			Mixed Media	VO + PAHs	Metals	
AOC-02	Storage tank and appurtenance - Above ground storage tank	Above Ground Storage Tank Area/Primary Switch House	Yes		RA	06/15/2018			Mixed Media	VO + PAHs	Metals + PCBs	
AOC-03	Storage tank and appurtenance - State or Federal Regulated underground storage tank	Powerhouse and Fuel Storage	Yes		RA	06/15/2018			Mixed Media	VO + BN	Metals	

Case Name

Ewing Township Industrial Land

PI #:

011336

Activity #:

LSR110001

Case Inventory Document Version 1.5.1 02/04/21

AOC ID	AOC Type	Applicable Remediation Standard	Exposure Route	Additional Exposure Route	RA Type	Additional RA Type	Was an Order of Magnitude Evaluation Conducted?	Activity
AOC-01D	Other areas of concern - Any area suspected of containing contaminants	Remediation Standards	Ingestion/Dermal	Ground Water	Other		Yes	A measurable amount of LNAPL (0.13 ft) was observed in August 2012 in recovery well RW-101. Multiple lines of evidence indicate a final remedy for LNAPL has been accomplished. LNAPL has been delineated within through the combined use of recovery wells and test pits. In addition, only a small amount of LNAPL (approximately 3.0-gallons) was able to be recovered from the test pits and recovery wells using absorbent socks and booms. Groundwater analytical data indicate that LNAPL did not adversely affect groundwater quality. Finally, no measurable LNAPL was observed in either the recovery wells or test pits since November 2013. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-02	Storage tank and appurtenance - Above ground storage tank	Remediation Standards	Ingestion/Dermal	Ground Water	Excavation		Yes	Soil contamination related to four ASTs and the primary switch house. The ASTs included a 5,000-gallon paint thinner AST, a 4,000-gallon solvent AST for the storage of Aromatic 100 solvent, a 400,000-gallon water AST, and a liquid propane AST. The primary switch house consisted of three transformers. A discharge of transformer oil occurred during facility demolition between 2000 and 2002. Approximately 300 cubic yards of PCB contaminated soil was removed as Toxic Substance Control Act (TSCA) waste in 2004/2005. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-03	Storage tank and appurtenance - State or Federal Regulated underground storage tank	Remediation Standards	Ingestion/Dermal	Ground Water	Excavation		Yes	Soil contamination related to the former powerhouse, ASTs, and USTs. The powerhouse originally contained three coal-powered steam boilers. This AOC contained three ASTs including a 500,000-gallon No. 6 fuel oil tank and two 30,000-gallon No. 6 fuel oil tanks. Three USTs were also located in AOC-03 including a 4000-gallon leaded gasoline UST (E007) removed in 1987, a 2,000-gallon unleaded gasoline UST (E001) removed in 1989, and a 2,500-gallon paint UST (A003) removed in 1989. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.

Case Name

Ewing Township Industrial Land

PI #:

011336

Activity #:

LSR110001

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Case Inventory Document Version 1.5.1 02/04/21

AOC ID	AOC Type	AOC Description	Confirmed Contamination	Exclude AOC from Billing	AOC Status Achieved	Status Achieved Date	Incident Communication Center #s Managed in Case	NJDEP ID	Contaminated Media	Contaminants of Concern	Additional Contaminants of Concern	Additional Contaminants of Concern
AOC-04	Other areas of concern - Hazardous substance storage or handling area	Process Waste and Hazardous Waste Staging Area	Yes		RA	06/15/2018			Mixed Media	VO + PAHs	Metals + PCBs	
AOC-05	Storage and staging area - Storage pad and area	Raw Materials Storage and Maintenance Area	Yes		RA	06/15/2018			Mixed Media	VO + PCBs	Metals	
AOC-06	Storage and staging area - Storage pad and area	South Parking Lot/Paint Storage Building and Maintenance Garage	Yes		RA	06/15/2018			Mixed Media	VO+ Metals		
AOC-07A	Other areas of concern - Any area suspected of containing contaminants	Die Cast Storage Area, Former Raw Materials Storage Area	Yes		RA	06/15/2018			Mixed Media	VO + PAHs	Metals	

Case Name

Ewing Township Industrial Land

PI #:

011336

Activity #:

LSR110001

Case Inventory Document Version 1.5.1 02/04/21

AOC ID	AOC Type	Applicable Remediation Standard	Exposure Route	Additional Exposure Route	RA Type	Additional RA Type	Was an Order of Magnitude Evaluation Conducted?	Activity
AOC-04	Other areas of concern - Hazardous substance storage or handling area	Remediation Standards	Ingestion/Dermal	Ground Water			Yes	Soil contamination related to the former process waste and hazardous waste staging area. A concrete pad was originally used and a bermed concrete secondary containment system was later constructed. A catch basin located in the southeast corner of the containment discharged runoff to the wastewater treatment system. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-05	Storage and staging area - Storage pad and area	Remediation Standards	Ingestion/Dermal	Ground Water			Yes	Soil contamination related to the storage and maintenance building, originally used as a salvage and storage area and later included forklift and machine press repair, light equipment maintenance, electronics and pipe fitting shops, welding and sheet metal shops, inventory storage, a shipping/receiving area and a raw materials drum storage area. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-06	Storage and staging area - Storage pad and area	Remediation Standards	Ingestion/Dermal	Ground Water			Yes	Soil contamination related to the paint storage area and a vehicle maintenance garage. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-07A	Other areas of concern - Any area suspected of containing contaminants	Remediation Standards	Ingestion/Dermal	Ground Water	Excavation		Yes	Soil contamination related to the former die storage area and the former raw materials drum storage area, a concrete pad where drums were stored prior to use. Targeted hot spot excavation activities were conducted in 2018 for elevated levels of arsenic. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.

Case Name

Ewing Township Industrial Land

PI #:

011336

Activity #:

LSR110001

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Case Inventory Document Version 1.5.1 02/04/21

AOC ID	AOC Type	AOC Description	Confirmed Contamination	Exclude AOC from Billing	AOC Status Achieved	Status Achieved Date	Incident Communication Center #s Managed in Case	NJDEP ID	Contaminated Media	Contaminants of Concern	Additional Contaminants of Concern	Additional Contaminants of Concern
AOC-07B	Storage and staging area - Surface impoundment and lagoon	Former Sludge Drying Bed No. 5	Yes		RA	06/15/2018			Mixed Media	VO + PAHs	Metals + PCBs	Other
AOC-08A	Storage tank and appurtenance - State or Federal Regulated underground storage tank	Wastewater Treatment Plant Area: 11,000-Gallon Waste Oil AST, Former Incinerators, Southern Drainage Swale (East)	Yes		RA	06/15/2018			Mixed Media	VO + BN	Metals + PCBs	Other
AOC-08B	Discharge and disposal area - Waste water treatment systems/septic/seepage pit/dry well	Wastewater Treatment Plant Area: Former Sludge Settling Tanks and Neutralization Tanks, Southern Drainage Swale (East)	Yes		RA	06/15/2018			Mixed Media	VO + BN	Metals + PCBs	Other
AOC-09	Other areas of concern - Any area suspected of containing contaminants	Powerhouse Parking Lot and Equipment Storage Area	Yes		RA	06/15/2018			Mixed Media	VO + BN	Metals + PCBs	Other

Case Name

Ewing Township Industrial Land

PI #:

011336

Activity #:

LSR110001

Case Inventory Document Version 1.5.1 02/04/21

AOC ID	AOC Type	Applicable Remediation Standard	Exposure Route	Additional Exposure Route	RA Type	Additional RA Type	Was an Order of Magnitude Evaluation Conducted?	Activity
AOC-07B	Storage and staging area - Surface impoundment and lagoon	Remediation Standards	Ingestion/Dermal	Ground Water	Excavation		Yes	Soil contamination related to sludge generated during the wastewater treatment process dewatered in the asphalt-lined sludge drying bed and eventually disposed of off-site. Targeted hot spot excavation activities were conducted in 2018 for elevated levels of chromium. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-08A	Storage tank and appurtenance - State or Federal Regulated underground storage tank	Remediation Standards	Ingestion/Dermal	Ground Water	Excavation		Yes	Soil contamination related to the wastewater treatment building, process sewer structures, and the former trash incinerator. Oil/water separators, waste oil AST, and a 30,000-gallon waste oil UST (E002) removed in 1997 were also present as well as a transformer substation. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-08B	Discharge and disposal area - Waste water treatment systems/septic/seepage pit/dry well	Remediation Standards	Ingestion/Dermal	Ground Water	Excavation		Yes	Soil contamination related to the wastewater treatment building, neutralization tanks, and sludge settling tanks. Targeted hot spot excavation activities were conducted in 2018 for elevated levels of TCE and lead. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-09	Other areas of concern - Any area suspected of containing contaminants	Remediation Standards	Ingestion/Dermal	Ground Water	Excavation		Yes	Targeted hot spot excavation activities were conducted in 2013 for elevated levels of PCBs. AddiSoil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going. The nature and extent of contamination is known in this area.

Case Name

Ewing Township Industrial Land

PI #:

011336

Activity #:

LSR110001

IMPORTANT: 1) The CID must be **FINALIZED** prior to upload. After the CID has been populated, click the Validate for Upload button and follow the instructions.
2) You **MUST SAVE** after finalizing, and before upload. Click the Enable for Editing button after uploading to edit again.

Case Inventory Document Version 1.5.1 02/04/21

AOC ID	AOC Type	AOC Description	Confirmed Contamination	Exclude AOC from Billing	AOC Status Achieved	Status Achieved Date	Incident Communication Center #s Managed in Case	NJDEP ID	Contaminated Media	Contaminants of Concern	Additional Contaminants of Concern	Additional Contaminants of Concern
AOC-10	Storage and staging area - Surface impoundment and lagoon	Former Sludge Drying Beds Nos. 1 through 4, Southern Drainage Swale (East)	Yes		RA	06/15/2018			Mixed Media	VO + BN	Metals + PCBs	Other
AOC-11	Drainage system and area - Storm water detention pond and fire pond	Former Gold Run Pond and Undeveloped Area	Yes		RA	06/15/2018			Mixed Media	VO + PAHs	Metals + PCBs	
AOC-12	Drainage system and area - Drainage swale and culvert	Southern Drainage Swale (West)	Yes		RA	06/15/2018			Mixed Media	VO + PAHs	Metals	
Off-Site	Discharge and disposal area - Historic fill material area/other fill area	Parkway Avenue, and CSX Property and Historic Fill	Yes		RA	06/15/2018			Soil	VO + PAHs	Metals	

Case Name

Ewing Township Industrial Land

PI #:

011336

Activity #:

LSR110001

Case Inventory Document Version 1.5.1 02/04/21

AOC ID	AOC Type	Applicable Remediation Standard	Exposure Route	Additional Exposure Route	RA Type	Additional RA Type	Was an Order of Magnitude Evaluation Conducted?	Activity
AOC-10	Storage and staging area - Surface impoundment and lagoon	Remediation Standards	Ingestion/Dermal	Ground Water	Excavation		Yes	Soil contamination related to stored and dewatered sludge from wastewater treatment operations. Targeted hot spot excavation activities were conducted in 2018 for elevated levels of chromium, lead, and nickel. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-11	Drainage system and area - Storm water detention pond and fire pond	Remediation Standards	Ingestion/Dermal	Sediment	Excavation		Yes	Soil contamination related DAP adjacent to Parkway Avenue. In 1996, 98 55-gallon drums of containing barium chromate waste were excavated from the undeveloped land located along eastern edge of the site. Gold Run Pond was constructed in the 1950s as a fire water retention pond. Contaminated sediment from upstream sources was removed to bedrock in 2011 and associated wetland areas were restored. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-12	Drainage system and area - Drainage swale and culvert	Remediation Standards	Ingestion/Dermal	Ground Water	Excavation		Yes	The nature and extent of contamination in sediment/wetland soil is known. The Southern Drainage Swale is a narrow storm water drainage feature created historically by the elevation of the railroad siding to the south and the filling of the site to the north. Contaminated sediment in the western portion of the Southern Drainage Swale was removed in 2011 and associated wetland areas were restored. Targeted hot spot excavation activities were conducted in 2018 for elevated levels of arsenic. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
Off-Site	Discharge and disposal area - Historic fill material area/other fill area	Remediation Standards	Ingestion/Dermal				Yes	Soil contamination related to the Parkway Avenue, and CSX property and mapped NJDEP Historic Fill. The nature and extent of contamination is known in this area.

APPENDIX B

NJDEP Forms



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

**AUTHORIZATION TO SUBMIT A REPORT / FORM THROUGH
NJDEP ONLINE**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Ewing Township Industrial Land

Street Address: Former Delphi Lighting & Systems Division, GM Trenton, Turnstead Division of GM, Fisher Body Division

Municipality: Ewing Township (Township, Borough or City)

County: Mercer Zip Code: 08628

Program Interest (PI) Number(s): 011336

SECTION B. STATEMENT OF AUTHORIZATION TO SUBMIT A REPORT / FORM

I authorize the Licensed Site Remediation Professional, retained for this site pursuant to the Brownfield and Contaminated Site Remediation Act at N.J.S.A. 58:10B-1.3b, and named below to submit the report/form listed below for the Program Interest Number noted above. I understand that I am assuming full responsibility that the information provided in the remedial phase report is true, accurate, and complete.

Type of Report / Form submitted: (check one box only)

☐ PA ☐ PA/SI ☐ SI ☐ RI ☒ RAW ☐ RAR

Name and Date of Report: 2021 Remedial Action Workplan

☐ Public Notice Form

Authorized Licensed Site Remediation Professional (LSRP)

First Name: Amy

Last Name: Murphy

LSRP License #: 586486

SECTION C. CERTIFICATION BY THE PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION

Full Name of Person Responsible for Conducting the Remediation: Revitalizing Auto Communities Environmental Response Trust

Representative First Name: Robert Representative Last Name: Hare

Mailing Address: 1505 Woodward Avenue, Suite 200

Municipality: Detroit State: Michigan Zip Code: 48226

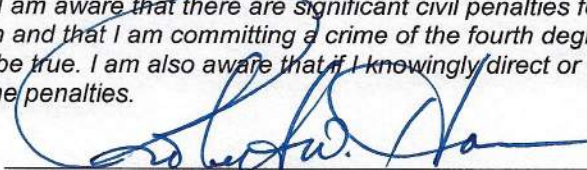
Telephone Number: (313) 486-2908

Ext.: _____ Fax: _____

Email Address: rhare@racertrust.org

This certification shall be signed by the person responsible for conducting the remediation who is submitting this Authorization and Report in accordance with the Administrative Requirements for the Remediation of Contaminated Sites 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: 7-6-2021

Name/Title: Robert W. Hare, P.E., Cleanup Manager



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

COVER/CERTIFICATION FORM

(Submit with Remedial Phase Report, Receptor Evaluation, and CEA Forms)

Date Stamp
(For Department use only)

SECTION A. SITE INFORMATION

Site Name: Ewing Township Industrial Land

AKAs: Former Delphi Lighting & Systems Division, GM Trenton, Turnstead Division of GM, Fisher Body Division

Street Address: 1445 Parkway Avenue

Municipality: Ewing Township (Township, Borough or City)

County: Mercer Zip Code: 08650

Program Interest (PI) Number(s): 011336

Case Tracking Number(s) for this submission: E97070

Date Remediation Initiated Pursuant to N.J.A.C. 7:26C-2: 06/01/1986

State Plane Coordinates for a central location at the site: Easting: 406150.61 Northing: 521115.63

List current Municipal Block and Lot Numbers of the Site:

Block # <u>343</u>	Lot #(s) <u>1.01</u>	Block # _____	Lot #(s) _____
Block # <u>343</u>	Lot #(s) <u>1.03</u>	Block # _____	Lot #(s) _____
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____

SECTION B. SUBMISSION STATUS

1. Indicate how the Electronic Data Deliverable (EDD) for this submission is being provided to the NJDEP:

- ☒ Via Email at srpedd@dep.nj.gov (attach NJDEP confirmation email); or
☐ CD (attach to this submission)
☐ Not Applicable – No EDD

2. Complete the following Submission and Permit Status Table:

Remedial Phase Documents	N/A	Included in this Submission	Previously Submitted	Date of Submission	Date of Revised Submission	Date of Previous NJDEP Approval	Date of Document Withdrawal
Preliminary Assessment Report	☐	☐	☒	05/01/1996			
Site Investigation Report	☐	☐	☒	05/01/1996			
Remedial Investigation Report	☐	☐	☒	06/19/2014	05/06/2016		
Remedial Action Work Plan	☐	☒	☒	07/08/2021			
Remedial Action Report	☐	☐	☒	06/15/2018			
Response Action Outcome	☐	☐	☒	06/21/2018			
Other Submissions							
Alternative Soil Remediation Standard and/or Screening level Application Form	☐	☐	☒	06/15/2018			
Case Inventory Document		☒		07/08/2021			
Classification Exception Area / Well Restriction Area (CEA/WRA)	☐	☐	☒	05/06/2016			
Discharge to Ground Water Permit by Rule Authorization Request	☐	☐	☒	05/28/2021		07/08/2021	

IEC Engineered System Response Action Report	☒	☐	☐				
Immediate Environmental Concern Report	☒	☐	☐				
LNAPL Interim Remedial Measure Report	☐	☐	☒	03/19/2014			
Public Notification	☐	☐	☒	08/28/2009	01/22/2013		
Receptor Evaluation	☐	☐	☒	04/28/2011	06/15/2018		
Technical Impracticability Determination	☒	☐	☐				
Vapor Concern Mitigation Report	☒	☐	☐				
Permit Application – list:	☐						
Flood Hazard Area Individual Permit		☐	☒	07/11/2011			07/10/2016
Freshwater Wetlands General Permit		☐	☒	07/11/2011			07/10/2016
Soil Remedial Action Permit RAP160001		☐	☒	10/19/2016		11/01/2016	
		☐	☐				
Radionuclide Remedial Action Report	☒	☐	☐				
Radionuclide Remedial Action Workplan	☒	☐	☐				
Radionuclide Remedial Investigation Report	☒	☐	☐				
Radionuclide Remedial Investigation Workplan	☒	☐	☐				

SECTION C. SITE USE

Current Site Use: (check all that apply)

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

Intended Future Site Use, if known: (check all that apply)

- ☐ Industrial ☐ Park or recreational use
☒ Residential ☐ Vacant
☒ Commercial ☐ Government
☐ School or child care ☐ Future site use unknown
☐ Other: _____

SECTION D. CASE TYPE: (check all that apply)

- | | |
|--|---|
| ☐ Administrative Consent Order (ACO) | ☐ Landfill (SRP subject only) |
| ☐ Brownfield Development Area (BDA) | ☒ Regulated Underground Storage Tank (UST) |
| ☐ Child Care Facility | ☐ Remediation Agreement (RA)/Remediation Certification |
| ☐ Chrome Site (Chromate chemical production waste) | ☐ School Development Authority (SDA) |
| ☐ Coal Gas | ☐ School facility |
| ☐ Due Diligence with RAO | ☐ Spill Act Defense – Government Entity |
| ☐ Hazardous Discharge Remediation Fund (HDSRF) Grant/Loan | ☐ Spill Act Discharge |
| ☒ ISRA | ☐ UST Grant/Loan |
| | ☐ Other: _____ |

Federal Case (check all that apply)

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

1. Is the party conducting remediation a government entity? ☐ Yes ☒ No
 If "Yes," check one: ☐ Federal ☐ State ☐ Municipal ☐ County

SECTION E. PUBLIC FUNDS

Did the remediation utilize public funds? ☐ Yes ☒ No

If "Yes," check applicable:

- | | | |
|--------------------------------------|--|---|
| ☐ UST Grant | ☐ UST Loan | ☐ Brownfield Reimbursement Program |
| ☐ HDSRF Grant | ☐ HDSRF Loan | ☐ Landfill Reimbursement Program |
| ☐ Spill Fund | ☐ Schools Development Authority | ☐ Environmental Infrastructure Trust |

SECTION F. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 586486

First Name: Amy Last Name: Murphy

Phone Numbers: (973) 263-3900

Ext.: _____

Fax: _____

Mailing Address: 299 Cherry Hill Road, Suite 303

Municipality: Parsippany

State: New Jersey

Zip Code: 07054

Email Address: amurphy@haleyaldrich.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: 7/8/2021

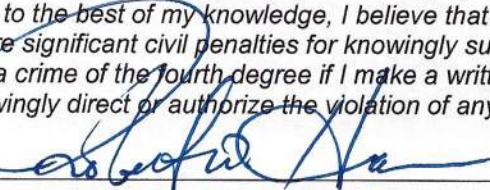
LSRP Name: Amy K. Murphy

Company Name: Haley & Aldrich, Inc.

SECTION G. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATIONFull Legal Name of the Person Responsible for Conducting the Remediation: Revitalizing Auto Communities Environmental Response TrustRepresentative First Name: Robert Representative Last Name: HareTitle: Cleanup ManagerPhone Number: (313) 486-2908 Ext.: _____ FAX: _____Mailing Address: 1505 Woodward Avenue, Suite 200Municipality: Detroit State: Michigan Zip code: 48226Email Address: rhare@racertrust.org

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: 7-6-2021Name/Title: Robert W. Hare, P.E., Cleanup Manager**For CEA Submissions:**

☐ Check this box if the person above is also the property owner of the site or their representative. If this person is not the site property owner, please ensure the site property owner's name and address is in the first line of the table in Section E.2 of the Classification Exception Area / Well Restriction Area (CEAWRA) Fact Sheet Form.

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

APPENDIX C

Safety Data Sheets

SAFETY DATA SHEET

Antimethanogenic Anaerobic Biostimulant
ERD-CH4™

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ERD-CH4™
GENERAL USE: Bioremediation of halogenated organics and metals

MANUFACTURER:

Provectus Environmental Products, Inc
2871 W. Forest Rd. #2
Freeport, IL 61032
(815) 650-2230

EMERGENCY TELEPHONE:

Within USA and Canada: 1-800-424-9300
+1 703-527-3887 (collect calls accepted)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Product is generally recognized as safe. May cause irritation exposure to eyes. Long term contact to skin may cause some drying and minor irritation.

3. COMPOSITION INFORMATION ON INGREDIENTS

Proprietary mixture of fatty acids, glycerol, vegetable oil and emulsifying agent.

4. FIRST AID MEASURES

EYES: Immediately flush with water for up to 15 minutes. If irritation persists, seek medical attention.

SKIN: Rinse with water. Irritation is unlikely, but if irritation occurs or persists, seek medical attention.

INGESTION: Generally safe to ingest but not recommended.

INHALATION: No first aid required.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Deluge with water

FIRE/EXPLOSION HAZARDS: Product is combustible only at temperatures above 600C

FIRE FIGHTING PROCEDURES: Use flooding with plenty of water, carbon dioxide or other inert gasses. Wear full protective clothing and self-contained breathing apparatus. Deluging with water is the best method to control combustion of the product.

FLAMMABILITY LIMITS: non-combustible

SENSITIVITY TO IMPACT: non-sensitive

SENSITIVITY TO STATIC DISCHARGE: non-sensitive

6. ACCIDENTAL RELEASE MEASURES

Confine and collect spill. Transfer to an approved DOT container and properly dispose. Do not dispose of or rinse material into sewer, stormwater or surface water. Discharge of product to surface water could result in depressed dissolved oxygen levels and subsequent biological impacts.

7. HANDLING AND STORAGE

HANDLING: Protective gloves and safety glasses are recommended.

STORAGE: Keep dry. Use first in, first out storage system. Keep container tightly closed when not in use. Avoid contamination of opened product. Avoid contact with reducing agents.

8. EXPOSURE CONTROLS – PERSONAL PROTECTION

EXPOSURE LIMITS

Chemical Name	ACGIH	OSHA	Supplier
ERD-CH4	NA	NA	NA

ENGINEERING CONTROLS: None are required

PERSONAL PROTECTIVE EQUIPMENT

EYES and FACE: Safety glasses recommended

RESPIRATOR: none necessary

PROTECTIVE CLOTHING: None necessary

GLOVES: rubber, latex or neoprene recommended but not required

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor:	none to mild pleasant organic odor
Appearance:	milky
Auto-ignition Temperature	Non-combustible
Boiling Point	>600 C
Melting Point	NA

Density	0.90 gram/cc
Solubility	infinite
pH	7-9

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Do not contact with strong oxidizers

STABILITY: product is stable

POLYMERIZATION: will not occur

INCOMPATIBLE MATERIALS: strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS:

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

A: General Product Information

Acute exposure may cause mild skin and eye irritation.

B: Component Analysis - LD50/LC50

No information available.

B: Component Analysis - TDLo/LDLo

TDLo (Oral-Man) none

Carcinogenicity

A: General Product Information

No information available.

B: Component Carcinogenicity

Product is not listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Epidemiology

No information available.

Neurotoxicity

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Discharge to water may cause depressed dissolved oxygen and subsequent ecological stresses

Environmental Fate

No potential for food chain concentration

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Material is not considered hazardous, but consult with local, state and federal agencies prior to disposal to ensure all applicable laws are met.

14. TRANSPORT INFORMATION

NOTE: The shipping classification information in this section (Section 14) is meant as a guide to the overall classification of the product. However, transportation classifications may be subject to change with changes in package size. Consult shipper requirements under I.M.O., I.C.A.O. (I.A.T.A.) and 49 CFR to assure regulatory compliance.

US DOT Information

Shipping Name: Not Regulated

Hazard Class: Not Classified

UN/NA #: Not Classified

Packing Group: None

Required Label(s): None

50th Edition International Air Transport Association (IATA):

Not hazardous and not regulated

INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)

Material is not regulated under IMDG

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III

SECTION 311 No Hazard for Immediate health Hazard

SECTION 312 No Threshold Quantity

SECTION 313 Not listed

CERCLA NOT REGULATED UNDER CERCLA

TSCA NOT REGULATED UNDER TSCA

CANADA (WHIMS): NOT REGULATED

16. OTHER INFORMATION

HMIS:

Health	0
Flammability	0
Physical Hazard	0
Personal Protection	E

E: Safety Glasses, gloves



SAFETY DATA SHEET



1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Identifier:	Wilclear Sodium Lactate 60% Solution
Other Name(s):	sodium lactate
Recommended Use:	In-situ Bioremediation
Recommended Restrictions:	none known
Supplier Name:	JRW Bioremediation, LLC
Address:	14321 W. 96 th Terrace Lenexa, KS 66215
Telephone:	913-438-5544
EMERGENCY Telephone:	800-779-5545 x 116 (Mon-Fri 9am-5pm CST) 913-961-6644 (afterhours)

2. HAZARD IDENTIFICATION

Health & Physical Hazards:

This product contains no substances in their current physical state that are considered to be hazardous to health and has a low order of toxicity. No acute or delayed symptoms or effects have been observed.

Flammability Hazards:

This is a Non-Flammable liquid

Reactivity Hazards:

This product is considered stable. There are no known physical or chemical hazards, incompatibilities, hazardous decomposition or byproducts.

OSHA Hazards:

L

This material is not considered hazardous by OSHA. No labels or signage are known to be required.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS #	% by Weight	Hazard Classification
Sodium lactate	72-17-3	60%	none
Water	7732-18-5	40%	none

4. FIRST-AID MEASURES

Inhalation:

Inhalation of mist may cause mild irritation of respiratory system. Move to fresh air.

Skin Contact:

In case of contact with skin, immediately wash with plenty of soap and water while removing contaminated clothing. Seek medical attention if skin Irritation develops or persists.

Eye Contact:

In case of contact with eyes, immediately flush eyes with water for at least 15 minutes, lifting eyelids to facilitate irrigation. Get medical attention if necessary.

Ingestion:

If swallowed, rinse mouth. Should symptoms occur, get medical attention.

Signs and symptoms of exposure:

None determined. Treat symptomatically.

Medical Conditions aggravated by exposure:

None determined. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Water, carbon dioxide, foam, or dry chemical.

Unsuitable Extinguishing Media:

Do not use heavy water stream as it may spread or scatter.

Specific hazards from substance/mixture:

Thermal decomposition may lead to release of irritating or toxic gases and vapors.

General fire hazards:

No unusual fire or explosion hazards noted

Special protective equipment / precautions for fire-fighters:

Wear full protective clothing and positive pressure breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Methods and Materials for containment and clean up:

Contain spill with absorbent materials such as vermiculite or soil; shovel and place material in drum for disposal. Flush area with water. Surfaces may become slippery after spillage. Dispose of according to all local, state, and federal regulations at an approved waste treatment facility.

Personal precautions / Protective equipment:

Use personal protective equipment. Prevent spills, contamination, and leakage.

Environmental precautions:

No special environmental precautions required.

7. HANDLING AND STORAGE

Precautions for safe handling:

Observe good work and industrial hygiene practices. Use personal protective equipment. Avoid contact with skin, eyes, and clothing. Avoid breathing mists and vapors. Wash hands after use of this product. Do not eat, drink, or smoke while using product. Prevent spills, contamination, and leakage.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed. Keep in properly labeled containers. Store in a well ventilated, cool, dry area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:	No exposure or biological limits noted for ingredients(s).
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Appropriate engineering controls:	Use adequate mechanical ventilation, especially in confined spaces. Local exhaust is recommended. Temperatures best kept below 200 ⁰ C or 390 ⁰ F.
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Individual protection measures, such as Personal Protective Equipment (PPE):

Eye/Face protection:	Chemical goggles recommended.
Skin / hand / body protection:	Chemical resistant gloves recommended. Suitable protective clothing as defined by employer.
Respiratory protection:	None required under normal use.
General considerations:	Use good industrial hygiene and best safety practices. When using material, do not eat, drink, or smoke. Remove and wash any contaminated clothing before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear to light yellow
Physical state:	liquid
Odor:	slight to no odor
Odor threshold:	not applicable
pH:	6.0 - 8.5
Melting point/freezing point:	decomposes
Initial boiling point:	221°F
Closed cup Flash point:	not applicable
Evaporation rate:	not determined
Flammability (solid, gas):	not determined
Upper/lower flammability or explosive limits:	not determined
Vapor pressure (Mg Hg):	not determined
Vapor density (air = 1):	not determined
Density:	1320-1340 kg/m ³
Viscosity	100cP @ 20 ⁰
Molecular Weight:	112.07
Solubility in water:	soluble
Auto-ignition temperature:	not determined
Decomposition temperature:	>200 ⁰ C / >392 °F
Specific Gravity (H₂O = 1):	1.32 H ₂ O=1 @ 20°C

10. STABILITY AND REACTIVITY

Reactivity:	Non-reactive under conditions of normal use, storage & transport.
Chemical stability:	Stable under conditions of normal use, storage and transport.
Possibility of hazardous reactions:	
Conditions to avoid:	Temperatures above >200 ⁰ C / >392 °F
Incompatible materials:	None in particular.
Hazardous decomposition products:	None known.

11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected if the product is used as intended and in accordance with this Safety Data Sheet.

- Inhalation:** No known effects but if symptoms are experienced, remove source of contamination or move to fresh air.
- Ingestion:** If swallowed, get medical attention.
- Skin:** In case of contact with skin, immediately wash with plenty of soap and water while removing contaminated clothing. No known effect but seek medical attention if skin irritation develops or persists.
- Eye contact:** In case of contact with eyes, immediately flush eyes with water for at least 15 minutes, lifting eyelids to facilitate irrigation. Get medical attention if necessary.

Signs & symptoms of exposure:

- Carcinogenicity:** Contains no known ingredient listed as carcinogen.
- Mutagenicity:** No known effect.
- Reproductive Toxicity:** No known effect.

12. ECOLOGICAL INFORMATION

- Ecotoxicity:** Product is not considered environmentally hazardous and is not expected to cause significant harm to aquatic, animal, or plant life.
- Persistence/degradability:** Readily biodegradable.
- Bioaccumulative potential:** Not expected to bioconcentrate or bioaccumulate.
- Mobility in soil:** No specific information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods:

Contain spill with absorbent materials such as clay or soil and shovel and place material in drum for disposal. Surfaces may become slippery after spillage. Dispose of according to all local, state, and federal regulations at an approved waste treatment facility.

14. TRANSPORTATION INFORMATION

DOT hazard class:	Not Applicable, non-regulated
Labeling:	Not Applicable
Proper Shipping Name:	Wilclear® Sodium Lactate 60% Solution
NMFC#:	46400.02
Class	70

15. REGULATORY INFORMATION

Restrictions on use: None.

Other regulations: No information available or not applicable.

16. OTHER INFORMATION

The information in this SDS summarizes to the best of our knowledge at the date of issue, the chemical health and safety hazards of this material and general guidance for safe handling, use, processing, storage, transportation, disposal, and release. This information is not intended to be considered a warranty or quality specifications. The information contained relates only to the specific material designated and may not be valid if used in conjunction with other materials or in any other processes other than intended use. If further clarification or information is required, please contact JRW Bioremediation.



SAFETY DATA SHEET



1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Identifier: Wilclear Plus® Lactate with Accelerite®
Recommended Use: In-situ Bioremediation
Recommended Restrictions: none known

Supplier Name: JRW Bioremediation, LLC
Address: 14321 W. 96th Terrace
Lenexa, KS 66215
Telephone: 913-438-5544
EMERGENCY Telephone: 800-779-5545 x 116 (Mon-Fri 9am-5pm CST)
913-961-6644 (afterhours)

2. HAZARD IDENTIFICATION

Health & Physical Hazards:

This product contains no substances in their current physical state that are considered to be hazardous to health and has a low order of toxicity. While the chemical, physical, and toxicological properties have not been thoroughly examined, no acute or delayed symptoms or effects have been observed to date.

Flammability Hazards:

This is a Non-Flammable liquid but it is recommended to avoid temperatures above 150°C.

Reactivity Hazards:

This product is considered stable. Thermal decomposition may lead to release of irritating gases and vapors. Hazardous polymerization is not expected to occur. Fermentation can occur when diluted with water.

OSHA Hazards:

This material is not considered hazardous by OSHA. No labels or signage are known to be required.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS #	% by Weight
Sodium lactate	72-17-3	33-40%
Sodium propionate	137-40-6	0-8%
Sodium acetate	127-09-3	0-8%
Sodium butyrate	156-54-7	0-8%
Total sodium carboxylates		45-50%
Carbohydrates & fermentation metabolites	68476-78-8	15-20%
Water	7732-18-5	40%

4. FIRST-AID MEASURES

Inhalation:

Inhalation of mist may cause mild irritation of respiratory system. Move to fresh air.

Skin Contact:

In case of contact with skin, immediately wash with plenty of soap and water while removing contaminated clothing. Seek medical attention if skin irritation develops or persists.

Eye Contact:

In case of contact with eyes, immediately flush eyes with water for at least 15 minutes, lifting eyelids to facilitate irrigation. Get medical attention if necessary.

Ingestion:

If swallowed, get medical attention.

Signs and symptoms of exposure:

Mild irritation to skin and eyes upon contact; mild irritation to respiratory system upon inhalation.

Medical Conditions aggravated by exposure:

None determined. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Water, carbon dioxide, or dry chemical.
Unsuitable Extinguishing Media:	Do not use heavy water stream as it may spread or scatter.
Specific hazards from substance/mixture:	Thermal decomposition may lead to release of irritating or toxic gases and vapors.
General fire hazards:	No unusual fire or explosion hazards noted

Special protective equipment / precautions for fire-fighters:

Wear full protective clothing and positive pressure breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Methods and Materials for containment and clean up:

Contain spill with absorbent materials such as vermiculite or soil; shovel and place material in drum for disposal. Flush area with water. Surfaces may become slippery after spillage. Dispose of according to all local, state, and federal regulations at an approved waste treatment facility.

Personal precautions / Protective equipment:

Use personal protective equipment. Prevent spills, contamination, and leakage.

Environmental precautions:

No special environmental precautions required.

7. HANDLING AND STORAGE

Precautions for safe handling:

Observe good work and industrial hygiene practices. Use personal protective equipment. Avoid contact with skin, eyes, and clothing. Avoid breathing mists and vapors. Wash hands after use of this product. Do not eat, drink, or smoke while using product. Prevent spills, contamination, and leakage.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed. Keep in properly labeled containers. Store in a well ventilated, cool, dry area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:	No exposure or biological limits noted for ingredients(s).
Appropriate engineering controls:	Use adequate mechanical ventilation, especially in confined spaces. Temperatures best kept below 150° C.
Individual protection measures, such as Personal Protective Equipment (PPE):	
Eye/Face protection:	Chemical goggles recommended.
Skin / hand / body protection:	Chemical resistant gloves recommended. Suitable protective clothing as defined by employer.
Respiratory protection:	None required under normal use in well ventilated area.
General considerations:	Use good industrial hygiene and best safety practices. When using material, do not eat, drink, or smoke. Remove and wash any contaminated clothing before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	light to medium brown
Physical state:	liquid
Odor:	slight sweet yeast-like aroma
Odor threshold:	not applicable
pH:	not determined
Melting point/freezing point:	not determined
Initial boiling point:	>100°C
Closed cup Flash point:	not applicable
Evaporation rate:	not determined
Flammability (solid, gas):	not determined
Upper/lower flammability or explosive limits:	not determined
Vapor pressure (Mg Hg):	not determined
Vapor density (air = 1):	not determined
Density:	not determined
Viscosity	not determined
Solubility in water:	completely soluble
Auto-ignition temperature:	not determined
Specific Gravity (H₂O = 1):	>1

10. STABILITY AND REACTIVITY

Reactivity:	Non-reactive under conditions of normal use, storage & transport.
Chemical stability:	Stable under conditions of normal use, storage and transport.
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	Temperatures above >150 ⁰ C.
Incompatible materials:	Fermentation can occur when diluted with water.
Hazardous decomposition products:	Thermal decomposition may lead to release of irritating gases and vapors.

11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected if the product is used as intended and in accordance with this Safety Data Sheet.

Inhalation:	Inhalation of mist may cause mild irritation of respiratory system. Move to fresh air.
Ingestion:	If swallowed, get medical attention.
Skin:	In case of contact with skin, immediately wash with plenty of soap and water while removing contaminated clothing. May cause mild irritation. Seek medical attention if skin irritation develops or persists.
Eye contact:	In case of contact with eyes, immediately flush eyes with water for at least 15 minutes, lifting eyelids to facilitate irrigation. Get medical attention if necessary.
Signs & symptoms of exposure:	Mild irritation to skin and eyes upon contact; mild irritation to respiratory system upon inhalation.
Carcinogenicity:	Contains no known ingredient listed as carcinogen.
Mutagenicity:	No known effect.
Reproductive Toxicity:	No known effect.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Product is not considered environmentally hazardous and is not expected to cause significant harm to aquatic, animal, or plant life.
Persistence/degradability:	Readily biodegradable.
Bioaccumulative potential:	Not expected to bioconcentrate or bioaccumulate.
Mobility in soil:	No specific information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods:

Contain spill with absorbent materials such as clay or soil and shovel and place material in drum for disposal. Surfaces may become slippery after spillage. Dispose of according to all local, state, and federal regulations at an approved waste treatment facility.

14. TRANSPORTATION INFORMATION

DOT hazard class:	Not Applicable, non-regulated
Labeling:	Not Applicable
Proper Shipping Name:	Wilclear® Sodium Lactate 60% Solution
NMFC#:	46400.02
Class	70

15. REGULATORY INFORMATION

Restrictions on use:	None.
Other regulations:	No information available or not applicable.

16. OTHER INFORMATION

The information in this SDS summarizes to the best of our knowledge at the date of issue, the chemical health and safety hazards of this material and general guidance for safe handling, use, processing, storage, transportation, disposal, and release. This information is not intended to be considered a warranty or quality specifications. The information contained relates only to the specific material designated and may not be valid if used in conjunction with other materials or in any other processes other than intended use. If further clarification or information is required, please contact JRW Bioremediation.

1. PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED):	SDC-9
SYNONYMS:	None known
CAS#:	Mixture
PRODUCT USE:	This product is used for soil and ground water remediation.
CHEMICAL SHIPPING NAME/CLASS:	Non-Regulated Material
U.N. NUMBER:	None
MANUFACTURER'S NAME:	CB&I
ADDRESS:	17 Princess Road, Lawrenceville, NJ 08648
BUSINESS PHONE:	1-609-895-5340
SUPPLIER'S NAME:	RNAS Remediation Products
ADDRESS:	6712 West River Road, Brooklyn Center, MN 55430
BUSINESS PHONE:	1-763-585-6191
EMERGENCY PHONE:	1-800-424-9300 (Chemtrec 24 Hr Service – Emergency Only)
DATE OF CURRENT REVISION:	April 22, 2016
DATE OF LAST REVISION:	New

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This product is a light greenish murky liquid with a musty odor.

Health Hazards: Not expected to cause adverse health effects when used as intended. Prolonged or repeated exposure may cause irritation to skin. May cause irritation to eyes upon contact. Inhalation of vapors/sprays or mist may cause respiratory irritation. Ingestion of large amounts of this product may cause gastrointestinal irritation.

Flammability Hazards: This product is a Non-Flammable liquid.

Reactivity Hazards: None known

Environmental Hazards: The Environmental effects of this product have not been investigated. Release of this product is not anticipated to have significant adverse effects in the aquatic environment.

US DOT SYMBOLS

Non-Regulated Material

CANADA (WHMIS) SYMBOLS

Complies with WHMIS 2015

EUROPEAN and (GHS) Hazard Symbols

None

Signal Word: **None**

GHS LABELING AND CLASSIFICATION:

This product does not meet the definition of a hazardous substance or preparation as defined by 29CFR 1910.1200 or the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC:

None of the ingredients are listed in Annex VI

Substances not listed either individually or in group entries must be self classified.

Component(s) Contributing to Classification(s)

All Ingredients

GHS Hazard Classification(s):

None known

Hazard Statement(s):

None known

Precautionary Statement(s):

None known

HEALTH HAZARDS OR RISKS FROM EXPOSURE:

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with skin or eyes, inhalation of vapors and ingestion. The symptoms of overexposure are described below.

ACUTE:

INHALATION: Not expected to cause adverse health effects when used as intended. Inhalation of vapors/mist/spray may cause respiratory irritation.

CONTACT WITH SKIN: Not expected to cause adverse health effects when used as intended. Prolonged and repeated contact may cause irritation to skin.

EYE CONTACT: Direct eye contact can cause irritation with redness, tearing and blurred vision.

INGESTION: Under normal conditions of intended use, this material is not expected to be an ingestion hazard. Ingestion of large quantities may cause gastrointestinal irritation, nausea and vomiting.

CHRONIC: None known

TARGET ORGANS: **Acute:** Skin, Respiratory System and Eyes **Chronic:** None known

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients:	WT%	CAS#	EINECS #	GHS Hazard Classification(s)
Non-toxic, naturally occurring, non-pathogenic, non-genitically altered anaerobic microbes in a water-based medium	100%	Not available	Not available	None
Balance of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).				

NOTE: This product has been classified in accordance with the hazard criteria of 29CFR1910.1200 and the SDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250: 2000.

4. FIRST-AID MEASURES

EYE CONTACT: If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation persists.

SKIN CONTACT: Wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.

INHALATION: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

INGESTION: If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

5. FIRE-FIGHTING MEASURES

FLASH POINT: Non-Flammable

AUTOIGNITION TEMPERATURE: Not Available

FLAMMABLE LIMITS (in air by volume, %): Lower NA Upper NA

FIRE EXTINGUISHING MATERIALS: Use fire extinguishing methods below:

Water Spray: Yes

Carbon Dioxide: Yes

Foam: Yes

Dry Chemical: Yes

Halon: Yes

Other: Any "C" Class

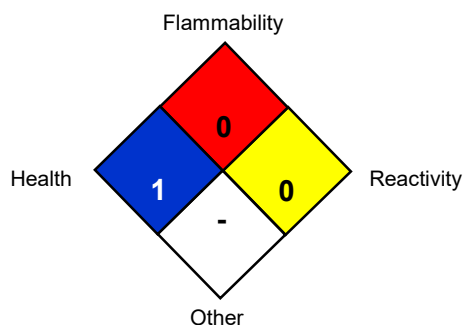
UNUSUAL FIRE AND EXPLOSION HAZARDS: Not considered a fire or explosion hazard.

Explosion Sensitivity to Mechanical Impact: No

Explosion Sensitivity to Static Discharge: No

SPECIAL FIRE-FIGHTING PROCEDURES: Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

NFPA RATING SYSTEM



HMIS RATING SYSTEM

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM	
HEALTH HAZARD (BLUE)	1
FLAMMABILITY HAZARD (RED)	0
PHYSICAL HAZARD (YELLOW)	0
PROTECTIVE EQUIPMENT	
EYES	RESPIRATORY
See Sect 8	See Sect 8
HANDS	BODY
See Sect 8	See Sect 8

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Stop the flow of material, if this can be done safely. Contain discharged material. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Place in a proper container for disposal. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

7. HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Use good hygiene practices.

STORAGE AND HANDLING PRACTICES: Store in original container. Keep container closed when not in use. Store in a cool, dry location. Avoid freezing or extended storage in high temperatures and away from incompatible materials. Do not exceed pressure of 15 psi during transfer of SDC-9 from kegs. Don't open keg when contents are under pressure.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
Non-toxic, naturally occurring, non-pathogenic, non-genitically altered anaerobic microbes in a water-based medium	Not available	Not Listed	Not Listed

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

RESPIRATORY PROTECTION: Not required when using this product. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Safety glasses or goggles are recommended to avoid eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

SKIN PROTECTION: Wear impervious gloves for prolonged or repeated exposure as appropriate to task when using this product. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

BODY PROTECTION: Use body protection appropriate to task being performed. If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE (Physical State) and COLOR: This product is a light greenish murky liquid with a musty odor.

ODOR: Musty odor

ODOR THRESHOLD: Not Applicable

pH: 6.0 – 8.0

MELTING/FREEZING POINT: 0°C (water)

BOILING POINT: 100°C (water)

FLASH POINT: Not Available

EVAPORATION RATE (n-BuAc=1): 0.9-1.1

FLAMMABILITY (SOLID, GAS): Not Applicable

UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMITS: Not Available

VAPOR PRESSURE (mm Hg @ 20°C (68°F): 24mm Hg (water)

VAPOR DENSITY: Not Available

SPECIFIC GRAVITY: 0.9-1.1

SOLUBILITY IN WATER: Soluble in water

WEIGHT PER GALLON: 7.5 – 9.2 lbs/gal

PARTITION COEFFICIENT (n-octanol/water): Not Available

AUTO-IGNITION TEMPERATURE: Not Available

DECOMPOSITION TEMPERATURE: Not Available

VISCOSITY: Not Available

10. STABILITY and REACTIVITY

STABILITY: Stable under conditions of normal storage and use.

HAZARDOUS DECOMPOSITION PRODUCTS: None

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Water-reactive materials.

POSSIBILITY OF HAZARDOUS REACTIONS: Will not occur.

CONDITIONS TO AVOID: None

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA:

No LD50 Data available for this product.

*Note: This product has tested negative for pathogenic microorganisms such as bacillus cereus, listeria monocytogens, salmonella sp., fecal coliform, total coliform, yeast and mold and pseudomonas sp.

SUSPECTED CANCER AGENT: Ingredients within this product are not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be, nor suspected to be, cancer-causing agents by these agencies.

IRRITANCY OF PRODUCT: No specific data available

SENSITIZATION TO THE PRODUCT: This product is not a skin and respiratory sensitizer

REPRODUCTIVE TOXICITY INFORMATION: No information concerning the effects of this product and its components on the human reproductive system.

12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

TOXICITY DATA:

No data available for this product.

ENVIRONMENTAL STABILITY: This material will degrade in the environment.

CHEMICAL EFFECT ON PLANTS, ANIMALS AND AQUATIC LIFE: This product is not expected to cause significant harm to plants, animals or aquatic life.

WATER ENDANGERMENT CLASS: Water endangering in accordance with EU Guideline 91/155-EWG – Not Determined.

SPECIFIC AVAILABLE COMPONENT INFORMATION: No additional data available at this time.

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan. To permanently inactivate microorganisms and reduce odors, mix 100 parts SDC-9 with 1 part bleach.

EU Waste Code: Not determined

14. TRANSPORTATION INFORMATION

US DOT, IATA, IMO, ADR:

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS: This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

PROPER SHIPPING NAME: Non-Regulated Material

HAZARD CLASS NUMBER and DESCRIPTION: None

UN IDENTIFICATION NUMBER: None

PACKING GROUP: NA

DOT LABEL(S) REQUIRED: None

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER: None

RQ QUANTITY: None

MARINE POLLUTANT: The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This product is not considered as dangerous goods.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is not considered as dangerous goods.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is not considered by the United Nations Economic Commission for Europe to be dangerous goods.

15. REGULATORY INFORMATION

UNITED STATES REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act as follows: None

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory or are exempted from listing.

OTHER U.S. FEDERAL REGULATIONS: None

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): Ingredients within this product are not on the Proposition 65 Lists.

CANADIAN REGULATIONS:

CANADIAN DSL/NDL INVENTORY STATUS: The components of this product are on the DSL Inventory, or are exempted from listing.

OTHER CANADIAN REGULATIONS: Not applicable.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: Complies with WHMIS 2015

EUROPEAN ECONOMIC COMMUNITY INFORMATION:

This product does not meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

See Section 2 for Details

AUSTRALIAN INFORMATION FOR PRODUCT: The components of this product are listed on the International Chemical Inventory list.

JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

JAPANESE ENCS INVENTORY: The components of this product are on the ENCS Inventory as indicated in the section on International Chemical Inventories, below.

POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW: No component of this product is a listed Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac: Listed or Exempt from listing

Australian Inventory of Chemical Substances (AICS): Listed or Exempt from listing

Korean Existing Chemicals List (ECL): Listed or Exempt from listing

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed or Exempt from listing

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed or Exempt from listing

Swiss Giftlist List of Toxic Substances: Listed or Exempt from listing

U.S. TSCA: Listed

16. OTHER INFORMATION

ABBREVIATIONS AND ACRONYMS:

EPA: United States Environmental Protection Agency

ARD: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PREPARED BY: Chris Eigbrett – (**MSDS to GHS Compliance**)

DATE OF PRINTING: April 22, 2016

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. Remediation and Natural Attenuation Services Inc. assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Remediation and Natural Attenuation Services Inc. assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

END OF SDS SHEET

APPENDIX D

Permit-By-Rule Approval



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Site Remediation and Waste Management Program

Bureau of Ground Water Pollution Abatement

401 East State Street, 5th Floor

P.O. Box 420, Mail Code 401-05V

Trenton, New Jersey 08625-0420

Telephone (609) 292-8427

PHILIP D. MURPHY

Governor

SHEILA Y. OLIVER

Lt. Governor

SHAWN M. LATOURETTE

Commissioner

July 8, 2021

Mr. Robert Hare, Cleanup Manager
500 Woodward Avenue, Suite 2650
Detroit, Michigan 48226

Re: Discharge to Ground Water Authorization
Ewing Industrial Land – Former Delphi Lighting & Systems Division/
General Motors-Fisher Body
1445 Parkway Avenue
Ewing Township, Mercer County
Program Interest Number: 011336
Subject Item ID: DGWD0000151595

Dear Mr. Hare,

This New Jersey Pollutant Discharge Elimination System/Discharge to Ground Water (NJPDES/DGW) authorization is hereby issued under the authority of the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq. and the implementing regulations, N.J.A.C. 7:14A-1 et seq. N.J.A.C. 7:14A-7.5 authorizes the discharge described below which will allow the implementation of in-situ remediation of contaminated ground water, including ground water extraction and amendment with treatment media prior to reinjection, at the above referenced site.

Pursuant to N.J.A.C. 7:14A-22.4(b)5, a Treatment Works Approval is not required for discharges to ground water authorized pursuant to N.J.A.C. 7:14A-7.5 or 8.5 and a licensed operator is not required pursuant to N.J.A.C. 7:10A-1.10(c)1. The discharge approved through this authorization will be to injection wells as described below. The discharge shall be conducted as proposed in the May 21, 2021 Discharge to Ground Water Permit-By-Rule Authorization Request and DGW proposal (received June 1, 2021) as amended by emails dated June 23, 2021, July 1 and July 2, 2021. These documents were submitted on your behalf by, or under the oversight of, LSRP Amy Murphy of Haley and Aldrich, Inc.

A public notice describing this discharge was published in the Star Ledger on May 15, 2021 which initiated a 30 day public comment period. In addition, a copy of the public notice was sent to the clerk for Ewing Township and to the local health department. The Department and LSRP did not receive any comments on the DGW proposal.

Pursuant to N.J.A.C. 7:14A-2.7 the maximum approved discharge duration is five (5) years, and it begins on the date the discharge first occurs, not on the date this discharge approval letter is issued or received. However, this authorized discharge shall not extend beyond five years from the date of this letter, regardless of the date when the discharge first occurs.

The Department shall be notified of the date when the discharge begins as instructed in Section V of this letter. Only the discharge described in Section I below is authorized. The discharge shall be conducted in conformance with the DGW proposal and shall comply with the requirements of Sections II, III, IV, and V, farther below.

I. DISCHARGE DESCRIPTION

Contaminants of concern that exceed Class IIA Ground Water Quality Standards (GWQS) in the shallow overburden/weathered bedrock and/or bedrock aquifer units in the area of the authorized ground water extraction, amendment, and re-injection (the treatment area) include chlorinated volatile organic compounds (CVOCs) (including tetrachloroethene (PCE), trichloroethene (TCE), 1,1-dichloroethene (1,1-DCE), 1,1,2-trichloroethane (1,1,2-TCA), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride (VC), 1,4-dioxane, and inorganic compounds (including hexavalent chromium (Cr VI), trivalent chromium (Cr III), nickel, iron, manganese). TCE, cis-1,2-DCE, VC, Cr III, Cr VI and nickel are most frequently observed in ground water within and around the treatment area. Additional compounds that exceed Class IIA GWQS are present at other parts of the site.

The authorized discharge includes the addition of treatment media that will supply a carbon substrate and create anaerobic/reducing ground water conditions to enhance anaerobic biodegradation of CVOCs and transform Cr VI to Cr III. The in-situ treatment will be implemented by extracting impacted ground water from the bedrock aquifer unit and either adding the authorized treatment media to the extracted ground water prior to reinjection as a continuous feed or as a batch discharge to bedrock injection wells. Extraction and injection will be initiated prior to treatment media addition to establish a ground water recirculation zone and will continue after treatment media addition to enhance distribution within the targeted aquifer interval (60-150' bgs).

The following treatment media are authorized to be added to ground water reinjected at the treatment areas identified as Leg 1, Leg 2, Leg 3 and Leg 4 (PBR Proposal Figures 3 and 4, attached):

- 1) Provect ERD-CH₄, an anti-methanogenic anaerobic bio-stimulant made of: a) a water-soluble carbon source consisting of a fatty acid, glycerol, vegetable oil and emulsifying agent mixture, and b) methane inhibitors that are essential oils and extracts from red yeast rice to inhibit methanogens that compete with dehalococcoides (DHC) and other reductive dechlorinating bacteria for electron donors;
- 2) Wilclear Sodium Lactate 60% Solution, a water-soluble sodium lactate carbon source;
- 3) Wilclear Plus® Lactate and Accelerite®, a more water-soluble carbon source consisting of a mixture of sodium carboxylates, carbohydrates and fermentation metabolites and water to assist in the reduction of nitrate concentrations; and
- 4) SDC-9, naturally occurring, non-pathogenic, non-genetically altered anaerobic microbes in a water based medium to supplement native populations of DHC bacteria.

A maximum of 300,000 pounds of carbon substrate (total) and 1000 liters of bioaugmentation culture is authorized to be discharged to the site at the design concentrations during the permit-by-rule discharge authorization period (5 years from date of issuance).

The planned amendment usage is:

Recirculation Leg	Event Number	Estimated Electron Donor (pounds)	Estimated Bioaugmentation Culture (L)
Leg #2	1 (2021)	30,000	100
Leg #3	1 (2021)	30,000	100
Leg #4	1 (2021)	30,000	100
Leg #2	2 (TBD)	30,000	100
Leg #3	2 (TBD)	30,000	100
Leg #4	2 (TBD)	30,000	100
Leg #1	2 (TBD)	30,000	100
Leg #2	3 (TBD)	30,000	100
Leg #3	3 (TBD)	30,000	100
Leg #4	3 (TBD)	30,000	100

After 2021, additional in-situ recirculation and treatment media additions will be based on monitoring data, with total application not to exceed the above stated maximum amounts.

II. SYSTEM OPERATION AND MONITORING

Release Prevention: Treatment media amendments will be stored within secondary containment large enough to contain 10% of the total volume or 100% of the largest container, whichever is greater, to contain any spill/release. Any necessary mixing of treatment media will be within this secondary containment area. Spill containment materials will be present on site for use if needed. Hoses will be secured to injection well heads via zip ties or equivalent.

Extraction and Injection Wells: Extraction-Injection locations for each recirculation area are as follow:

- Leg 1 – Extraction well RW-208, Injection well RW-207
- Leg 2 – Extraction well RW-207, Injection well RW-209 (angle well)
- Leg 3 – Extraction well RW-207, Injection well RW-210 (angle well)
- Leg 4 – Extraction well RW-211, Injection well RW-212

Leg 1, Leg 2, Leg 3 Treatment Media Delivery/Recirculation System:

- A solar powered skid mount system will be used to control: 1) pumping at ground water extraction well RW-208 (Leg 1) and RW-207 (Leg 2, Leg 3); 2) injection at injection well RW-207 (Leg 1), RW-209 (Leg 2) and RW-210 (Leg 3); and 3) continuous feed rate of treatment media to ground water prior to injection.
- Pumping prior to addition of treatment media will be conducted to establish recirculation within the treatment area.
- The anticipated flow rate is 10 gpm.

- Carbon substrate treatment media will be added to ground water at a rate to achieve a concentration between 25-60% fermentable carbon to yield a concentration of 1.5 g/L carbon in ground water recirculated through the treatment area.
- A DHC bacteria culture will also be added.
- Operations at Leg 2 and Leg 3 will be sequential as they each use RW-207 as the extraction well. Initial operations are expected to last 3-4 weeks each at Leg 2 and Leg 3, with future pumping alternating between Leg 2 and Leg 3 until the end of the 2021 remedial action period to allow for mixing and distribution of the treatment media in the treatment areas.
- Pumping rates, duration of pumping, and substrate injection rates may be modified in the field to improve substrate distribution/performance.
- Future delivery of treatment media will be based on monitoring data.

Leg 4 Treatment Media Delivery/Recirculation System:

- Prior to and following treatment media delivery as a batch discharge, recirculation of ground water will occur between RW-211 (extraction) and RW-212 (injection) via surface piping connections.
- The anticipated flow rate is 6 gpm.
- Carbon substrate treatment media may be mixed with ground water to achieve a concentration between 25-60% fermentable carbon prior to injection at RW-212 as a batch discharge to yield a concentration of 1.5 g/L carbon in ground water recirculated through the treatment area.
- DHC bacteria cultures will also be added.
- Leg 4 may operate concurrent with Leg 1, Leg 2 or Leg 3.
- Operations at Leg 4 are expected to last 3 weeks in 2021.
- Pumping rates, duration of pumping, and batch deliveries may be modified in the field to improve substrate distribution/performance.
- Future delivery of treatment media will be based on monitoring data.

Field Log extraction – injection monitoring and documentation at each treatment area (Leg 1, Leg 2, Leg 3 and Leg 4) will include:

- Extraction well pumping rate
- Injection rates and pressures at the injection well head
- Total ground water recirculation within the treatment area (flow meters)
- Depth to water
- Volume (gallons), weight (pounds) and concentration of treatment media amendments added to the treatment area
- Volume of bioaugmentation culture (if added) to each treatment area

Injection-Recirculation System Modification or Shut Down: Manual and transducer water level data near Leg 1, Leg 2, Leg 3 and Leg 4 indicating:

- Hydraulic gradient reversal from natural flow conditions
- Water levels indicating amendments moving outside of the expected treatment area

Considerations for Additional In-situ Recirculation and/or Treatment Media:

- Geochemical and CVOC concentrations

- TOC < 15 mg/L with stalling CVOC (stable but elevated CVOC concentrations, significant decreases in dissolved gases ethene and/or ethane, and non-ideal field parameters)

General Requirements:

The area of discharge shall be monitored for evidence of malfunction. Said evidence shall include, but is not limited to: breakout, wet areas, ponding, odors, and elevated PID readings in the nearby work area or building.

The discharge shall not cause any of the following negative impacts:

- adversely impact the behavior of free product or the plume;
- adversely impact a water supply well or have a long term adverse impact on ground water quality;
- create an unpermitted discharge to any surface water of the State or violation of Surface Water Quality Standards;
- create a persistent standing, ponded or surface-flowing fluid condition, or
- cause adverse vapor intrusion to occur.

Pursuant N.J.A.C. 7:14A-6.2(a)5 and 11, if free product in ground water, vapors or odors in any building, or any malfunction resulting in a potential impact to a receptor are detected and are a result of the discharge authorized by this approval, the discharger will immediately: (1) cease the discharge or make necessary adjustments to the discharge rate or system operation; and (2) repair or mitigate any negative impacts.

After completion of the discharge, the property should be returned to its previous condition, or as agreed to with property owner if the permittee is not the property owner. All UIC-Class V injection wells shall be properly abandoned in accordance with N.J.A.C. 7:14A-8.16(d)1 as applicable. The permittee will comply with any applicable provisions of the Additional Conditions Applicable to Class I, II, III and V UIC Permits of the NJPDES regulations, N.J.A.C. 7:14A-8.9, et seq. when UIC-Class V injection well units (i.e., the injection points) are used.

III. GROUND WATER MONITORING REQUIREMENTS

The Permittee shall perform the following ground water sampling as was specified in the DGW proposal (including all addendums and modifications) for the purpose of complying with this Discharge to Ground Water Permit-By-Rule authorization.

Specific Requirements:

Ground Water Sampling:

- See PBR Table II (attached) for sampling to be conducted 2021-Q1 through 2025-Q4.
- See PBR Figure 5 (attached) for sample locations.

Ground water sample analyses include, depending on location and sampling event:

- TOC
- TDS
- Chloride
- VOC
- 1,4-dioxane
- Metals (nickel, total chromium)

- Dissolved gases (methane, ethene, ethane)
- Geochemical parameters (nitrate, sulfate, total and dissolved iron and manganese)
- Field Parameters (low flow sampling): depth to water, temperature, pH, conductivity, REDOX, dissolved oxygen
- Depth to water

General Requirements:

Pursuant to the Tech Regs, the Permittee shall measure ground water elevations at all sampled wells upon each sampling event and shall construct ground water flow maps with the water elevation data to document the direction of ground water flow. Any product observed, including sheen, shall be documented. If measurable product is observed, injections shall be suspended until all of the recoverable product is removed from the treatment area.

All sampling shall be performed as proposed and consistent with the methods specified in the most current edition of the Department's Field Sampling Procedures Manual. All samples shall be analyzed by a New Jersey Certified Laboratory certified for the methods being used to analyze groundwater samples. Analytical method MDLs shall be less than or equal to the ground water quality standards (N.J.A.C. 7:9C-1.7). Parameters determined in the field (pH, specific conductance, dissolved oxygen, temperature) are to be measured by a certified contractor or laboratory.

Comparison to the vapor intrusion (VI) screening levels is necessary in order to monitor whether or not the discharge activities have the potential to cause VI issues within any nearby structures by means of adversely impacting the behavior of the ground-water contaminants (e.g., unexpected contaminant movement). If there are any exceedances of the VI screening levels caused by the authorized discharge, a VI evaluation shall be conducted of any potentially impacted structures.

Compliance with N.J.A.C. 7:26E-5.7(b) requires that the Permittee satisfy the post-injection ground water monitoring requirements that are set forth in this letter before applying for any Remedial Action Permit for Ground Water. If a Remedial Action Permit application is submitted before the required ground water sampling has been completed, the application will be denied.

Additionally, contingency compliance ground water sampling is required if ground water sampling results indicate that ground water quality criteria (GWQC) have been contravened because of the authorized discharge (e.g., the GWQC for sodium is exceeded as a result of sodium persulfate injection, or the GWQC for iron is exceeded as a result of pH change), or that ground water quality has not returned to baseline conditions (when baseline concentrations are greater than GWQC) in the expected timeframe. Ground water sampling must continue until it can be demonstrated that the GWQC have been met or until the ground water quality has returned to baseline conditions. To demonstrate either of these conditions, a minimum of two consecutive ground water sampling events spaced far enough apart to account for seasonal fluctuations, must be conducted.

Furthermore, if the Permittee is planning to apply for a Ground Water Remedial Action Permit for Natural Attenuation in the future, and exceedances of the GWQC that are due to the discharge remain, those exceedances must be treated similarly to any other site related contaminants (i.e., a sufficient number of samples are required and a decreasing concentration trend must be evident) consistent with the Department's Remedial Action Permits for Ground Water Guidance.

IV. CEA FOR NJPDES-DGW DISCHARGE AUTHORIZATION

The horizontal and vertical extent of the treatment area is shown on May 2021 PBR Figure 6 (Leg 1 and 2), Figure 7 (Leg 4), and Figure 8 (Leg 3). The vertical extent is 200' bgs. This discharge related CEA is established for the water quality parameters identified in PBR Table III (attached) reflecting existing impacts to ground water at the site, ground water parameters that may be affected by the addition of the treatment media that result in reducing (anaerobic) aquifer conditions (e.g., chloride, iron, manganese, TDS), and treatment media components that have a Class IIA Ground Water Quality Standard (e.g., sodium).

The discharge related CEA is established in accordance with N.J.A.C. 7:9C-1.6(c), 1.8 and 1.9 to permit the approved discharge to enhance anaerobic in-situ bioremediation of chlorinated VOCs and transformation of hexavalent chromium to trivalent chromium. The presence of COCs in the extracted ground water that will be reinjected within the impacted aquifer system are recognized as exceeding antidegradation limits due to current aquifer impacts.

The anticipated duration of the discharge related CEA is five (5) years from the start of the remedial action. Monitoring data in 2025 will be used to evaluate water quality and determine if the discharge related CEA can be terminated (e.g., return to baseline conditions) or if any discharge related parameters require inclusion in long term monitoring plans and/or the site CEA.

V. REPORTING REQUIREMENTS AND INFORMATION SUBMITTALS

All information, including a detailed summary of the discharge and ground water sampling results, as well as the QA/QC package specified at N.J.A.C. 7:26E-2.1(a)15 shall be submitted with the next key document due following completion of the discharge monitoring program.

Consistent with N.J.A.C. 7:14A-2.11(a) and 6.2(a)14, within 14 days after initiation of the discharge, notify the Department of the "start date" of the discharge. To report this date, send an email to Jill Monroe at Jill.Monroe@dep.nj.gov stating the start date of the discharge.

Consistent with N.J.A.C. 7:14A-2.11(a) and 6.2(a)14, any malfunctions or non-compliance should be reported by telephone within 24 hours to the Bureau of Ground Water Pollution Abatement at (609) 292-8427 and in writing within seven days. Written submissions must include the facility name and PI Number. Failure to report this information is a violation of N.J.A.C. 7:14A and the permit-by-rule.

Please note that nothing in this correspondence affects your potential liability and obligations to the State Trustee, the Department or its Commissioner regarding natural resource injuries, restoration or damages.

If you have any questions or concerns associated with this Discharge Authorization, please contact Jill Monroe at (609) 633-1265, Jill.Monroe@dep.nj.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Mary Anne Kuserk", is written over a light gray circular stamp.

Mary Anne Kuserk, Chief
Bureau of Ground Water Pollution Abatement

Enclosures:

PBR Figures 3, 4 – treatment areas Leg 1, 2, 3 and 4 (May 2021, received June 1, 2021)

PBR Figure 5 – ground water monitoring locations (May 2021, received June 1, 2021)

PBR Figures 6, 7, 8 – Leg 2, Leg 4 and Leg 3 discharge related CEA cross-sections
(July 1, 2021 email)

PBR Pilot Test Figure 6 – Leg 1 discharge related CEA cross-section (June 2019)

PBR Table II – monitoring plan (May 2021, received June 1, 2021)

PBR Table III – discharge related CEA - parameters (July 2, 2021 email)

c: Amy Blake, LSRP, Haley & Aldrich
Robert Gelbard, Parkway Town Center Urban Renewal, LLC
Kim J. Macellaro, Ewing Township Clerk
Kristin Reed, Ewing Township Health Officer
Jill Monroe, BGWPA

TABLE II
GROUNDWATER SAMPLING PLAN
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location	Unit	Top of Hole/ Screen (ft bgs)	Bottom of Hole/Screen (ft bgs)	Sampling Depth (ft bgs)	2021 Groundwater Sampling Events				2022 Groundwater Sampling Events				2023 Groundwater Sampling Events			
					Quarter 1 Focused	Quarter 2 Site Wide	Quarter 3 Focused	Quarter 4 Site Wide	Quarter 1 Site Wide	Quarter 2 Site Wide	Quarter 3 Site Wide	Quarter 4 Site Wide	Quarter 1 Site Wide	Quarter 2	Quarter 3	Quarter 4 Site Wide
System Sample Port (if Operating)				Located on Skid	F, T, V, M, G, N	F, T, V, M, D	F, T, V, M, G, N	F, T, V, M, D	F, T, V, M, D	F, T, V, M, D	F, T, V, M, D	F, T, V, M, D	F, T, V, M, D			F, T, V, M, D
MW-1	erburden/Weathered Bedrock	4	9	6.5		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-1A	Bedrock	33	40	36.5		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-2	erburden/Weathered Bedrock	5	12	9.5		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-2A	Bedrock	27	41	34		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-3	erburden/Weathered Bedrock	30	45	37.5		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-3A	Bedrock	30	45	37.5		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-4	erburden/Weathered Bedrock	5	12	13.5		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-4A	Bedrock	30	45	37.5		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-5R	erburden/Weathered Bedrock	12	17	14.5		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-5A	Bedrock	30	45	37.5		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-6	erburden/Weathered Bedrock	5	12	11.5		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-6A	Bedrock	27	44	35.5		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-7	erburden/Weathered Bedrock	5.5	15.5	13.5		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-7AR	Bedrock	40	45	42.5		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-8A	Bedrock	35	40													
MW-11	erburden/Weathered Bedrock	6.5	17.5	12		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-11A	Bedrock	38	42	70		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-13	Bedrock	21	40			W		W	W	W	W	W	W			W
MW-14A	Bedrock	13	50			W		W	W	W	W	W	W			W
MW-15	erburden/Weathered Bedrock	2	12	7		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-15A	Bedrock	18	28	23		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-16A	erburden/Weathered Bedrock	20	42			W		W	W	W	W	W	W			W
MW-16B	Bedrock	61	71	66		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-16C	Bedrock	115	125	120		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-17A	erburden/Weathered Bedrock	10	35	22.5	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D
MW-17B	Bedrock	91	101	86	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D
MW-18	erburden/Weathered Bedrock	9	24	16.5	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D
MW-18A	Bedrock	47	52	49.5	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D
MW-19	erburden/Weathered Bedrock	11	26			W		W	W	W	W	W	W			W
MW-20	erburden/Weathered Bedrock	9	24			W		W	W	W	W	W	W			W
MW-20A	Bedrock	276	285	281	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D
MW-21	erburden/Weathered Bedrock	4	14	9		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-21A	Bedrock	55	65	60		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-22	erburden/Weathered Bedrock	8	18													
MW-22A	Bedrock	27	55	40		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-25	erburden/Weathered Bedrock	3	12.5	8		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-27AR	Bedrock	37	61			W		W	W	W	W	W	W			W
MW-31	erburden/Weathered Bedrock	7	17	16.5		V, D		V, D	V, D	V, D	V, D	V, D	V, D			V, D
MW-34R	erburden/Weathered Bedrock	3	12	9		V, D		V, D	V, D	V, D	V, D	V, D	V, D			V, D
MW-35	erburden/Weathered Bedrock	1.62	6.52	7.5		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-35AR	Bedrock	40	45	42.5		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-37	erburden/Weathered Bedrock	4	11.7			W		W	W	W	W	W	W			W
MW-37A	Bedrock	39.5	44.5			W		W	W	W	W	W	W			W
MW-37B	Bedrock	64	71.5	65.5		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-38	Bedrock	30	35			W		W	W	W	W	W	W			W
MW-38A	Bedrock	48	53			W		W	W	W	W	W	W			W
MW-39	erburden/Weathered Bedrock	8.5	18.5			W		W	W	W	W	W	W			W
MW-39A	Bedrock	67.5	72.5			W		W	W	W	W	W	W			W
MW-41	erburden/Weathered Bedrock	3	13			W		W	W	W	W	W	W			W
MW-42	erburden/Weathered Bedrock	10	20		F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D
MW-43	Weathered Bedrock	4	14	13.5		F, T, V, M, G, D		F, T, V, M, G, D	F, T, V, M, G, D	F, T, V, M, G, D	F, T, V, M, G, D	F, T, V, M, G, D	F, T, V, M, G, D			F, T, V, M, G, D
MW-44	Overburden/Weathered Bedrock	12	22	21.5		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-47	erburden/Weathered Bedrock	3	13	11.25		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-51	erburden/Weathered Bedrock	6.5	16.5	18.25		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-52R	erburden/Weathered Bedrock	16	21	18.5		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-52	erburden/Weathered Bedrock	4.5	15	10		W		W	W	W	W	W	W			W
MW-53	erburden/Weathered Bedrock	4.5	15			W		W	W	W	W	W	W			W
MW-54	erburden/Weathered Bedrock	4.5	14			W		W	W	W	W	W	W			W
MW-55	erburden/Weathered Bedrock	5.5	12.5			W		W	W	W	W	W	W			W
MW-56	erburden/Weathered Bedrock	18	28	23		V, D		V, D	V, D	V, D	V, D	V, D	V, D			V, D
MW-70	erburden/Weathered Bedrock	18	30	24	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D
MW-71	Bedrock	23	35													
MW-73R	Bedrock	23	35	29		F, T, V, M, D		F, T, V, M, D	F, T, V, M, D	F, T, V, M, D	F, T, V, M, D	F, T, V, M, D	F, T, V, M, D			F, T, V, M, D
MW-74	Bedrock	108	110			W		W	W	W	W	W	W			W
MW-75	Bedrock	86	96	91		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-76	erburden/Weathered Bedrock	9.5	19.5	17.2		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-77	erburden/Weathered Bedrock	8	18	18.75		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-77A	Bedrock	71	81	76		W		W	W	W	W	W	W			W
MW-78	erburden/Weathered Bedrock	8	20			W		W	W	W	W	W	W			W
MW-79	erburden/Weathered Bedrock	7	17			W		W	W	W	W	W	W			W
MW-80	Overburden/Weathered Bedrock	24	34	29	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D
MW-81	Overburden/Weathered Bedrock	23.5	33.5	28.5		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-82	Weathered Bedrock	24	34	29		V, M, D		V, M, D	V, M, D	V, M, D	V, M, D	V, M, D	V, M, D			V, M, D
MW-84R	Overburden/Weathered Bedrock	24	34	29	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D
MW-84AR	Bedrock	73	83	78	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D
MW-85	Bedrock	111	121	116	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D
MW-86	Bedrock	112	122	117	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D
MW-87	Bedrock	91	101	96	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D
MW-88	Bedrock	75.5	85.5	83	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D
MW-89	erburden/Weathered Bedrock	20	30	25	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D
MW-89A	Bedrock	91	101	96	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D	F, T, V, M, G, N, D			F, T, V, M, G, N, D
MW-90R	erburden/Weathered Bedrock	20	30			W		W	W	W	W	W	W			W
MW-90AR	Bedrock	80	80			W		W								

TABLE B
GROUNDWATER SAMPLING PLAN
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location	Unit	Top of Hole/Screen (ft bgs)	Bottom of Hole/Screen (ft bgs)	Sampling Depth (ft bgs)	2024 Groundwater Sampling Events				2025 Groundwater Sampling Events			
					Quarter 1 Site Wide	Quarter 2	Quarter 3	Quarter 4 Site Wide	Quarter 1 Site Wide	Quarter 2	Quarter 3	Quarter 4 Site Wide
System Sample Port (if Operating)				Located on Skid		F, T, V, M, D					F, T, V, M, D	
MW-1	erburden/Weathered Bedr	4	9	6.5		V, M, D					V, M, D	
MW-1A	Bedrock	33	40	36.5		V, M, D					V, M, D	
MW-2	erburden/Weathered Bedr	6	12	9.5		V, M, D					V, M, D	
MW-2A	Bedrock	27	41	34		V, M, D					V, M, D	
MW-3	erburden/Weathered Bedr	4	11	10		V, M, D					V, M, D	
MW-3A	Bedrock	30	45	37.5		V, M, D					V, M, D	
MW-4	erburden/Weathered Bedr	5	12	11.5		V, M, D					V, M, D	
MW-4A	Bedrock	30	45	37.5		V, M, D					V, M, D	
MW-5R	erburden/Weathered Bedr	12	17	14.5		V, M, D					V, M, D	
MW-5A	Bedrock	30	45	37.5		V, M, D					V, M, D	
MW-6	erburden/Weathered Bedr	5	12	11.5		V, M, D					V, M, D	
MW-6A	Bedrock	27	44	35.5		V, M, D					V, M, D	
MW-7	erburden/Weathered Bedr	5.5	15.5	13.5		V, M, D					V, M, D	
MW-7AR	Bedrock	40	45	42.5		V, M, D					V, M, D	
MW-8A	Bedrock	33	40	--								
MW-11	erburden/Weathered Bedr	6.5	17.5	12		V, M, D					V, M, D	
MW-11A	Bedrock	58	82	70		V, M, D					V, M, D	
MW-13	Bedrock	21	40	--		W					W	
MW-14A	Bedrock	13	50	--		W					W	
MW-15	erburden/Weathered Bedr	2	12	7		V, M, D					V, M, D	
MW-15A	Bedrock	18	28	23		V, M, D					V, M, D	
MW-16A	erburden/Weathered Bedr	20	42	--		W					W	
MW-16B	Bedrock	81	71	60		V, M, D					V, M, D	
MW-16C	Bedrock	115	125	120		V, M, D					V, M, D	
MW-17A	erburden/Weathered Bedr	10	35	22.5		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-17B	Bedrock	91	101	96		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-18	erburden/Weathered Bedr	9	24	16.5		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-18A	Bedrock	47	52	49.5		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-19	erburden/Weathered Bedr	11	28	--		W					W	
MW-20	erburden/Weathered Bedr	9	24	--		W					W	
MW-20A	Bedrock	276	285	281		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-21	erburden/Weathered Bedr	4	14	9		V, M, D					V, M, D	
MW-21A	Bedrock	55	65	60		V, M, D					V, M, D	
MW-22	erburden/Weathered Bedr	6	18	--		V, M, D					V, M, D	
MW-22A	Bedrock	27	35	40		V, M, D					V, M, D	
MW-25	erburden/Weathered Bedr	3	12.5	5		W					W	
MW-27AR	Bedrock	37	81	--		V, D					V, D	
MW-31	erburden/Weathered Bedr	7	17	16.5		V, D					V, D	
MW-34R	erburden/Weathered Bedr	3	13	8		V, D					V, D	
MW-35	erburden/Weathered Bedr	1.62	9.52	7.5		V, M, D					V, M, D	
MW-35AR	Bedrock	40	45	42.5		V, M, D					V, M, D	
MW-37	erburden/Weathered Bedr	4	11.7	--		W					W	
MW-37A	Bedrock	38.5	44.5	--		W					W	
MW-37B	Bedrock	84	71.5	65.5		V, M, D					V, M, D	
MW-38	Bedrock	30	35	--		W					W	
MW-38A	Bedrock	48	53	--		W					W	
MW-39	erburden/Weathered Bedr	8.5	16.5	--		W					W	
MW-39A	Bedrock	67.5	72.5	--		W					W	
MW-41	erburden/Weathered Bedr	3	13	--		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-42	erburden/Weathered Bedr	10	20	--		F, T, V, M, G, D					F, T, V, M, G, D	
MW-43	Weathered Bedrock	4	14	13.5		V, M, D					V, M, D	
MW-44	Weathered Bedrock	12	22	21.5		V, M, D					V, M, D	
MW-47	erburden/Weathered Bedr	3	13	11.25		V, M, D					V, M, D	
MW-51	erburden/Weathered Bedr	6.5	16.5	16.22		V, M, D					V, M, D	
MW-52R	erburden/Weathered Bedr	15	21	18.5		V, M, D					V, M, D	
MW-62	erburden/Weathered Bedr	4.5	15	10		W					W	
MW-63	erburden/Weathered Bedr	4.5	15	--		W					W	
MW-64	erburden/Weathered Bedr	4.5	14	--		W					W	
MW-65	erburden/Weathered Bedr	5.5	12.5	--		W					W	
MW-69	erburden/Weathered Bedr	18	28	23		V, D					V, D	
MW-70	erburden/Weathered Bedr	18	30	24		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-71	Bedrock	23	35	--		F, T, V, M, D					F, T, V, M, D	
MW-73R	Bedrock	108	110	22		W					W	
MW-74	Bedrock	108	96	91		V, M, D					V, M, D	
MW-75	Bedrock	95	96	91		V, M, D					V, M, D	
MW-76	erburden/Weathered Bedr	9.5	19.5	17.2		V, M, D					V, M, D	
MW-77	erburden/Weathered Bedr	8	19	16.75		V, M, D					V, M, D	
MW-77A	Bedrock	71	81	76		W					W	
MW-79	erburden/Weathered Bedr	8	20	--		W					W	
MW-79	erburden/Weathered Bedr	7	17	--		W					W	
MW-80	Overburden/ Weathered Bedrock	24	34	29		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-81	Weathered Bedrock	23.5	33.5	28.5		V, M, D					V, M, D	
MW-82	Overburden/ Weathered Bedrock	24	34	29		V, M, D					V, M, D	
MW-84R	Overburden/ Weathered Bedrock	24	34	29		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-84AR	Bedrock	73	83	78		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-85	Bedrock	111	121	116		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-86	Bedrock	112	122	117		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-87	Bedrock	91	101	96		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-88	Bedrock	76.5	86.5	83		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-89	erburden/Weathered Bedr	20	30	25		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-89A	Bedrock	91	101	96		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
MW-90R	erburden/Weathered Bedr	20	30	--		W					W	
MW-90AR	Bedrock	80	90	--		W					W	
UST-1	Bedrock	25	80	--		V, D					V, D	
UST-3	Bedrock	25	61	43		W					W	
UST-4	Bedrock	28	40	--		V, D					V, D	
UST-7	Bedrock	100	115	107.5		W					W	
UST-8R	Bedrock	30	55	42.5		V, D					V, D	
UST-11	Bedrock	27	55	--		W					W	
RW-200a	Bedrock	45	55	--								
RW-200b	Bedrock	80	90	--		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-200c	Bedrock	110	120	115								
RW-201a	Bedrock	45	55	--		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-201b	Bedrock	70	80	--								
RW-201c	Bedrock	110	120	115		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-202a	Bedrock	45	55	--								
RW-202b	Bedrock	90	100	95		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-202c	Bedrock	45	55	--								
RW-203b	Bedrock	70	80	--		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-203c	Bedrock	60	100	95		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-204a	Bedrock	45	55	--								
RW-204b	Bedrock	80	90	--								
RW-204c	Bedrock	110	120	115		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-205a	Bedrock	45	55	50		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-205b	Bedrock	70	80	75		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-205c	Bedrock	90	100	95		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-205d	Bedrock	45	55	50		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-205e	Bedrock	75	85	80		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-206	Bedrock	110	120	115		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-207	Bedrock	60	120	100		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-208	Bedrock	60	120	100		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-209 (angled)	Bedrock	80	210	150		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-210 (angled)	Bedrock	100	220	150		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-211	Bedrock	60	150	100		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
RW-212	Bedrock	60	150	100		F, T, V, M, G, N, D					F, T, V, M, G, N, D	
OP-1R	Surface Water Location			--		W					W	
OP-2R	Surface Water Location			--		W					W	
OP-3	Surface Water Location			--		W					W	
OP-4	Surface Water Location			--		W					W	
OP-5	Surface Water Location			--		W					W	
OP-6	Surface Water Location			--		W					W	
OP-7R	Surface Water Location			--		W					W	
OP-8R	Surface Water Location			--		W					W	
OP-9R	Surface Water Location			--		W					W	
OP-10	Surface Water Location			--		W					W	
OP-11R	Surface Water Location			--		W					W	
OP-12R	Surface Water Location			--		W					W	
OP-13R	Surface Water Location			--		W					W	
OP-14R	Surface Water Location			--		W					W	
OP-15R	Surface Water Location			--		W					W	
OP-16R	Surface Water Location			--		W					W	
OP-17R	Surface Water Location			--		W					W	
OP-19	Surface Water Location			--		V, M, D					V, M, D	
SW-1	Surface Water Location			--		V, M, D					V, M, D	
SW-2	Surface Water Location			--		V, M, D					V, M, D	
SW-3	Surface Water Location			--		V, M, D					V, M, D	
SW-4	Surface Water Location			--		V, M, D					V, M, D	
SW-5	Surface Water Location			--		V, M, D					V,	

TABLE III
PERMIT-RELATED CEA CONSTITUENTS
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Compound Group	Chemical Name	Maximum Concentration (ug/L)	GWQS (ug/L)	Location of Maximum Concentration	Date of Maximum Concentration
Above GWQS					
Inorganic Compounds	Antimony	9.8	6	MW-87	12/18/2015
	Arsenic	4.5	3	MW-87	3/26/2014
	Beryllium	2.9	1	MW-84A	3/27/2014
	Chromium	12500	70	MW-44	8/14/2008
	Chromium VI (Hexavalent)	13730	70	MW-44	8/14/2008
	Iron	125000	300	RW-207	5/20/2020
	Lead	12.3	5	MW-84A	3/27/2014
	Manganese	209000	50	RW-207C	3/16/2021
	Nickel	4620	100	MW-44	8/14/2008
	Sodium	26400	50000	MW-84R	8/20/2019
Other	Nitrate (as N)	34000	10000	MW-85	8/25/2016
	Sulfate	431000	250000	RW-207C	4/8/2020
Semi-Volatile Organic Compounds	Benzo(a)anthracene	0.89	0.1	MW-84	6/26/2014
	Benzo(a)pyrene	0.34	0.1	MW-84A	9/18/2015
	Benzo(b)fluoranthene	0.7	0.2	MW-84A	9/18/2015
	Benzo(b)fluoranthene	0.59	0.2	MW-84A	6/15/2015
	bis(2-Ethylhexyl)phthalate	12	3	MW-84	9/18/2015
	Hexachlorobenzene	0.026	0.02	MW-44	12/9/2013
Volatile Organic Compounds	Indeno(1,2,3-cd)pyrene	0.44	0.2	MW-84A	6/15/2015
	1,1,2-Trichloroethane	42	3	MW-87	3/26/2014
	1,1-Dichloroethene	180	1	Sample Port	4/7/2020
	1,2-Dichloroethane	5.1	2	RW-207	5/20/2020
	1,4-Dioxane	210	0.4	MW-84	6/26/2014
	Benzene	2.4	1	RW-207	5/20/2020
	Bromomethane (Methyl Bromide)	15	10	RW-205	9/8/2017
	Carbon tetrachloride	690	1	MW-84A	6/11/2013
	cis-1,2-Dichloroethene	43000	70	Sample Port	4/7/2020
	Methyl cyclohexane	240	100	MW-84A	3/27/2017
	Methylene chloride	120	3	MW-84A	12/13/2013
	Tetrachloroethene	40	1	MW-87	3/26/2014
	trans-1,2-Dichloroethene	220	100	RW-208	8/26/2020
	Trichloroethene	91000	1	RW-208B	9/3/2019
	Vinyl chloride	20000	1	RW-208	3/17/2021
Associated with Amendment					
Other	Chloride	48000	250000	MW-85	12/19/2019
	Total Dissolved Solids (TDS)	2480000		MW-84AR	12/19/2019

Table III (July 2, 2021 email)

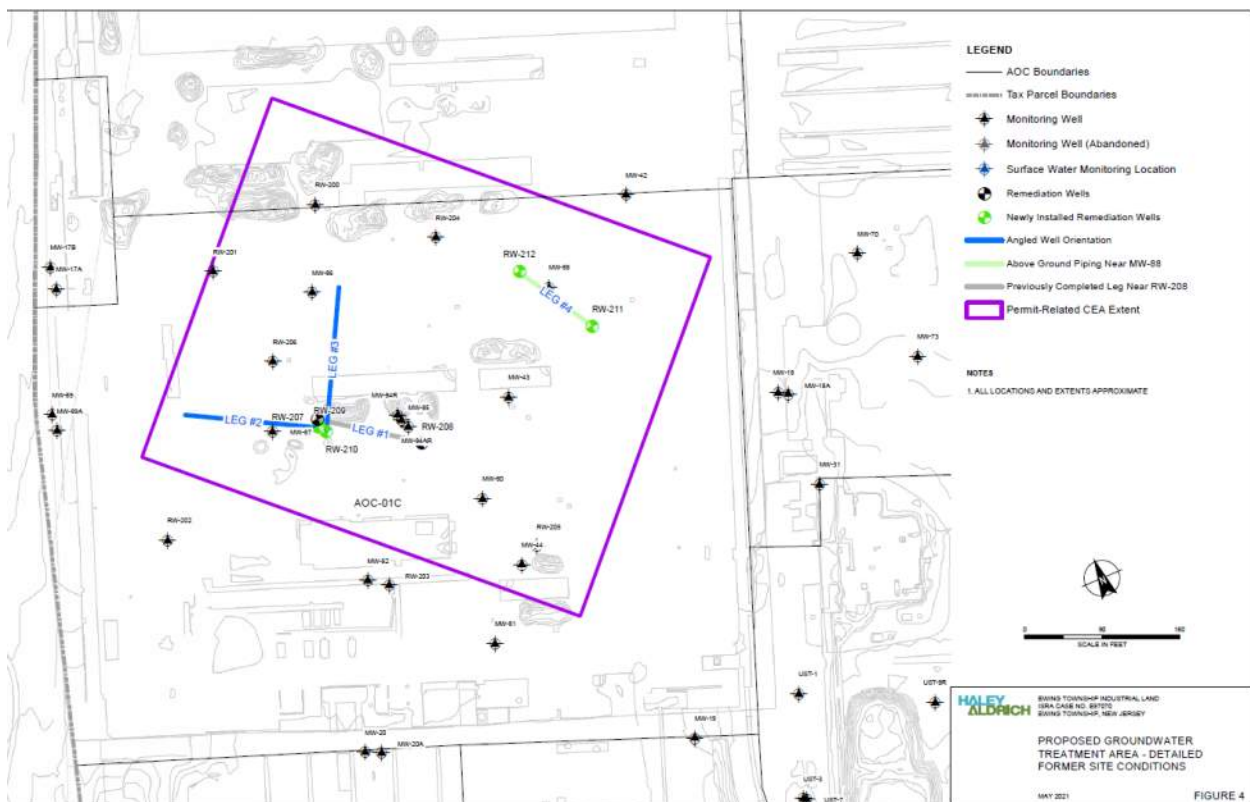
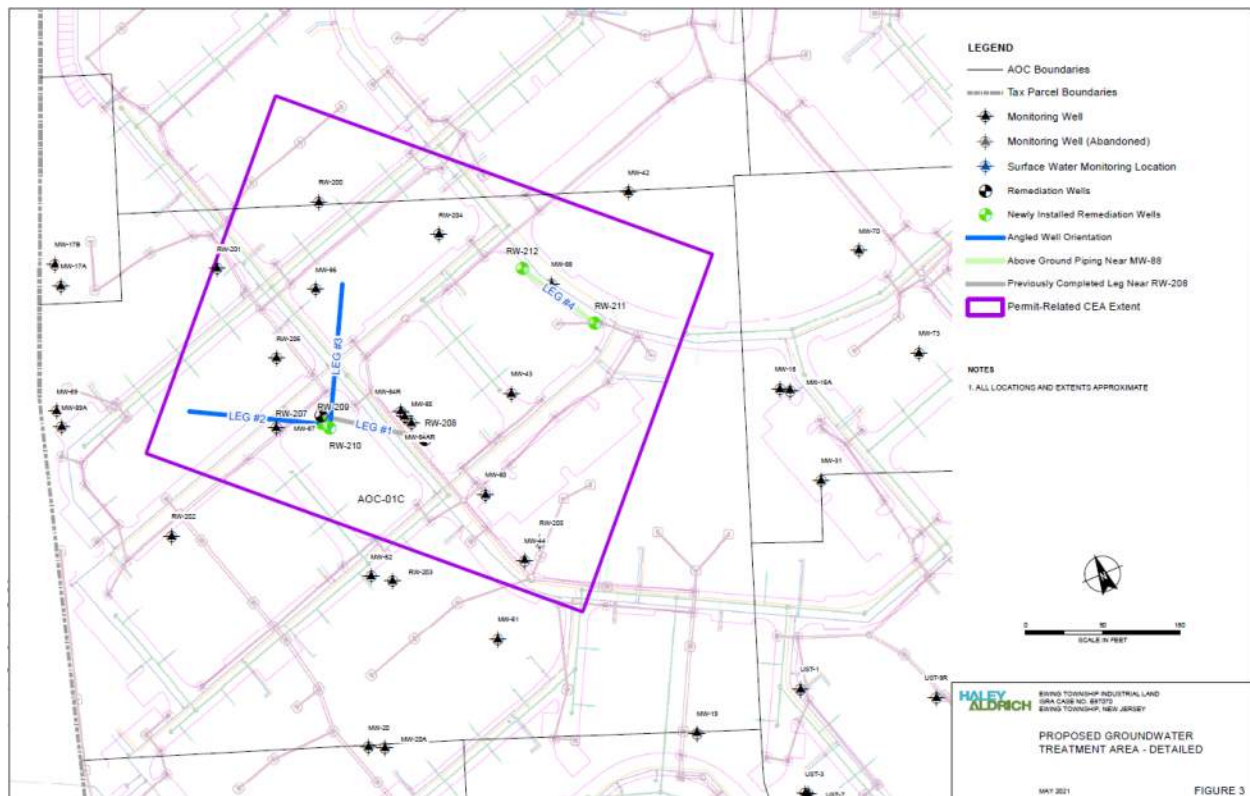
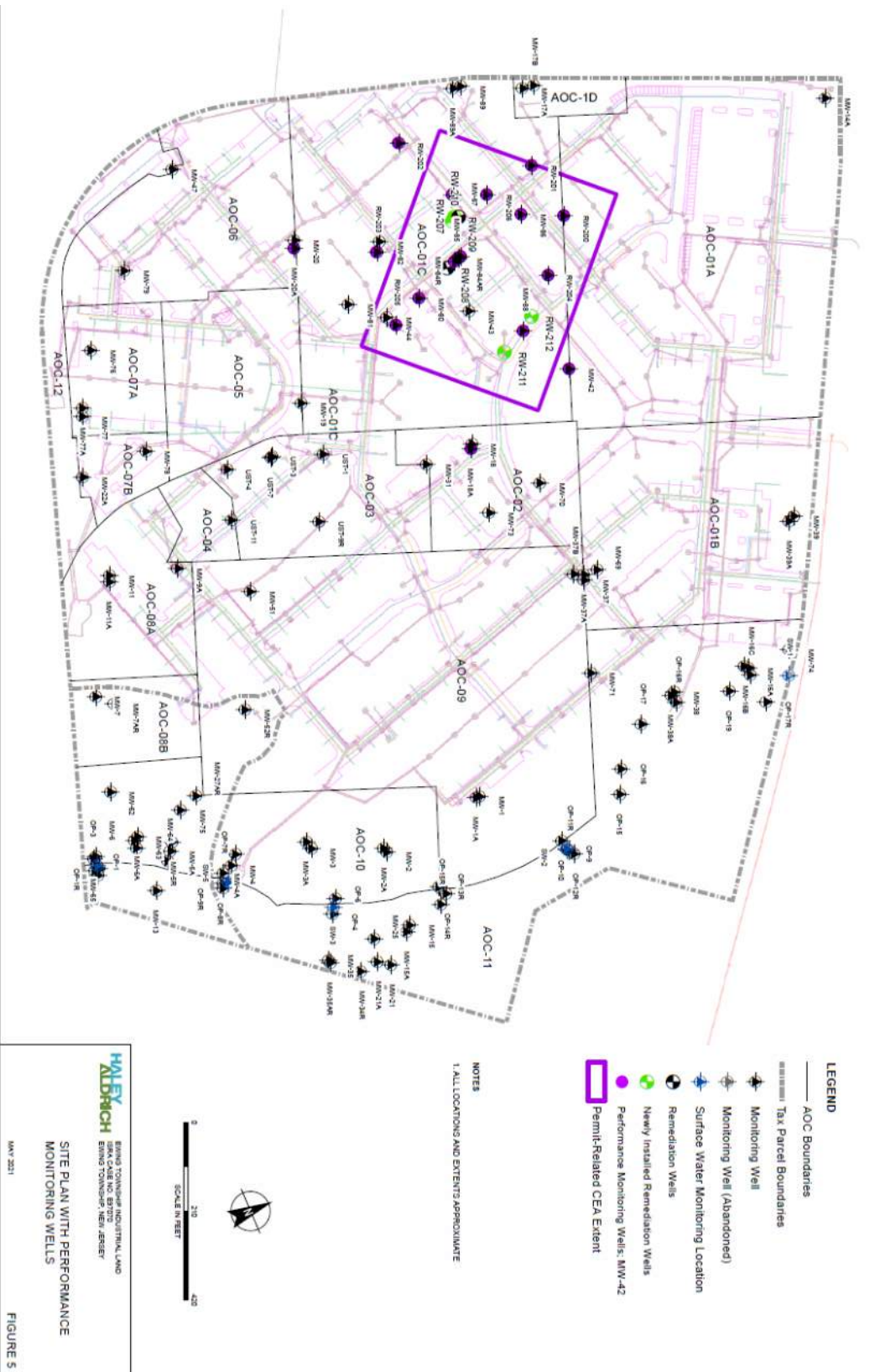


Figure 3 and 4 – Treatment Area Current Site Conditions and Former Site Conditions (May 2021 PBR Proposal)



TRAFLET ALPHOU LUMSPHMEJLE LUMMUPPHWJEU181AD1800 = 2021 EPD INREU HUNGWAP/UTS DU UTS GYUPOUS SEU HUN AAMAT 2021/2021

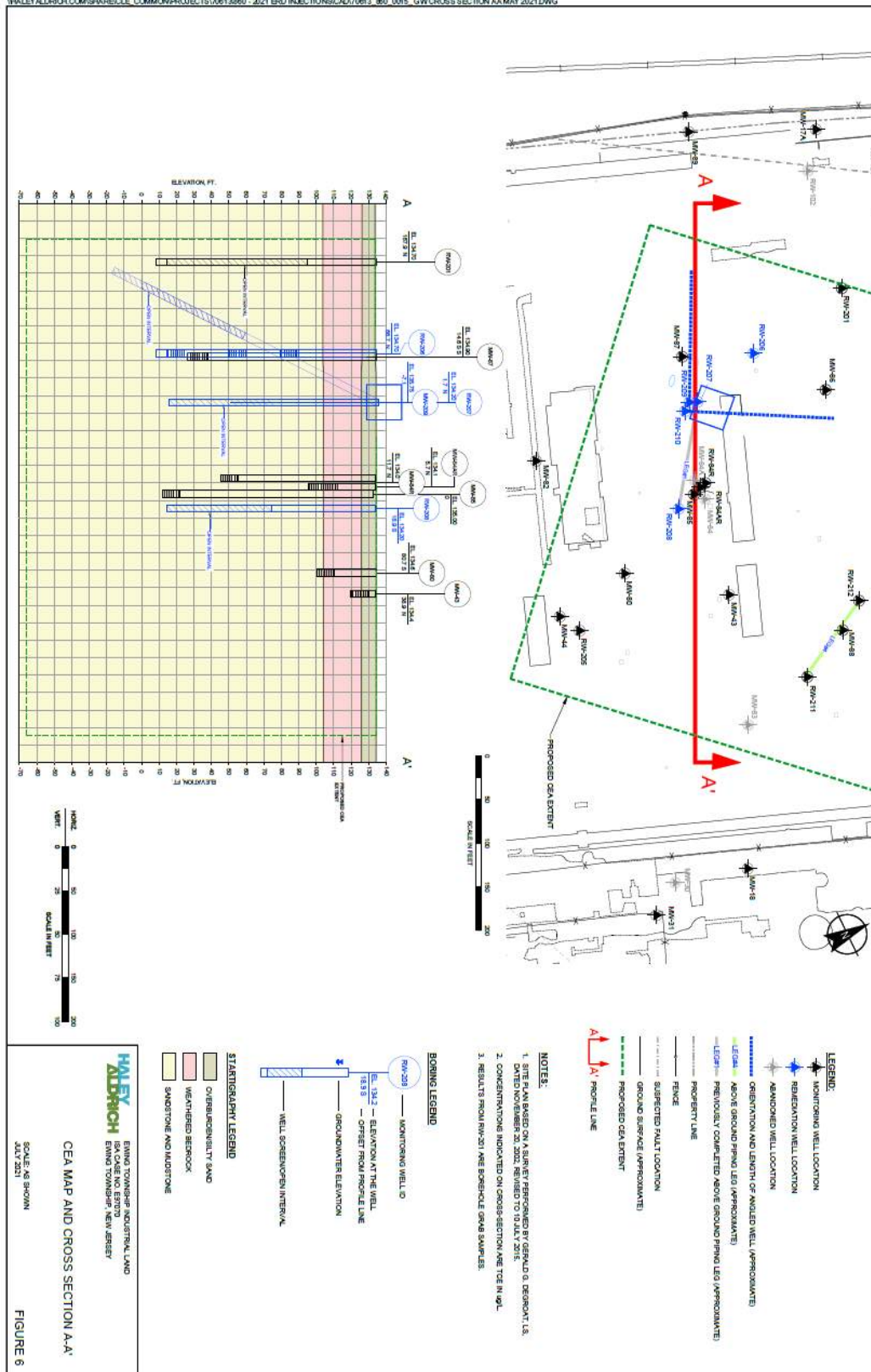


Figure 6 – Leg 1 and Leg 2 Cross-Section (July 1, 2021 email)

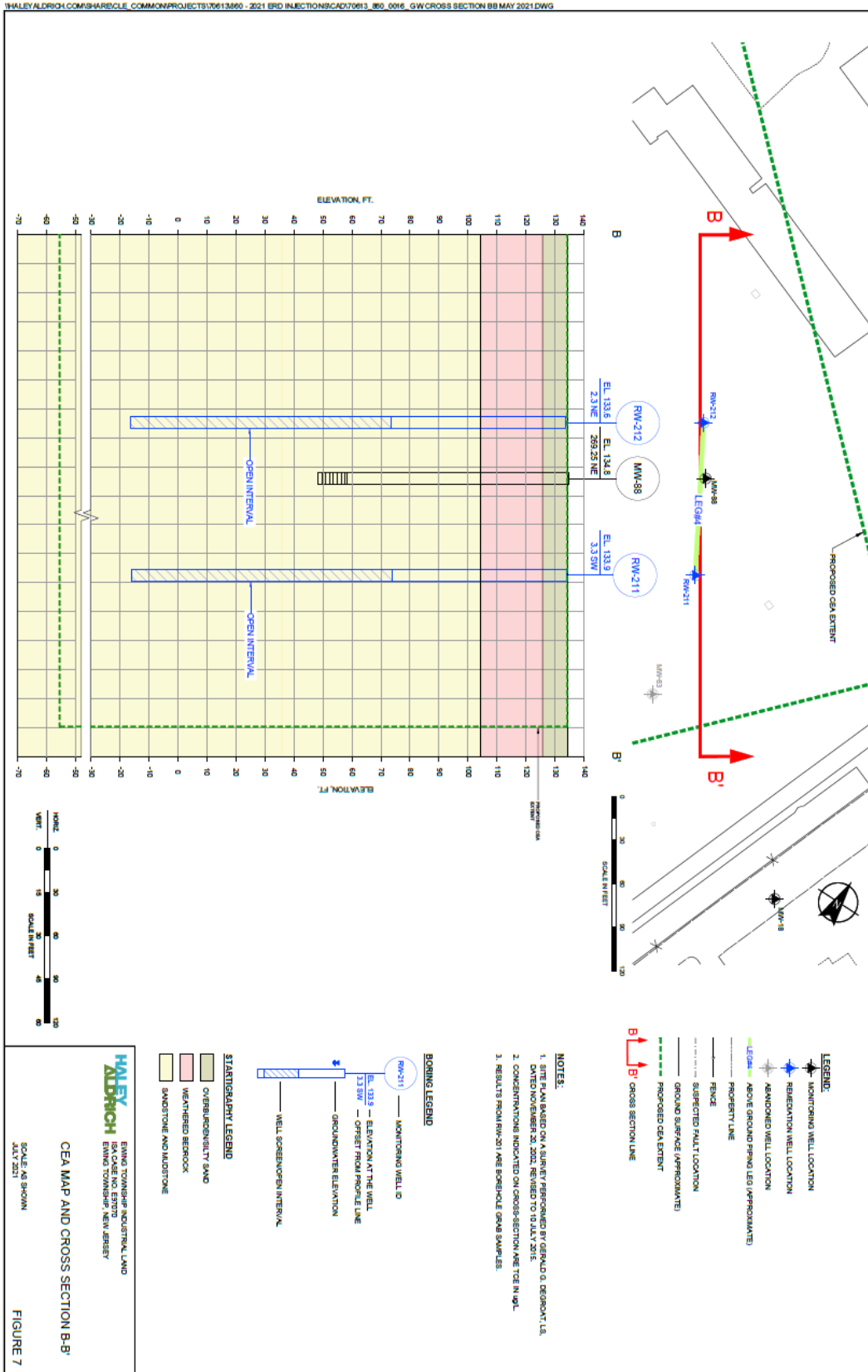


Figure 7 – Leg 4 Cross-Section (July 2, 2021 email)

