MUNICIPAL SETTING DESIGNATION APPLICATION RV1

Former Cooling Plant

1501 Seamist Drive
Houston, Texas 77008
MEC^X Project No.: 1567.002C.00

Prepared for:
Mr. Timothy Pischulla
Goodman Global Group, Inc.
A Member of *Daikin* Group
19001 Kermier Rd
Waller, Texas 77484

28 JULY 2022

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Revision	**Date**	**Contributors**	**Author**	**Technical Review**	**Internal Standards Review**	**Description**
0	9 December 2021	Alex Shaver, E.I.T.	☒	☐	☒	Draft-Final
		Luke Murray	☒	☐	☐	
		Isaac Aboulafia, P.E.	☐	☒	☒	
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		Luke Murray	☒	☐	☐	
		Isaac Aboulafia, P.E.	☐	☒	☒	

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APPENDICES

Municipal Setting Designation
Application Instructions

Pre-Application Meeting: While a pre-application meeting is not mandatory, it is strongly encouraged to discuss the specific details of the site. Please note: the City of Houston will not support a Municipal Settings Designation (MSD) application unless a Professional Geologist (P.G.) or Professional Engineer (P.E.) has certified that the groundwater plume is stable or decreasing, fully delineated, and the source has been removed. This statement should be supported with historical groundwater monitoring data showing the plume as stable or declining, and fully delineated.

Please contact Mark A. Wooten Jr. at (832) 394-9003, mark.wooten@houstontx.gov to schedule a pre-application meeting. Meetings will be held at 1002 Washington, Houston, TX 77002

Application Form: For the application to be complete please submit the following:

1) Two (2) hard copies of the application (the well logs are not necessary for the hard copies but should be included in the electronic copy). Please separate the application appendices with divider sheets that are tabbed.
2) An electronic portable digital file (pdf) of the application including all supporting material
3) An electronic Excel file with mailing addresses for water well owners and property owners. (Templates can be found on the MSD website, www.houstonmsd.org)

The MSD application process is governed by Chapter 47, Article XIII of the City of Houston's Code of Ordinances (ordinance number 2007-959, and amended by ordinance number 2010-556). Failure to use this application form may result in denial of the application.

Please note, the City ordinance requires the Professional Engineer (P.E.) or Professional Geologist (P.G.) who signed the application, or someone that is familiar with the application, and the applicant or their legal representative (attorney) to be present at public meeting and public hearing. Failure of the required parties in attendance at the public meeting and public hearing will result in having to schedule a new meeting or hearing.

The application should be clear, complete, concise, correct, contain only relevant information and be organized to facilitate analysis. Supporting documentation should be submitted as a separate appendix to the application, as noted (Label "Appendix_ ") for each numbered item.

Submittal: Submit the application form and all supporting information, along with an application fee of $3,400.00 (payable to City of Houston) to the address below. The applicant must also pay the cost of producing and mailing notices, (approximately $6.50 per certified mail and $1.50 per first-class mail), and any applicable venue costs (costs vary by location). Mailings are done through the U.S. Post Office's Click2Mail system. At the time of the mail outs, staff will require a credit card number to pay for processing and mailing the notices.

Mark A. Wooten Jr.
City of Houston MSD Program
1002 Washington, 3rd Floor
Houston, Texas 77002

CITY OF HOUSTON

HOUSTON PUBLIC WORKS
HOUSTON WATER DIVISION

Application for Approval of Municipal Setting Designation

APPLICANT INFORMATION

Applicant's Name: Goodman Global Group, Inc.

☐Individual ☒Private Entity ☐Public Entity ☐Non-Profit Entity ☐Other _____

Address: 19001 Kermier Road (Street) | Waller (City) | Texas (State) | 77484 (Zip)

Phone No.: 832-702-0788 Fax No.: _____

Email: Timothy.Pischulla@goodmanmfg.com

Contact Information

Name of Contact: Tim Pischulla

Title: Vice President

Address: 19001 Kermier Road (Street) | Waller (City) | Texas (State) | 77484 (Zip)

Phone No.: 832-702-0788 Fax No.: _____

Email: Timothy.Pischulla@goodmanmfg.com

Application Preparation

Application Prepared by: Isaac Aboulafia, P.E.

Company: MECX, Inc.

Address: 8864 Interchange Dr (Street) | Houston (City) | Texas (State) | 77054 (Zip)

Phone No.: 713-585-7000 Fax No.: _____

Email: Isaac.Aboulafia@mecx.net

SITE INFORMATION

Site HCAD No(s): 0992210000010

Site Name: Former Cooling Plant

Site Size: 15.17 acres

Site Address: 1501 Seamist Drive (Street) | Houston (City) | Texas (State) | 77008 (Zip)

(List all owners – additional sheet is attached, if needed)

Owner: Dickson Furniture Manufacturers

Owner Address: 6900 Overmyer Dr. (Street) | Houston (City) | Texas (State) | 77008 (Zip)

Name of Contact: Vishnu Banka

Title: Vice President

Organization: Dickson Furniture Manufacturers

Phone No.: 346-204-4307 Fax No.: _____

Email: vbanka@dicksonfurniture.com

Owner: _____

Owner Address: _____ (Street) | (City) | (State) | (Zip)

Name of Contact: _____

Title: _____

Organization: _____

Phone No.: _____ Fax No.: _____

Email: _____

Owner: _____

Owner Address: _____ (Street) | (City) | (State) | (Zip)

Name of Contact: _____

Title: _____

Organization: _____

Phone No.: _____ Fax No.: _____

Email: _____

Owner: ____

Owner Address:____
(Street) (City) (State) (Zip)

Name of Contact: ____

Title: ____

Organization: ____

Phone No.: ____________________ Fax No.: ____________________

Email: ____

Owner: ____

Owner Address:____
(Street) (City) (State) (Zip)

Name of Contact: ____

Title: ____

Organization: ____

Phone No.: ____________________ Fax No.: ____________________

Email: ____

Owner: ____

Owner Address:____
(Street) (City) (State) (Zip)

Name of Contact: ____

Title: ____

Organization: ____

Phone No.: ____________________ Fax No.: ____________________

Email: ____

Owner: ____

Owner Address:____
(Street) (City) (State) (Zip)

Name of Contact: ____

Title: ____

Organization: ____

Phone No.: ____________________ Fax No.: ____________________

Email: ____

ITEM	COH Use
Executive Summary	
1. Provide a legal description of the boundaries of the designated property, including metes and bounds, and a copy of the deed for the property. A professional surveyor currently registered with the Texas Board of Professional Surveying must certify that all property descriptions with metes and bounds are accurate. ***Label "Appendix A"***	
2. A description of the current use and, to the extent known, the anticipated use(s) of the designated property and properties within 500 feet of the boundary of the designated property. ***Label "Appendix B"***	
3. A site map showing. a. The location of the designated property. b. The topography of the designated property as indicated on publicly available sources, which must note the watershed including the nearest surface water body and whether the designated property is located in a floodplain or floodway, as those terms are defined in Chapter 19 of the Code of Ordinances. c. The detected area of groundwater contamination. d. The location of all soil sampling locations and all groundwater monitoring wells. e. Groundwater gradients, to the extent known, and direction of groundwater flow. f. The ingestion protective concentration level exceedence zone for each contaminant of concern, to the extent known. g. Depth to groundwater for each affected zone. ***Label "Appendix C"***	
4. Provide for each contaminant of concern within the designated groundwater: a. A description of the ingestion protective concentration level exceedence zone and the non-ingestion protective concentration level exceedence zone, including a specification of the horizontal area and the minimum and maximum depth below ground surface. b. The level of contamination, the ingestion protective concentration level, and the non-ingestion protective concentration level, all expressed as mg/L units. c. Its basic geochemical properties (e.g., whether the contaminant of concern migrates with groundwater, floats or is soluble in water). ***Label "Appendix D"***	
5. A table displaying the following information for each contaminant of concern, to the extent known: a. The maximum concentration level for soil and groundwater, the ingestion protective concentration level, and the non-ingestion protective concentration level, all expressed as mg/kg for soils and mg/L for groundwater. b. The critical protective concentration level without the municipal setting designation, highlighting any exceedences. ***Label "Appendix E"***	

ITEM	COH Use Only
6. If the plume extends beyond the limits of property owners listed in this application, list the owners of the additional property beneath which the plume(s) extend(s), and a summary of interactions with those property owners about the plume(s) and this MSD application. Please Note: You are not required under this item to notify affected property owners, only to provide a summary of who affected property owners are, and if there have been any communications. "No contact" can be an acceptable answer. ***Label "Appendix F"***	
7. A statement as to whether the source of the plume has been removed, the plume of contamination is stable (i.e. no change) or contracting, and the plume is delineated, **with the basis for that statement**. Please include historical sampling data. ***Label "Appendix G"***	
8. A statement as to whether contamination on and off the designated property without a Municipal Setting Designation will exceed a residential assessment level as defined in the Texas Risk Reduction Program or analogous residential level set by EPA, if known, and the basis for that statement. ***Label "Appendix H"***	
9. A statement as to whether contamination on and off the designated property with a Municipal Setting Designation will exceed a residential assessment level as defined in the Texas Risk Reduction Program or analogous residential level set by EPA, if known, and the basis for that statement. ***Label "Appendix I"***	
10. Identification of the points of origin of the contamination, to the extent known. **Please list the Potentially Responsible Party (PRP), if unknown, state unknown. (*applications without the PRP listed will be deemed incomplete)*** ***Label "Appendix J"***	
11. Environmental regulatory actions, litigation, and plume identification. a. A description of any environmental regulatory actions that have been taken within the past five years in connection with the designated property, to the extent known. b. A description of any litigation that has taken place within the past five years in connection with the designated property, to the extent known. c. A statement as to whether there are any other remediation activities by the applicant, or any other party or agency, which are not listed in the application. *d.* A statement as to which contamination plume and groundwater zone the applicant is including in the MSD. ***Label "Appendix K"***	
12. A listing of all existing state or EPA registrations, permits, and identification numbers that applies to the designated property. ***Label "Appendix L"***	

ITEM	COH Use Only
13. Provide evidence that the designated property is currently or has previously been under the oversight of the TCEQ or the United States Environmental Protection Agency, as required by the Texas Health & Safety Code § 361.8065(c)(2)(A), and a description of the status of the designated property in the program (the program application number is sufficient evidence). Also, include the state or federal cleanup project manager's name. ***Label "Appendix M"***	
14. A summary of any environmental site assessment reports filed with TCEQ regarding any site investigations or response actions that are planned, ongoing or completed related to the designated property. ***Label "Appendix N"***	
15. A statement as to whether any public drinking water supply system exists that satisfies the requirements of Chapter 341 of the Texas Health and Safety Code and that supplies or is capable of supplying drinking water to the designated property and property within one-half mile of the designated property and the identity of each supply system. ***Label "Appendix O"***	
16. The name and address of each owner or operator of a water well registered or permitted by the state or the Houston-Galveston Subsidence District that is located within five miles of the boundary of the designated property, along with a map showing the location of each well and, to the extent known, a notation of whether each well is used for potable water. Well logs must be included in the electronic copy of the application, but should not be included in the hard copies. (An accompanying electronic excel file with mailing information should be included with your application.) ***Label "Appendix P"***	
17. The name and address of each retail public utility, as defined in section 13.002 of the Texas Water Code that owns or operates a groundwater supply well within five miles of the boundary of the designated property. ***Label "Appendix Q"***	
18. A listing of each municipality, other than the city of Houston, with a corporate limit within one-half mile of the boundary of the designated property. ***Label "Appendix R"***	
19. A listing of each municipality, other than the city of Houston, that owns or operates a groundwater supply well within five miles of the boundary of the designated property. ***Label "Appendix S"***	
20. A listing of owners of real property within 2,500 ft. of the boundary of the designated property as indicated by the most recent appraisal district records. Please Note: This requirement may include real property outside the City of Houston. Be sure to include **ALL** properties in the 2,500 ft. boundary. (An accompanying electronic excel file with mailing information should be included with your application.) ***Label "Appendix T"***	

ITEM	COH Use Only
21. Form U-2012-01 **signed and sealed** by a licensed professional engineer or licensed professional geoscientist authorized to practice in the State of Texas with expertise in environmental remediation. (Form U-2012-01 can be found at www.houstonmsd.org under the "Forms" section on the homepage.) Signing and sealing Form U-2012-01 certifies: a. The contaminants of concern from sources on the designated property or migrating from or through the designated property more likely than not [do exceed] OR [do not exceed] a non-ingestion protective concentration level on property beyond the boundaries of the designated property. (select the appropriate statement) b. All requirements of Section 47-762 of the Houston Code of Ordinances have been met, including demonstration that the groundwater contamination plume has been fully delineated and is stable or contracting in size ***Label "Appendix U"***	
22. If the licensed professional engineer or licensed professional geoscientist determines that contaminants of concern from sources on the designated property are migrating from or through the designated property more likely than not do exceed a non-ingestion protective concentration level on property beyond the boundary of the designated property, then the applicant must: a. Specify the name and address of the owner of each property. b. Send a copy of the application to the owner of the property with the notice of the public meeting. c. Provide documentation that the designated property has been included in a state or federal program that requires that the entire non-ingestion protective concentration level exceedence zone be addressed to the satisfaction of the agency administering the program, along with documentation of the estimated time period in which it is to be addressed. An example of such a program is the Texas Voluntary Cleanup Program (section 361.501 of the Texas Health and Safety Code, as may be amended from time to time). d. Provide documentation upon completion of the state or federal program showing that the non-ingestion protective concentration level exceedences have been addressed to the satisfaction of the agency administering the program. ***Label "Appendix V"***	
23. Form W-2012-01 **certified/signed** by the applicant and any authorized representatives of the applicant(s) listed in the application. (Form W-2012-01 is attached to the end of this application and can also be found at www.houstonmsd.org under the "Forms" section on the homepage.) ***Label "Appendix W"***	
24. Form X-2012-01 **signed** by the property owner or authorized agent (if an authorized agent, you must provide the legal authorization instrument). (Form W-2012-01 is attached to the end of this application and can also be found at www.houstonmsd.org under the "Forms" section on the homepage. ***Label "Appendix X"***	
25. A CD (or other devise) containing the pdf file of the application, Excel spreadsheet of water well owners and property owners for mailing notices, and the pdf file of the well log report. ***Label "Appendix Y"***	

EXECUTIVE SUMMARY

1.0 EXECUTIVE SUMMARY

MEC^X, Inc. (MEC^X) has prepared this Municipal Setting Designation (MSD) application on behalf of Goodman Global Group, Inc. (Goodman), the former property owner of the Former Cooling Plant assembly facility located at 1501 Seamist Drive, Harris County, Houston, Texas (Site). The Site encompasses approximately 15.17 acres and includes a split-level industrial warehouse structure of more than 500,000 square feet (SF) with roof parking and concrete-paved parking. Goodman, the former owner and operator of the Site, recently vacated the Site. Dickson Furniture Manufacturers (Dickson) currently owns and operates at the Site.

1.1 Topography

The elevation of the Site is approximately 70 feet (ft) above mean sea level (msl), with an east to northeast topographic relief. Significant water bodies in the vicinity of the Site include White Oak Bayou, which is located more than 2,700 ft northeast of the Site.

Storm water discharges from the Site to on-site basins, curbside street drainage and/or by unimproved sheet-flow, ultimately discharging into the City of Houston storm water system.

The Site is situated in Federal Emergency Management Agency (FEMA) Zone X, an area determined to be outside the 500-year flood plain with minimal flood hazard.

1.2 Geology/Hydrogeology

According to the Geologic Atlas of Texas, Houston Sheet (dated 1992) published by the Bureau of Economic Geology at the Balcones Research Center in Austin, the uppermost formation at the site is the Beaumont Formation. The Beaumont is a heterogeneous formation, containing thick interbedded layers of clay, fine sand and silt. The sands and silts, which vary in compactness from loose to very dense, are composed of quartz, feldspars, large particles of kaolinite, calcite and occasionally hornblende.

According to the Major Aquifers of Texas map published in 1990 by the Texas Water Development Board, the aquifer in the vicinity of the site is the regional Gulf Coast Aquifer. This aquifer is made up of many local aquifers; specifically, from shallowest to deepest are the Chicot, Evangeline and Jasper Aquifers. The Gulf Coast Aquifer consists of sand layers interbedded with clays that begin near the surface and continue to approximately 1,200 feet below ground surface (bgs). Regional groundwater flow is generally toward the east.

The general soil lithology encountered during sampling at the Site consisted of discontinuous layers of fill, clay, clayey sands and silty sand, with intermittent layers of clays, sand and silt from the surface and extending to approximately 45 ft bgs. Groundwater is first encountered beneath the Site at depths between 30 and 40 ft bgs. The water-bearing unit consist of a fine sand layer that varies from 1 foot thick to more than 5 ft thick.

1.3 Historical Operations

According to historical aerial photography, the far western portion of the Site was developed for single-family residential use since at least 1938, and the residence had been razed as of 1953.

The Site was developed with a warehousing/distribution facility and rail spur in 1967. According to city directories, JC Penny Co. occupied the Site from approximately 1975 through 1980, and Michelin Tire occupied the Site in approximately 1980. According to Harris County Appraisal District (HCAD), the Site

structures were altered in 1986, and city directories indicate that Goodman, an air conditioning and heating system manufacturer, occupied the Site since at least 1986.

The Site has been used for various industrial uses over the past 30 years or so. Following various Phase II environmental site assessments (ESA), the Site was entered into the Voluntary Cleanup Program (VCP) on 26 June 2019 and assigned case #3005. The applicable regulations are Texas Risk Reduction Program (TRRP) rules.

1.4 Historical Environmental Condition

During a December 2018 Phase I ESA conducted by others, several underground structures were observed, including approximately seventeen pits, two trench drains and either one or two concrete-filled underground storage tanks (USTs). The ESA report stated that the history of petroleum product and various hazardous material use in conjunction with multiple potential pathways to the subsurface located throughout the site structure constituted a recognized environmental concern (REC).

In January 2019, others conducted a Phase II ESA to determine if chemicals of concern (COCs) were present in soil and/or shallow groundwater at the Site. They collected groundwater samples from ten locations (TMW-01 through TMW-10) at the site for analyses of total petroleum hydrocarbons (TPH) and volatile organic compounds (VOCs). Dichloroethylene (1,1-DCE) exceeding groundwater ingestion ($^{GW}GW_{Ing}$) TRRP Tier 1 protective concentration levels (PCL) was detected.

MEC^X performed additional assessments including delineation of soil and groundwater at the Site in July 2019, November 2019 and February 2020. The investigation included collection of soil and groundwater from 11 locations on-site (MW-01 through MW-08 and SB-09 through SB-11). Additional COCs exceeding TRRP Tier 1 PCLs for $^{GW}GW_{Ing}$ detected include: tetrachloroethylene (PCE), bis (2-ethylhexyl) phthalate, trichloroethylene (TCE) and arsenic.

In July 2020, MEC^X advanced and collected samples from 4 additional soil borings (SB-12 through SB-15) to further delineate TPH near TMW-04. MEC^X also installed and collected samples from 3 additional permanent monitoring wells (MW-09 through MW-11) to further delineate chlorinated VOCs in response to TCEQ comments. Soil boring and monitoring well locations are shown on Figures A and C4. Additional COCs exceeding the TRRP Tier 1 PCLs for $^{GW}GW_{Ing}$ discovered during this event included: lead, barium, chromium, methylene chloride, vinyl chloride and C_6-C_{12} TPH.

1.5 Current Environmental Condition

MEC^X has continued quarterly groundwater monitoring of the 11 monitoring wells at the Site in accordance with TCEQ's requests.

From the most recent sampling data (September 2021), the COCs in groundwater at the Site include arsenic, 1,1-DCE, PCE, vinyl chloride and C_6-C_{12} TPH. Bis (2-ethylhexyl) phthalate has not exceeded the critical PCL within the past two years. The COC plumes have been fully delineated and have stabilized, with the exception of arsenic. However, the arsenic that extends beyond the property boundary is representative of regional background conditions and is not related to the former Goodman operations at the Site. The known historic processes used at the Site are not known to have included or contained arsenic. Arsenic is ubiquitous in this area at concentrations relatively consistent with the Texas Specific Background Concentrations (TSBC's). Additionally, arsenic exceeding the Tier 1 Commercial $^{GW}GW_{Ing}$ PCL was identified and accepted as background in three other VCP sites (# 2719, 1931 and 2721) within a half-mile radius of

the site. The PCLE zone for the Site (Figure C3.2) also suggests that the source of arsenic is off-site to the south-southeast.

Non-aqueous phase liquids (NAPL) have not been detected on-site. MEC^X also reviewed available historical environmental documents for the Site and did not find evidence of NAPL at the Site.

A summary of environmental events to date is provided below:

- December 2018: Phase I ESA (by others)
- January 2019: Phase II ESA (by others)
- July 2019: Additional boring/well installation and soil/groundwater sampling (MEC^X)
- November 2019: Additional groundwater sampling (MEC^X)
- February 2020: Additional groundwater sampling (MEC^X)
- July 2020: Additional boring/well installation and soil/groundwater sampling (MEC^X)
- October 2020: Additional groundwater sampling (MEC^X)
- January 2021: Additional boring installation and soil/groundwater sampling (MEC^X)
- May 2021: Additional groundwater sampling (MEC^X)
- September 2021: Additional groundwater sampling (MEC^X)

Appendix A

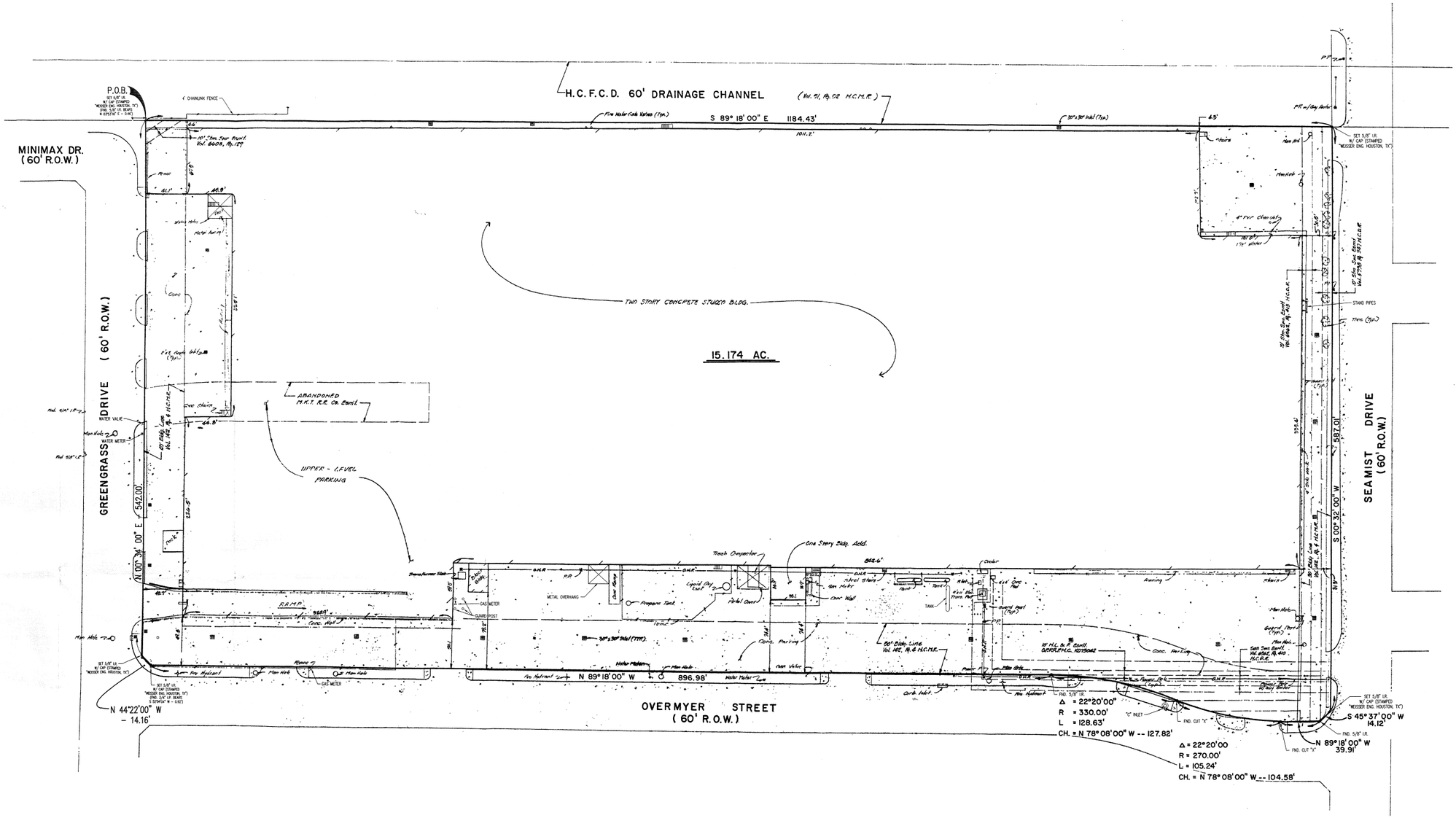
Appendix A

Provide a legal description of the boundaries of the designated property, including metes and bounds, and a copy of the deed for the property. A professional surveyor currently registered with the Texas Board of Professional Surveying must certify that all property descriptions with metes and bounds are accurate.

The legal description plus a metes and bounds description for the designated property is included in this section. A copy of the deed for the property is also included. The proposed MSD boundary encompasses 15.17-acres.

Figure A depicts the proposed MSD boundary.

PARTNERS TITLE COMPANY, G.F. No. 2715000010



KEY MAP No. 452-W

DESCRIPTION OF A 15.174-ACRE
(660,991 SQ. FT.) TRACT OF LAND
SITUATED IN THE JOHN REINERMAN
SURVEY, A-642, HARRIS COUNTY,
TEXAS

Being a 15.174-acre (660,991 square foot) tract of land situated in the John Reinerman Survey, A-642, Harris County, Texas and being all of Block 1 of Highland Industrial Park North as recorded by map or plat in Volume 142, Page 4 of the Map Records of Harris county, Texas. Said 15.174-acre tract being that same tract of land conveyed to Goodman Manufacturing Company, L.P. by instrument filed for record under Harris County Clerk's File No. R617771, Film Code No. 505-69-1837 of the Official Public Records of Real Property of Harris County, Texas and being more particularly described by metes and bounds as follows with the basis of bearings being the west line of said Block 1:

BEGINNING at a 5/8-inch iron rod with cap (stamped "WEISSER ENG. HOUSTON, TX") set at the intersection of the north right-of-way line of Minimax Drive (60 foot width), the east right-of-way line of Greengrass Drive (60 foot width) as dedicated by map or plat filed for record in Volume 142, Page 4 of the Map Records of Harris County, Texas and the south line of a 60 foot wide drainage ditch as dedicated by map or plat filed for record in Volume 51, Page 52 of the Map Records of Harris County, Texas and being the northwest corner of the herein described tract of land, from which a found 5/8-inch iron rod bears North 03 deg. 53 min. 16 sec. East, a distance of 0.46 feet;

THENCE South 89 deg. 18 min. 00 sec. East, along the south line of said 60 foot wide drainage ditch, a distance of 1184.43 feet to a 5/8-inch iron rod with cap (stamped "WEISSER ENG. HOUSTON, TX") set in the west right-of-way line of Seamist Drive (60 foot width) (formerly Glenleigh Drive) as dedicated by map or plat filed for record in Volume 57, Page 62 of the Map Records of Harris County, Texas and being the northeast corner of said tract herein described;

THENCE South 00 deg. 32 min. 00 sec. West, along the west right-of-way line of said Seamist Drive, a distance of 587.01 feet to a cut "X" found in concrete for the northerly corner of a 10 foot cut-back corner located at the intersection of the west right-of-way line of said Seamist Drive and the north right-of-way line of Overmyer Street (60 foot width) as dedicated by map or plat filed for record in Volume 142, Page 4 of the Map Records of Harris County, Texas and being the most easterly southeast corner of said tract herein described;

THENCE South 45 deg. 37 min. 00 sec. West, along said cut-back corner, a distance of 14.12 feet to a cut "X" set in concrete for the southerly end of said 10 foot cut-back corner and being the most southerly southeast corner of said tract herein described, from which a found 5/8-inch iron rod bears North 13 deg. 56 min. 09 sec. East, a distance of 0.44 feet;

THENCE North 89 deg. 18 min. 00 sec. West, along the north right-of-way line of said Overmyer Street, a distance of 39.91 feet to a cut "X" found in concrete for the beginning of a tangent curve to the right;

THENCE Easterly, continuing along the north right-of-way line of said Overmyer Street and with said curve to the right having a radius of 270.00 feet, a central angle of 22 deg. 20 min. 00 sec., a chord bearing of North 78 deg. 08 min. 00 sec. West and a chord distance of 104.58 feet for a curve length of 105.24 feet to a cut "X" found in concrete for the beginning of a reverse curve to the left;

THENCE Easterly, continuing along the north right-of-way line of said Overmyer Street and with said curve to the left having a radius of 330.00 feet, a central angle of 22 deg. 20 min. 00 sec., a chord bearing of North 78 deg. 08 min. 00 sec. West and a chord distance of 127.82 feet for a curve length of 128.63 feet to a 5/8-inch iron rod with cap (stamped "WEISSER ENG. HOUSTON, TX") set at a point of tangency and being angle point of said tract herein described,, from which a found 5/8-inch iron rod bears North 77 deg. 25 min. 21 sec. East, a distance of 2.21 feet;

THENCE North 89 deg. 18 min. 00 sec. West, continuing along the north right-of-way line of said Overmyer Street, a distance of 896.98 feet to a 5/8-inch iron rod with cap (stamped "WEISSER ENG. HOUSTON, TX") set at the southerly corner of a 10 foot cut-back corner located at the intersection of the north right-of-way line of said Overmyer Street and the east right-of-way line of said Greengrass Drive and being the most southerly southwest corner of said tract herein described, from which a found 3/4-inch iron pipe bears South 52 deg. 04 min. 04 sec. West, a distance of 0.92 feet;

THENCE North 44 deg. 22 min. 00 sec. West, along said 10' cut-back corner, a distance of 14.16 feet to a 5/8-inch iron rod with cap (stamped "WEISSER ENG. HOUSTON, TX") set for the northerly corner of said 10 foot cut-back corner and being the most westerly southwest corner of said tract herein described;

THENCE North 00 deg. 34 min. 00 sec. East, along the east right-of-way line of said Greengrass Drive, a distance of 542.00 feet to the POINT-OF-BEGINNING and containing 15.174-acres (660,991 square feet) of land.

I, WALTER P. SASS, A REGISTERED PROFESSIONAL LAND SURVEYOR OF THE STATE OF TEXAS, HEREBY CERTIFY THAT THE ABOVE PLAT CORRECTLY REPRESENTS A SURVEY MADE ON THE GROUND UNDER MY SUPERVISION ON NOVEMBER 07, 2003. THIS PROFESSIONAL SERVICE IS BASED UPON THE INFORMATION PROVIDED BY PARTNERS TITLE COMPANY, G.F. No. 2715000010 AND SUBSTANTIALLY CONFORMS TO THE CURRENT TEXAS SOCIETY OF PROFESSIONAL LAND SURVEY STANDARDS AND SPECIFICATIONS FOR A CATEGORY 1A, CONDITION II SURVEY.

WALTER P. SASS 4410

WALTER P. SASS
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF TEXAS, No. 4410

NOTE:
THIS SURVEY IS BEING CREATED SOLELY FOR THE PARTIES HEREIN STATED; NO LICENSE HAS BEEN CREATED, EXPRESSED OR IMPLIED TO COPY THE SURVEY EXCEPT AS IS NECESSARY IN CONJUNCTION WITH THIS TRANSACTION.

ADDRESS: 690 OVERMYER STREET
HOUSTON, TX 77008

SUBJECT TO:
1. RESTRICTIVE COVENANTS AS SET OUT IN VOLUME 142, PAGE 4 OF THE MAP RECORDS OF HARRIS COUNTY, TEXAS, AND BY INSTRUEMNTS FILED FOR RECORD IN VOLUME 3266, PAGE 580, VOLUME 6399, PAGE 596, VOLUME 6379, PAGE 219 OF THE DEED RECORDS OF HARRIS COUNTY, TEXAS AND UNDER HARRIS COUNTY CLERK'S FILE No. D118114 AND D118115 OF THE OFFICIAL PUBLIC RECORDS OF REAL PROPERTY OF HARRIS COUNTY, TEXAS.
2. SUBJECT PROPERTY IS LOCATED WITHIN THE CITY OF HOUSTON OR WITHIN ITS EXTRA TERRITORIAL JURISDICTION (WITHIN 5 MILES OF THE CITY LIMITS BUT THOSE OUTSIDE ANOTHER MUNICIPALITY) IT IS SUBJECT TO THE TERMS, CONDITIONS AND PROVISIONS OF CITY OF HOUSTON ORDINANCE NO. 85-1878, PERTAINING TO, AMONG OTHER THINGS, THE PLATTING AND REPLATTING OF REAL PROPERTY AND TO THE ESTABLISHMENT OF BUILDING LINES. A CERTIFIED COPY OF SAID ORDINANCE WAS FILED OF RECORD ON AUGUST 1, 1991, UNDER HARRIS COUNTY CLERK'S FILE NO(S). N253886 AND AS AMENDED BY THE CITY OF HOUSTON UNDER ORD. No. 99-262.

NOTE:
BASED ON GRAPHIC DETERMINATION
THIS PROPERTY IS NOT
IN THE 100-YEAR FLOOD ZONE
PER F.I.R.M. MAP COMMUNITY
PANEL No. 480296 0665 K
DATED APRIL 20, 2000 AND IS
DESIGNATED TO BE IN ZONE "X"

WEISSER
Engineering Co.
19500 Park Row
Houston, Texas 77084
(281) 579 - 7300

SURVEY OF A 15.174-ACRE (660,991 SQ. FT.) TRACT OF LAND SITUATED IN THE JOHN REINERMAN SURVEY, A-642, HARRIS COUNTY, TEXAS.

JOB No.: AK158 (397-158) SCALE: 1" = 30'
DATE: 11/07/03

SPECIAL WARRANTY DEED

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

STATE OF TEXAS §
§ KNOW ALL MEN BY THESE PRESENTS:
COUNTY OF HARRIS §

GOODMAN MANUFACTURING COMPANY, L.P., a Texas limited partnership ("Grantor"), for and in consideration of (a) the sum of Ten Dollars ($10.00) and other good and valuable consideration paid by **DICKSON REAL ESTATE, LLC**, a Texas limited liability company ("Grantee"), whose mailing address is 6900 Overmyer Drive, Houston, Texas 77008, Attention: Doug Mueller, to Grantor, the receipt and sufficiency of which are hereby acknowledged, and (b) further consideration of certain sums paid to Grantor herein by Zions Bancorporation, N.A. d/b/a Amegy Bank (the "Mortgagee"), at the special instance and request of Grantee, the receipt of which is hereby acknowledged, and as evidence of such advancement, and of other sums paid or to be paid to or for the benefit of Grantee, Grantee has executed and delivered a promissory note of even date herewith (the "Note") payable to the order of Mortgagee, principal and interest being due and payable as therein provided, which Note is secured by the vendor's lien herein reserved and is additionally secured by that one certain Deed of Trust, Assignment of Rents, Security Agreement and Financing Statement ("Deed of Trust"), executed by Grantee to George M. Marshall, having an address of 1717 West Loop South, Houston, Texas 77027, Trustee, reference to which is here made for all purposes, and in consideration of the payment of the sums above-mentioned by Mortgagee, Grantor hereby transfers, sets over, assigns, and conveys unto Mortgagee the vendor's lien and superior title herein retained and reserved against the Property (described below) in the same manner and to the same extent as if a note payable to the order of Grantor in the amount of the sums as paid to Grantor by Mortgagee had been executed by Grantee and by Grantor assigned to Mortgagee without recourse on Grantor, has GRANTED, BARGAINED, SOLD, ASSIGNED and CONVEYED, and by these presents does GRANT, BARGAIN, SELL, ASSIGN and CONVEY, unto Grantee the following (collectively, the "Property"):

(a) that certain tract of real property located in Harris County, Texas described in Exhibit A hereto attached and made a part hereof for all purposes (the "Land"), together with all improvements, buildings, and structures thereon;

(b) all systems, facilities, fixtures, machinery, equipment, and conduits attached to the Land and improvements, buildings, and structures thereon;

(c) all right, title, and interest of Grantor in and to all benefits, privileges, rights (including, but not limited to, rights of ingress and egress to and from, air rights, utility rights and utility reservations), tenements, easements, hereditaments, development rights, and appurtenances on the Land or in any way pertaining to the Land;

(d) any and all right, title, and interest of Grantor in and to any oil, gas, or other minerals in, on, under or that may be produced from the Land; and

(e) all right, title, and interest of Grantor in any roads, streets, alleys, passages, and other ways (open or proposed), rights of way, strips, gores and pieces of property included therein or adjacent or contiguous to or abutting, affecting, crossing, fronting, or bounding the Land.

The Property shall exclude the following, which shall be reserved and retained by Seller: (i) all Hazardous Materials (defined below) located on the Property as of the date of this deed and (ii) all ground water at, on, or under the Property (collectively, the "Reserved Rights"), except to the extent required to satisfy Seller's Remediation Obligation pursuant to the Sixth Amendment to Agreement of Purchase and Sale dated May 10, 2019 by and between Grantor and Grantee and subject to the conditions contained therein, Grantor waives the right of ingress and egress to and from the surface of the Property relating to the Reserved Rights and conveys to Grantee all surface rights, and neither Grantor nor Grantor's heirs, personal representatives, or assigns shall have the right for any purpose whatsoever to enter upon or through the surface of the Property in connection therewith or to undermine the lateral and subjacent support of the surface of the Property or any improvements located thereon, except to the extent required to satisfy Seller's Remediation Obligation pursuant to the Sixth Amendment to Agreement of Purchase and Sale dated May 10, 2019 by and between Grantor and Grantee and subject to the conditions contained therein, Grantor shall have no right to place or maintain any structures, improvements, equipment, or pipelines on or across the surface of the Property or to install any fixtures or facilities on the surface of the Property.

For purposes of this deed, Hazardous Materials means any substance which at any time shall be listed as or meet the criteria of a "solid waste," "hazardous waste," "hazardous substance," "hazardous material," "pollutant," "contaminant," "toxic material," "toxic pollutant," "toxic substance," or words of similar import, in any Environmental Law and which are present as of the date of this deed in the soil or groundwater at the Property. The term "Hazardous Materials" shall also specifically include, without limitation (a) 1,1-dichloroethylene and any chemical compounds resulting from the degradation or other chemical transformation of 1,1-dichloroethylene, (b) petroleum or petroleum products and fractions thereof, natural gas or natural gas products, radioactive materials, asbestos or asbestos containing materials in any form, urea formaldehyde foam insulation, radon gas, polychlorinated biphenyls ("PCBs"), and transformers or other equipment that contain dielectric fluid containing PCBs; (c) any flammable, combustible, explosive, infectious, corrosive, reactive, caustic, irritant, carcinogenic, mutagenic or teratogenic substances or materials; and (d) any other chemical, material, waste or substance which is in any way regulated by any federal, state or local government authority, agency, or instrumentality, including mixtures thereof with any materials, and including any regulated building materials such as asbestos and lead, each to the extent present as of the date of this deed in the soil or groundwater at the Property.

TO HAVE AND TO HOLD the Property, together with all and singular any other rights and appurtenances thereto in anywise belonging, unto Grantee, its successors and assigns, FOREVER, subject only to those matters set forth on Exhibit B attached hereto, to the extent (but no further) that same are valid and subsisting as of the date hereof and affect title to the Property (collectively, the "Encumbrances"); and Grantor does hereby bind itself, its successors and assigns, to WARRANT AND FOREVER DEFEND all and singular the Property unto Grantee, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, by, through or under Grantor, but not otherwise, subject, however, to the Encumbrances.

Grantee, by its acceptance hereof, does hereby assume and agree to pay any and all ad valorem taxes and special assessments pertaining to the Property for calendar 2019 and subsequent years, there having been a proration of ad valorem taxes for the current calendar year between Grantor and Grantee.

But it is expressly agreed and stipulated that the vendor's lien and superior title is retained against the Property until the Note, together with all interest thereon and all other sums that may become due and

payable by the terms of said Note and/or the aforesaid Deed of Trust, are fully paid according to their face, tenor, effect, and reading, when this deed shall become absolute.

When the context requires, singular nouns and pronouns include the plural.

[Remainder of Page Blank]

EXECUTED this the ____ day of _____, 2019.

GRANTOR

GOODMAN MANUFACTURING COMPANY, L.P.,
a Texas limited partnership

By: GOODMAN HOLDING COMPANY,
a Texas corporation, its general partner

By: _____
Name: Takeshi Ebisu
Title: President & CEO

Grantee's Address is:

6900 Overmyer Drive
Houston, Texas 77008

THE STATE OF TEXAS §
§
COUNTY OF HARRIS §

This instrument was acknowledged before me this 29 day of May, 2019 by Takeshi Ebisu, President & CEO of GOODMAN HOLDING COMPANY, a Texas corporation that is the general partner of **GOODMAN MANUFACTURING COMPANY, L.P.**, a Texas limited partnership, on behalf of said corporation as general partner of such limited partnership for the purposes and consideration therein expressed.

KAGEE WALKER
My Notary ID # 2110101
Expires December 1, 2021

_____
NOTARY PUBLIC, STATE OF TEXAS

018398.000001
377 - 5337427.1

EXHIBIT A TO SPECIAL WARRANTY DEED

LEGAL DESCRIPTION

A tract or parcel of land containing 15.174 acres (660,992 square feet), more or less, situated in the John Reinerman Survey, Abstract Number 642, HARRIS County, Texas. The said 15.174 acre tract being all of a called 15.174 acre tract as conveyed to Goodman Manufacturing Company, L.P., by deed recorded in Clerk's File Number R-617771 (Film Code No. 505-69-1837 through 505-69-1847) of the Official Public Records of Real Property of HARRIS County, Texas, also being Block "1" of the Highland Industrial Park North as recorded in Volume 142, Page 4 of the Map Records of HARRIS County, Texas, and being further described by metes and bounds as follows, with the basis of bearings being the Texas State Plane Coordinate System, South Central Zone No. 4204 (NAD 83) (2001 adj.), all coordinates shown hereon are Grid Coordinates and may be converted to surface by multiplying by the combined scale factor of 1.000103355, all distances are surface distances:

BEGINNING (N = 13,854,759.76 and E = 3,096,821.53) at a 5/8-inch iron rod with cap stamped "WEISSER ENG HOUSTON, TX" set for the northwest corner of said tract herein described as located in the east right-of-way line of Greengrass Drive (60 foot r.o.w.) and the south line of a 60 foot Harris County Flood Control Drainage Channel recorded in Volume 51, Page 52 of the Map Records of HARRIS County, Texas;

THENCE North 88 deg. 02 min. 06 sec. East, with the south line of said 60-foot Harris County Flood Control Drainage Channel, with the north line of said tract herein described, with the north line of said 15.174 acre tract and the north line of said Block "1", a distance of 1,184.43 feet to a 5/8-inch iron rod with cap stamped "WEISSER ENG HOUSTON, TX" set for the northeast corner of said tract herein described, located in the west right-of-way line of Seamist Drive (60 foot r.o.w.);

THENCE South 02 deg. 07 min. 54 sec. East, with the west line of said Seamist Drive, with the east line of said tract herein described, with the east line of said 15.174 acre tract and the east line of said Block "1", a distance of 587.01 feet to a 2-1/2-inch "X" in concrete found for a southeast corner of said tract herein described, located at the beginning of a northwest right-of-way cutback line of Overmeyer Street (60 foot r.o.w.);

THENCE South 42 deg. 57 min. 06 sec. West, with the northwest right-of-way cutback line of said Overmeyer Street, with a south line of said tract herein described, with the south line of said 15.174 acre tract and the south line of said Block "1", a distance of 14.12 feet to a 5/8-inch iron rod found for a southeast corner of the said tract herein described, located at the end of said right-of-way cutback line:

THENCE South 88 deg. 02 min. 06 sec. West, with the north line of said Overmeyer Street, with a south line of said tract herein described, with a south line of said 15.174 acre tract, with a south line of said Block "1", a distance of 39.91 feet to a 2-1/2-inch "X" in concrete found for the beginning of a curve to the right;

THENCE in a northwesterly direction, with the north right-of-way line of said Overmeyer Street, with a south line of said tract herein described, with a south line of said 15.174 acre tract, with a south line of the said Block "1", and with the arc of the said curve to the right, having a radius of 270 feet, a central angle of 22 deg. 19 min. 57 sec., a chord bearing of North 80 deg. 47 min. 56 sec. West, a chord distance of 104.58 feet and an arc length of 105.24 feet to a 2-1/2-inch "X" in concrete found for a point of reverse curvature of a curve to the left;

THENCE in a northwesterly direction, with the north right-of-way line of said Overmeyer Street, with a south line of said tract herein described, with a south line of said 15.174 acre tract, with a south line of the said Block "1", and with the arc of the said curve to the left, having a radius of 330 feet, a central angle of 22 deg. 20 min. 00 sec., a chord bearing of North 80 deg. 47 min. 55 sec. West, a chord distance of 127.82 feet and an arc length of 128.63 feet to a 5/8-inch iron rod stamped "EIC Surveying" for the end of said curve;

THENCE South 88 deg. 02 min. 06 sec. West, with the north right-of-way line of said Overmeyer Street, with a south line of said tract herein described, with a south line of said Block 1 and with a south line of said 15.174 acre tract, a distance of 896.98 feet to a 5/8-inch iron rod with cap stamped "WEISSER ENG HOUSTON, TX" set for a southwest corner of said tract herein described located at the beginning of a northwest right-of-way cutback line of said Greengrass Drive;

THENCE North 47 deg. 01 min. 54 sec. West, with the northwest right-of-way cutback line of said Greengrass Drive, with a south line of said tract herein described and with a south line of said Block 1 and with a south line of said 15.174 acre tract, a distance of 14.16 feet to a 5/8-inch iron rod with cap stamped "WEISSER ENG HOUSTON, TX" found for a southwest corner of said tract herein described located at the end of the northwest right-of-way cutback corner of said

Greengrass Drive;

THENCE North 02 deg. 05 min. 54 sec. West, with the west line of said tract herein described with the east line of said Greengrass Drive, with the west line of said Block 1 and with a west line of said 15.174 acre tract a distance of 542.00 feet to the POINT OF BEGINNING and containing 15.174 acres (660,992 square feet) of land, more or less.

EXHIBIT B TO SPECIAL WARRANTY DEED

ENCUMBRANCES

Covenants, conditions and restrictions as set forth in the document(s):

Recording No: Volume 3266, Page 580 of the Deed Records

Recording No: C-314090 (being Volume 6379, Page 219 Deed Records)
Recording No: C-323964 (being Volume 6399, Page 596 Deed Records)
Recording No: D-118114 (being Volume 8024, Page 234 Deed Records)
Recording No: D-118115 (being Volume 8024, Page 237 Deed Records)

Storm Sewer Easement Ten (10) feet in width along the east property line (Tract One), in favor of The City of Houston, as set out by instrument dated March 31, 1965, filed for record under Clerk's File Number C-124845 (Volume 5998, Page 347, Deed Records) of the Official Public Records of Real Property of HARRIS County, Texas.

Storm Sewer Easement crossing the northwesterly corner of Tract One, in favor of The City of Houston, as set out by instrument filed for record under Clerk's File Number C-426055 (Volume 6608, Page 129, Deed Records) of the Official Public Records of Real Property of HARRIS County, Texas.

Sanitary Sewer Easement crossing the southeasterly corner of Tract One, in favor of The City of Houston, as set out by instrument filed for record under Clerk's File Number C-403737 (Volume 6562, Page 410, Deed Records) of the Official Public Records of Real Property of HARRIS County, Texas.

Storm Sewer Easement crossing the easterly portion of Tract One, in favor of The City of Houston, as set out by instrument filed for record under Clerk's File Number C-403728 (Volume 6562, Page 413, Deed Records) of the Official Public Records of Real Property of HARRIS County, Texas.

Easement(s) Ten (10) feet in width, together with unobstructed aerial easement Ten (10) feet in width extending upward from a plane Sixteen (16) feet above ground level adjoining thereto, granted to Houston Lighting and Power Company, as set out by instrument filed for record under Clerk's File Number K-075042 of the Official Public Records of Real Property of HARRIS County, Texas.

Easement Ten (10) feet in width, together with unobstructed aerial easement Ten (10) feet in width extending upward from a plane Sixteen (16) feet above ground level adjoining thereto, granted to CenterPoint Energy Houston Electric, LLC, and CenterPoint Energy Resources Corp., d/b/a CenterPoint Energy Texas Gas Operations, as set out by instrument filed for record under Clerk's File Number Y-900168 of the Official Public Records of Real Property of HARRIS County, Texas.

Interest in and to all coal, lignite, oil, gas and other minerals, and all rights incident thereto, contained in instrument dated December 20, 1956, recorded on January 24, 1957, in Volume 3266, Page 580 of the Deed Records of HARRIS County, Texas.

Interest in and to all coal, lignite, oil, gas and other minerals, and all rights incident thereto, contained in instrument dated June 14, 1966, recorded on June 24, 1966, in Volume 6406, Page 319 of the Deed Records (Clerk's Number C-327218) of HARRIS County, Texas.

Interest in and to all coal, lignite, oil, gas and other minerals, and all rights incident thereto, contained in instrument dated May 27, 1970, recorded on June 3, 1970, in Volume 8024, Page 237 of the Deed Records (Clerk's Number D-118115) of HARRIS County, Texas.

Building Set Back Line varying from Forty (40) to Fifty (50) feet along the south property line, as shown on the plat recorded in Volume 142, Page 4 of the Map Records of HARRIS County, Texas.

Building Set Back Line Forty (40) feet along the west property line, as shown on the plat recorded in Volume 142, Page 4 of the Map Records of HARRIS County, Texas.

Building Set Back Line Thirty (30) feet along the east property line, as shown on the plat recorded in Volume 142, Page 4 of the Map Records of HARRIS County, Texas.

LEGEND:

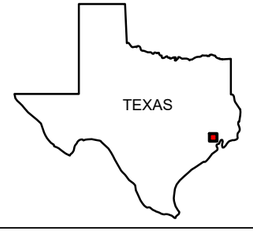
- MSD BOUNDARY

BUILDING AND STREET LOCATIONS BASED ON 2019 GOOGLE EARTH IMAGERY

N

0 25 50 100 200

SCALE (FT)



MEC^X , INC.
8864 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054

FIGURE A - MSD BOUNDARY
FORMER COOLING PLANT
VCP NO. 3005
1501 SEAMIST DRIVE
HOUSTON, TEXAS 77008

PROJECT NO: 1567.002C.00 | REV. DATE: 22 OCT 2021

Appendix B

Appendix B

A description of the current use and, to the extent known, the anticipated use(s) of the designated property and properties within 500 feet of the boundary of the designated property.

The proposed MSD area is 15.17-acres of land located northwest of downtown Houston, Harris County, Texas. The affected property is in a commercial/industrial land use area of Houston. Figure B shows the surrounding land use within 500-feet of the site.

The subject property is currently a furniture manufacturing warehouse.

The surrounding land use is predominantly commercial/industrial and single-family residential.

- North – single-family residential
- East – single-family residential
- South – commercial/industrial facility
- West – commercial/industrial facility

LEGEND:

- 500 FT. PROPERTY BOUNDARY

STATE OF TEXAS
LARRY D. RADER
GEOLOGY
No. 10057
LICENSED
PROFESSIONAL GEOSCIENTIST

BASED ON 2019 GOOGLE EARTH IMAGERY

N

0 25 50 100 200
SCALE (FT)

TEXAS

MEC^X

SDVOSB

MEC^X , INC.
8864 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054

FIGURE B - SURROUNDING LAND USE
FORMER COOLING PLANT
1501 SEAMIST DRIVE
HOUSTON, TEXAS 77008

PROJECT NO: 1567.002C.00 | REV. DATE: 28 JAN 2020

Appendix C

Appendix C

A site map showing:

a. The location of the designated property.

b. The topography of the designated property as indicated on publicly available sources, which must note the watershed including the nearest surface water body and whether the designated property is located in a floodplain or floodway, as those terms are defined in Chapter 19 of the Code of Ordinances.

c. The detected area of groundwater contamination.

d. The location of all soil sampling locations and all groundwater monitoring wells.

e. Groundwater gradients, to the extent known, and direction of groundwater flow.

f. The ingestion protective concentration level exceedance zone for each contaminant of concern, to the extent known.

g. Depth to groundwater for each affected zone.

The following figures are included in Appendix C:

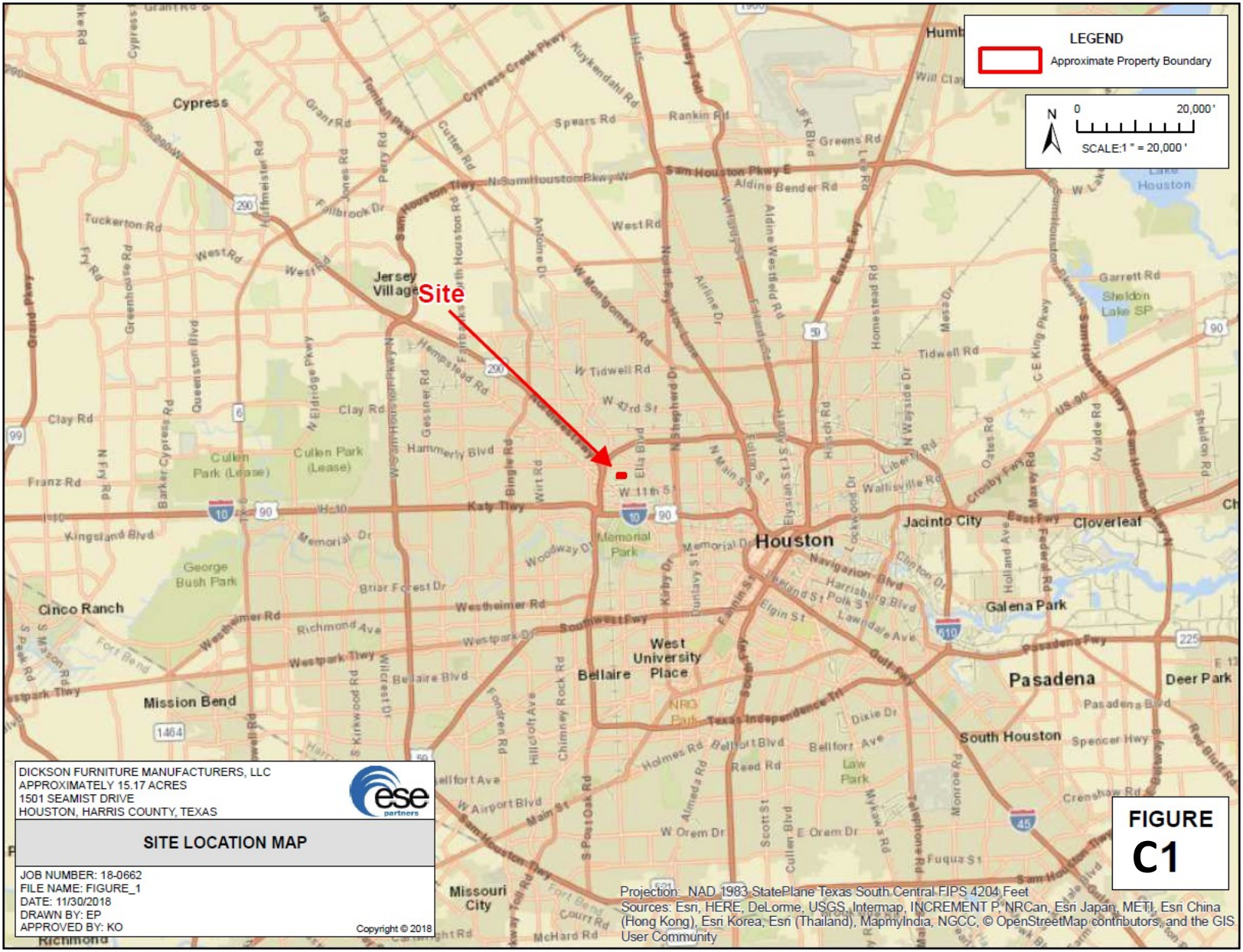
- Figure C1 – Location Map
- Figure C2.1 – Topography Map
- Figure C2.2 – Flood Plain Map
- Figure C2.3 – Watershed Map
- Figure C3.1 – Groundwater Concentrations Map
- Figure C3.2 – Groundwater Protective Concentration Level Exceedances (PCLE) Map
- Figure C4 – On Site Layout
- Figure C5 – Groundwater Gradient

The Site is located within the White Oak Bayou Watershed and is located outside the 0.2% annual chance (500 year) floodplain (Figure C2.2). The nearest water body is White Oak Bayou which is located approximately 2,700 feet north to northeast of the Site.

Figure C3.1 and Figure C3.2 depict the groundwater concentrations and PCLE zones during the most recent sampling event (September 2021).

Figure C4 depicts the locations of the soil and groundwater sample locations.

The groundwater gradient flows towards the northeast (Figure C5).



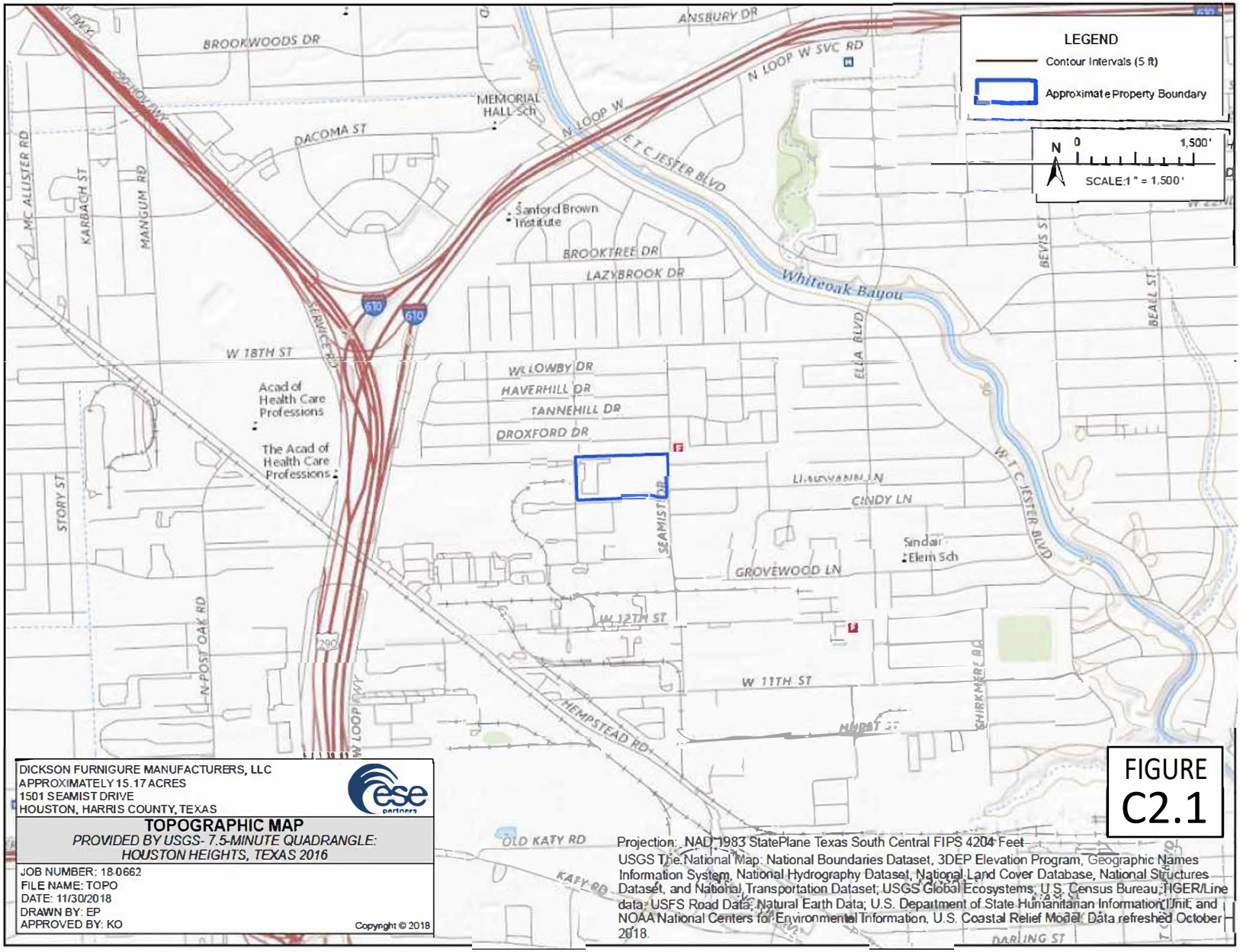
DICKSON FURNITURE MANUFACTURERS, LLC
APPROXIMATELY 15.17 ACRES
1501 SEAMIST DRIVE
HOUSTON, HARRIS COUNTY, TEXAS

ese partners

SITE LOCATION MAP

JOB NUMBER: 18-0662
FILE NAME: FIGURE_1
DATE: 11/30/2018
DRAWN BY: EP
APPROVED BY: KO

FIGURE C1



DICKSON FURNIGURE MANUFACTURERS, LLC
APPROXIMATELY 15.17 ACRES
1501 SEAMIST DRIVE
HOUSTON, HARRIS COUNTY, TEXAS

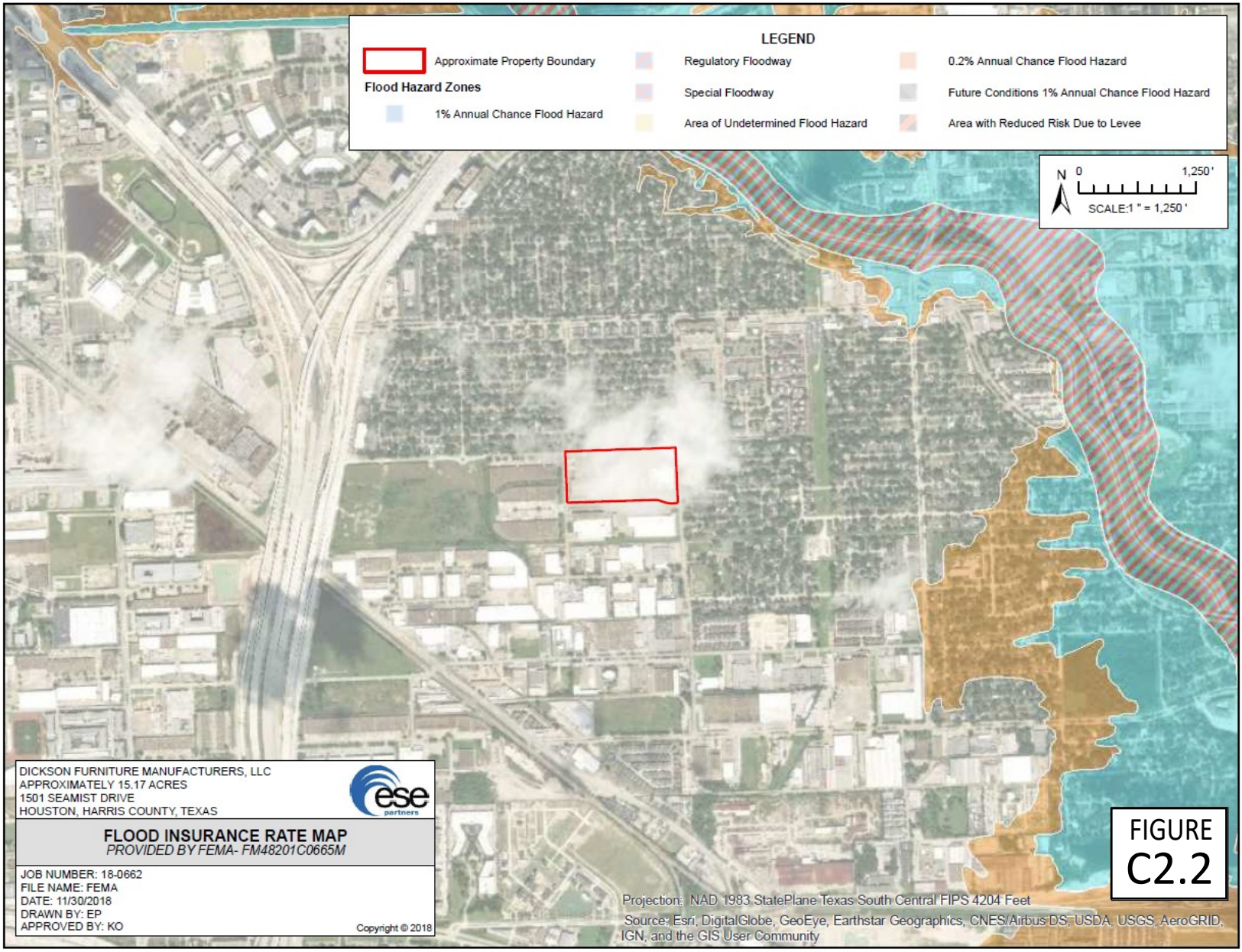
TOPOGRAPHIC MAP

PROVIDED BY USGS- 7.5-MINUTE QUADRANGLE: HOUSTON HEIGHTS, TEXAS 2016

JOB NUMBER: 18.0662
FILE NAME: TOPO
DATE: 11/30/2018
DRAWN BY: EP
APPROVED BY: KO

FIGURE C2.1

Projection: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau; TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information Unit; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed October 2018.


LEGEND
Approximate Property Boundary
Flood Hazard Zones
1% Annual Chance Flood Hazard
Regulatory Floodway
Special Floodway
Area of Undetermined Flood Hazard
0.2% Annual Chance Flood Hazard
Future Conditions 1% Annual Chance Flood Hazard
Area with Reduced Risk Due to Levee
N
0
1,250 '
SCALE:1 " = 1,250 '
DICKSON FURNITURE MANUFACTURERS, LLC
APPROXIMATELY 15.17 ACRES
1501 SEAMIST DRIVE
HOUSTON, HARRIS COUNTY, TEXAS
ese partners
FLOOD INSURANCE RATE MAP
PROVIDED BY FEMA- FM48201C0665M
JOB NUMBER: 18-0662
FILE NAME: FEMA
DATE: 11/30/2018
DRAWN BY: EP
APPROVED BY: KO
Copyright © 2018
FIGURE
C2.2
Projection: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

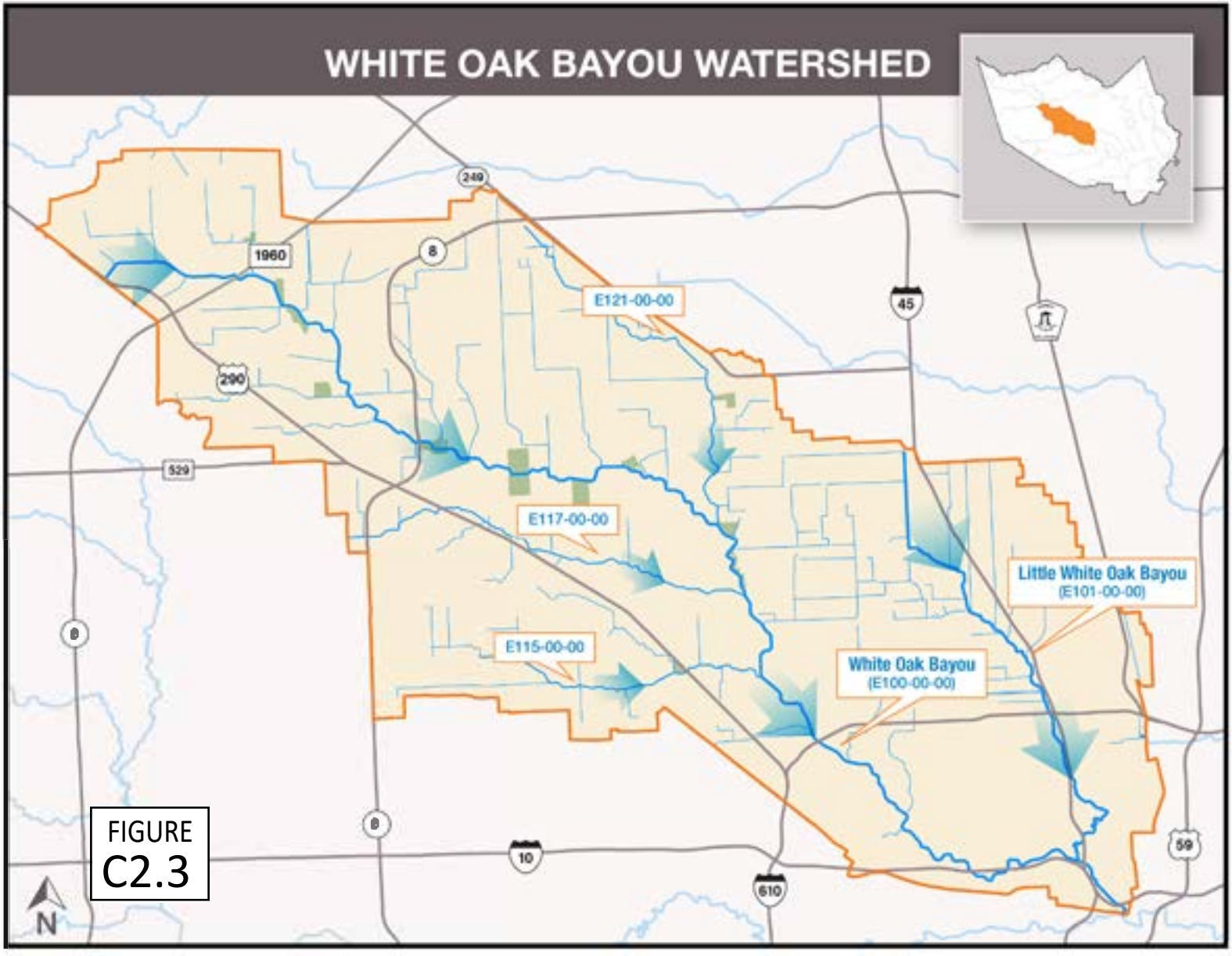
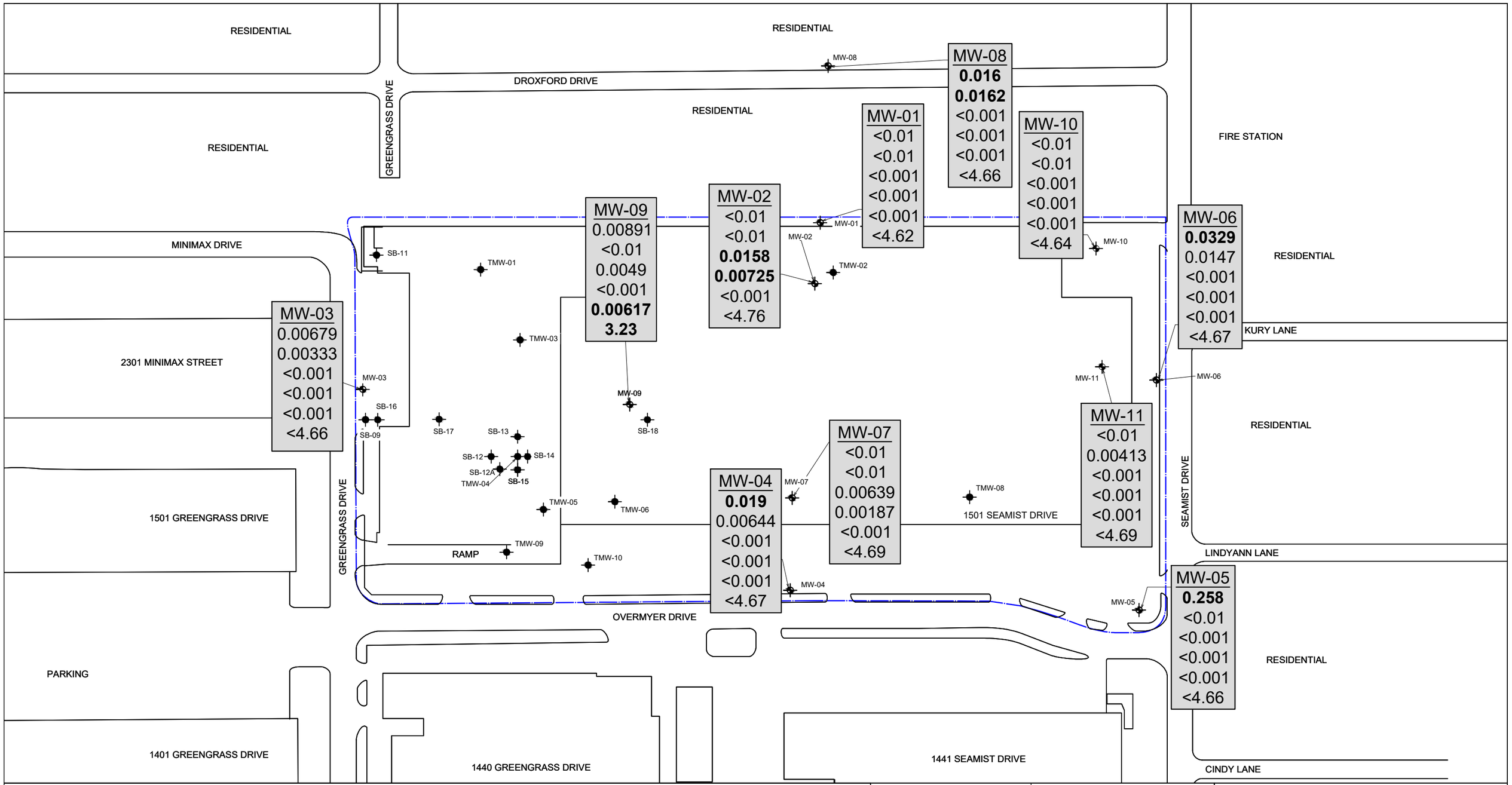

WHITE OAK BAYOU WATERSHED
1960
249
8
290
529
45
E121-00-00
E117-00-00
E115-00-00
Little White Oak Bayou
(E101-00-00)
White Oak Bayou
(E100-00-00)
10
610
59
N

FIGURE
C2.3



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- MONITORING WELL
- SOIL BORING

<0.01	- ARSENIC (mg/L) SEP 2021
<0.001	- LEAD (mg/L) SEP 2021
<0.001	- 1,1-DCE (mg/L) SEP 2021
<0.001	- PCE (mg/L) SEP 2021
<0.001	- VINYL CHLORIDE (mg/L) SEP 2021
<4.70	- C_6-C_{12}TPH (mg/L) SEP 2021

TRRP CRITICAL TIER 1 PCL		
ARSENIC	0.01	mg/L
LEAD	0.015	mg/L
1,1-DCE	0.007	mg/L
PCE	0.005	mg/L
VINYL CHLORIDE	0.002	mg/L
C_6-C_{12} TPH	2.9	mg/L

NOTE: BOLD TEXT INDICATES CRITICAL PCL EXCEEDANCE

STATE OF TEXAS
ISAAC M. ABOULAFIA
82586
LICENSED
PROFESSIONAL ENGINEER
26 October 2021

N

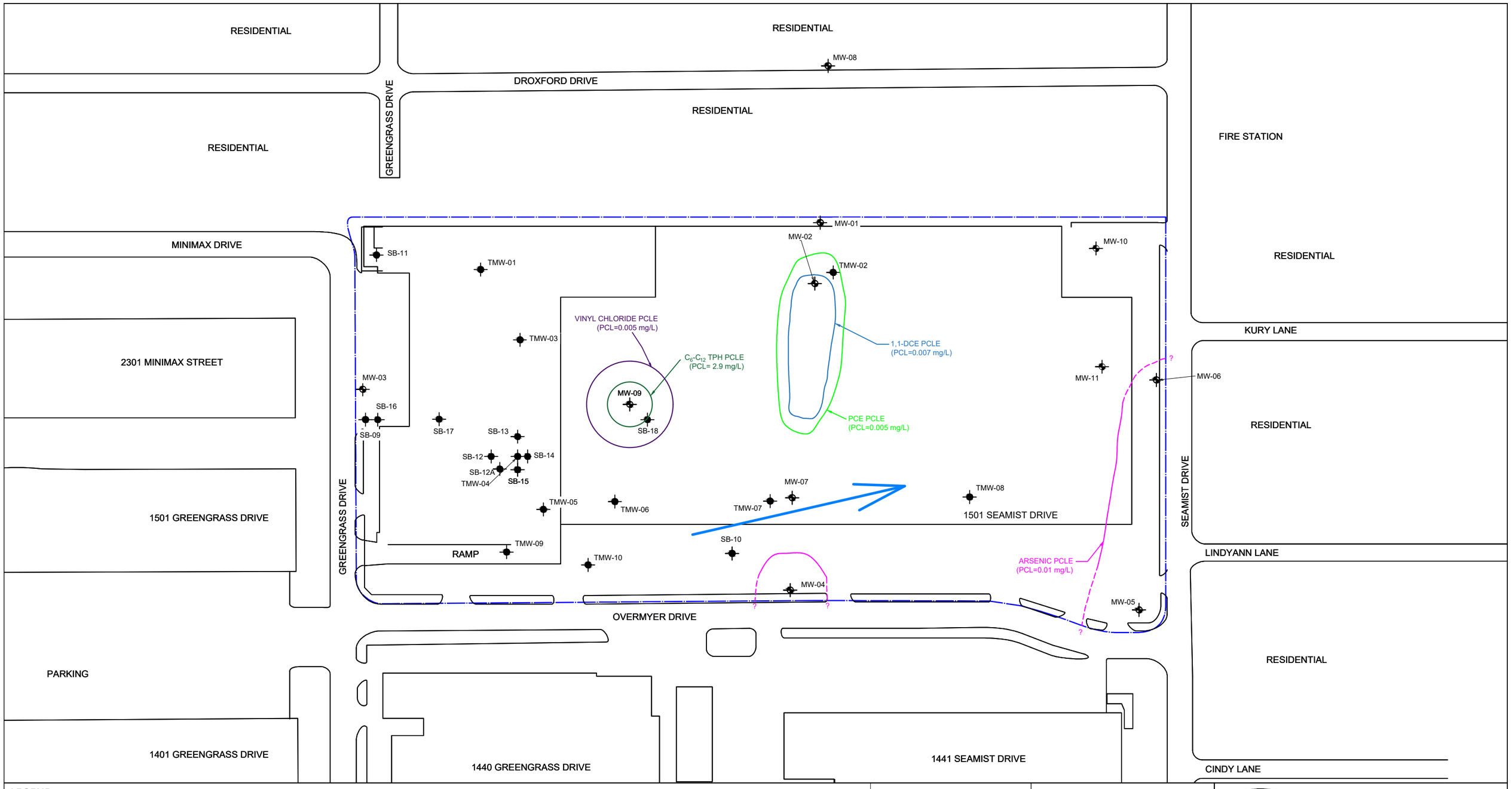
0 25 50 100 200
SCALE (FT)

TEXAS

MEC^X , INC.
8864 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054

FIGURE C3.1 - GROUNDWATER COC (SEP 2021)
FORMER COOLING PLANT
VCP NO. 3005
1501 SEAMIST DRIVE
HOUSTON, TEXAS 77008

PROJECT NO: 1567.002C.00 | REV. DATE: 26 OCT 2021



LEGEND:

- APPROXIMATE PROPERTY BOUNDARY
- MONITORING WELL
- SOIL BORING
- GROUNDWATER FLOW DIRECTION

STATE OF TEXAS
ISAAC M. ABOULAFIA
82566
LICENSED
PROFESSIONAL ENGINEER
26 October 2021

BUILDING AND STREET LOCATIONS BASED ON 2019 GOOGLE EARTH IMAGERY

N

0 25 50 100 200

SCALE (FT)

TEXAS

MEC^X

SDVOSB

MEC^X , INC.
8864 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054

FIGURE C3.2 - GROUNDWATER PCLE (SEP 2021)
FORMER COOLING PLANT
VCP NO. 3005
1501 SEAMIST DRIVE
HOUSTON, TEXAS 77008

PROJECT NO: 1567.002C.00 | REV. DATE: 26 OCT 2021

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

DROXFORD DRIVE

GREENGRASS DRIVE

A

MW-08

SEE FIGURE 4C
FOR CROSS-SECTION

FIRE STATION

RESIDENTIAL

UNIVERSAL PAINT
WASTE STORAGE

MINIMAX DRIVE

SB-11

PAINT LINE

TMW-01

TOOL AND DIE

COILS

SHEET METAL

TMW-03

MW-01

PATCHED PITS

DRAINS

MW-02

TMW-02

ASSEMBLY

MW-10

STORAGE WAREHOUSE

KURY LANE

2301 MINIMAX STREET

MW-03

B

SB-16

SB-17

SB-13

SB-12

SB-14

SB-12A

SB-15

TMW-04

MW-09

SB-18

FORMER
PROCESS
OIL

PAINT LINES

TMW-05

TMW-06

FORMER
GREASE
TRAPS

MW-07

TMW-07

MW-11

MW-06

B1

ASSEMBLY

SEE FIGURE 4C
FOR CROSS-SECTION

SHIPPING, QA,
SAFETY AND IT

TMW-08

QUALITY LAB

1501 SEAMIST DRIVE

SEAMIST DRIVE

RESIDENTIAL

1501 GREENGRASS DRIVE

GREENGRASS DRIVE

MAINTENANCE SHOP

RAMP

TMW-09

GREASE TRAP

FORMER
WASTEWATER
TREATMENT
PLANT

TMW-10

SB-10

WASTE STORAGE

FORMER GAS STORAGE
(OXYGEN, NITROGEN AND
REFRIGERANT)

LINDYANN LANE

MW-04

A1

OVERMYER DRIVE

MW-05

PARKING

RESIDENTIAL

1401 GREENGRASS DRIVE

1440 GREENGRASS DRIVE

1441 SEAMIST DRIVE

CINDY LANE

LEGEND:

- APPROXIMATE PROPERTY BOUNDARY
- MONITORING WELL
- SOIL BORING
- TRANSFORMER
- FORMER RAIL SPUR
- TRENCH DRAINS
- PIT LOCATIONS
- STORMWATER DRAIN

BUILDING AND STREET LOCATIONS BASED ON 2019 GOOGLE EARTH IMAGERY

N

0 25 50 100 200

SCALE (FT)

TEXAS

MEC^X

MEC^X , INC.
8864 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054

FIGURE C4 - ON-SITE LAYOUT
FORMER COOLING PLANT VCP
NO. 3005
1501 SEAMIST DRIVE
HOUSTON, TEXAS 77008

PROJECT NO: 1567.002C.00

REV. DATE: 25 FEB 2021

RESIDENTIAL

RESIDENTIAL

MW-08

DROXFORD DRIVE

GREENGRASS DRIVE

RESIDENTIAL

RESIDENTIAL

FIRE STATION

47.4

47.2

47

46.8

46.6

46.4

MW-01

MINIMAX DRIVE

SB-11

TMW-01

TMW-02

MW-02

MW-10

RESIDENTIAL

TMW-03

KURY LANE

2301 MINIMAX STREET

MW-03

SB-16

MW-09

SB-18

MW-11

MW-06

RESIDENTIAL

SB-17

SB-13

SB-12

SB-12A

SB-14

SB-09

TMW-04

SB-15

MW-07

TMW-08

SEAMIST DRIVE

1501 GREENGRASS DRIVE

TMW-05

TMW-06

TMW-07

SB-10

1501 SEAMIST DRIVE

TMW-09

RAMP

TMW-10

LINDYANN LANE

MW-04

MW-05

OVERMYER DRIVE

RESIDENTIAL

PARKING

1401 GREENGRASS DRIVE

1440 GREENGRASS DRIVE

1441 SEAMIST DRIVE

CINDY LANE

LEGEND:

- APPROXIMATE PROPERTY BOUNDARY
- MONITORING WELL
- SOIL BORING
- GROUNDWATER FLOW DIRECTION

STATE OF TEXAS
LARRY D. RADER
GEOLOGY
No. 10057
LICENSED
PROFESSIONAL GEOSCIENTIST

GROUNDWATER ELEVATIONS ARE RELATIVE TO ON-SITE ARBITRARY DATUM WITH ASSUMED ELEVATION OF 66 FT AMSL.

BUILDING AND STREET LOCATIONS BASED ON 2019 GOOGLE EARTH IMAGERY

N

0 25 50 100 200

SCALE (FT)

TEXAS

MEC^X, INC.
8864 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054

FIGURE C5 - GROUNDWATER GRADIENT (SEP 2021)
FORMER COOLING PLANT
1501 SEAMIST DRIVE
HOUSTON, TEXAS 77008

PROJECT NO: 1567.002C.00 | REV. DATE: 5 NOV 2021

Appendix D

Appendix D

Provide for each contaminant of concern within the designated groundwater:

a. A description of the ingestion protective concentration level exceedance zone and the non-ingestion protective concentration level exceedance zone, including a specification of the horizontal area and the minimum and maximum depth belowground surface.

b. The level of contamination, the ingestion protective concentration level, and the non-ingestion protective concentration level, all expressed as mg/L units.

c. Its basic geochemical properties (e.g., whether the contaminant of concern migrates with groundwater, floats or is soluble in water).

From the most recent groundwater sampling data (September 2021), the COCs that exceed the TRRP Tier 1 $^{GW}GW_{Ing}$ PCLs include: arsenic, 1,1-DCE, PCE, vinyl chloride and C_6-C_{12} TPH. Figure C3.1 and Figure C3.2 depict the groundwater concentrations and PCLE zones during this sampling event.

COCs exceeding non-ingestion PCLs (TRRP Tier 1 $^{Air}GW_{Inh\text{-}V}$) have not been identified at the Site in groundwater. Therefore, based on the recent groundwater monitoring results, there are no non-ingestion PCL exceedance zones within the proposed MSD boundary.

MEC^X delineated COCs in the first encountered water-bearing unit (GWBU), which is at depths between 30 and 40 ft bgs. The groundwater-bearing unit consist of a fine sand layer that varies from 1 foot thick to more than 5 feet thick.

Table D includes concentrations, a description of the PCLE zone and some geochemical/physical properties for each COC.

TABLE D
PCLE Zones and Properties
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

	Arsenic	1,1-Dichloroethylene (1,1-DCE)	Tetrachloroethylene (PCE)	Vinyl Chloride	C_6-C_{12} Total Petroleum Hydrocarbons (TPH)
Maximum 2021 Concentration in Groundwater (mg/L)	0.258 (MW-05)	0.0158 (MW-02)	0.00725 (MW-02)	0.00617 (MW-09)	3.23 (MW-09)
Ingestion-Based PCL (TRRP Tier I $^{Gw}Gw_{Ing}$ [mg/L])	0.01	0.007	0.005	0.002	2.9
2021 Groundwater Ingestion-Based PCLE Zone	Length (ft): 525	Length (ft): 65	Length (ft): 100	Length (ft): 130	Length (ft): 65
	Width (ft): 160	Width (ft): 215	Width (ft): 275	Width (ft): 130	Width (ft): 65
	Min. Depth (ft bgs): 14.4	Min. Depth (ft bgs): 18.7	Min. Depth (ft bgs): 18.7	Min. Depth (ft bgs): 18.1	Min. Depth (ft bgs): 18.1
	Max. Depth (ft bgs): 40	Max. Depth (ft bgs): 40	Max. Depth (ft bgs): 40	Max. Depth (ft bgs): 40	Max. Depth (ft bgs): 40
Non-Ingestion-Based PCL (TRRP Tier I $^{Air}Gw_{inh-V}$ [mg/L])	N/A	1,700	500	3.8	2,500
2021 Non-Ingestion-Based PCLE Zone	N/A	N/A	N/A	N/A	N/A
Geochemical/Physical Properties:					
Molecular Weight	74.9 g/mol	96.9 g/mol	165.8 g/mol	62.5 g/mol	N/A
Specific Gravity	5.73	1.3	1.62	0.91	N/A
Solubility in Water	N/A	2500 mg/L @ 25 °C	Insoluble	2763 mg/L @ 25 °C	N/A
Groundwater Migration	Along gradient	Along gradient	Along gradient	Along gradient	Along gradient

Notes:
N/A = Not Applicable
bgs = below ground surface

Appendix E

Appendix E

A table displaying the following information for each contaminant of concern, to the extent known:

a. The maximum concentration level for soil and groundwater, the ingestion protective concentration level, and the non-ingestion protective concentration level, all expressed as mg/kg for soils and mg/L for groundwater.

b. The critical protective concentration level without the municipal setting designation, highlighting any exceedances.

Tables E.1 and E.2 provide a summary of historic COC concentrations in soil and groundwater at the Site. The tables include the concentration levels from each sampling event, the ingestion PCLs (TRRP Tier 1 $^{GW}Soil_{Ing}$ for soil and $^{GW}GW_{Ing}$ for groundwater) and the non-ingestion PCLs (TRRP Tier 1 $^{Tot}Soil_{Comb}$ for soil and $^{Air}GW_{Inh\text{-}V}$ for groundwater). The ingestion PCLs are the critical PCLs, absent an MSD for the Site. The non-ingestion PCLs are the critical PCLs for the Site with an MSD in place.

Though additional COCs (bis [2-ethylhexyl] phthalate, lead, barium, chromium and methylene chloride) have been detected in groundwater in exceedance of TRRP Tier 1 PCLs in historic sampling events, they have been excluded from this MSD application as they have not been detected within the recent groundwater monitoring events. Additionally, MEC^X has concluded that arsenic, barium, chromium and lead concentrations in groundwater and soil are representative of regional background conditions and are not related to the former Goodman operations at the Site. The PCLE zone for the Site (Figure C3.2) also suggests that the source of arsenic is either representative of regional conditions and/or emanates from an off-site property to the south-southwest.

TABLE E.1
SOIL DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)				Sample Location:	SB-01	SB-02	SB-03	SB-04	SB-05	SB-06	SB-07	SB-07	SB-08
						Depth (ft):	36	31	21	16	24	9	21	42	31
Analyte	Units	TRRP Tier 1 Residential $^{Total}Soil_{Comb}$ (0.5-Acre)	TRRP Tier 1 Residential $^{GW}Soil_{Ing}$ (0.5-Acre)	Surface Soil (<5' Deep) Critical PCL	Subsurface Soil (>5' Deep) Critical PCL		07/22/2019	07/22/2019	07/18/2019	07/17/2019	07/17/2019	07/17/2019	07/22/2019	07/22/2019	10/02/2019
Arsenic	mg/kg	24	5	21.8	21.8		0.769 J	20.1	<2.3 U	3.15	4.12	2.38	10.3	2.97	2.54 J
Barium	mg/kg	8,100	440	440	440		75.6	199	44.7	58.6	69.1	92.7	40.9	138	145 J-
Cadmium	mg/kg	52	15	2	2		0.166 J	0.256 J	<0.574 U	0.0941 J	0.161 J	0.095 J	0.215 J	0.176 J	0.105 J
Chromium	mg/kg	33,000	2,400	2,400	2,400		12	26.1	12.9	13.4	13.1	10.3	21.9	17.4	13.1
Lead	mg/kg	500	3	1,921.60	1,921.60		5.76	17.2	6.73 J	8.75	4.88	6.63	12.5	5.99	6.55
Mercury	mg/kg	8.3	2.1	2.1	2.1		<0.0353 U	<0.0381 U	<0.023 U	<0.0238 U	<0.0231 U	0.0044 J	<0.0369 U	<0.036 U	0.00435 J
Selenium	mg/kg	310.0	2.3	2.3	2.3		1.35 J	1.54 J	<2.3 U	0.751 J	<2.31 U	<2.27 U	<2.46 U	1.36 J	<2.28 U
Acetone	mg/kg	66,000	43	133	133		<0.0294 U	<0.0317 U	<0.0287 U	<0.0298 U	0.0221 J	0.0263 J	<0.0307 U	<0.03 U	<0.0284 U
Benzene	mg/kg	120	0.026	0.026	0.026		0.000775 J	0.000709 J	<0.00115 U	<0.00119 U	<0.00115 U	<0.00114 U	<0.00123 U	<0.0012 U	<0.00114 U
sec-Butylbenzene	mg/kg	3,300	85	250	250		<0.0147 U	<0.0159 U	<0.0144 U	<0.0149 U	0.0495	<0.0142 U	<0.0154 U	<0.015 U	<0.0142 U
tert-Butylbenzene	mg/kg	3,300	100	300	300		<0.00588 U	<0.00634 U	<0.00574 U	<0.00596 U	0.0349	<0.00568 U	<0.00614 U	<0.00599 U	<0.00569 U
1,1-Dichloroethane	mg/kg	11,000	18	55	55		<0.00294 U	<0.00317 U	<0.00287 U	<0.00298 U	<0.00289 U	<0.00284 U	0.00802	<0.003 U	<0.00284 U
1,1-Dichloroethene	mg/kg	2,300	0.05	0.05	0.05		<0.00294 U	0.00564	<0.00287 U	<0.00298 U	<0.00289 U	<0.00284 U	0.00382	<0.003 U	<0.00284 U
cis-1,2-Dichloroethene	mg/kg	140	0.25	0.25	0.25		<0.00294 U	<0.00317 U	<0.00287 U	<0.00298 U	<0.00289 U	<0.00284 U	0.00184 J	<0.003 U	<0.00284 U
Ethylbenzene	mg/kg	6,400	7.6	7.6	7.6		0.00395	0.00262 J	<0.00287 U	<0.00298 U	<0.00289 U	<0.00284 U	0.000982 J	0.000774 J	<0.00284 U
2-Butanone (MEK)	mg/kg	40,000	29	87	87		<0.0204 U	<0.0191 U	0.0316 J	0.0277 J	<0.0289 U	<0.057 U	<0.0307 U	<0.03 U	<0.0253 U
Naphthalene	mg/kg	220	31	93	93		<0.0147 UJ	<0.0159 UJ	<0.0144 U	<0.0149 U	<0.0144 U	<0.0142 U	<0.0154 UJ	<0.015 UJ	<0.0142 U
Isopropylbenzene	mg/kg	4,300	350	1,000	1,000		<0.00294 U	<0.00317 U	<0.00287 U	<0.00298 U	<0.00289 U	<0.00284 U	<0.00307 U	<0.003 U	<0.00284 U
Methyl Tert-Butyl Ether	mg/kg	800	0.62	1.9	1.9		<0.00118 U	<0.00127 U	<0.00115 U	<0.00119 U	<0.00115 U	<0.00114 U	<0.00123 U	<0.0012 U	<0.00114 U
N-Butylbenzene	mg/kg	3,300	150	450	450		<0.0147 U	<0.0159 U	<0.0144 U	<0.0149 U	<0.0144 U	<0.0142 U	<0.0154 U	<0.015 U	<0.0142 U
N-Propylbenzene	mg/kg	2,200	45	130	130		<0.00588 U	<0.00634 U	<0.00574 U	<0.00596 U	<0.00577 U	<0.00568 U	<0.00614 U	<0.00599 U	<0.00569 U
P-Isopropyltoluene	mg/kg	8,200	230	690	690		<0.00588 U	<0.00634 U	<0.00574 U	<0.00596 U	<0.00577 U	<0.00568 U	<0.00614 U	<0.00599 U	<0.00569 U
Trichloroethylene (TCE)	mg/kg	18	0.034	0.034	0.034		<0.00118 U	<0.00127 U	<0.00115 U	<0.00119 U	<0.00115 U	<0.00114 U	0.000563 J	<0.0012 U	<0.00114 U
Tetrachloroethene (PCE)	mg/kg	710	0.05	0.05	0.05		<0.00294 U	0.00433	<0.00287 U	<0.00298 U	<0.00289 U	<0.00284 U	0.00173 J	<0.003 U	<0.00284 U
Toluene	mg/kg	5,900	8.2	8.2	8.2		0.0167	0.0146	0.0107	0.00476 J	0.00867	0.00667	0.00438 J	0.00326 J	<0.00569 U
1,2,4-Trimethylbenzene	mg/kg	1,600	33	99	99		0.00572 J	0.00514 J	<0.00574 U	<0.00596 U	<0.00577 U	<0.00568 U	0.00211 J	0.0018 J	<0.00569 U
1,2,3-Trimethylbenzene	mg/kg	1,600	21	64	64		0.00169 J	<0.00634 U	<0.00574 U	<0.00596 U	<0.00577 U	<0.00568 U	<0.00614 U	<0.00599 U	<0.00569 U
1,3,5-Trimethylbenzene	mg/kg	1,500	36	110	110		0.00219 J	<0.00634 U	<0.00574 U	<0.00596 U	<0.00577 U	<0.00568 U	<0.00614 U	<0.00599 U	<0.00569 U
Xylenes (total)	mg/kg	6,000	120	120	120		0.0181	0.0125	<0.00746 U	<0.00774 U	<0.00751 U	<0.00739 U	<0.00799 U	<0.00779 U	<0.0074 U
Acenaphthylene	mg/kg	3,800	410	1,200	1,200		NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	18,000	6,900	21,000	21,000		<0.0392 U	<0.0422 U	<0.0382 U	<0.0397 U	<0.0385 U	<0.0378 U	<0.0409 U	<0.0399 U	<0.0379 U

Notes:
Indicates critical PCL exceedance (without MSD)
NA= Not Analyzed
Only analytes detected are shown. See laboratory report for full data set.
U= Below reporting limit
J= Estimated value (analyte detected below reporting limit)

TABLE E.1
SOIL DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)				Sample Location:	SB-01	SB-02	SB-03	SB-04	SB-05	SB-06	SB-07	SB-07	SB-08
						Depth (ft):	36	31	21	16	24	9	21	42	31
Analyte	Units	TRRP Tier 1 Residential $^{Total}Soil_{Comb}$ (0.5-Acre)	TRRP Tier 1 Residential $^{GW}Soil_{Ing}$ (0.5-Acre)	Surface Soil (<5' Deep) Critical PCL	Subsurface Soil (>5' Deep) Critical PCL		07/22/2019	07/22/2019	07/18/2019	07/17/2019	07/17/2019	07/17/2019	07/22/2019	07/22/2019	10/02/2019
Benzo (A) Anthracene	mg/kg	41	130	170	290		<0.0392 U	<0.0422 U	<0.0382 U	<0.0397 U	<0.0385 U	<0.0378 U	<0.0409 U	<0.0399 U	<0.0379 U
Benzo (B) Fluoranthene	mg/kg	42	440	170	980		<0.0392 U	<0.0422 U	<0.0382 U	<0.0397 U	<0.0385 U	<0.0378 U	<0.0409 U	<0.0399 U	<0.0379 U
Benzo (G,H,I) Perylene	mg/kg	1,800	46,000	19,000	140,000		<0.0392 U	<0.0422 U	<0.0382 U	<0.0397 U	<0.0385 U	<0.0378 U	<0.0409 U	<0.0399 U	<0.0379 U
Benzo (A) Pyrene	mg/kg	4	7.6	7.6	7.6		<0.0392 U	<0.0422 U	<0.0382 U	<0.0397 U	<0.0385 U	<0.0378 U	<0.0409 U	<0.0399 U	<0.0379 U
Chrysene	mg/kg	4,100	11,000	17,000	25,000		<0.0392 U	<0.0422 U	<0.0382 U	<0.0397 U	<0.0385 U	<0.0378 U	<0.0409 U	<0.0399 U	<0.0379 U
Fluoranthene	mg/kg	2,300	1,900	5,700	5,700		<0.0392 U	<0.0422 U	<0.0382 U	<0.0397 U	<0.0385 U	<0.0378 U	<0.0409 U	<0.0399 U	<0.0379 U
Fluorene	mg/kg	2,300	300	890	890		<0.0392 U	<0.0422 U	<0.0382 U	<0.0397 U	<0.0385 U	<0.0378 U	<0.0409 U	<0.0399 U	<0.0379 U
Dibenzofuran	mg/kg	270	33	100	100		NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-CD) Pyrene	mg/kg	42	1,300	170	2,800		<0.0392 U	<0.0422 U	<0.0382 U	<0.0397 U	<0.0385 U	<0.0378 U	<0.0409 U	<0.0399 U	<0.0379 U
Phenanthrene	mg/kg	1,700	420	1,200	1,200		<0.0392 U	<0.0422 U	<0.0382 U	<0.0397 U	<0.0385 U	<0.0378 U	<0.0409 U	<0.0399 U	<0.0379 U
Bis (2-ethylhexyl) Phthalate	mg/kg	NE	NE	NE	NE		<0.392 U	<0.422 U	<0.382 U	<0.397 U	<0.385 U	<0.378 U	<0.409 U	<0.399 U	<0.379 U
Pyrene	mg/kg	1,700	1,100	3,300	3,300		<0.0392 U	<0.0422 U	<0.0382 U	<0.0397 U	<0.0385 U	<0.0378 U	<0.0409 U	<0.0399 U	<0.0379 U
TPH C_{21} to C_{35} Aromatic	mg/kg	2,000	3,700	11,000	11,000		NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C_{10} to C_{12} Aliphatic	mg/kg	3,600	25,000	9,300	11,000		NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C_{12} to C_{16} Aliphatic	mg/kg	4,300	490,000	14,000	17,000		NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C_{16} to C_{21} Aliphatic	mg/kg	130,000	1,000,000	1,000,000	1,000,000		NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C_{16} to C_{21} Aromatic	mg/kg	2,000	470	590	590		NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C_{21} to C_{35} Aliphatic	mg/kg	130,000	1,000,000	1,000,000	1,000,000		NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C_8 to C_{10} Aliphatic	mg/kg	4,000	3,600	9,700	9,700		NA	NA	NA	NA	NA	NA	NA	NA	NA
C_6-C_{12} TPH	mg/kg	1,600	65	190	190		<58.8 U	<63.4 U	<65.4 U	<81 U	<92.4 U	<96 U	<61.4 U	<59.9 U	<56.9 U
C_{12}-C_{28} TPH	mg/kg	2,300	200	590	590		<58.8 U	<63.4 U	<65.4 U	<81 U	<92.4 U	<96 U	<61.4 U	<59.9 U	<56.9 U
C_{28}-C_{35} TPH	mg/kg	2,300	200	590	590		<58.8 U	<63.4 U	<65.4 U	<81 U	<92.4 U	<96 U	<61.4 U	<59.9 U	<56.9 U
Total TPH	mg/kg	NE	NE	NE	NE		<58.8 U	<63.4 U	<65.4 U	<81 U	<92.4 U	<96 U	<61.4 U	<59.9 U	<56.9 U
pH	SU	NE	NE	NE	NE		8.66 J	7.84 J	8.4 J	8.28 J	8.32 J	7.95 J	7.91 J	8.67 J	8.88 J
TOTAL SOLIDS	%	NE	NE	NE	NE		85	78.8	87.1	84	86.6	88	81.4	83.4	87.9

Notes:
Indicates critical PCL exceedance (without MSD)
NA= Not Analyzed
Only analytes detected are shown. See laboratory report for full data set.
U= Below reporting limit
J= Estimated value (analyte detected below reporting limit)

TABLE E.1
SOIL DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

						Sample Location:	SB-08	SB-09	SB-10	SB-11	SB-12	SB-12	SB-12A	SB-12A	SB-12A
		Residential Action Level (Assessment Level)				Depth (ft):	40	2	9-10	1-2	5	17.5	5	10	15
Analyte	Units	TRRP Tier 1 Residential $^{Total}Soil_{Comb}$ (0.5-Acre)	TRRP Tier 1 Residential $^{GW}Soil_{Ing}$ (0.5-Acre)	Surface Soil (<5' Deep) Critical PCL	Subsurface Soil (>5' Deep) Critical PCL		10/02/2019	10/02/2019	10/02/2019	10/02/2019	7/21/2020	7/21/2020	1/19/2021	1/19/2021	1/19/2021
Arsenic	mg/kg	24	5	21.8	21.8		4.31	NA	<2.11 U	1.31 J	NA	NA	NA	NA	NA
Barium	mg/kg	8,100	440	440	440		249 J-	NA	26.7 J-	54 J-	NA	NA	NA	NA	NA
Cadmium	mg/kg	52	15	2	2		<0.596 U	NA	<0.529 U	<0.577 U	NA	NA	NA	NA	NA
Chromium	mg/kg	33,000	2,400	2,400	2,400		19.8	NA	4.59	12	NA	NA	NA	NA	NA
Lead	mg/kg	500	3	1,921.60	1,921.60		10.3	NA	3.63	4.67	NA	NA	NA	NA	NA
Mercury	mg/kg	8.3	2.1	2.1	2.1		<0.0358 U	NA	<0.0317 U	0.00482 J	NA	NA	NA	NA	NA
Selenium	mg/kg	310.0	2.3	2.3	2.3		<2.39 U	NA	<2.11 U	<2.31 U	NA	NA	NA	NA	NA
Acetone	mg/kg	66,000	43	133	133		<0.0298 U	NA	<0.0264 U	0.193 J	<0.0658 U	<0.0748 U	NA	NA	NA
Benzene	mg/kg	120	0.026	0.026	0.026		<0.00119 U	NA	<0.00106 U	<0.0114 U	<0.00132 U	<0.0015 U	NA	NA	NA
sec-Butylbenzene	mg/kg	3,300	85	250	250		<0.0149 U	NA	<0.0132 U	<0.142 U	<0.0164 U	<0.0187 U	NA	NA	NA
tert-Butylbenzene	mg/kg	3,300	100	300	300		<0.00596 U	NA	<0.00529 U	<0.0568 U	<0.00658 U	<0.00748 U	NA	NA	NA
1,1-Dichloroethane	mg/kg	11,000	18	55	55		<0.00298 U	NA	<0.00264 U	<0.0284 U	<0.00329 U	<0.00374 U	NA	NA	NA
1,1-Dichloroethene	mg/kg	2,300	0.05	0.05	0.05		<0.00298 U	NA	<0.00264 U	<0.0284 U	<0.00329 U	<0.00374 U	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	140	0.25	0.25	0.25		<0.00298 U	NA	<0.00264 U	<0.0284 U	<0.00329 U	<0.00374 U	NA	NA	NA
Ethylbenzene	mg/kg	6,400	7.6	7.6	7.6		<0.00298 U	NA	<0.00264 U	<0.0284 U	<0.00329 U	<0.00374 U	NA	NA	NA
2-Butanone (MEK)	mg/kg	40,000	29	87	87		<0.0215 U	NA	<0.0145 U	<0.284 U	<0.132 U	<0.168 U	NA	NA	NA
Naphthalene	mg/kg	220	31	93	93		<0.0149 U	<0.0234	<0.0132 U	<0.142 U	<0.0164 U	<0.0187 U	NA	NA	NA
Isopropylbenzene	mg/kg	4,300	350	1,000	1,000		<0.00298 U	NA	<0.00264 U	<0.0284 U	<0.00329 U	<0.00374 U	NA	NA	NA
Methyl Tert-Butyl Ether	mg/kg	800	0.62	1.9	1.9		<0.00119 U	NA	<0.00106 U	<0.0114 U	<0.00132 U	<0.0015 U	NA	NA	NA
N-Butylbenzene	mg/kg	3,300	150	450	450		<0.0149 U	NA	<0.0132 U	<0.142 U	<0.0164 U	<0.0187 U	NA	NA	NA
N-Propylbenzene	mg/kg	2,200	45	130	130		<0.00596 U	NA	<0.00529 U	<0.0568 U	<0.00658 U	<0.00748 U	NA	NA	NA
P-Isopropyltoluene	mg/kg	8,200	230	690	690		<0.00596 U	NA	<0.00529 U	<0.0568 U	<0.00658 U	<0.00748 U	NA	NA	NA
Trichloroethylene (TCE)	mg/kg	18	0.034	0.034	0.034		<0.00119 U	NA	<0.00106 U	<0.0114 U	<0.00132 U	<0.0015 U	NA	NA	NA
Tetrachloroethene (PCE)	mg/kg	710	0.05	0.05	0.05		<0.00298 U	NA	<0.00264 U	<0.0284 U	<0.00329 U	<0.00374 U	NA	NA	NA
Toluene	mg/kg	5,900	8.2	8.2	8.2		<0.00596 U	NA	<0.00529 U	<0.0568 U	<0.00658 U	<0.00748 U	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	1,600	33	99	99		<0.00596 U	NA	<0.00529 U	<0.0568 U	<0.00658 U	<0.00748 U	NA	NA	NA
1,2,3-Trimethylbenzene	mg/kg	1,600	21	64	64		<0.00596 U	NA	<0.00529 U	<0.0568 U	<0.00658 U	<0.00748 U	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	1,500	36	110	110		<0.00596 U	NA	<0.00529 U	<0.0568 U	<0.00658 U	<0.00748 U	NA	NA	NA
Xylenes (total)	mg/kg	6,000	120	120	120		<0.00775 U	NA	<0.00687 U	<0.0738 U	<0.00855 U	<0.00972 U	NA	NA	NA
Acenaphthylene	mg/kg	3,800	410	1,200	1,200		NA	<0.00702	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	18,000	6,900	21,000	21,000		<0.0397 U	<0.00702	<0.0352 U	0.0254 J	<0.0376 U	<0.0408 U	NA	NA	NA

Notes:
Indicates critical PCL exceedance (without MSD)
NA= Not Analyzed
Only analytes detected are shown. See laboratory report for full data set.
U= Below reporting limit
J= Estimated value (analyte detected below reporting limit)

TABLE E.1
SOIL DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)				Sample Location:	SB-08	SB-09	SB-10	SB-11	SB-12	SB-12	SB-12A	SB-12A	SB-12A
						Depth (ft):	40	2	9-10	1-2	5	17.5	5	10	15
Analyte	Units	TRRP Tier 1 Residential $^{Total}Soil_{Comb}$ (0.5-Acre)	TRRP Tier 1 Residential $^{GW}Soil_{ing}$ (0.5-Acre)	Surface Soil (<5' Deep) Critical PCL	Subsurface Soil (>5' Deep) Critical PCL		10/02/2019	10/02/2019	10/02/2019	10/02/2019	7/21/2020	7/21/2020	1/19/2021	1/19/2021	1/19/2021
Benzo (A) Anthracene	mg/kg	41	130	170	290		<0.0397 U	<0.00702	<0.0352 U	0.0676	<0.0376 U	<1.02 U	NA	NA	NA
Benzo (B) Fluoranthene	mg/kg	42	440	170	980		<0.0397 U	<0.00702	<0.0352 U	0.0779	<0.0376 U	<1.02 U	NA	NA	NA
Benzo (G,H,I) Perylene	mg/kg	1,800	46,000	19,000	140,000		<0.0397 U	<0.00702	<0.0352 U	0.0388	<0.0376 U	<1.02 U	NA	NA	NA
Benzo (A) Pyrene	mg/kg	4	7.6	7.6	7.6		<0.0397 U	<0.00702	<0.0352 U	0.0639	<0.0376 U	<1.02 U	NA	NA	NA
Chrysene	mg/kg	4,100	11,000	17,000	25,000		<0.0397 U	<0.00702	<0.0352 U	0.0647	<0.0376 U	<1.02 U	NA	NA	NA
Fluoranthene	mg/kg	2,300	1,900	5,700	5,700		<0.0397 U	<0.00702	<0.0352 U	0.157	<0.0376 U	<0.0408 U	NA	NA	NA
Fluorene	mg/kg	2,300	300	890	890		<0.0397 U	<0.00702	<0.0352 U	0.016 J	<0.0376 U	<0.0408 U	NA	NA	NA
Dibenzofuran	mg/kg	270	33	100	100		NA	<0.00702	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-CD) Pyrene	mg/kg	42	1,300	170	2,800		<0.0397 U	<0.00702	<0.0352 U	0.0426	<0.0376 U	<1.02 U	NA	NA	NA
Phenanthrene	mg/kg	1,700	420	1,200	1,200		<0.0397 U	<0.00702	<0.0352 U	0.122	<0.0376 U	<0.0408 U	NA	NA	NA
Bis (2-ethylhexyl) Phthalate	mg/kg	NE	NE	NE	NE		<0.397 U	NA	<0.352 U	0.0458 J	<0.376 U	<10.2 U	NA	NA	NA
Pyrene	mg/kg	1,700	1,100	3,300	3,300		<0.0397 U	0.00324	<0.0352 U	0.145	<0.0376 U	<1.02 U	NA	NA	NA
TPH C_{21} to C_{35} Aromatic	mg/kg	2,000	3,700	11,000	11,000		NA	NA	NA	NA	NA	135	NA	NA	NA
TPH C_{10} to C_{12} Aliphatic	mg/kg	3,600	25,000	9,300	11,000		NA	NA	NA	NA	NA	<24.5 U	NA	NA	NA
TPH C_{12} to C_{16} Aliphatic	mg/kg	4,300	490,000	14,000	17,000		NA	NA	NA	NA	NA	<24.5	NA	NA	NA
TPH C_{16} to C_{21} Aliphatic	mg/kg	130,000	1,000,000	1,000,000	1,000,000		NA	NA	NA	NA	NA	83	NA	NA	NA
TPH C_{16} to C_{21} Aromatic	mg/kg	2,000	470	590	590		NA	NA	NA	NA	NA	23.4 J	NA	NA	NA
TPH C_{21} to C_{35} Aliphatic	mg/kg	130,000	1,000,000	1,000,000	1,000,000		NA	NA	NA	NA	NA	871	NA	NA	NA
TPH C_8 to C_{10} Aliphatic	mg/kg	4,000	3,600	9,700	9,700		NA	NA	NA	NA	NA	<24.5	NA	NA	NA
C_6-C_{12} TPH	mg/kg	1,600	65	190	190		<59.6 U	NA	<52.9 U	<57.7 U	<56.4 U	<61.3 U	<73 U	<55.9 U	<85.4 U
C_{12}-C_{28} TPH	mg/kg	2,300	200	590	590		<59.6 U	NA	<52.9 U	42.7 J	<56.4 U	978	<73 U	<55.9 U	<85.4 U
C_{28}-C_{35} TPH	mg/kg	2,300	200	590	590		<59.6 U	NA	<52.9 U	<57.7 U	<56.4 U	940	<73 U	<55.9 U	<85.4 U
Total TPH	mg/kg	NE	NE	NE	NE		<59.6 U	NA	<52.9 U	42.7 J	<56.4 U	1930	<73 U	<55.9 U	<85.4 U
pH	SU	NE	NE	NE	NE		8.7 J	10.8 J	8.17 J	10.2 J	NA	NA	NA	NA	NA
TOTAL SOLIDS	%	NE	NE	NE	NE		83.8	85.4	94.6	86.7	NA	NA	NA	NA	NA

Notes:
Indicates critical PCL exceedance (without MSD)
NA= Not Analyzed
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U= Below reporting limit
J= Estimated value (analyte detected below reporting limit)

TABLE E.1
SOIL DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

						Sample Location:	SB-12A	SB-13	SB-13	SB-14	SB-14	SB-15	SB-15	SB-16	SB-17
		Residential Action Level (Assessment Level)				Depth (ft):	20	15	17.5	15	17.5	1.5	17.5	5	5
Analyte	Units	TRRP Tier 1 Residential $^{Total}Soil_{Comb}$ (0.5-Acre)	TRRP Tier 1 Residential $^{GW}Soil_{ing}$ (0.5-Acre)	Surface Soil (<5' Deep) Critical PCL	Subsurface Soil (>5' Deep) Critical PCL		1/19/2021	7/21/2020	7/21/2020	7/21/2020	7/21/2020	7/21/2020	7/21/2020	1/19/2021	1/19/2021
Arsenic	mg/kg	24	5	21.8	21.8		NA	NA	NA	NA	NA	NA	NA	<2.37 U	<2.27 U
Barium	mg/kg	8,100	440	440	440		NA	NA	NA	NA	NA	NA	NA	72.9	62.1
Cadmium	mg/kg	52	15	2	2		NA	NA	NA	NA	NA	NA	NA	0.0997 J	<0.567 U
Chromium	mg/kg	33,000	2,400	2,400	2,400		NA	NA	NA	NA	NA	NA	NA	19.7	12.7
Lead	mg/kg	500	3	1,921.60	1,921.60		NA	NA	NA	NA	NA	NA	NA	5.95	4.52
Mercury	mg/kg	8.3	2.1	2.1	2.1		NA	NA	NA	NA	NA	NA	NA	<0.0474 U	<0.0454 U
Selenium	mg/kg	310.0	2.3	2.3	2.3		NA	NA	NA	NA	NA	NA	NA	<2.37 U	<2.27 U
Acetone	mg/kg	66,000	43	133	133		NA	<0.0652 U	<0.0669 U	<0.0732 U	<0.0748 U	<0.0689 U	<0.0667 U	<0.0726 U	<0.0659 U
Benzene	mg/kg	120	0.026	0.026	0.026		NA	<0.0013 U	<0.00134 U	<0.00146 U	<0.0015 U	<0.00138 U	<0.00133 U	<0.00145 U	<0.00132 U
sec-Butylbenzene	mg/kg	3,300	85	250	250		NA	<0.0163 U	<0.0167 U	<0.0183 U	<0.0187 U	<0.0172 U	<0.0167 U	<0.0181 U	<0.0165 U
tert-Butylbenzene	mg/kg	3,300	100	300	300		NA	<0.00652 U	<0.00669 U	<0.00732 U	<0.00748 U	<0.00689 U	<0.00667 U	<0.00726 U	<0.00659 U
1,1-Dichloroethane	mg/kg	11,000	18	55	55		NA	<0.00326 U	<0.00334 U	<0.00366 U	<0.00374 U	<0.00344 U	<0.00333 U	<0.00363 U	<0.00329 U
1,1-Dichloroethene	mg/kg	2,300	0.05	0.05	0.05		NA	<0.00326 U	<0.00334 U	<0.00366 U	<0.00374 U	<0.00344 U	<0.00333 U	<0.00363 U	<0.00329 U
cis-1,2-Dichloroethene	mg/kg	140	0.25	0.25	0.25		NA	<0.00326 U	<0.00334 U	<0.00366 U	<0.00374 U	<0.00344 U	<0.00333 U	<0.00363 U	<0.00329 U
Ethylbenzene	mg/kg	6,400	7.6	7.6	7.6		NA	<0.00326 U	<0.00334 U	<0.00366 U	<0.00374 U	<0.00344 U	<0.00333 U	<0.00363 U	<0.00329 U
2-Butanone (MEK)	mg/kg	40,000	29	87	87		NA	<0.13 U	<0.134 U	<0.146 U	<0.15 U	<0.138 U	<0.133 U	<0.145 U	<0.132 U
Naphthalene	mg/kg	220	31	93	93		NA	<0.0163 U	<0.0167 U	<0.0183 U	<0.0187 U	<0.0172 U	<0.0167 U	<0.0181 U	<0.0165 U
Isopropylbenzene	mg/kg	4,300	350	1,000	1,000		NA	<0.00326 U	<0.00334 U	<0.00366 U	<0.00374 U	<0.00344 U	<0.00333 U	<0.00363 U	<0.00329 U
Methyl Tert-Butyl Ether	mg/kg	800	0.62	1.9	1.9		NA	<0.0013 U	<0.00134 U	<0.00146 U	<0.0015 U	<0.00138 U	<0.00133 U	<0.00145 U	<0.00132 U
N-Butylbenzene	mg/kg	3,300	150	450	450		NA	<0.0163 U	<0.0167 U	<0.0183 U	<0.0187 U	<0.0172 U	<0.0167 U	<0.0181 U	<0.0165 U
N-Propylbenzene	mg/kg	2,200	45	130	130		NA	<0.00652 U	<0.00669 U	<0.00732 U	<0.00748 U	<0.00689 U	<0.00667 U	<0.00726 U	<0.00659 U
P-Isopropyltoluene	mg/kg	8,200	230	690	690		NA	<0.00652 U	<0.00669 U	<0.00732 U	<0.00748 U	<0.00689 U	<0.00667 U	<0.00726 U	<0.00659 U
Trichloroethylene (TCE)	mg/kg	18	0.034	0.034	0.034		NA	<0.0013 U	<0.00134 U	0.003	0.00362	<0.00138 U	<0.00133 U	<0.00145 U	<0.00132 U
Tetrachloroethene (PCE)	mg/kg	710	0.05	0.05	0.05		NA	<0.00326 U	<0.00334 U	0.00353 J	0.00365 J	<0.00344 U	<0.00333 U	<0.00363 U	<0.00329 U
Toluene	mg/kg	5,900	8.2	8.2	8.2		NA	<0.00652 U	<0.00669 U	<0.00732 U	<0.00748 U	<0.00689 U	<0.00667 U	0.00263 J	0.00212 J
1,2,4-Trimethylbenzene	mg/kg	1,600	33	99	99		NA	<0.00652 U	<0.00669 U	<0.00732 U	<0.00748 U	<0.00689 U	<0.00667 U	<0.00726 U	<0.00659 U
1,2,3-Trimethylbenzene	mg/kg	1,600	21	64	64		NA	<0.00652 U	<0.00669 U	<0.00732 U	<0.00748 U	<0.00689 U	<0.00667 U	<0.00726 U	<0.00659 U
1,3,5-Trimethylbenzene	mg/kg	1,500	36	110	110		NA	<0.00652 U	<0.00669 U	<0.00732 U	<0.00748 U	<0.00689 U	<0.00667 U	<0.00726 U	<0.00659 U
Xylenes (total)	mg/kg	6,000	120	120	120		NA	<0.00848 U	<0.00869 U	<0.00951 U	<0.00972 U	<0.00895 U	<0.00867 U	0.00143 J	0.00319 J
Acenaphthylene	mg/kg	3,800	410	1,200	1,200		NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	18,000	6,900	21,000	21,000		NA	<0.0378 U	<0.0384 U	<0.0406 U	<0.0412 U	<0.039 U	<0.038 U	NA	NA

Notes:
Indicates critical PCL exceedance (without MSD)
NA= Not Analyzed
Only analytes detected are shown. See laboratory report for full data set.
U= Below reporting limit
J= Estimated value (analyte detected below reporting limit)

TABLE E.1
SOIL DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

						Sample Location:	SB-12A	SB-13	SB-13	SB-14	SB-14	SB-15	SB-15	SB-16	SB-17
		Residential Action Level (Assessment Level)				Depth (ft):	20	15	17.5	15	17.5	1.5	17.5	5	5
Analyte	Units	TRRP Tier 1 Residential $^{Total}Soil_{Comb}$ (0.5-Acre)	TRRP Tier 1 Residential $^{GW}Soil_{Ing}$ (0.5-Acre)	Surface Soil (<5' Deep) Critical PCL	Subsurface Soil (>5' Deep) Critical PCL		1/19/2021	7/21/2020	7/21/2020	7/21/2020	7/21/2020	7/21/2020	7/21/2020	1/19/2021	1/19/2021
Benzo (A) Anthracene	mg/kg	41	130	170	290		NA	<0.0378 U	<0.0384 U	<0.0406 U	<0.0412 U	<0.039 U	<0.038 U	NA	NA
Benzo (B) Fluoranthene	mg/kg	42	440	170	980		NA	<0.0378 U	<0.0384 U	<0.0406 U	<0.0412 U	<0.039 U	<0.038 U	NA	NA
Benzo (G,H,I) Perylene	mg/kg	1,800	46,000	19,000	140,000		NA	<0.0378 U	<0.0384 U	<0.0406 U	<0.0412 U	<0.039 U	<0.038 U	NA	NA
Benzo (A) Pyrene	mg/kg	4	7.6	7.6	7.6		NA	<0.0378 U	<0.0384 U	<0.0406 U	<0.0412 U	<0.039 U	<0.038 U	NA	NA
Chrysene	mg/kg	4,100	11,000	17,000	25,000		NA	<0.0378 U	<0.0384 U	<0.0406 U	<0.0412 U	<0.039 U	<0.038 U	NA	NA
Fluoranthene	mg/kg	2,300	1,900	5,700	5,700		NA	<0.0378 U	<0.0384 U	<0.0406 U	<0.0412 U	<0.039 U	<0.038 U	NA	NA
Fluorene	mg/kg	2,300	300	890	890		NA	<0.0378 U	<0.0384 U	<0.0406 U	<0.0412 U	<0.039 U	<0.038 U	NA	NA
Dibenzofuran	mg/kg	270	33	100	100		NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-CD) Pyrene	mg/kg	42	1,300	170	2,800		NA	<0.0378 U	<0.0384 U	<0.0406 U	<0.0412 U	<0.039 U	<0.038 U	NA	NA
Phenanthrene	mg/kg	1,700	420	1,200	1,200		NA	<0.0378 U	<0.0384 U	<0.0406 U	<0.0412 U	<0.039 U	<0.038 U	NA	NA
Bis (2-ethylhexyl) Phthalate	mg/kg	NE	NE	NE	NE		NA	<0.378 U	<0.384 U	<0.406 U	<0.412 U	<0.39 U	<0.38 U	NA	NA
Pyrene	mg/kg	1,700	1,100	3,300	3,300		NA	<0.0378 U	<0.0384 U	<0.0406 U	<0.0412 U	<0.039 U	<0.038 U	NA	NA
TPH C_{21} to C_{35} Aromatic	mg/kg	2,000	3,700	11,000	11,000		NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C_{10} to C_{12} Aliphatic	mg/kg	3,600	25,000	9,300	11,000		NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C_{12} to C_{16} Aliphatic	mg/kg	4,300	490,000	14,000	17,000		NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C_{16} to C_{21} Aliphatic	mg/kg	130,000	1,000,000	1,000,000	1,000,000		NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C_{16} to C_{21} Aromatic	mg/kg	2,000	470	590	590		NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C_{21} to C_{35} Aliphatic	mg/kg	130,000	1,000,000	1,000,000	1,000,000		NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C_8 to C_{10} Aliphatic	mg/kg	4,000	3,600	9,700	9,700		NA	NA	NA	NA	NA	NA	NA	NA	NA
C_6-C_{12} TPH	mg/kg	1,600	65	190	190		<89.4 U	<56.8 U	<57.7 U	<61 U	<61.9 U	<58.6 U	<57.1 U	NA	NA
C_{12}-C_{28} TPH	mg/kg	2,300	200	590	590		<89.4 U	<56.8 U	<57.7 U	<61 U	40.6 J	<58.6 U	<57.1 U	NA	NA
C_{28}-C_{35} TPH	mg/kg	2,300	200	590	590		<89.4 U	<56.8 U	<57.7 U	<61 U	60.4 J	<58.6 U	<57.1 U	NA	NA
Total TPH	mg/kg	NE	NE	NE	NE		<89.4 U	<56.8 U	<57.7 U	<61 U	101	<58.6 U	<57.1 U	NA	NA
pH	SU	NE	NE	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL SOLIDS	%	NE	NE	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Indicates critical PCL exceedance (without MSD)
NA= Not Analyzed
Only analytes detected are shown. See laboratory report for full data set.
U= Below reporting limit
J= Estimated value (analyte detected below reporting limit)

TABLE E.1
SOIL DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

				Sample Location:		SB-18	MW-09	MW-09	MW-10	MW-11	MW-11	TMW-01	TMW-02	TMW-03
		Residential Action Level (Assessment Level)			Depth (ft):	5	20	22.5	20	22.5	25	2-4	6-8	2-4
Analyte	Units	TRRP Tier 1 Residential $^{Total}Soil_{Comb}$ (0.5-Acre)	TRRP Tier 1 Residential $^{GW}Soil_{Ing}$ (0.5-Acre)	Surface Soil (<5' Deep) Critical PCL	Subsurface Soil (>5' Deep) Critical PCL	1/19/2021	7/21/2020	7/21/2020	7/7/2020	7/20/2020	7/20/2020	1/2/2019	1/3/2019	1/2/2019
Arsenic	mg/kg	24	5	21.8	21.8	1.26 J	NA	NA	NA	NA	NA	1.5	0.852	1.91
Barium	mg/kg	8,100	440	440	440	99.6	NA	NA	NA	NA	NA	26.5	23.2	50.6
Cadmium	mg/kg	52	15	2	2	0.0731 J	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	33,000	2,400	2,400	2,400	13.5	NA	NA	NA	NA	NA	5.58	4.92	8.08
Lead	mg/kg	500	3	1,921.60	1,921.60	18.9	NA	NA	NA	NA	NA	5.94	4.29	6.53
Mercury	mg/kg	8.3	2.1	2.1	2.1	<0.0484 U	NA	NA	NA	NA	NA	0.00738	<0.00416	0.0111
Selenium	mg/kg	310.0	2.3	2.3	2.3	<2.42 U	NA	NA	NA	NA	NA	1.02	<0.499	<0.510
Acetone	mg/kg	66,000	43	133	133	1.73	<0.0668 U	<0.0799 U	<0.0815 U	<0.0701 U	<0.0733 U	NA	NA	NA
Benzene	mg/kg	120	0.026	0.026	0.026	0.00301	0.00158	0.00125 J	<0.00163 U	<0.0014 U	<0.00147 U	0.000498	0.000211	0.000558
sec-Butylbenzene	mg/kg	3,300	85	250	250	0.0436	0.323	<0.02 U	<0.0204 U	<0.0175 U	<0.0183 U	<0.000461	<0.000461	<0.000456
tert-Butylbenzene	mg/kg	3,300	100	300	300	0.0039 J	0.025	<0.00799 U	<0.00815 UJ	<0.00701 U	<0.00733 U	<0.000194	<0.000194	<0.000192
1,1-Dichloroethane	mg/kg	11,000	18	55	55	<0.00463 U	<0.00334 U	0.00185 J	<0.00408 U	<0.00351 U	<0.00366 U	<0.000189	<0.000189	<0.000187
1,1-Dichloroethene	mg/kg	2,300	0.05	0.05	0.05	<0.00463 U	<0.00334 U	<0.00399 U	<0.00408 U	<0.00351 U	<0.00366 U	<0.000223	<0.000223	<0.000220
cis-1,2-Dichloroethene	mg/kg	140	0.25	0.25	0.25	<0.00463 U	<0.00334 U	<0.00399 U	<0.00408 U	<0.00351 U	<0.00366 U	<0.000320	0.000457	<0.000316
Ethylbenzene	mg/kg	6,400	7.6	7.6	7.6	0.00598	0.021	<0.00399 U	<0.00408 U	<0.00351 U	<0.00366 U	<0.000404	<0.000578	<0.000399
2-Butanone (MEK)	mg/kg	40,000	29	87	87	<0.185 U	<0.134 U	<0.16 U	<0.163 U	<0.14 U	<0.147 U	NA	NA	NA
Naphthalene	mg/kg	220	31	93	93	0.0249	0.0234	<0.02 U	<0.0204 U	<0.0175 U	<0.0183 U	<0.00188	<0.00269	<0.00186
Isopropylbenzene	mg/kg	4,300	350	1,000	1,000	0.00714	0.0238	<0.00399 U	<0.00408 U	<0.00351 U	<0.00366 U	NA	NA	NA
Methyl Tert-Butyl Ether	mg/kg	800	0.62	1.9	1.9	0.00348	<0.00134 U	0.00076 J	<0.00163 U	<0.0014 U	<0.00147 U	NA	NA	NA
N-Butylbenzene	mg/kg	3,300	150	450	450	0.129	0.675	<0.02 U	<0.0204 U	<0.0175 U	<0.0183 U	NA	NA	NA
N-Propylbenzene	mg/kg	2,200	45	130	130	0.018	0.104	0.00185 J	<0.00815 U	<0.00701 U	<0.00733 U	NA	NA	NA
P-Isopropyltoluene	mg/kg	8,200	230	690	690	0.112	0.737	0.00839	<0.00815 U	<0.00701 U	<0.00733 U	NA	NA	NA
Trichloroethylene (TCE)	mg/kg	18	0.034	0.034	0.034	<0.00185 U	0.000926 J	<0.0016 U	<0.00163 U	0.0029	<0.00147 U	NA	NA	NA
Tetrachloroethene (PCE)	mg/kg	710	0.05	0.05	0.05	<0.00463 U	<0.00334 U	<0.00399 U	<0.00408 U	0.00394	<0.00366 U	0.000432	0.000767	0.00271
Toluene	mg/kg	5,900	8.2	8.2	8.2	0.00695 J	0.0187	<0.00799 U	<0.00815 U	<0.00701 U	<0.00733 U	0.00515	<0.00134	0.00379
1,2,4-Trimethylbenzene	mg/kg	1,600	33	99	99	0.289	1.07	0.0216	<0.00815 U	<0.00701 U	<0.00733 U	0.000169	0.000175	0.000130
1,2,3-Trimethylbenzene	mg/kg	1,600	21	64	64	0.29	1.11	0.0222	<0.00815 U	<0.00701 U	<0.00733 U	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	1,500	36	110	110	0.0787	0.437	0.00633 J	<0.00815 U	<0.00701 U	<0.00733 U	<0.000373	<0.000535	<0.000369
Xylenes (total)	mg/kg	6,000	120	120	120	0.0307	0.131	0.00307 J	<0.0106 U	<0.00912 U	<0.00952 U	<0.000470	<0.000672	<0.000465
Acenaphthylene	mg/kg	3,800	410	1,200	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	18,000	6,900	21,000	21,000	NA	<0.384 U	<0.0414 U	<0.0422 U	<0.0389 U	<0.0399 U	NA	NA	NA

Notes:

Indicates critical PCL exceedance (without MSD)

NA= Not Analyzed

Only analytes detected are shown. See laboratory report for full data set.

U= Below reporting limit

J= Estimated value (analyte detected below reporting limit)

TABLE E.1
SOIL DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

				Sample Location:		SB-18	MW-09	MW-09	MW-10	MW-11	MW-11	TMW-01	TMW-02	TMW-03
		Residential Action Level (Assessment Level)			Depth (ft):	5	20	22.5	20	22.5	25	2-4	6-8	2-4
Analyte	Units	TRRP Tier 1 Residential $^{Total}Soil_{Comb}$ (0.5-Acre)	TRRP Tier 1 Residential $^{GW}Soil_{Ing}$ (0.5-Acre)	Surface Soil (<5' Deep) Critical PCL	Subsurface Soil (>5' Deep) Critical PCL	1/19/2021	7/21/2020	7/21/2020	7/7/2020	7/20/2020	7/20/2020	1/2/2019	1/3/2019	1/2/2019
Benzo (A) Anthracene	mg/kg	41	130	170	290	NA	<0.384 U	<0.0414 U	<0.0422 U	<0.0389 U	<0.0399 U	NA	NA	NA
Benzo (B) Fluoranthene	mg/kg	42	440	170	980	NA	<0.384 U	<0.0414 U	<0.0422 U	<0.0389 U	<0.0399 U	NA	NA	NA
Benzo (G,H,I) Perylene	mg/kg	1,800	46,000	19,000	140,000	NA	<0.384 U	<0.0414 U	<0.0422 U	<0.0389 U	<0.0399 U	NA	NA	NA
Benzo (A) Pyrene	mg/kg	4	7.6	7.6	7.6	NA	<0.384 U	<0.0414 U	<0.0422 U	<0.0389 U	<0.0399 U	NA	NA	NA
Chrysene	mg/kg	4,100	11,000	17,000	25,000	NA	<0.384 U	<0.0414 U	<0.0422 U	<0.0389 U	<0.0399 U	NA	NA	NA
Fluoranthene	mg/kg	2,300	1,900	5,700	5,700	NA	<0.384 U	<0.0414 U	<0.0422 U	<0.0389 U	<0.0399 U	NA	NA	NA
Fluorene	mg/kg	2,300	300	890	890	NA	<0.384 U	<0.0414 U	<0.0422 U	<0.0389 U	<0.0399 U	NA	NA	NA
Dibenzofuran	mg/kg	270	33	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-CD) Pyrene	mg/kg	42	1,300	170	2,800	NA	<0.384 U	<0.0414 U	<0.0422 U	<0.0389 U	<0.0399 U	NA	NA	NA
Phenanthrene	mg/kg	1,700	420	1,200	1,200	NA	<0.384 U	<0.0414 U	<0.0422 U	<0.0389 U	<0.0399 U	NA	NA	NA
Bis (2-ethylhexyl) Phthalate	mg/kg	NE	NE	NE	NE	NA	<3.84 U	<0.414 U	<0.422 U	<0.389 U	<0.399 U	NA	NA	NA
Pyrene	mg/kg	1,700	1,100	3,300	3,300	NA	<0.384 U	<0.0414 U	<0.0422 U	<0.0389 U	<0.0399 U	NA	NA	NA
TPH C_{21} to C_{35} Aromatic	mg/kg	2,000	3,700	11,000	11,000	NA	11.8 J	NA	NA	NA	NA	NA	NA	NA
TPH C_{10} to C_{12} Aliphatic	mg/kg	3,600	25,000	9,300	11,000	NA	392	NA	NA	NA	NA	NA	NA	NA
TPH C_{12} to C_{16} Aliphatic	mg/kg	4,300	490,000	14,000	17,000	NA	<23.1	NA	NA	NA	NA	NA	NA	NA
TPH C_{16} to C_{21} Aliphatic	mg/kg	130,000	1,000,000	1,000,000	1,000,000	NA	<23.1	NA	NA	NA	NA	NA	NA	NA
TPH C_{16} to C_{21} Aromatic	mg/kg	2,000	470	590	590	NA	<23.1	NA	NA	NA	NA	NA	NA	NA
TPH C_{21} to C_{35} Aliphatic	mg/kg	130,000	1,000,000	1,000,000	1,000,000	NA	121	NA	NA	NA	NA	NA	NA	NA
TPH C_8 to C_{10} Aliphatic	mg/kg	4,000	3,600	9,700	9,700	NA	653	NA	NA	NA	NA	NA	NA	NA
C_6-C_{12} TPH	mg/kg	1,600	65	190	190	NA	1670	<62.1 U	<63.4 U	<58.4 U	<60 U	<2.66	<2.33	<2.76
C_{12}-C_{28} TPH	mg/kg	2,300	200	590	590	NA	173	<62.1 U	<63.4 U	<58.4 U	<60 U	33.4	<1.6	11.9
C_{28}-C_{35} TPH	mg/kg	2,300	200	590	590	NA	178	<62.1 U	<63.4 U	<58.4 U	<60 U	21.8	<0.669	10.4
Total TPH	mg/kg	NE	NE	NE	NE	NA	2020	<62.1 U	<63.4 U	<58.4 U	<60 U	55.2	<0.669	22.3
pH	SU	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	8.3	8.28	7.77
TOTAL SOLIDS	%	NE	NE	NE	NE	NA	NA	NA	78.9	NA	NA	NA	NA	NA

Notes:
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NA= Not Analyzed
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U= Below reporting limit
J= Estimated value (analyte detected below reporting limit)

TABLE E.1
SOIL DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

						Sample Location:	TMW-04	TMW-05	TMW-06	TMW-07	TMW-08	TMW-09	TMW-10
		Residential Action Level (Assessment Level)				Depth (ft):	19-21	2-4	2-4	8-10	2-4	2-4	2-4
Analyte	Units	TRRP Tier 1 Residential $^{Total}Soil_{Comb}$ (0.5-Acre)	TRRP Tier 1 Residential $^{GW}Soil_{Ing}$ (0.5-Acre)	Surface Soil (<5' Deep) Critical PCL	Subsurface Soil (>5' Deep) Critical PCL		1/2/2019	1/3/2019	1/3/2019	1/3/2019	1/3/2019	1/3/2019	1/2/2019
Arsenic	mg/kg	24	5	21.8	21.8		0.856	1.64	3.45	<0.627	2.17	2.59	0.754
Barium	mg/kg	8,100	440	440	440		12.2	34.1	53.7	14.1	72.0	83	23.2
Cadmium	mg/kg	52	15	2	2		NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	33,000	2,400	2,400	2,400		3.28	4.63	13.5	5.86	7.63	9.21	5.58
Lead	mg/kg	500	3	1,921.60	1,921.60		3.49	7.61	7.76	6.11	5.94	15	5.24
Mercury	mg/kg	8.3	2.1	2.1	2.1		<0.00408	0.00444	0.00829	<0.00405	0.00586	0.0195	0.00695
Selenium	mg/kg	310.0	2.3	2.3	2.3		<0.447	<0.538	0.805	<0.504	0.633	<0.507	0.547
Acetone	mg/kg	66,000	43	133	133		NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	120	0.026	0.026	0.026		<0.00395	0.000687	0.000390	<0.000149	0.000391	0.000293	0.000786
sec-Butylbenzene	mg/kg	3,300	85	250	250		<0.0124	<0.000783	<0.000490	<0.000464	<0.000384	<0.000435	<0.000443
tert-Butylbenzene	mg/kg	3,300	100	300	300		<0.00520	<0.000330	<0.000206	<0.000196	<0.000162	<0.000183	<0.000186
1,1-Dichloroethane	mg/kg	11,000	18	55	55		<0.00507	<0.000321	0.000290	0.00330	<0.000157	<0.000178	<0.000182
1,1-Dichloroethene	mg/kg	2,300	0.05	0.05	0.05		<0.00597	<0.000379	<0.000237	0.000540	<0.000186	<0.000210	<0.000214
cis-1,2-Dichloroethene	mg/kg	140	0.25	0.25	0.25		<0.00857	0.000544	<0.000340	0.00101	<0.000266	<0.000302	<0.000307
Ethylbenzene	mg/kg	6,400	7.6	7.6	7.6		<0.0108	0.000831	<0.000430	<0.000407	<0.000336	<0.000381	<0.000388
2-Butanone (MEK)	mg/kg	40,000	29	87	87		NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	220	31	93	93		0.00629	<0.00320	<0.00200	<0.00189	<0.00157	<0.00177	<0.00181
Isopropylbenzene	mg/kg	4,300	350	1,000	1,000		NA	NA	NA	NA	NA	NA	NA
Methyl Tert-Butyl Ether	mg/kg	800	0.62	1.9	1.9		NA	NA	NA	NA	NA	NA	NA
N-Butylbenzene	mg/kg	3,300	150	450	450		NA	NA	NA	NA	NA	NA	NA
N-Propylbenzene	mg/kg	2,200	45	130	130		NA	NA	NA	NA	NA	NA	NA
P-Isopropyltoluene	mg/kg	8,200	230	690	690		NA	NA	NA	NA	NA	NA	NA
Trichloroethylene (TCE)	mg/kg	18	0.034	0.034	0.034		NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene (PCE)	mg/kg	710	0.05	0.05	0.05		<0.00645	<0.000409	0.000280	0.000862	<0.000256	0.000293	<0.000231
Toluene	mg/kg	5,900	8.2	8.2	8.2		<0.0252	0.00385	<0.00100	<0.000947	0.00431	0.00134	0.00969
1,2,4-Trimethylbenzene	mg/kg	1,600	33	99	99		0.0398	<0.000180	0.000140	<0.00189	0.000117	0.000115	0.000163
1,2,3-Trimethylbenzene	mg/kg	1,600	21	64	64		NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	1,500	36	110	110		0.0113	<0.000635	<0.000397	<0.000376	<0.000311	<0.000352	<0.000359
Xylenes (total)	mg/kg	6,000	120	120	120		<0.0126	<0.000799	<0.000500	<0.000474	<0.000391	<0.000443	<0.000452
Acenaphthylene	mg/kg	3,800	410	1,200	1,200		0.00877	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	18,000	6,900	21,000	21,000		0.0181	NA	NA	NA	NA	NA	NA

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J= Estimated value (analyte detected below reporting limit)

TABLE E.1
SOIL DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

					Sample Location:	TMW-04	TMW-05	TMW-06	TMW-07	TMW-08	TMW-09	TMW-10
		Residential Action Level (Assessment Level)			Depth (ft):	19-21	2-4	2-4	8-10	2-4	2-4	2-4
Analyte	Units	TRRP Tier 1 Residential $^{Total}Soil_{Comb}$ (0.5-Acre)	TRRP Tier 1 Residential $^{GW}Soil_{Ing}$ (0.5-Acre)	Surface Soil (<5' Deep) Critical PCL	Subsurface Soil (>5' Deep) Critical PCL	1/2/2019	1/3/2019	1/3/2019	1/3/2019	1/3/2019	1/3/2019	1/2/2019
Benzo (A) Anthracene	mg/kg	41	130	170	290	0.00629	NA	NA	NA	NA	NA	NA
Benzo (B) Fluoranthene	mg/kg	42	440	170	980	<0.00443	NA	NA	NA	NA	NA	NA
Benzo (G,H,I) Perylene	mg/kg	1,800	46,000	19,000	140,000	<0.00443	NA	NA	NA	NA	NA	NA
Benzo (A) Pyrene	mg/kg	4	7.6	7.6	7.6	<0.00443	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	4,100	11,000	17,000	25,000	<0.00443	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	2,300	1,900	5,700	5,700	0.00859	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	2,300	300	890	890	0.0466	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	270	33	100	100	0.0118	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-CD) Pyrene	mg/kg	42	1,300	170	2,800	<0.00443	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	1,700	420	1,200	1,200	0.0809	NA	NA	NA	NA	NA	NA
Bis (2-ethylhexyl) Phthalate	mg/kg	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	1,700	1,100	3,300	3,300	0.0932	NA	NA	NA	NA	NA	NA
TPH C_{21} to C_{35} Aromatic	mg/kg	2,000	3,700	11,000	11,000	89.7	NA	NA	NA	NA	NA	NA
TPH C_{10} to C_{12} Aliphatic	mg/kg	3,600	25,000	9,300	11,000	11.6	NA	NA	NA	NA	NA	NA
TPH C_{12} to C_{16} Aliphatic	mg/kg	4,300	490,000	14,000	17,000	42.7	NA	NA	NA	NA	NA	NA
TPH C_{16} to C_{21} Aliphatic	mg/kg	130,000	1,000,000	1,000,000	1,000,000	180	NA	NA	NA	NA	NA	NA
TPH C_{16} to C_{21} Aromatic	mg/kg	2,000	470	590	590	18.0	NA	NA	NA	NA	NA	NA
TPH C_{21} to C_{35} Aliphatic	mg/kg	130,000	1,000,000	1,000,000	1,000,000	5670	NA	NA	NA	NA	NA	NA
TPH C_8 to C_{10} Aliphatic	mg/kg	4,000	3,600	9,700	9,700		NA	NA	NA	NA	NA	NA
C_6-C_{12} TPH	mg/kg	1,600	65	190	190	16.8	<2.24	<2.14	<2.48	<2.04	<2.57	<2.71
C_{12}-C_{28} TPH	mg/kg	2,300	200	590	590	2230	<1.53	<1.47	<1.70	<1.40	21.1	<1.86
C_{28}-C_{35} TPH	mg/kg	2,300	200	590	590	3270	<0.642	<0.615	<0.712	<0.585	10.1	<0.777
Total TPH	mg/kg	NE	NE	NE	NE	5520	<0.642	<0.615	<0.712	<0.585	31.2	<0.777
pH	SU	NE	NE	NE	NE	7.63	7.54	7.25	8.17	7.72	9.69	9.57
TOTAL SOLIDS	%	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA

Notes:
Indicates critical PCL exceedance (without MSD)
NA= Not Analyzed
Only analytes detected are shown. See laboratory report for full data set.
U= Below reporting limit
J= Estimated value (analyte detected below reporting limit)

TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			MW-01							
	Units	TRRP Tier 1 $^{Gw}Gw_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}Gw_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	08/01/2019	11/05/2019	2/10/2020	7/27/2020	10/20/2020	1/20/2021	5/4/2021	9/16/2021
Arsenic	mg/l	0.01	NE	0.01	NE	0.01	<0.01 U	<0.01 U	<0.01 U	0.0537	<0.01 U	<0.01 U	<0.0100 U	<0.01 U
Barium	mg/l	2	NE	2	NE	2	0.523	0.341	0.335	0.85	0.306	0.256	0.248	0.222
Cadmium	mg/l	0.005	NE	0.005	NE	0.005	<0.002 U	<0.002 U	<0.002 U	<0.002 U	<0.002 U	<0.002 U	<0.005 U	<0.005 U
Chromium	mg/l	0.1	NE	0.1	NE	0.1	<0.01 U	0.00217 J	<0.01 U	0.0479	0.00433 J	0.00363 J	0.00469 U	<0.01 U
Lead	mg/l	0.015	NE	0.015	NE	0.015	<0.005 U	<0.005 U	<0.005 U	0.0371	<0.006 U	<0.006 U	<0.01 U	<0.01 U
Selenium	mg/l	0.05	NE	0.05	NE	0.05	0.0102	<0.01 U	<0.01 U	0.01	0.0105	<0.01 U	<0.03 U	<0.03 U
Silver	mg/l	0.12	NE	0.37	NE	0.37	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.02 U	<0.02 U
Mercury	mg/l	0.002	7.3	0.002	10	0.002	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U
Acetone	mg/l	22	1,000,000	66	1,000,000	66	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.01 U	<0.01 U
Benzene	mg/l	0.005	180	0.005	300	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.000131 J	<0.001 U	<0.001 U
Bromodichloromethane	mg/l	0.08	NE	0.08	NE	0.08	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
n-Butylbenzene	mg/l	1.2	NE	3.7	NE	3.7	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
sec-Butylbenene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
tert-Butylbenzene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
Chloroethane	mg/l	9.8	120,000	29	160000	29	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Chloroform	mg/l	0.08	20	0.08	33	0.08	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.001 U	<0.001 U
2-Chlorotoluene	mg/l	0.49	24,000	1.5	33000	1.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1-Dichloroethane	mg/l	4.9	43,000	15	60,000	15	0.00209	0.000387 J	0.000368 J	0.000393 J	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,2-Dichloroethane	mg/l	0.005	250	0.005	420	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1-Dichloroethene	mg/l	0.007	1,700	0.007	2,300	0.007	0.017	0.0027	0.0021	0.00436	0.000467 J	0.000304 J	<0.001 U	<0.001 U
cis-1,2-Dichloroethene	mg/l	0.07	1,200	0.07	1,700	0.07	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
trans-1,2-Dichloroethene	mg/l	0.1	770	0.1	1,100	0.1	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Ethylbenzene	mg/l	0.7	30,000	0.7	42,000	0.7	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Isopropylbenzene	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Dichloro-difluoromethane	mg/l	4.9	NE	15	84	15	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U

Notes:
Indicates critical PCL exceedance (without MSD)
NA= Not Analyzed
NE= Not Established
Only analytes detected are shown. See laboratory report for full data set.
U= Below reporting limit
J= Estimated value (analyte detected below reporting limit)
B= Compound detected in blank as well as sample
R= Rejected value

TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			MW-01							
	Units	TRRP Tier 1 $^{Gw}GW_{ing}$	TRRP Tier 1 $^{Air}GW_{inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}GW_{ing}$	TRRP Tier 1 $^{Air}GW_{inh-V}$	Critical Tier 1 PCL	08/01/2019	11/05/2019	2/10/2020	7/27/2020	10/20/2020	1/20/2021	5/4/2021	9/16/2021
P-Isopropyltoluene	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Methylene Chloride	mg/l	0.005	21000	0.005	36000	0.005	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.01 U	<0.01 U
Methyl tert-butyl ether	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
2-Nitrophenol	mg/l	0.049	NE	0.15	NE	0.15	<0.0102 U	<0.01 U	<0.011 U	<0.01 U	<0.01 U	<0.01 U	<0.005 U	<0.005 U
Fluoranthene	mg/l	0.98	NE	2.9	NE	2.9	<0.00102 U	<0.001 U	<0.0011 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Hexachlorocyclopentadiene	mg/l	0.05	5.4	0.05	7.6	0.05	<0.0102 U	<0.01 U	<0.011 U	<0.01 U	<0.01 U	<0.01 U	<0.005 U	<0.005 U
Phenanthrene	mg/l	0.73	NE	2.2	NE	2.2	<0.00102 U	<0.001 U	<0.0011 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Pyrene	mg/l	0.73	NE	2.2	NE	2.2	<0.00102 U	<0.001 U	<0.0011 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
n-Propylbenzene	mg/l	0.98	6000	2.9	8500	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Tetrachloroethene (PCE)	mg/l	0.005	500	0.005	840	0.005	0.0102	0.00179	0.00201	0.00236	0.00115	0.000898 J	0.000511 J	<0.001 U
Toluene	mg/l	1	64000	1	89000	1	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1,2-Trichloroethane	mg/l	0.005	80	0.005	130	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Trichloroethene (TCE)	mg/l	0.005	24	0.005	33	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,2,4-Trimethylbenzene	mg/l	0.83	4900	2.5	6800	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
1,2,3-Trimethylbenzene	mg/l	0.83	5600	2.5	7900	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
1,3,5-Trimethylbenzene	mg/l	0.83	3800	2.5	5300	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
Vinyl Chloride	mg/l	0.002	3.8	0.002	6.4	0.002	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Xylenes, Total	mg/l	10	10000	10	14000	10	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.002 U	<0.002 U
TPH C6-C12	mg/l	0.98	1800	2.9	2500	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.73 U	<4.62 U
TPH C12-C28	mg/l	0.98	7500	2.9	10000	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.73 U	<4.62 U
TPH C28-C35	mg/l	0.98	7500	2.9	10000	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.73 U	<4.62 U
Total TPH	mg/l	NE	NE	NE	NE	NE	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.73 U	<4.62 U
Naphthalene	mg/l	0.49	320	1.5	440	1.5	<0.00102 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Bis (2-Ethylhexyl) Phthalate	mg/l	0.006	NE	0.006	NE	0.006	<0.00306 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.005 U	<0.005 U
Diethyl Phthalate	mg/l	20	NE	58	NE	58	<0.00306 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.005 U	<0.005 U
2,4-Dimethylphenol	mg/l	0.49	NE	1.5	NE	1.5	<0.0102 U	<0.01 U	<0.011 U	<0.01 U	<0.01 U	<0.01 U	<0.005 U	<0.005 U
Benzo(A)Anthracene	mg/l	0.0091	3000	0.02	5000	0.02	<0.00102 U	<0.001 U	<0.0011 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Benzo(A)Pyrene	mg/l	0.0002	29	0.0002	41	0.0002	<0.00102 U	<0.001 U	<0.00022 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.005 U	<0.005 U
Phenol	mg/l	7.3	160000	22	220000	22	0.00127 J	0.00078 J	<0.011 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U

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TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			MW-02							
	Units	TRRP Tier 1 $^{Gw}GW_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}GW_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	08/01/2019	11/05/2019	2/10/2020	7/28/2020	10/20/2020	1/21/2021	5/4/2021	9/16/2021
Arsenic	mg/l	0.01	NE	0.01	NE	0.01	<0.01 U	<0.01 U	<0.01 U	0.00596 J	<0.01 U	<0.01 U	<0.01 U	<0.01 U
Barium	mg/l	2	NE	2	NE	2	0.943	0.901	0.949	1.19	0.955	1.01	0.819	0.796
Cadmium	mg/l	0.005	NE	0.005	NE	0.005	<0.002 U	<0.002 U	<0.002 U	<0.002 U	<0.002 U	0.000551 J	<0.005 U	<0.005 U
Chromium	mg/l	0.1	NE	0.1	NE	0.1	0.00514 J	0.00477 J	0.00475 J	0.0361	0.012	0.127	0.00658 U	0.0138 B
Lead	mg/l	0.015	NE	0.015	NE	0.015	<0.005 U	<0.005 U	<0.005 U	0.013	<0.006 U	0.0032 J	<0.01 U	<0.01 U
Selenium	mg/l	0.05	NE	0.05	NE	0.05	0.0108	0.00922 J	<0.01 U	<0.01 U	0.00816 J	0.00939 J	<0.03 U	<0.03 U
Silver	mg/l	0.12	NE	0.37	NE	0.37	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.02 U	<0.02 U
Mercury	mg/l	0.002	7.3	0.002	10	0.002	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 UJ	<0.0002 U	<0.0002 U
Acetone	mg/l	22	1,000,000	66	1,000,000	66	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.01 U	<0.01 U
Benzene	mg/l	0.005	180	0.005	300	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Bromodichloromethane	mg/l	0.08	NE	0.08	NE	0.08	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
n-Butylbenzene	mg/l	1.2	NE	3.7	NE	3.7	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
sec-Butylbenene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
tert-Butylbenzene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
Chloroethane	mg/l	9.8	120,000	29	160000	29	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Chloroform	mg/l	0.08	20	0.08	33	0.08	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.001 U	<0.001 U
2-Chlorotoluene	mg/l	0.49	24,000	1.5	33000	1.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1-Dichloroethane	mg/l	4.9	43,000	15	60,000	15	0.000403 J	0.000577 J	<0.001 U	0.000656 J	0.000531 J	0.000587 J	0.000632 J	0.000599 J
1,2-Dichloroethane	mg/l	0.005	250	0.005	420	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1-Dichloroethene	mg/l	0.007	1,700	0.007	2,300	0.007	0.0153	0.0136	0.021	0.0197	0.0188	0.0181	0.0174	0.0158
cis-1,2-Dichloroethene	mg/l	0.07	1,200	0.07	1,700	0.07	<0.001 U	0.000415 J	0.000485 J	0.000443 J	0.000375 J	0.00094 J	<0.001 U	<0.001 U
trans-1,2-Dichloroethene	mg/l	0.1	770	0.1	1,100	0.1	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Ethylbenzene	mg/l	0.7	30,000	0.7	42,000	0.7	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Isopropylbenzene	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Dichloro-difluoromethane	mg/l	4.9	NE	15	84	15	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U

Notes:
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TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			MW-02							
	Units	TRRP Tier 1 $^{Gw}GW_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}GW_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	08/01/2019	11/05/2019	2/10/2020	7/28/2020	10/20/2020	1/21/2021	5/4/2021	9/16/2021
P-Isopropyltoluene	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Methylene Chloride	mg/l	0.005	21000	0.005	36000	0.005	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.01 U	<0.01 U
Methyl tert-butyl ether	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
2-Nitrophenol	mg/l	0.049	NE	0.15	NE	0.15	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.005 UJ	<0.005 U
Fluoranthene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Hexachlorocyclopentadiene	mg/l	0.05	5.4	0.05	7.6	0.05	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.005 U	<0.005 U
Phenanthrene	mg/l	0.73	NE	2.2	NE	2.2	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Pyrene	mg/l	0.73	NE	2.2	NE	2.2	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
n-Propylbenzene	mg/l	0.98	6000	2.9	8500	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Tetrachloroethene (PCE)	mg/l	0.005	500	0.005	840	0.005	0.00512	0.00573	0.00838	0.00823	0.00918	0.00718	0.00658	0.00725
Toluene	mg/l	1	64000	1	89000	1	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1,2-Trichloroethane	mg/l	0.005	80	0.005	130	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Trichloroethene (TCE)	mg/l	0.005	24	0.005	33	0.005	<0.001 U	0.00042 J	0.00042 J	0.000615 J	0.000502 J	0.000446 J	<0.001 U	<0.001 U
1,2,4-Trimethylbenzene	mg/l	0.83	4900	2.5	6800	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
1,2,3-Trimethylbenzene	mg/l	0.83	5600	2.5	7900	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.000185 J	<0.002 U	<0.002 U
1,3,5-Trimethylbenzene	mg/l	0.83	3800	2.5	5300	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
Vinyl Chloride	mg/l	0.002	3.8	0.002	6.4	0.002	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Xylenes, Total	mg/l	10	10000	10	14000	10	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.002 U	<0.002 U
TPH C6-C12	mg/l	0.98	1800	2.9	2500	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.64 U	<4.76 U
TPH C12-C28	mg/l	0.98	7500	2.9	10000	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.64 U	<4.76 U
TPH C28-C35	mg/l	0.98	7500	2.9	10000	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.64 U	<4.76 U
Total TPH	mg/l	NE	NE	NE	NE	NE	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.64 U	<4.76 U
Naphthalene	mg/l	0.49	320	1.5	440	1.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001	<0.001 U	<0.005 U	<0.005 U
Bis (2-Ethylhexyl) Phthalate	mg/l	0.006	NE	0.006	NE	0.006	<0.003 U	0.0255	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.005 U	<0.005 U
Diethyl Phthalate	mg/l	20	NE	58	NE	58	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.005 U	<0.005 U
2,4-Dimethylphenol	mg/l	0.49	NE	1.5	NE	1.5	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.005 UJ	<0.005 U
Benzo(A)Anthracene	mg/l	0.0091	3000	0.02	5000	0.02	<0.001 U	0.000167 J	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Benzo(A)Pyrene	mg/l	0.0002	29	0.0002	41	0.0002	<0.001 U	<0.001 U	0.000122 J	<0.0002 U	<0.0002 U	<0.0002 U	<0.005 U	<0.005 U
Phenol	mg/l	7.3	160000	22	220000	22	0.000362 J	0.00291 J	0.000515 J	<0.01 U	<0.01 U	<0.01 U	<0.01 UJ	<0.01 U

Notes:
Indicates critical PCL exceedance (without MSD)
NA= Not Analyzed
NE= Not Established
Only analytes detected are shown. See laboratory report for full data set.
U= Below reporting limit
J= Estimated value (analyte detected below reporting limit)
B= Compound detected in blank as well as sample
R= Rejected value

TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			MW-03							
	Units	TRRP Tier 1 $^{Gw}GW_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}GW_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	07/31/2019	11/05/2019	2/10/2020	7/27/2020	10/21/2020	1/20/2021	5/5/2021	9/16/2021
Arsenic	mg/l	0.01	NE	0.01	NE	0.01	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	0.0398	0.00575 J	0.00679 J
Barium	mg/l	2	NE	2	NE	2	0.282	0.272	0.252	0.461	0.575	2.51	0.394	0.291
Cadmium	mg/l	0.005	NE	0.005	NE	0.005	<0.002 U	<0.002 U	<0.002 U	<0.002 U	<0.002 U	0.0043	<0.005 U	<0.005 U
Chromium	mg/l	0.1	NE	0.1	NE	0.1	0.00188 J	0.0029 J	0.00227 J	0.021	0.0103	0.255	0.0166	0.0145 B
Lead	mg/l	0.015	NE	0.015	NE	0.015	<0.005 U	<0.005 U	<0.005 U	0.0179	0.00551 J	0.187	0.0138	0.00333 J
Selenium	mg/l	0.05	NE	0.05	NE	0.05	0.0225	0.0214	0.0116	0.0173	0.0135	<0.01 U	<0.03 U	<0.03 U
Silver	mg/l	0.12	NE	0.37	NE	0.37	<0.005 U	<0.005 U	<0.005	<0.005 U	<0.005 U	<0.005 U	<0.02 U	<0.02 U
Mercury	mg/l	0.002	7.3	0.002	10	0.002	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0000526 U
Acetone	mg/l	22	1,000,000	66	1,000,000	66	<0.05 U	<0.05 U	<0.05 U	<0.05 U	0.0138 J	<0.05 U	<0.01 U	<0.01 U
Benzene	mg/l	0.005	180	0.005	300	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.000118 J	<0.001 U	<0.001 U
Bromodichloromethane	mg/l	0.08	NE	0.08	NE	0.08	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
n-Butylbenzene	mg/l	1.2	NE	3.7	NE	3.7	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
sec-Butylbenene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
tert-Butylbenzene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
Chloroethane	mg/l	9.8	120,000	29	160000	29	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Chloroform	mg/l	0.08	20	0.08	33	0.08	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.001 U	<0.001 U
2-Chlorotoluene	mg/l	0.49	24,000	1.5	33000	1.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1-Dichloroethane	mg/l	4.9	43,000	15	60,000	15	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,2-Dichloroethane	mg/l	0.005	250	0.005	420	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1-Dichloroethene	mg/l	0.007	1,700	0.007	2,300	0.007	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
cis-1,2-Dichloroethene	mg/l	0.07	1,200	0.07	1,700	0.07	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
trans-1,2-Dichloroethene	mg/l	0.1	770	0.1	1,100	0.1	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Ethylbenzene	mg/l	0.7	30,000	0.7	42,000	0.7	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Isopropylbenzene	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Dichloro-difluoromethane	mg/l	4.9	NE	15	84	15	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U

Notes:
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NA= Not Analyzed
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U= Below reporting limit
J= Estimated value (analyte detected below reporting limit)
B= Compound detected in blank as well as sample
R= Rejected value

TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			MW-03							
	Units	TRRP Tier 1 $^{Gw}GW_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}GW_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	07/31/2019	11/05/2019	2/10/2020	7/27/2020	10/21/2020	1/20/2021	5/5/2021	9/16/2021
P-Isopropyltoluene	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Methylene Chloride	mg/l	0.005	21000	0.005	36000	0.005	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.01 U	<0.01 U
Methyl tert-butyl ether	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
2-Nitrophenol	mg/l	0.049	NE	0.15	NE	0.15	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.005 UJ	<0.005 U
Fluoranthene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Hexachlorocyclopentadiene	mg/l	0.05	5.4	0.05	7.6	0.05	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.005 U	<0.005 U
Phenanthrene	mg/l	0.73	NE	2.2	NE	2.2	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Pyrene	mg/l	0.73	NE	2.2	NE	2.2	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
n-Propylbenzene	mg/l	0.98	6000	2.9	8500	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Tetrachloroethene (PCE)	mg/l	0.005	500	0.005	840	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Toluene	mg/l	1	64000	1	89000	1	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1,2-Trichloroethane	mg/l	0.005	80	0.005	130	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Trichloroethene (TCE)	mg/l	0.005	24	0.005	33	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,2,4-Trimethylbenzene	mg/l	0.83	4900	2.5	6800	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
1,2,3-Trimethylbenzene	mg/l	0.83	5600	2.5	7900	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
1,3,5-Trimethylbenzene	mg/l	0.83	3800	2.5	5300	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
Vinyl Chloride	mg/l	0.002	3.8	0.002	6.4	0.002	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Xylenes, Total	mg/l	10	10000	10	14000	10	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.002 U	<0.002 U
TPH C6-C12	mg/l	0.98	1800	2.9	2500	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.70 U	<4.66 U
TPH C12-C28	mg/l	0.98	7500	2.9	10000	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.70 U	<4.66 U
TPH C28-C35	mg/l	0.98	7500	2.9	10000	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.70 U	<4.66 U
Total TPH	mg/l	NE	NE	NE	NE	NE	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.70 U	<4.66 U
Naphthalene	mg/l	0.49	320	1.5	440	1.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Bis (2-Ethylhexyl) Phthalate	mg/l	0.006	NE	0.006	NE	0.006	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.005 U	<0.005 U
Diethyl Phthalate	mg/l	20	NE	58	NE	58	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.005 U	<0.005 U
2,4-Dimethylphenol	mg/l	0.49	NE	1.5	NE	1.5	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.005 UJ	<0.005 U
Benzo(A)Anthracene	mg/l	0.0091	3000	0.02	5000	0.02	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Benzo(A)Pyrene	mg/l	0.0002	29	0.0002	41	0.0002	<0.001 U	<0.001 U	0.000129 J	<0.0002 U	<0.0002 U	<0.0002 U	<0.005 U	<0.005 U
Phenol	mg/l	7.3	160000	22	220000	22	0.000437 J	0.00295 J	0.00105 J	0.00583 J	<0.01 U	<0.01 U	<0.01 UJ	<0.01 U

Notes:
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TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			MW-04							
	Units	TRRP Tier 1 $^{Gw}GW_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}GW_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	07/31/2019	11/05/2019	2/10/2020	7/27/2020	10/21/2020	1/20/2021	5/5/2021	9/16/2021
Arsenic	mg/l	0.01	NE	0.01	NE	0.01	<0.01 U	<0.01 U	<0.01 U	0.00468 J	<0.01 U	0.00469 J	<0.0100 U	0.019
Barium	mg/l	2	NE	2	NE	2	0.381	0.435	0.452	0.83	0.675	0.909	0.380	0.412
Cadmium	mg/l	0.005	NE	0.005	NE	0.005	<0.002 U	<0.002 U	<0.002 U	<0.002 U	<0.002 U	0.000675 J	<0.005 U	<0.005 U
Chromium	mg/l	0.1	NE	0.1	NE	0.1	0.00226 J	0.00371 J	0.00155 J	0.0205	0.00785 J	0.0344	<0.01 U	0.00904 J B
Lead	mg/l	0.015	NE	0.015	NE	0.015	0.00394 J	<0.005 U	<0.005 U	0.0149	0.00559 J	0.0359	<0.01 U	0.00644 J
Selenium	mg/l	0.05	NE	0.05	NE	0.05	<0.01 U	0.00975 J	<0.01 U	0.00839 J	<0.01 U	<0.01 U	<0.03 U	<0.03 U
Silver	mg/l	0.12	NE	0.37	NE	0.37	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	0.00397 J	<0.02 U	<0.02 U
Mercury	mg/l	0.002	7.3	0.002	10	0.002	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U
Acetone	mg/l	22	1,000,000	66	1,000,000	66	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.01 U	<0.01 U
Benzene	mg/l	0.005	180	0.005	300	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.000107 J	<0.001 U	<0.001 U
Bromodichloromethane	mg/l	0.08	NE	0.08	NE	0.08	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
n-Butylbenzene	mg/l	1.2	NE	3.7	NE	3.7	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.0002 U
sec-Butylbenene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
tert-Butylbenzene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
Chloroethane	mg/l	9.8	120,000	29	160000	29	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Chloroform	mg/l	0.08	20	0.08	33	0.08	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	0.000126 J	<0.001 U	<0.001 U
2-Chlorotoluene	mg/l	0.49	24,000	1.5	33000	1.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1-Dichloroethane	mg/l	4.9	43,000	15	60,000	15	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,2-Dichloroethane	mg/l	0.005	250	0.005	420	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1-Dichloroethene	mg/l	0.007	1,700	0.007	2,300	0.007	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
cis-1,2-Dichloroethene	mg/l	0.07	1,200	0.07	1,700	0.07	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
trans-1,2-Dichloroethene	mg/l	0.1	770	0.1	1,100	0.1	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Ethylbenzene	mg/l	0.7	30,000	0.7	42,000	0.7	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Isopropylbenzene	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Dichloro-difluoromethane	mg/l	4.9	NE	15	84	15	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U

Notes:
Indicates critical PCL exceedance (without MSD)
NA= Not Analyzed
NE= Not Established
Only analytes detected are shown. See laboratory report for full data set.
U= Below reporting limit
J= Estimated value (analyte detected below reporting limit)
B= Compound detected in blank as well as sample
R= Rejected value

TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			MW-04							
	Units	TRRP Tier 1 $^{Gw}GW_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}GW_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	07/31/2019	11/05/2019	2/10/2020	7/27/2020	10/21/2020	1/20/2021	5/5/2021	9/16/2021
P-Isopropyltoluene	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Methylene Chloride	mg/l	0.005	21000	0.005	36000	0.005	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.01 U	<0.01 U
Methyl tert-butyl ether	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
2-Nitrophenol	mg/l	0.049	NE	0.15	NE	0.15	<0.0109 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.0051 UJ	<0.005 U
Fluoranthene	mg/l	0.98	NE	2.9	NE	2.9	<0.00109 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.0051 U	<0.005 U
Hexachlorocyclopentadiene	mg/l	0.05	5.4	0.05	7.6	0.05	<0.0109 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.0051 U	<0.005 U
Phenanthrene	mg/l	0.73	NE	2.2	NE	2.2	<0.00109 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.0051 U	<0.005 U
Pyrene	mg/l	0.73	NE	2.2	NE	2.2	<0.00109 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.0051 U	<0.005 U
n-Propylbenzene	mg/l	0.98	6000	2.9	8500	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Tetrachloroethene (PCE)	mg/l	0.005	500	0.005	840	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Toluene	mg/l	1	64000	1	89000	1	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1,2-Trichloroethane	mg/l	0.005	80	0.005	130	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Trichloroethene (TCE)	mg/l	0.005	24	0.005	33	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,2,4-Trimethylbenzene	mg/l	0.83	4900	2.5	6800	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
1,2,3-Trimethylbenzene	mg/l	0.83	5600	2.5	7900	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
1,3,5-Trimethylbenzene	mg/l	0.83	3800	2.5	5300	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
Vinyl Chloride	mg/l	0.002	3.8	0.002	6.4	0.002	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Xylenes, Total	mg/l	10	10000	10	14000	10	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.002 U	<0.002 U
TPH C6-C12	mg/l	0.98	1800	2.9	2500	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.78 U	<4.67 U
TPH C12-C28	mg/l	0.98	7500	2.9	10000	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.78 U	<4.67 U
TPH C28-C35	mg/l	0.98	7500	2.9	10000	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.78 U	<4.67 U
Total TPH	mg/l	NE	NE	NE	NE	NE	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.78 U	<4.67 U
Naphthalene	mg/l	0.49	320	1.5	440	1.5	<0.00109 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Bis (2-Ethylhexyl) Phthalate	mg/l	0.006	NE	0.006	NE	0.006	<0.00327 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.0051 U	<0.005 U
Diethyl Phthalate	mg/l	20	NE	58	NE	58	<0.00327 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.0051 U	<0.005 U
2,4-Dimethylphenol	mg/l	0.49	NE	1.5	NE	1.5	<0.0109 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.0051 UJ	<0.005 U
Benzo(A)Anthracene	mg/l	0.0091	3000	0.02	5000	0.02	<0.00109 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.0051 U	<0.005 U
Benzo(A)Pyrene	mg/l	0.0002	29	0.0002	41	0.0002	<0.00109 U	<0.001 U	<0.002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0051 U	<0.005 U
Phenol	mg/l	7.3	160000	22	220000	22	0.00111 J	0.00208 J	0.00524	<0.01 U	<0.01 U	<0.01 U	<0.0102 UJ	<0.01 U

Notes:
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TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			MW-05							
	Units	TRRP Tier 1 $^{Gw}Gw_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}Gw_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	07/31/2019	11/05/2019	2/10/2020	7/27/2020	10/21/2020	1/20/2021	5/4/2021	9/16/2021
Arsenic	mg/l	0.01	NE	0.01	NE	0.01	0.13	0.0306	0.0368	1.91	1.52	0.0642	0.0328	0.258
Barium	mg/l	2	NE	2	NE	2	0.157	0.136	0.163	2.02	0.598	0.18	0.132	0.183
Cadmium	mg/l	0.005	NE	0.005	NE	0.005	<0.002 U	<0.002 U	<0.002 U	0.00058 J	<0.002 U	<0.002 U	<0.005 U	0.00331 J
Chromium	mg/l	0.1	NE	0.1	NE	0.1	<0.01 U	0.00407 J	0.00159 J	0.0551	0.00681 J	0.0825	0.00499 U	0.00139 J B
Lead	mg/l	0.015	NE	0.015	NE	0.015	<0.005 U	<0.005 U	<0.005 U	0.041	<0.006 U	<0.006 U	0.00380 J	<0.01 U
Selenium	mg/l	0.05	NE	0.05	NE	0.05	<0.01 U	<0.01 U	0.0119	0.0183	<0.01 U	<0.01 U	<0.03 U	<0.03 U
Silver	mg/l	0.12	NE	0.37	NE	0.37	<0.005 U	<0.005 U	<0.005 U	0.0026 J	<0.005 U	<0.005 U	<0.02 U	<0.02 U
Mercury	mg/l	0.002	7.3	0.002	10	0.002	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U
Acetone	mg/l	22	1,000,000	66	1,000,000	66	<0.05 U	<0.05 U	<0.05 U	<0.05 U	0.0142 J	<0.05 U	<0.01 U	<0.01 U
Benzene	mg/l	0.005	180	0.005	300	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Bromodichloromethane	mg/l	0.08	NE	0.08	NE	0.08	<0.001 U	<0.001 U	<0.001 U	0.000146 J	<0.001 U	<0.001 U	<0.001 U	<0.001 U
n-Butylbenzene	mg/l	1.2	NE	3.7	NE	3.7	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
sec-Butylbenene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	0.000368 J	<0.001 U	0.000254 J	<0.001 U	0.000538 J	<0.002 U	<0.002 U
tert-Butylbenzene	mg/l	0.98	NE	2.9	NE	2.9	0.000461 J	0.00126	<0.001 U	0.000475 J-	0.000476 J	0.00188	0.00105 J	<0.002 U
Chloroethane	mg/l	9.8	120,000	29	160000	29	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Chloroform	mg/l	0.08	20	0.08	33	0.08	0.00218 J	0.00067 J	<0.005 U	0.000686 J	0.000988 J	0.000551 J	0.000738 J	0.000928 J
2-Chlorotoluene	mg/l	0.49	24,000	1.5	33000	1.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1-Dichloroethane	mg/l	4.9	43,000	15	60,000	15	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,2-Dichloroethane	mg/l	0.005	250	0.005	420	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1-Dichloroethene	mg/l	0.007	1,700	0.007	2,300	0.007	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
cis-1,2-Dichloroethene	mg/l	0.07	1,200	0.07	1,700	0.07	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
trans-1,2-Dichloroethene	mg/l	0.1	770	0.1	1,100	0.1	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Ethylbenzene	mg/l	0.7	30,000	0.7	42,000	0.7	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Isopropylbenzene	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.000139 J	<0.005 U	<0.005 U
Dichloro-difluoromethane	mg/l	4.9	NE	15	84	15	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U

Notes:
Indicates critical PCL exceedance (without MSD)
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TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			MW-05							
	Units	TRRP Tier 1 $^{Gw}GW_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}GW_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	07/31/2019	11/05/2019	2/10/2020	7/27/2020	10/21/2020	1/20/2021	5/4/2021	9/16/2021
P-Isopropyltoluene	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Methylene Chloride	mg/l	0.005	21000	0.005	36000	0.005	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.01 U	<0.01 U
Methyl tert-butyl ether	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
2-Nitrophenol	mg/l	0.049	NE	0.15	NE	0.15	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.005 UJ	<0.005 U
Fluoranthene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Hexachlorocyclopentadiene	mg/l	0.05	5.4	0.05	7.6	0.05	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.005 U	<0.005 U
Phenanthrene	mg/l	0.73	NE	2.2	NE	2.2	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.000133 J	<0.005 U	<0.005 U
Pyrene	mg/l	0.73	NE	2.2	NE	2.2	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
n-Propylbenzene	mg/l	0.98	6000	2.9	8500	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 UJ	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Tetrachloroethene (PCE)	mg/l	0.005	500	0.005	840	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Toluene	mg/l	1	64000	1	89000	1	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1,2-Trichloroethane	mg/l	0.005	80	0.005	130	0.005	<0.001 U	<0.001 U	<0.001 U	0.000355 J	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Trichloroethene (TCE)	mg/l	0.005	24	0.005	33	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,2,4-Trimethylbenzene	mg/l	0.83	4900	2.5	6800	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
1,2,3-Trimethylbenzene	mg/l	0.83	5600	2.5	7900	2.5	<0.001 U	<0.001 U	0.00159	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
1,3,5-Trimethylbenzene	mg/l	0.83	3800	2.5	5300	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 UJ	<0.001 U	<0.001 U	<0.002 U	<0.002 U
Vinyl Chloride	mg/l	0.002	3.8	0.002	6.4	0.002	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Xylenes, Total	mg/l	10	10000	10	14000	10	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.002 U	<0.002 U
TPH C6-C12	mg/l	0.98	1800	2.9	2500	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.63 U	<4.66 U
TPH C12-C28	mg/l	0.98	7500	2.9	10000	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.63 U	<4.66 U
TPH C28-C35	mg/l	0.98	7500	2.9	10000	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.63 U	<4.66 U
Total TPH	mg/l	NE	NE	NE	NE	NE	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.63 U	<4.66 U
Naphthalene	mg/l	0.49	320	1.5	440	1.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Bis (2-Ethylhexyl) Phthalate	mg/l	0.006	NE	0.006	NE	0.006	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.005 U	<0.005 U
Diethyl Phthalate	mg/l	20	NE	58	NE	58	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.005 U	<0.005 U
2,4-Dimethylphenol	mg/l	0.49	NE	1.5	NE	1.5	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.005 UJ	<0.005 U
Benzo(A)Anthracene	mg/l	0.0091	3000	0.02	5000	0.02	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Benzo(A)Pyrene	mg/l	0.0002	29	0.0002	41	0.0002	<0.001 U	<0.001 U	<0.002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.005 U	<0.005 U
Phenol	mg/l	7.3	160000	22	220000	22	0.000851 J	<0.01 U	0.001 J	<0.01 U	<0.01 U	<0.01 U	<0.01 UJ	<0.01 U

Notes:
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TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			MW-06							
	Units	TRRP Tier 1 $^{Gw}Gw_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}Gw_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	07/31/2019	11/05/2019	2/10/2020	7/27/2020	10/20/2020	1/20/2021	5/5/2021	9/16/2021
Arsenic	mg/l	0.01	NE	0.01	NE	0.01	0.00752 J	0.0186	0.0303	0.023	0.0334	0.047	0.0534	0.0329
Barium	mg/l	2	NE	2	NE	2	0.343	0.34	0.359	0.697	0.461	0.682	0.334	0.519
Cadmium	mg/l	0.005	NE	0.005	NE	0.005	<0.002 U	<0.002 U	<0.002 U	<0.002 U	<0.002 U	<0.002 U	<0.005 U	<0.005 U
Chromium	mg/l	0.1	NE	0.1	NE	0.1	0.00316 J	0.00156 J	<0.01 U	0.0192	0.00386 J	0.0149	0.00164 U	0.019 B
Lead	mg/l	0.015	NE	0.015	NE	0.015	<0.005 U	<0.005 U	<0.005 U	0.0108	<0.006 U	0.00344 J	<0.01 U	0.0147
Selenium	mg/l	0.05	NE	0.05	NE	0.05	<0.01 U	<0.01 U	<0.01 U	<0.01 U	0.0136	<0.01 U	<0.03 U	<0.03 U
Silver	mg/l	0.12	NE	0.37	NE	0.37	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	0.00718	<0.02 U	<0.02 U
Mercury	mg/l	0.002	7.3	0.002	10	0.002	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U
Acetone	mg/l	22	1,000,000	66	1,000,000	66	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.01 U	<0.01 U
Benzene	mg/l	0.005	180	0.005	300	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Bromodichloromethane	mg/l	0.08	NE	0.08	NE	0.08	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
n-Butylbenzene	mg/l	1.2	NE	3.7	NE	3.7	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
sec-Butylbenene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
tert-Butylbenzene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 UJ	<0.001 U	<0.001 U	<0.002 U	<0.002 U
Chloroethane	mg/l	9.8	120,000	29	160000	29	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Chloroform	mg/l	0.08	20	0.08	33	0.08	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.001 U	<0.001 U
2-Chlorotoluene	mg/l	0.49	24,000	1.5	33000	1.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1-Dichloroethane	mg/l	4.9	43,000	15	60,000	15	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,2-Dichloroethane	mg/l	0.005	250	0.005	420	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1-Dichloroethene	mg/l	0.007	1,700	0.007	2,300	0.007	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
cis-1,2-Dichloroethene	mg/l	0.07	1,200	0.07	1,700	0.07	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
trans-1,2-Dichloroethene	mg/l	0.1	770	0.1	1,100	0.1	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Ethylbenzene	mg/l	0.7	30,000	0.7	42,000	0.7	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Isopropylbenzene	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Dichloro-difluoromethane	mg/l	4.9	NE	15	84	15	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U

Notes:
Indicates critical PCL exceedance (without MSD)
NA= Not Analyzed
NE= Not Established
Only analytes detected are shown. See laboratory report for full data set.
U= Below reporting limit
J= Estimated value (analyte detected below reporting limit)
B= Compound detected in blank as well as sample
R= Rejected value

TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			MW-06							
	Units	TRRP Tier 1 $^{Gw}GW_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}GW_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	07/31/2019	11/05/2019	2/10/2020	7/27/2020	10/20/2020	1/20/2021	5/5/2021	9/16/2021
P-Isopropyltoluene	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Methylene Chloride	mg/l	0.005	21000	0.005	36000	0.005	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.01 U	<0.01 U
Methyl tert-butyl ether	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
2-Nitrophenol	mg/l	0.049	NE	0.15	NE	0.15	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	R	<0.005 U
Fluoranthene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Hexachlorocyclopentadiene	mg/l	0.05	5.4	0.05	7.6	0.05	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.005 U	<0.005 U
Phenanthrene	mg/l	0.73	NE	2.2	NE	2.2	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Pyrene	mg/l	0.73	NE	2.2	NE	2.2	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
n-Propylbenzene	mg/l	0.98	6000	2.9	8500	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 UJ	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Tetrachloroethene (PCE)	mg/l	0.005	500	0.005	840	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Toluene	mg/l	1	64000	1	89000	1	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1,2-Trichloroethane	mg/l	0.005	80	0.005	130	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Trichloroethene (TCE)	mg/l	0.005	24	0.005	33	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,2,4-Trimethylbenzene	mg/l	0.83	4900	2.5	6800	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
1,2,3-Trimethylbenzene	mg/l	0.83	5600	2.5	7900	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
1,3,5-Trimethylbenzene	mg/l	0.83	3800	2.5	5300	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 UJ	<0.001 U	<0.001 U	<0.002 U	<0.002 U
Vinyl Chloride	mg/l	0.002	3.8	0.002	6.4	0.002	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Xylenes, Total	mg/l	10	10000	10	14000	10	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.002 U	<0.002 U
TPH C6-C12	mg/l	0.98	1800	2.9	2500	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.87 U	<4.67 U
TPH C12-C28	mg/l	0.98	7500	2.9	10000	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.87 U	<4.67 U
TPH C28-C35	mg/l	0.98	7500	2.9	10000	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.87 U	<4.67 U
Total TPH	mg/l	NE	NE	NE	NE	NE	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.87 U	<4.67 U
Naphthalene	mg/l	0.49	320	1.5	440	1.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Bis (2-Ethylhexyl) Phthalate	mg/l	0.006	NE	0.006	NE	0.006	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.005 U	<0.005 U
Diethyl Phthalate	mg/l	20	NE	58	NE	58	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.005 U	<0.005 U
2,4-Dimethylphenol	mg/l	0.49	NE	1.5	NE	1.5	<0.01 U	<0.01 U	<0.01 U	<0.01 U	0.00135 J	<0.01 U	R	<0.005 U
Benzo(A)Anthracene	mg/l	0.0091	3000	0.02	5000	0.02	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.001 U
Benzo(A)Pyrene	mg/l	0.0002	29	0.0002	41	0.0002	<0.001 U	<0.001 U	<0.002 U<	<0.0002 U	<0.0002 U	<0.0002 U	<0.005 U	<0.001 U
Phenol	mg/l	7.3	160000	22	220000	22	<0.01 U	0.00228 J	0.00202 J	0.00504 J	<0.01 U	<0.01 U	R	<0.01 U

Notes:
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TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			MW-07							
	Units	TRRP Tier 1 $^{Gw}GW_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}GW_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	08/01/2019	11/05/2019	2/10/2020	7/28/2020	10/20/2020	1/21/2021	5/4/2021	9/16/2021
Arsenic	mg/l	0.01	NE	0.01	NE	0.01	0.00738 J	<0.01 U	<0.01 U	<0.01 U	0.00555 J	<0.01 U	<0.01 U	<0.01 U
Barium	mg/l	2	NE	2	NE	2	0.624	0.277	0.141	0.221	0.252	0.229	0.301 J	0.336
Cadmium	mg/l	0.005	NE	0.005	NE	0.005	<0.002 U	<0.002 U	<0.002 U	<0.002 U	<0.002 U	0.000587 J	<0.005 U	<0.005 U
Chromium	mg/l	0.1	NE	0.1	NE	0.1	0.00502 J	0.00589 J	0.00341 J	0.0085 J	0.00649 J	0.0127	0.00841 U	0.00937 J B
Lead	mg/l	0.015	NE	0.015	NE	0.015	0.00199 J	<0.005 U	<0.005 U	0.00578 J	<0.006 U	0.00383 J	<0.01 U	<0.01 U
Selenium	mg/l	0.05	NE	0.05	NE	0.05	0.0112	0.0141	<0.01 U	<0.01 U	0.0148	0.0114	<0.03 U	<0.03 U
Silver	mg/l	0.12	NE	0.37	NE	0.37	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	0.00557	<0.02 U	<0.02 U
Mercury	mg/l	0.002	7.3	0.002	10	0.002	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	0.000031 J	<0.0002 U
Acetone	mg/l	22	1,000,000	66	1,000,000	66	<0.05 U	<0.05 U	<0.05 U	<0.05 U	0.0207 J	<0.05 U	<0.01 U	<0.01 U
Benzene	mg/l	0.005	180	0.005	300	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Bromodichloromethane	mg/l	0.08	NE	0.08	NE	0.08	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
n-Butylbenzene	mg/l	1.2	NE	3.7	NE	3.7	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
sec-Butylbenene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
tert-Butylbenzene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 UJ	<0.001 U	<0.001 U	<0.002 U	<0.002 U
Chloroethane	mg/l	9.8	120,000	29	160000	29	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Chloroform	mg/l	0.08	20	0.08	33	0.08	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.001 U	<0.001 U
2-Chlorotoluene	mg/l	0.49	24,000	1.5	33000	1.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1-Dichloroethane	mg/l	4.9	43,000	15	60,000	15	0.0143	0.0466	0.0614	0.03	0.016	0.0191	0.00904	0.0102
1,2-Dichloroethane	mg/l	0.005	250	0.005	420	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1-Dichloroethene	mg/l	0.007	1,700	0.007	2,300	0.007	0.00819	0.0155	0.0186	0.0078	0.00503	0.00622	0.00444	0.00639
cis-1,2-Dichloroethene	mg/l	0.07	1,200	0.07	1,700	0.07	0.00345	0.0141	0.0201	0.01	0.00493	0.00498	0.00195	0.00153
trans-1,2-Dichloroethene	mg/l	0.1	770	0.1	1,100	0.1	<0.001 U	<0.001 U	<0.001 U	0.000243 J	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Ethylbenzene	mg/l	0.7	30,000	0.7	42,000	0.7	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Isopropylbenzene	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Dichloro-difluoromethane	mg/l	4.9	NE	15	84	15	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U

Notes:
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TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			MW-07							
	Units	TRRP Tier 1 $^{Gw}GW_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}GW_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	08/01/2019	11/05/2019	2/10/2020	7/28/2020	10/20/2020	1/21/2021	5/4/2021	9/16/2021
P-Isopropyltoluene	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Methylene Chloride	mg/l	0.005	21000	0.005	36000	0.005	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.01 U	<0.01 U
Methyl tert-butyl ether	mg/l	NE	NE	NE	NE	NE	<0.001 U	0.000434 J	<0.001 U	0.000429 J	<0.001 U	0.000165 J	<0.001 U	<0.001 U
2-Nitrophenol	mg/l	0.049	NE	0.15	NE	0.15	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.005 U	<0.005 U
Fluoranthene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Hexachlorocyclopentadiene	mg/l	0.05	5.4	0.05	7.6	0.05	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.005 U	<0.005 U
Phenanthrene	mg/l	0.73	NE	2.2	NE	2.2	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Pyrene	mg/l	0.73	NE	2.2	NE	2.2	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
n-Propylbenzene	mg/l	0.98	6000	2.9	8500	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Tetrachloroethene (PCE)	mg/l	0.005	500	0.005	840	0.005	0.00288	0.0111	0.0148	0.00438	0.00349	0.00393	0.00169	0.00187
Toluene	mg/l	1	64000	1	89000	1	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1,2-Trichloroethane	mg/l	0.005	80	0.005	130	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Trichloroethene (TCE)	mg/l	0.005	24	0.005	33	0.005	0.0013	0.00538 J	0.00703	0.00221	0.0017	0.00182	<0.001 U	<0.001 U
1,2,4-Trimethylbenzene	mg/l	0.83	4900	2.5	6800	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
1,2,3-Trimethylbenzene	mg/l	0.83	5600	2.5	7900	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
1,3,5-Trimethylbenzene	mg/l	0.83	3800	2.5	5300	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 UJ	<0.001 U	<0.001 U	<0.002 U	<0.002 U
Vinyl Chloride	mg/l	0.002	3.8	0.002	6.4	0.002	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Xylenes, Total	mg/l	10	10000	10	14000	10	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.002 U	<0.002 U
TPH C6-C12	mg/l	0.98	1800	2.9	2500	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.82 U	<4.69 U
TPH C12-C28	mg/l	0.98	7500	2.9	10000	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	1.62 J	<4.69 U
TPH C28-C35	mg/l	0.98	7500	2.9	10000	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	1.20 J	<4.69 U
Total TPH	mg/l	NE	NE	NE	NE	NE	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	2.82 J	<4.69 U
Naphthalene	mg/l	0.49	320	1.5	440	1.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001	<0.001 U	<0.005 U	<0.005 U
Bis (2-Ethylhexyl) Phthalate	mg/l	0.006	NE	0.006	NE	0.006	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.005 U	<0.005 U
Diethyl Phthalate	mg/l	20	NE	58	NE	58	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.005 U	<0.005 U
2,4-Dimethylphenol	mg/l	0.49	NE	1.5	NE	1.5	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.005 U	<0.005 U
Benzo(A)Anthracene	mg/l	0.0091	3000	0.02	5000	0.02	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Benzo(A)Pyrene	mg/l	0.0002	29	0.0002	41	0.0002	<0.001 U	<0.001 U	<0.002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.005 U	<0.005 U
Phenol	mg/l	7.3	160000	22	220000	22	0.00159 J	0.00177 J	0.00271 J	<0.01 U	0.00676 J	<0.01 U	<0.01 U	<0.01 U

Notes:
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U= Below reporting limit
J= Estimated value (analyte detected below reporting limit)
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TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			MW-08							
	Units	TRRP Tier 1 $^{Gw}Gw_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}Gw_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	10/10/2019	11/05/2019	2/10/2020	7/27/2020	10/21/2020	1/20/2021	5/5/2021	9/16/2021
Arsenic	mg/l	0.01	NE	0.01	NE	0.01	<0.01 U	<0.01 U	<0.01 U	0.017	0.0117	<0.01 U	<0.01 U	0.016
Barium	mg/l	2	NE	2	NE	2	0.744	0.77	0.83	7.69	0.366	0.547	0.286	0.896
Cadmium	mg/l	0.005	NE	0.005	NE	0.005	<0.002 U	<0.002 U	<0.002 U	<0.002 U	<0.002 U	<0.002 U	<0.005 U	<0.005 U
Chromium	mg/l	0.1	NE	0.1	NE	0.1	0.0332	0.00195 J	0.00163 J	0.146	0.00355 J	0.00687 J	<0.01 U	0.0259 B
Lead	mg/l	0.015	NE	0.015	NE	0.015	<0.005 U	0.0036 J	<0.005 U	0.116	<0.006 U	<0.006 U	<0.01 U	0.0162
Selenium	mg/l	0.05	NE	0.05	NE	0.05	<0.01 U	<0.01 U	<0.01 U	0.0199	0.0122	<0.01 U	<0.03 U	<0.03 U
Silver	mg/l	0.12	NE	0.37	NE	0.37	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.02 U	<0.02 U
Mercury	mg/l	0.002	7.3	0.002	10	0.002	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U
Acetone	mg/l	22	1,000,000	66	1,000,000	66	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.01 U	<0.01 U
Benzene	mg/l	0.005	180	0.005	300	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Bromodichloromethane	mg/l	0.08	NE	0.08	NE	0.08	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
n-Butylbenzene	mg/l	1.2	NE	3.7	NE	3.7	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
sec-Butylbenene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
tert-Butylbenzene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 UJ	<0.001 U	<0.001 U	<0.002 U	<0.002 U
Chloroethane	mg/l	9.8	120,000	29	160000	29	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Chloroform	mg/l	0.08	20	0.08	33	0.08	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.001 U	<0.001 U
2-Chlorotoluene	mg/l	0.49	24,000	1.5	33000	1.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1-Dichloroethane	mg/l	4.9	43,000	15	60,000	15	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,2-Dichloroethane	mg/l	0.005	250	0.005	420	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1-Dichloroethene	mg/l	0.007	1,700	0.007	2,300	0.007	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
cis-1,2-Dichloroethene	mg/l	0.07	1,200	0.07	1,700	0.07	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
trans-1,2-Dichloroethene	mg/l	0.1	770	0.1	1,100	0.1	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Ethylbenzene	mg/l	0.7	30,000	0.7	42,000	0.7	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Isopropylbenzene	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Dichloro-difluoromethane	mg/l	4.9	NE	15	84	15	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U

Notes:
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NA= Not Analyzed
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U= Below reporting limit
J= Estimated value (analyte detected below reporting limit)
B= Compound detected in blank as well as sample
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		Residential Action Level (Assessment Level)		Remedy Evaluation			MW-08							
	Units	TRRP Tier 1 $^{Gw}GW_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}GW_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	10/10/2019	11/05/2019	2/10/2020	7/27/2020	10/21/2020	1/20/2021	5/5/2021	9/16/2021
P-Isopropyltoluene	mg/l	NE	NE	NE	NE	NE	0.00106	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Methylene Chloride	mg/l	0.005	21000	0.005	36000	0.005	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.01 U	<0.01 U
Methyl tert-butyl ether	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
2-Nitrophenol	mg/l	0.049	NE	0.15	NE	0.15	<0.0105 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	R	<0.005 U
Fluoranthene	mg/l	0.98	NE	2.9	NE	2.9	<0.00105 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Hexachlorocyclopentadiene	mg/l	0.05	5.4	0.05	7.6	0.05	<0.0105 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.005 U	<0.005 U
Phenanthrene	mg/l	0.73	NE	2.2	NE	2.2	<0.00105 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Pyrene	mg/l	0.73	NE	2.2	NE	2.2	<0.00105 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
n-Propylbenzene	mg/l	0.98	6000	2.9	8500	2.9	<0.001 U	<0.001 U	<0.001 U	<0.001 UJ	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Tetrachloroethene (PCE)	mg/l	0.005	500	0.005	840	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Toluene	mg/l	1	64000	1	89000	1	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1,2-Trichloroethane	mg/l	0.005	80	0.005	130	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Trichloroethene (TCE)	mg/l	0.005	24	0.005	33	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,2,4-Trimethylbenzene	mg/l	0.83	4900	2.5	6800	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
1,2,3-Trimethylbenzene	mg/l	0.83	5600	2.5	7900	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
1,3,5-Trimethylbenzene	mg/l	0.83	3800	2.5	5300	2.5	<0.001 U	<0.001 U	<0.001 U	<0.001 UJ	<0.001 U	<0.001 U	<0.002 U	<0.002 U
Vinyl Chloride	mg/l	0.002	3.8	0.002	6.4	0.002	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Xylenes, Total	mg/l	10	10000	10	14000	10	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.002 U	<0.002 U
TPH C6-C12	mg/l	0.98	1800	2.9	2500	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.66 U	<4.66 U
TPH C12-C28	mg/l	0.98	7500	2.9	10000	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.66 U	<4.66 U
TPH C28-C35	mg/l	0.98	7500	2.9	10000	2.9	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.66 U	<4.66 U
Total TPH	mg/l	NE	NE	NE	NE	NE	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<0.9 U	<4.66 U	<4.66 U
Naphthalene	mg/l	0.49	320	1.5	440	1.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Bis (2-Ethylhexyl) Phthalate	mg/l	0.006	NE	0.006	NE	0.006	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.005 U	<0.005 U
Diethyl Phthalate	mg/l	20	NE	58	NE	58	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.003 U	<0.005 U	<0.005 U
2,4-Dimethylphenol	mg/l	0.49	NE	1.5	NE	1.5	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	R	<0.005 U
Benzo(A)Anthracene	mg/l	0.0091	3000	0.02	5000	0.02	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Benzo(A)Pyrene	mg/l	0.0002	29	0.0002	41	0.0002	<0.001 U	<0.001 U	<0.002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.005 U	<0.005 U
Phenol	mg/l	7.3	160000	22	220000	22	0.00367 J	0.00345 J	0.00298 J	<0.01 U	<0.01 U	<0.01 U	R	<0.01 U

Notes:
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TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			MW-09					MW-10				
	Units	TRRP Tier 1 $^{GW}GW_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{GW}GW_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	7/28/2020	10/20/2020	1/21/2021	5/4/2021	9/16/2021	7/27/2020	10/20/2020	1/20/2021	5/4/2021	9/16/2021
Arsenic	mg/l	0.01	NE	0.01	NE	0.01	0.01 J	0.00587 J	0.0127	<0.01 U	0.00891 J	0.0176	<0.01 U	<0.01 U	<0.01 U	<0.01 U
Barium	mg/l	2	NE	2	NE	2	1.13	0.912	1.08	0.763	0.654	1.97	2.96	0.789	0.723	0.724
Cadmium	mg/l	0.005	NE	0.005	NE	0.005	<0.002 U	<0.002 U	<0.002 U	<0.005 U	<0.005 U	<0.002 U	0.00164 J	<0.002 U	<0.005 U	<0.005 U
Chromium	mg/l	0.1	NE	0.1	NE	0.1	0.0491	0.00273 J	0.0125	<0.01 U	<0.01 U	0.0807	0.00978 J	0.0068 J	<0.01 U	<0.01 U
Lead	mg/l	0.015	NE	0.015	NE	0.015	0.0314	<0.006 U	<0.006 U	<0.01 U	<0.01 U	0.0593	0.014	0.00413 J	<0.01 U	<0.01 U
Selenium	mg/l	0.05	NE	0.05	NE	0.05	0.0153	0.0135	0.0142	<0.03 U	<0.03 U	0.0139	0.0245	<0.01 U	<0.03 U	<0.03 U
Silver	mg/l	0.12	NE	0.37	NE	0.37	<0.005 U	<0.005 U	0.00313 J	<0.02 U	<0.02 U	<0.005 U	<0.005 U	<0.005 U	<0.02 U	<0.02 U
Mercury	mg/l	0.002	7.3	0.002	10	0.002	<0.0002 U	<0.0002 U	<0.0002 UJ	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U
Acetone	mg/l	22	1,000,000	66	1,000,000	66	<0.25 U	<0.25 U	<0.25 U	<0.01 U	<0.01 U	<0.05 U	0.0194 J	<0.05 U	<0.01 U	<0.01 U
Benzene	mg/l	0.005	180	0.005	300	0.005	0.0034 J	0.00385 J	0.00433 J	0.00259	0.00278	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Bromodichloromethane	mg/l	0.08	NE	0.08	NE	0.08	<0.005 U	<0.005 U	<0.005 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
n-Butylbenzene	mg/l	1.2	NE	3.7	NE	3.7	0.00528	0.00682	0.00384 J	0.00547	0.00371	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
sec-Butylbenene	mg/l	0.98	NE	2.9	NE	2.9	0.00348 J	0.00423 J	0.00322 J	0.00276	0.00305	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
tert-Butylbenzene	mg/l	0.98	NE	2.9	NE	2.9	<0.005 U	<0.005 U	<0.005 U	<0.002 U	<0.002 U	<0.001 UJ	<0.001 U	<0.001 U	<0.002 U	<0.002 U
Chloroethane	mg/l	9.8	120,000	29	160000	29	0.00462 J	<0.025 U	0.0241 J	0.00769	0.0229	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Chloroform	mg/l	0.08	20	0.08	33	0.08	<0.025 U	<0.025 U	<0.025 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U	<0.005 U	<0.001 U	<0.001 U
2-Chlorotoluene	mg/l	0.49	24,000	1.5	33000	1.5	0.00125 J	<0.005 U	<0.005 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1-Dichloroethane	mg/l	4.9	43,000	15	60,000	15	0.0775	0.0639	0.0518	0.104	0.107	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,2-Dichloroethane	mg/l	0.005	250	0.005	420	0.005	0.00247 J	<0.005 U	<0.005 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1-Dichloroethene	mg/l	0.007	1,700	0.007	2,300	0.007	0.00868	0.00256 J	0.00289 J	0.00637	0.0049	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
cis-1,2-Dichloroethene	mg/l	0.07	1,200	0.07	1,700	0.07	<0.005 U	<0.005 U	<0.005 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
trans-1,2-Dichloroethene	mg/l	0.1	770	0.1	1,100	0.1	<0.005 U	<0.005 U	<0.005 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Ethylbenzene	mg/l	0.7	30,000	0.7	42,000	0.7	0.00185 J	<0.005 U	0.000813 J	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Isopropylbenzene	mg/l	NE	NE	NE	NE	NE	0.00106 J	0.00337 J	0.00111 J	0.000924 J	0.000852 J	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Dichloro-difluoromethane	mg/l	4.9	NE	15	84	15	<0.025 U	<0.025 U	<0.025 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	0.00723	0.012

Notes:

Indicates critical PCL exceedance (without MSD)

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U= Below reporting limit

J= Estimated value (analyte detected below reporting limit)

B= Compound detected in blank as well as sample

R= Rejected value

TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			MW-09					MW-10				
	Units	TRRP Tier 1 $^{Gw}Gw_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}Gw_{ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	7/28/2020	10/20/2020	1/21/2021	5/4/2021	9/16/2021	7/27/2020	10/20/2020	1/20/2021	5/4/2021	9/16/2021
P-Isopropyltoluene	mg/l	NE	NE	NE	NE	NE	0.00701	0.0099	0.00546	<0.001 U	0.000951 J	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Methylene Chloride	mg/l	0.005	21000	0.005	36000	0.005	0.00526 J	0.00239 J	0.00317 J	0.00200 J	0.00292 J	<0.005 U	<0.005 U	<0.005 U	<0.01 U	<0.01 U
Methyl tert-butyl ether	mg/l	NE	NE	NE	NE	NE	0.00347 J	0.00418 J	0.00387 J	0.00192	0.00242	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
2-Nitrophenol	mg/l	0.049	NE	0.15	NE	0.15	<0.01 U	<0.01 U	<0.01 U	<0.005 U	<0.005 U	<0.01 U	0.000256 J	<0.01 U	<0.00532 U	<0.005 U
Fluoranthene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U	<0.001 U	<0.001 U	0.000195 J	<0.00532 U	<0.005 U
Hexachlorocyclopentadiene	mg/l	0.05	5.4	0.05	7.6	0.05	<0.01 U	<0.01 U	<0.01 U	<0.005 U	<0.005 U	<0.01 U	<0.01 U	7.3e-05 J	<0.00532 U	<0.005 U
Phenanthrene	mg/l	0.73	NE	2.2	NE	2.2	<0.001 U	<0.001 U	0.000314 J	<0.005 U	<0.005 U	<0.001 U	<0.001 U	0.000253 J	<0.00532 U	<0.005 U
Pyrene	mg/l	0.73	NE	2.2	NE	2.2	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U	<0.001 U	<0.001 U	0.000192 J	<0.00532 U	<0.005 U
n-Propylbenzene	mg/l	0.98	6000	2.9	8500	2.9	0.00274 J	0.00249 J	0.00229 J	<0.001 U	0.001	<0.001 UJ	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Tetrachloroethene (PCE)	mg/l	0.005	500	0.005	840	0.005	<0.005 U	<0.005 U	<0.005 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Toluene	mg/l	1	64000	1	89000	1	0.00621	<0.005 U	0.00241 J	<0.001 U	0.00105	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1,2-Trichloroethane	mg/l	0.005	80	0.005	130	0.005	<0.005 U	<0.005 U	<0.005 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Trichloroethene (TCE)	mg/l	0.005	24	0.005	33	0.005	<0.005 U	<0.005 U	<0.005 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,2,4-Trimethylbenzene	mg/l	0.83	4900	2.5	6800	2.5	0.0374	0.0467	0.0351	0.00505	0.011	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
1,2,3-Trimethylbenzene	mg/l	0.83	5600	2.5	7900	2.5	0.0399	0.0577	0.0491 J	0.0378	0.0326	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
1,3,5-Trimethylbenzene	mg/l	0.83	3800	2.5	5300	2.5	0.0112	0.0143	0.0116	0.00280	0.00348	<0.001 UJ	<0.001 U	<0.001 U	<0.002 U	<0.002 U
Vinyl Chloride	mg/l	0.002	3.8	0.002	6.4	0.002	0.00487 J	<0.005 U	0.00554	0.00521	0.00617	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Xylenes, Total	mg/l	10	10000	10	14000	10	0.0114 J	0.0105 J	0.00846 J	0.00178 J	0.00162 J	<0.003 U	<0.003 U	<0.003 U	<0.002 U	<0.002 U
TPH C6-C12	mg/l	0.98	1800	2.9	2500	2.9	13.2	5.98	12 J	3.72 J	3.23 J	<0.9 U	<0.9 U	<0.9 U	<4.81 U	<4.64 U
TPH C12-C28	mg/l	0.98	7500	2.9	10000	2.9	1.47	1.56	2.63 J	1.20 J	1.25 J	<0.9 U	<0.9 U	<0.9 U	0.908 J	<4.64 U
TPH C28-C35	mg/l	0.98	7500	2.9	10000	2.9	1.54	1.26	1.98 J	<4.66 U	<4.69 U	<0.9 U	<0.9 U	<0.9 U	<4.81 U	<4.64 U
Total TPH	mg/l	NE	NE	NE	NE	NE	16.2	8.8	16.6 J	4.92	4.48 J	<0.9 U	<0.9 U	<0.9 U	0.908 J	<4.64 U
Naphthalene	mg/l	0.49	320	1.5	440	1.5	0.00156	0.00283	0.00381	0.00323 J	0.00245 J	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Bis (2-Ethylhexyl) Phthalate	mg/l	0.006	NE	0.006	NE	0.006	<0.003 U	<0.003 U	0.00448	<0.005 U	0.00216 J	<0.003 U	<0.003 U	<0.003 U	<0.00532 U	<0.005 U
Diethyl Phthalate	mg/l	20	NE	58	NE	58	0.000652 J	0.000755 J	0.000775 J	<0.005 U	<0.005 U	<0.003 U	<0.003 U	<0.003 U	<0.00532 U	<0.005 U
2,4-Dimethylphenol	mg/l	0.49	NE	1.5	NE	1.5	<0.01 U	<0.01 U	<0.01 U	<0.005 U	<0.005 U	<0.01 U	<0.01 U	<0.01 U	<0.00532 U	<0.005 U
Benzo(A)Anthracene	mg/l	0.0091	3000	0.02	5000	0.02	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U	<0.001 U	<0.001 U	<0.001 U	<0.00532 U	<0.005 U
Benzo(A)Pyrene	mg/l	0.0002	29	0.0002	41	0.0002	<0.0002 U	<0.0002 U	<0.0002 U	<0.005 U	<0.005 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.00532 U	<0.005 U
Phenol	mg/l	7.3	160000	22	220000	22	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.0106 U	<0.01 U

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TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			MW-11				
	Units	TRRP Tier 1 $^{Gw}Gw_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}Gw_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	7/28/2020	10/20/2020	1/21/2021	5/4/2021	9/16/2021
Arsenic	mg/l	0.01	NE	0.01	NE	0.01	0.00626 J	<0.01 U	<0.01 U	<0.01 U	<0.01 U
Barium	mg/l	2	NE	2	NE	2	1.07	0.853	0.71	0.552	0.583
Cadmium	mg/l	0.005	NE	0.005	NE	0.005	<0.002 U	<0.002 U	0.00049 J	<0.005 U	<0.005 U
Chromium	mg/l	0.1	NE	0.1	NE	0.1	0.0288	0.00763 J	0.0072 J	<0.01 U	0.00912 J B
Lead	mg/l	0.015	NE	0.015	NE	0.015	0.0217	0.00422 J	<0.006 U	<0.01 U	0.00413 J
Selenium	mg/l	0.05	NE	0.05	NE	0.05	0.0136	0.0124	0.0189	<0.03 U	<0.03 U
Silver	mg/l	0.12	NE	0.37	NE	0.37	<0.005 U	<0.005 U	0.00801	<0.02 U	<0.02 U
Mercury	mg/l	0.002	7.3	0.002	10	0.002	<0.0002 U	<0.0002 U	<0.0002 UJ	<0.0002 U	<0.0002 U
Acetone	mg/l	22	1,000,000	66	1,000,000	66	<0.05 U	<0.05 U	<0.05 U	<0.01 U	<0.01 U
Benzene	mg/l	0.005	180	0.005	300	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Bromodichloromethane	mg/l	0.08	NE	0.08	NE	0.08	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
n-Butylbenzene	mg/l	1.2	NE	3.7	NE	3.7	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
sec-Butylbenene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
tert-Butylbenzene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 UJ	<0.001 U	<0.001 U	<0.002 U	<0.002 U
Chloroethane	mg/l	9.8	120,000	29	160000	29	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Chloroform	mg/l	0.08	20	0.08	33	0.08	<0.005 U	<0.005 U	<0.005 U	<0.001 U	<0.001 U
2-Chlorotoluene	mg/l	0.49	24,000	1.5	33000	1.5	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1-Dichloroethane	mg/l	4.9	43,000	15	60,000	15	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,2-Dichloroethane	mg/l	0.005	250	0.005	420	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1-Dichloroethene	mg/l	0.007	1,700	0.007	2,300	0.007	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
cis-1,2-Dichloroethene	mg/l	0.07	1,200	0.07	1,700	0.07	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
trans-1,2-Dichloroethene	mg/l	0.1	770	0.1	1,100	0.1	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Ethylbenzene	mg/l	0.7	30,000	0.7	42,000	0.7	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Isopropylbenzene	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Dichloro-difluoromethane	mg/l	4.9	NE	15	84	15	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U

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TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			MW-11				
	Units	TRRP Tier 1 $^{Gw}GW_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}GW_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	7/28/2020	10/20/2020	1/21/2021	5/4/2021	9/16/2021
P-Isopropyltoluene	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Methylene Chloride	mg/l	0.005	21000	0.005	36000	0.005	<0.005 U	<0.005 U	<0.005 U	<0.01 U	<0.01 U
Methyl tert-butyl ether	mg/l	NE	NE	NE	NE	NE	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
2-Nitrophenol	mg/l	0.049	NE	0.15	NE	0.15	<0.01 U	0.00039 J	<0.01 U	<0.005 UJ	<0.005 U
Fluoranthene	mg/l	0.98	NE	2.9	NE	2.9	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Hexachlorocyclopentadiene	mg/l	0.05	5.4	0.05	7.6	0.05	<0.01 U	<0.01 U	<0.01 U	<0.005 U	<0.005 U
Phenanthrene	mg/l	0.73	NE	2.2	NE	2.2	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Pyrene	mg/l	0.73	NE	2.2	NE	2.2	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
n-Propylbenzene	mg/l	0.98	6000	2.9	8500	2.9	<0.001 UJ	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Tetrachloroethene (PCE)	mg/l	0.005	500	0.005	840	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Toluene	mg/l	1	64000	1	89000	1	0.000309 J	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,1,2-Trichloroethane	mg/l	0.005	80	0.005	130	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Trichloroethene (TCE)	mg/l	0.005	24	0.005	33	0.005	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
1,2,4-Trimethylbenzene	mg/l	0.83	4900	2.5	6800	2.5	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
1,2,3-Trimethylbenzene	mg/l	0.83	5600	2.5	7900	2.5	<0.001 U	<0.001 U	<0.001 U	<0.002 U	<0.002 U
1,3,5-Trimethylbenzene	mg/l	0.83	3800	2.5	5300	2.5	<0.001 UJ	<0.001 U	<0.001 U	<0.002 U	<0.002 U
Vinyl Chloride	mg/l	0.002	3.8	0.002	6.4	0.002	<0.001 U	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Xylenes, Total	mg/l	10	10000	10	14000	10	<0.003 U	<0.003 U	<0.003 U	<0.002 U	<0.002 U
TPH C6-C12	mg/l	0.98	1800	2.9	2500	2.9	<0.9 U	<0.9 U	<0.9 U	<4.85 U	<4.69 U
TPH C12-C28	mg/l	0.98	7500	2.9	10000	2.9	<0.9 U	<0.9 U	<0.9 U	<4.85 U	<4.69 U
TPH C28-C35	mg/l	0.98	7500	2.9	10000	2.9	<0.9 U	<0.9 U	<0.9 U	<4.85 U	<4.69 U
Total TPH	mg/l	NE	NE	NE	NE	NE	<0.9 U	<0.9 U	<0.9 U	<4.85 U	<4.69 U
Naphthalene	mg/l	0.49	320	1.5	440	1.5	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Bis (2-Ethylhexyl) Phthalate	mg/l	0.006	NE	0.006	NE	0.006	<0.003 U	<0.003 U	<0.003 U	<0.005 U	<0.005 U
Diethyl Phthalate	mg/l	20	NE	58	NE	58	<0.003 U	<0.003 U	<0.003 U	<0.005 U	<0.005 U
2,4-Dimethylphenol	mg/l	0.49	NE	1.5	NE	1.5	<0.01 U	<0.01 U	<0.01 U	<0.005 UJ	<0.005 U
Benzo(A)Anthracene	mg/l	0.0091	3000	0.02	5000	0.02	<0.001 U	<0.001 U	<0.001 U	<0.005 U	<0.005 U
Benzo(A)Pyrene	mg/l	0.0002	29	0.0002	41	0.0002	<0.0002 U	<0.0002 U	<0.0002 U	<0.005 U	<0.005 U
Phenol	mg/l	7.3	160000	22	220000	22	<0.01 U	0.00651 J	<0.01 U	<0.01 UJ	<0.01 U

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TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			TMW-01	TMW-02	TMW-03	TMW-04	TMW-05
	Units	TRRP Tier 1 $^{Gw}Gw_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}Gw_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	1/2/2019	1/3/2019	1/2/2019	1/2/2019	1/3/2019
Arsenic	mg/l	0.01	NE	0.01	NE	0.01	NA	NA	NA	NA	NA
Barium	mg/l	2	NE	2	NE	2	NA	NA	NA	NA	NA
Cadmium	mg/l	0.005	NE	0.005	NE	0.005	NA	NA	NA	NA	NA
Chromium	mg/l	0.1	NE	0.1	NE	0.1	NA	NA	NA	NA	NA
Lead	mg/l	0.015	NE	0.015	NE	0.015	NA	NA	NA	NA	NA
Selenium	mg/l	0.05	NE	0.05	NE	0.05	NA	NA	NA	NA	NA
Silver	mg/l	0.12	NE	0.37	NE	0.37	NA	NA	NA	NA	NA
Mercury	mg/l	0.002	7.3	0.002	10	0.002					
Acetone	mg/l	22	1,000,000	66	1,000,000	66	NA	NA	NA	NA	NA
Benzene	mg/l	0.005	180	0.005	300	0.005	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
Bromodichloromethane	mg/l	0.08	NE	0.08	NE	0.08	<0.000164	<0.000164	<0.000164	<0.000164	<0.000164
n-Butylbenzene	mg/l	1.2	NE	3.7	NE	3.7	<0.002	<0.002	<0.002	<0.002	<0.002
sec-Butylbenene	mg/l	0.98	NE	2.9	NE	2.9	<0.000124	<0.000124	<0.000124	<0.000124	<0.000124
tert-Butylbenzene	mg/l	0.98	NE	2.9	NE	2.9	<0.000177	<0.000177	<0.000177	<0.000177	<0.000177
Chloroethane	mg/l	9.8	120,000	29	160000	29	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190
Chloroform	mg/l	0.08	20	0.08	33	0.08	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107
2-Chlorotoluene	mg/l	0.49	24,000	1.5	33000	1.5	<0.000293	<0.000293	<0.000293	<0.000293	<0.000293
1,1-Dichloroethane	mg/l	4.9	43,000	15	60,000	15	<.005	0.00037	<0.000182	<0.000182	<0.000182
1,2-Dichloroethane	mg/l	0.005	250	0.005	420	0.005	<0.000283	<0.000283	<0.000283	<0.000283	<0.000283
1,1-Dichloroethene	mg/l	0.007	1,700	0.007	2,300	0.007	0.00046	0.0157	<0.000178	<0.000178	<0.000178
cis-1,2-Dichloroethene	mg/l	0.07	1,200	0.07	1,700	0.07	<0.000162	0.00027	<0.000162	<0.000162	<0.000162
trans-1,2-Dichloroethene	mg/l	0.1	770	0.1	1,100	0.1	<0.000167 H	<0.000167	<0.000167	<0.000167	<0.000167
Ethylbenzene	mg/l	0.7	30,000	0.7	42,000	0.7	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190
Isopropylbenzene	mg/l	NE	NE	NE	NE	NE	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190
Dichloro-difluoromethane	mg/l	4.9	NE	15	84	15	<.005	0.00032	<0.000148	<0.000148	<0.000148

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		Residential Action Level (Assessment Level)		Remedy Evaluation			TMW-01	TMW-02	TMW-03	TMW-04	TMW-05
	Units	TRRP Tier 1 $^{Gw}GW_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}GW_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	1/2/2019	1/3/2019	1/2/2019	1/2/2019	1/3/2019
P-Isopropyltoluene	mg/l	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA
Methylene Chloride	mg/l	0.005	21000	0.005	36000	0.005	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl tert-butyl ether	mg/l	NE	NE	NE	NE	NE	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2-Nitrophenol	mg/l	0.049	NE	0.15	NE	0.15	NA	NA	NA	NA	NA
Fluoranthene	mg/l	0.98	NE	2.9	NE	2.9	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/l	0.05	5.4	0.05	7.6	0.05	NA	NA	NA	NA	NA
Phenanthrene	mg/l	0.73	NE	2.2	NE	2.2	NA	NA	NA	NA	NA
Pyrene	mg/l	0.73	NE	2.2	NE	2.2	NA	NA	NA	NA	NA
n-Propylbenzene	mg/l	0.98	6000	2.9	8500	2.9	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173
Tetrachloroethene (PCE)	mg/l	0.005	500	0.005	840	0.005	0.00035	0.00376	<0.000347	<0.000347	<0.000347
Toluene	mg/l	1	64000	1	89000	1	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,1,2-Trichloroethane	mg/l	0.005	80	0.005	130	0.005	<0.000272	<0.000272	<0.000272	<0.000272	<0.000272
Trichloroethene (TCE)	mg/l	0.005	24	0.005	33	0.005	<0.000218	0.000340	<0.000218	<0.000218	<0.000218
1,2,4-Trimethylbenzene	mg/l	0.83	4900	2.5	6800	2.5	<0.000113	<0.000113	<0.000113	<0.000113	<0.000113
1,2,3-Trimethylbenzene	mg/l	0.83	5600	2.5	7900	2.5	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/l	0.83	3800	2.5	5300	2.5	<0.000178	<0.000178	<0.000178	<0.000178	<0.000178
Vinyl Chloride	mg/l	0.002	3.8	0.002	6.4	0.002	<0.000232	<0.000232	<0.000232	<0.000232	<0.000232
Xylenes, Total	mg/l	10	10000	10	14000	10	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TPH C6-C12	mg/l	0.98	1800	2.9	2500	2.9	<0.147	<0.148	<0.146	<0.161	<0.154
TPH C12-C28	mg/l	0.98	7500	2.9	10000	2.9	<0.151	<0.152	<0.151	<0.161	<0.154
TPH C28-C35	mg/l	0.98	7500	2.9	10000	2.9	<0.0930	<0.0938	<0.0927	<0.102	<0.0973
Total TPH	mg/l	NE	NE	NE	NE	NE	<0.0930	<0.0938	<0.0927	<0.102	<0.0973
Naphthalene	mg/l	0.49	320	1.5	440	1.5	<0.002	<0.002	<0.002	<0.002	<0.002
Bis (2-Ethylhexyl) Phthalate	mg/l	0.006	NE	0.006	NE	0.006	NA	NA	NA	NA	NA
Diethyl Phthalate	mg/l	20	NE	58	NE	58	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/l	0.49	NE	1.5	NE	1.5	NA	NA	NA	NA	NA
Benzo(A)Anthracene	mg/l	0.0091	3000	0.02	5000	0.02	NA	NA	NA	NA	NA
Benzo(A)Pyrene	mg/l	0.0002	29	0.0002	41	0.0002	NA	NA	NA	NA	NA
Phenol	mg/l	7.3	160000	22	220000	22	NA	NA	NA	NA	NA

Notes:
Indicates critical PCL exceedance (without MSD)
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TABLE E.2
GROUNDWATER PCLS AND DATA SUMMARY
1505 SEAMIST DRIVE
HOUSTON, TEXAS 77008
MECX: 1567.002
VCP: #3005

		Residential Action Level (Assessment Level)		Remedy Evaluation			TMW-06	TMW-07	TMW-08	TMW-09	TMW-10
	Units	TRRP Tier 1 $^{Gw}GW_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}GW_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	1/3/2019	1/3/2019	1/3/2019	1/3/2019	1/3/2019
Arsenic	mg/l	0.01	NE	0.01	NE	0.01	NA	NA	NA	NA	NA
Barium	mg/l	2	NE	2	NE	2	NA	NA	NA	NA	NA
Cadmium	mg/l	0.005	NE	0.005	NE	0.005	NA	NA	NA	NA	NA
Chromium	mg/l	0.1	NE	0.1	NE	0.1	NA	NA	NA	NA	NA
Lead	mg/l	0.015	NE	0.015	NE	0.015	NA	NA	NA	NA	NA
Selenium	mg/l	0.05	NE	0.05	NE	0.05	NA	NA	NA	NA	NA
Silver	mg/l	0.12	NE	0.37	NE	0.37	NA	NA	NA	NA	NA
Mercury	mg/l	0.002	7.3	0.002	10	0.002					
Acetone	mg/l	22	1,000,000	66	1,000,000	66	NA	NA	NA	NA	NA
Benzene	mg/l	0.005	180	0.005	300	0.005	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
Bromodichloromethane	mg/l	0.08	NE	0.08	NE	0.08	<0.000164	<0.000164	<0.000164	<0.000164	<0.000164
n-Butylbenzene	mg/l	1.2	NE	3.7	NE	3.7	<0.002	<0.002	<0.002	<0.002	<0.002
sec-Butylbenene	mg/l	0.98	NE	2.9	NE	2.9	<0.000124	<0.000124	<0.000124	<0.000124	<0.000124
tert-Butylbenzene	mg/l	0.98	NE	2.9	NE	2.9	<0.000177	<0.000177	<0.000177	<0.000177	<0.000177
Chloroethane	mg/l	9.8	120,000	29	160000	29	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190
Chloroform	mg/l	0.08	20	0.08	33	0.08	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107
2-Chlorotoluene	mg/l	0.49	24,000	1.5	33000	1.5	<0.000293	<0.000293	<0.000293	<0.000293	<0.000293
1,1-Dichloroethane	mg/l	4.9	43,000	15	60,000	15	<0.000182	0.00800	0.00147	<0.000182	<0.000182
1,2-Dichloroethane	mg/l	0.005	250	0.005	420	0.005	<0.000283	<0.000283	<0.000283	<0.000283	<0.000283
1,1-Dichloroethene	mg/l	0.007	1,700	0.007	2,300	0.007	<0.000178	0.00834	0.000550	<0.000178	<0.000178
cis-1,2-Dichloroethene	mg/l	0.07	1,200	0.07	1,700	0.07	<0.000162	0.00117	0.0192	<0.000162	<0.000162
trans-1,2-Dichloroethene	mg/l	0.1	770	0.1	1,100	0.1	<0.000167	<0.000167	<0.000167	<0.000167	<0.000167
Ethylbenzene	mg/l	0.7	30,000	0.7	42,000	0.7	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190
Isopropylbenzene	mg/l	NE	NE	NE	NE	NE	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190
Dichloro-difluoromethane	mg/l	4.9	NE	15	84	15	<0.000148	<0.000148	0.00104	<0.000148	<0.000148

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		Residential Action Level (Assessment Level)		Remedy Evaluation			TMW-06	TMW-07	TMW-08	TMW-09	TMW-10
	Units	TRRP Tier 1 $^{Gw}GW_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$ (0.5-acre)	TRRP Tier 1 $^{Gw}GW_{Ing}$	TRRP Tier 1 $^{Air}GW_{Inh-V}$	Critical Tier 1 PCL	1/3/2019	1/3/2019	1/3/2019	1/3/2019	1/3/2019
P-Isopropyltoluene	mg/l	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA
Methylene Chloride	mg/l	0.005	21000	0.005	36000	0.005	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl tert-butyl ether	mg/l	NE	NE	NE	NE	NE	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2-Nitrophenol	mg/l	0.049	NE	0.15	NE	0.15	NA	NA	NA	NA	NA
Fluoranthene	mg/l	0.98	NE	2.9	NE	2.9	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/l	0.05	5.4	0.05	7.6	0.05	NA	NA	NA	NA	NA
Phenanthrene	mg/l	0.73	NE	2.2	NE	2.2	NA	NA	NA	NA	NA
Pyrene	mg/l	0.73	NE	2.2	NE	2.2	NA	NA	NA	NA	NA
n-Propylbenzene	mg/l	0.98	6000	2.9	8500	2.9	<0.000173	<0.000173	<0.000173	<0.000173	<0.000173
Tetrachloroethene (PCE)	mg/l	0.005	500	0.005	840	0.005	<0.000347	0.00214	<0.000347	<0.000347	<0.000347
Toluene	mg/l	1	64000	1	89000	1	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,1,2-Trichloroethane	mg/l	0.005	80	0.005	130	0.005	<0.000272	<0.000272	<0.000272	<0.000272	<0.000272
Trichloroethene (TCE)	mg/l	0.005	24	0.005	33	0.005	<0.000218	0.000540	<0.000218	<0.000218	<0.000218
1,2,4-Trimethylbenzene	mg/l	0.83	4900	2.5	6800	2.5	<0.000113	<0.000113	<0.000113	<0.000113	<0.000113
1,2,3-Trimethylbenzene	mg/l	0.83	5600	2.5	7900	2.5	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/l	0.83	3800	2.5	5300	2.5	<0.000178	<0.000178	<0.000178	<0.000178	<0.000178
Vinyl Chloride	mg/l	0.002	3.8	0.002	6.4	0.002	<0.000232	<0.000232	<0.000232	<0.000232	<0.000232
Xylenes, Total	mg/l	10	10000	10	14000	10	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TPH C6-C12	mg/l	0.98	1800	2.9	2500	2.9	<0.151	<0.147	<0.146	<0.150	<0.147
TPH C12-C28	mg/l	0.98	7500	2.9	10000	2.9	<0.156	<0.152	<0.150	<0.154	<0.151
TPH C28-C35	mg/l	0.98	7500	2.9	10000	2.9	<0.0957	<0.0933	<0.0926	<0.0950	<0.0932
Total TPH	mg/l	NE	NE	NE	NE	NE	<0.0957	<0.0933	<0.0926	<0.0950	<0.0932
Naphthalene	mg/l	0.49	320	1.5	440	1.5	<0.002	<0.002	<0.002	<0.002	<0.002
Bis (2-Ethylhexyl) Phthalate	mg/l	0.006	NE	0.006	NE	0.006	NA	NA	NA	NA	NA
Diethyl Phthalate	mg/l	20	NE	58	NE	58	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/l	0.49	NE	1.5	NE	1.5	NA	NA	NA	NA	NA
Benzo(A)Anthracene	mg/l	0.0091	3000	0.02	5000	0.02	NA	NA	NA	NA	NA
Benzo(A)Pyrene	mg/l	0.0002	29	0.0002	41	0.0002	NA	NA	NA	NA	NA
Phenol	mg/l	7.3	160000	22	220000	22	NA	NA	NA	NA	NA

Notes:
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Appendix F

Appendix F

If the plume extends beyond the limits of property owners listed in this application, list the owners of the additional property beneath which the plume(s) extend(s), and a summary of interactions with those property owners about the plume(s) and this MSD application. Please Note: You are not required under this item to notify affected property owners, only to provide a summary of who affected property owners are, and if there have been any communications. "No contact" can be an acceptable answer.

Based on the results of the most recent groundwater monitoring and sampling event conducted in September 2021, arsenic exceeding the Texas Risk Reduction Program (TRRP) Tier 1 Commercial GW_{Ing} protective concentration level (PCL) extends off-site to the south and east.

Property ID	Property owner name	Physical property address, city zip	Property owner mailing address, city, state, zip	Summary of Interactions
1	Texas Dept of Transportation	Right-of Way	7600 Washington Ave., Houston, TX 77007	No contact

However, the arsenic that extends beyond the property boundary is representative of regional background conditions and is not related to the former Goodman operations at the Site. Arsenic and lead are ubiquitous in this area at concentrations relative consistent with the TSBC's. Additionally, arsenic exceeding the Tier 1 Commercial GW_{Ing} PCL was identified and accepted as background in three other VCP sites (# 2719, 1931 and 2721) within a half-mile radius of the site. Elevated groundwater concentrations of arsenic may also be due to the presence of petroleum hydrocarbons in groundwater. A 2015 USGS technical memo[1] found that geochemical changes from the breakdown of petroleum hydrocarbon compounds in groundwater promotes the release of naturally occurring arsenic – previously bound in aquifer sediments – into the aqueous phase. Petroleum hydrocarbons have been measured in exceedance of the TRRP Tier I PCL at the Site and are considered a COC within this MSD application. The PCLE zone for the Site (Figure C3.2) also suggests that the source of arsenic is off-site to the south-southwest.

[1] Lee, Isabelle M. Cozzarelli, Kathy E. "Natural Breakdown of Petroleum Results in Arsenic Mobilization in Groundwater." Toxics.usgs.gov, 2015, https://toxics.usgs.gov/highlights/2015-01-26-arsenic_plumes.html. Accessed 24 July 2022.

Appendix G

Appendix G

*A statement as to whether the source of the plume has been removed, the plume of contamination is stable (i.e. no change) or contracting, and the plume is delineated, **with the basis for that statement**. Please include historical sampling data.*

Background

The first GWBU evaluated consists of a sandy water-bearing zone. MEC^X and others have collected several rounds of groundwater samples from January 2019 through September 2021 from 10 temporary groundwater monitoring wells and 11 standard groundwater monitoring wells (MW) screened within the first GWBU. Neither non-aqueous phase liquid (NAPL) nor evidence of potential NAPL have been observed at the Site.

The GWBU is first encountered beneath the Site at depths between 30 and 40 ft bgs and consists of a fine sand layer that varies from 1 foot thick to more than 5 feet thick.

Mann-Kendall Trend Analysis Description

MEC^X conducted a statistical trend analysis using the Mann-Kendall (M-K) method[1] to further evaluate the stability of COCs in groundwater at the Site over time. The primary COCs include:

- 1,1-dichloroethylene (DCE)
- Tetrachlorethylene (PCE)
- Bis (2-ethylhexyl) phthalate
- Arsenic, lead, barium, chromium[2]
- Trichloroethylene (TCE)
- Methylene chloride
- Vinyl chloride (VC)
- C_6-C_{12} Total Petroleum Hydrocarbons (TPH)

MEC^X adhered to the assumptions, calculations and procedure prescribed by the Pacific Northwest National Laboratory while conducting the M-K evaluation.

Mann-Kendall Trend Analysis Results

MEC^X conducted the M-K test for each of the eleven monitoring wells. For each monitoring well, MEC^X analyzed each COC that has exceeded the TRRP Tier I PCL at least once at that well throughout the historic sampling period. For non-detect data points and rather than using a value of zero (which would bias results), MEC^X used half of the laboratory detection limit for each COC for as a basis for calculations and trend analysis. Following TRRP guidance and general practice within regulatory statistics, MEC^X performed

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[1] Pulsipher B.A., J.E. Wilson, and R.O. Gilbert. 2006.
New Visual Sample Plan (VSP) Module Pertinent to Environmental Trend Monitoring.
In Proceedings of the 25th Annual Conference on Managing Environmental Quality Systems, April 24-27, Austin, Texas. Washington, District of Columbia: US Environmental Protection Agency.
PNNL-SA-49179.
See: https://vsp.pnnl.gov/help/vsample/design_trend_mann_kendall.htm

[2] The source(s) of these metals are representative of regional background conditions and/or emanate from off-site. There is no known historical source of these metals on-site.

these trend analyses at a 95% significance level. Results of the M-K test for each monitoring well are presented below.

MW-01

Arsenic, lead, 1,1-DCE and PCE exceeded the TRRP Tier 1 PCL during historic groundwater monitoring at location MW-01. Figure 1 below presents the concentrations of each COC at MW-01 throughout each historic sampling event. Table 1 below presents the results for the M-K trend analysis test.

Figure 1 – MW-01 COC GW Concentration Trends Throughout Sampling History

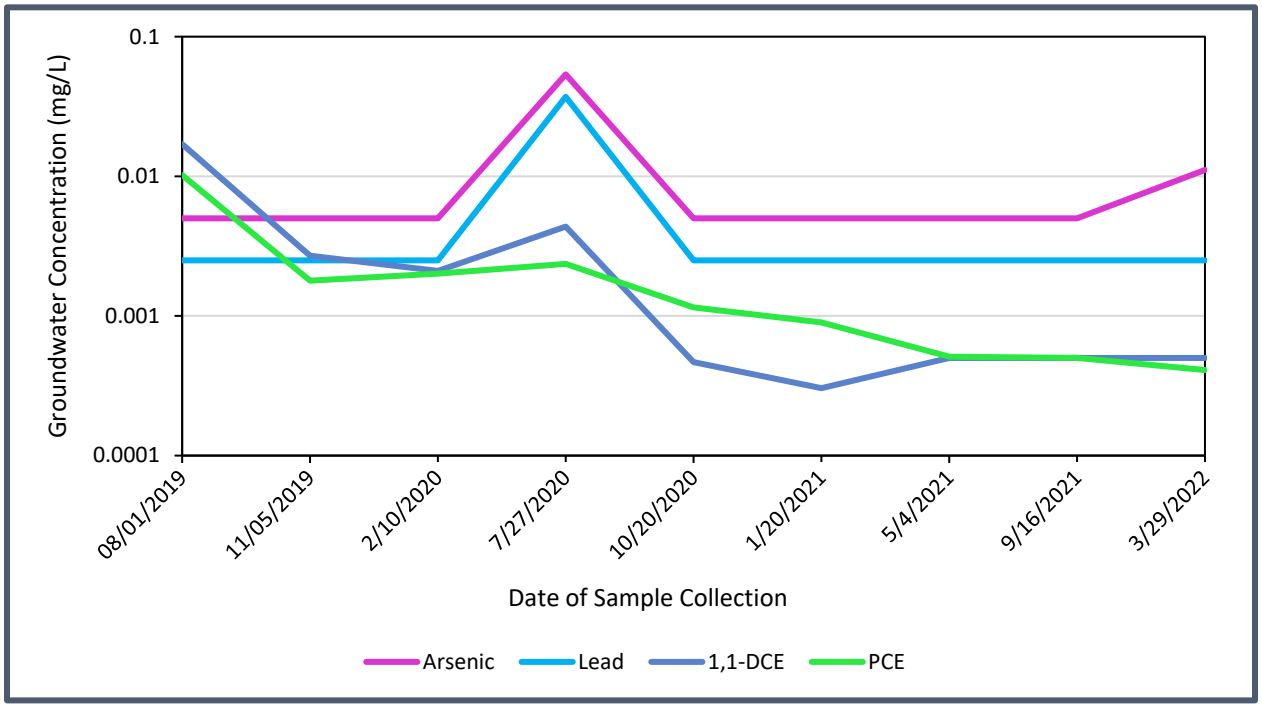

Table 1 – MW-01 Mann-Kendall Test Results

COC	Sample Count	S Value	S Variance	S Probability	Z value	Trend
Arsenic	9	5	47.67	0.3435	0.5794	No Trend
Lead	9	-2	83.67	0.46	-0.3280	No Trend
1,1-DCE	9	-17	88.33	0.049	-1.9152	Decreasing
PCE	9	-30	92	0.0004	-3.232	Decreasing

The results for 1,1-DCE and PCE for MW-01 indicate a decreasing trend in concentrations over time. The results for arsenic and lead for MW-01 indicate no upward or downward trend (i.e., it is stable) in concentrations over time, which confirms that these COCs are stable. Lead, 1,1-DCE and PCE were present at concentrations below TRRP Tier 1 PCLs during the most recent sampling event in March 2022.

MW-02

Chromium, 1,1-DCE, methylene chloride, PCE and bis(2-ethylhexyl) phthalate exceeded the TRRP Tier 1 PCL during historic groundwater monitoring at location MW-02. Figure 2 below presents the concentrations of each COC at MW-02 throughout historic sampling events. Table 2 below presents the results for the M-K trend analysis test.

Figure 2 – MW-02 COC GW Concentration Trends Throughout Sampling History

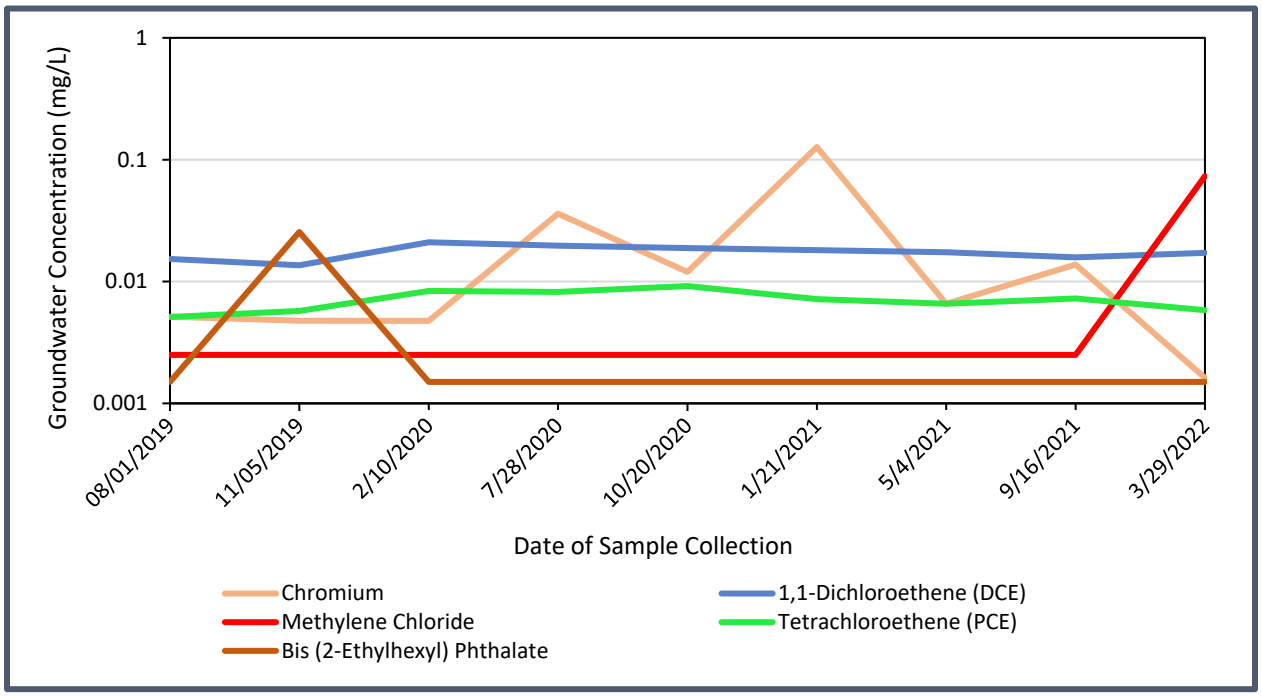

Table 2 – MW-02 Mann-Kendall Test Results

COC	Sample Count	S Value	S Variance	S Probability	Z value	Trend
Chromium	9	2	92	0.46	0.1043	No Trend
1,1-DCE	9	-6	92	0.306	-0.7298	No Trend
Methylene Chloride	9	8	26.67	0.238	1.356	No Trend
PCE	9	2	92	0.46	0.1043	No Trend
Bis(2-Ethylhexyl) Phthalate	9	-6	26.67	0.306	-1.356	No Trend

The results for chromium, 1,1-DCE, methylene chloride, PCE and bis(2-ethylhexyl) phthalate for MW-02 indicate no upward or downward trend (i.e., it is stable) in concentrations over time, which confirms that these COCs are stable. Chromium and bis(2-ethylhexyl) phthalate were present at concentrations below TRRP Tier 1 PCLs during the most recent sampling event in March 2022.

MW-03

Arsenic, barium, chromium and lead exceeded the TRRP Tier 1 PCL during historic groundwater monitoring at location MW-03. Figure 3 below presents the concentrations of each COC at MW-03 throughout each historic sampling event. Table 3 below presents the results for the M-K trend analysis test.

Figure 3 – MW-03 COC GW Concentration Trends Throughout Sampling History

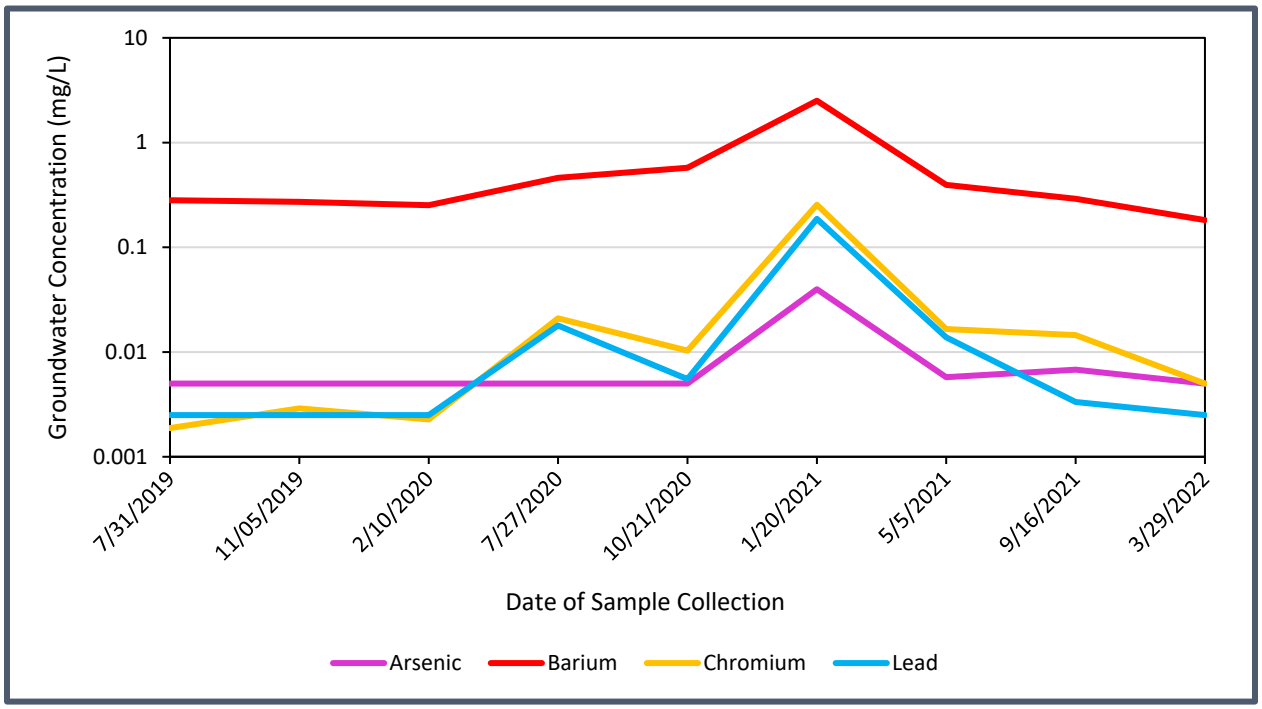

Table 3 – MW-03 Mann-Kendall Test Results

COC	Sample Count	S Value	S Variance	S Probability	Z value	Trend
Arsenic	9	11	63.67	0.155	1.253	No Trend
Barium	9	0	92	0.54	-0.1043	No Trend
Chromium	9	12	92	0.13	1.147	No Trend
Lead	9	6	83.33	0.306	0.5477	No Trend

The results for arsenic, barium, chromium and lead for MW-03 indicate no trend in concentrations over time, which confirms that these COCs are stable. Arsenic, barium, chromium and lead were present at concentrations below TRRP Tier 1 PCLs during the most recent sampling event in March 2022.

MW-04

Arsenic and lead exceeded the TRRP Tier 1 PCL during historic groundwater at location MW-04. Figure 4 below presents the concentrations of each COC at MW-04 throughout each historic sampling event. Table 4 below presents the results for the Mann-Kendall trend analysis test.

Figure 4 – MW-04 COC GW Concentration Trends Throughout Sampling History

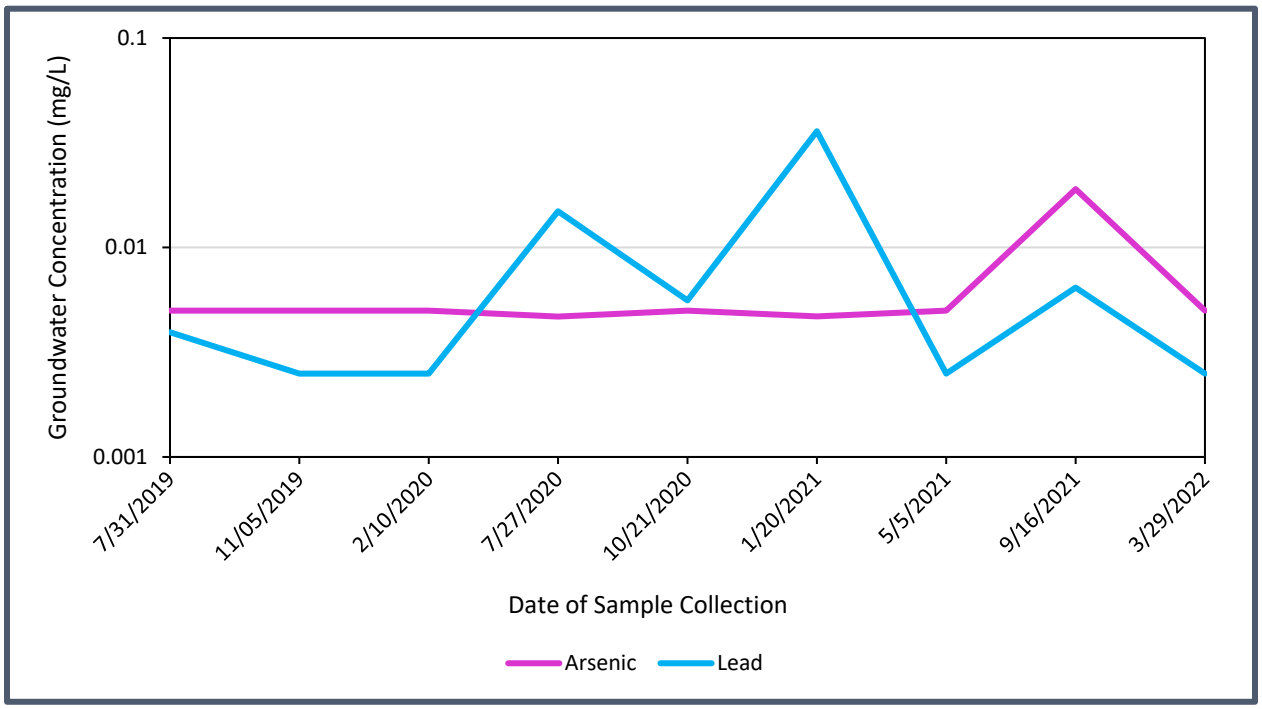

Table 4 – MW-04 Mann-Kendall Test Results

COC	Sample Count	S Value	S Variance	S Probability	Z value	Trend
Arsenic	9	5	63.67	0.34	0.5013	No Trend
Lead	9	2	83.33	0.46	0.1095	No Trend

The results for arsenic and lead for MW-04 indicate no upward or downward trend (i.e., it is stable) in concentrations over time, which confirms that these COCs are stable. Arsenic and lead were detected at concentrations below TRRP Tier 1 PCLs during the most recent sampling event in March 2022.

MW-05

Arsenic, barium and lead exceeded the TRRP Tier 1 PCL during historic groundwater monitoring at location MW-05. Figure 5 below presents the concentrations of each COC at MW-05 throughout each historic sampling event. Table 5 below presents the results for the M-K trend analysis test.

Figure 5 – MW-05 COC GW Concentration Trends Throughout Sampling History

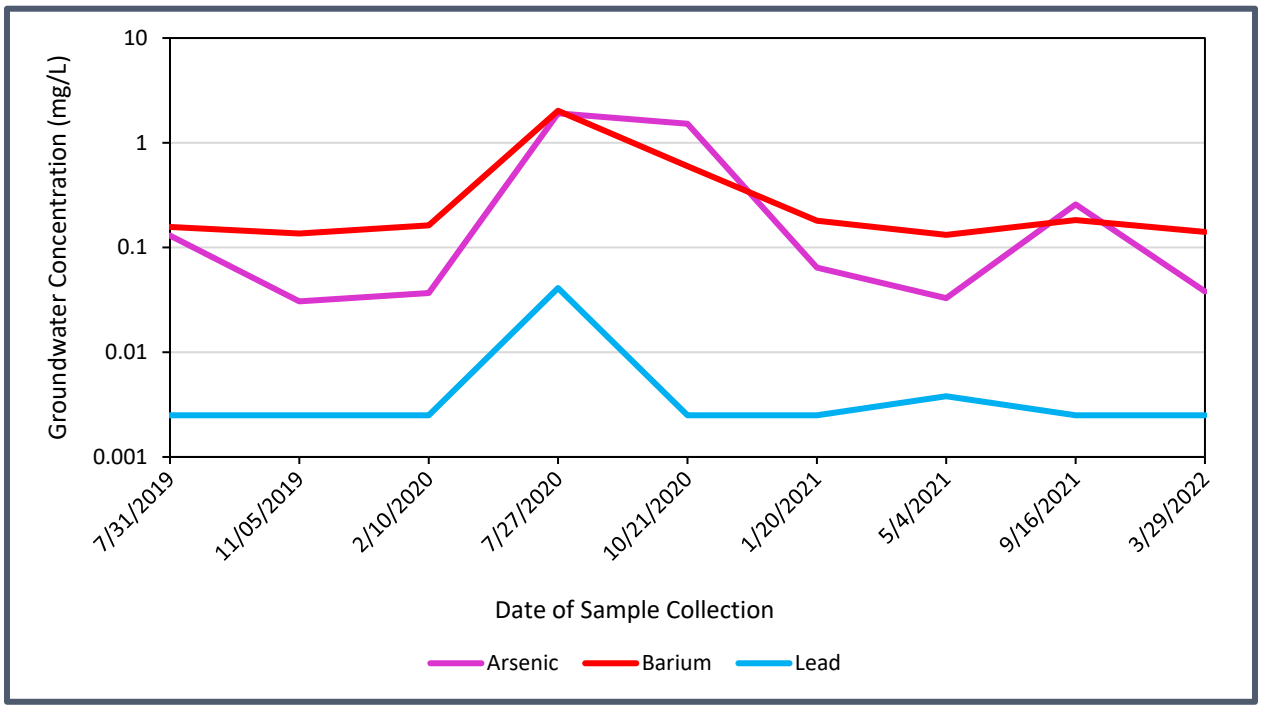

Table 5 – MW-05 Mann-Kendall Test Results

COC	Sample Count	S Value	S Variance	S Probability	Z value	Trend
Arsenic	9	0	92	0.54	-0.1043	No Trend
Barium	9	0	92	0.54	-0.1043	No Trend
Lead	9	1	47.67	0.5	0	No Trend

The results for arsenic, barium and lead for MW-05 indicate no upward or downward trend (i.e., it is stable) in concentrations over time, which confirms that these COCs are stable. Barium and lead were detected at concentrations below TRRP Tier 1 PCLs during the most recent sampling event in March 2022.

MW-06

Arsenic exceeded the TRRP Tier 1 PCL during historic groundwater sampling at location MW-06. Figure 6 below presents the concentration of arsenic at MW-06 throughout each historic sampling event. Table 6 below presents the results for the M-K trend analysis test.

Figure 6 – MW-06 COC GW Concentration Trends Throughout Sampling History

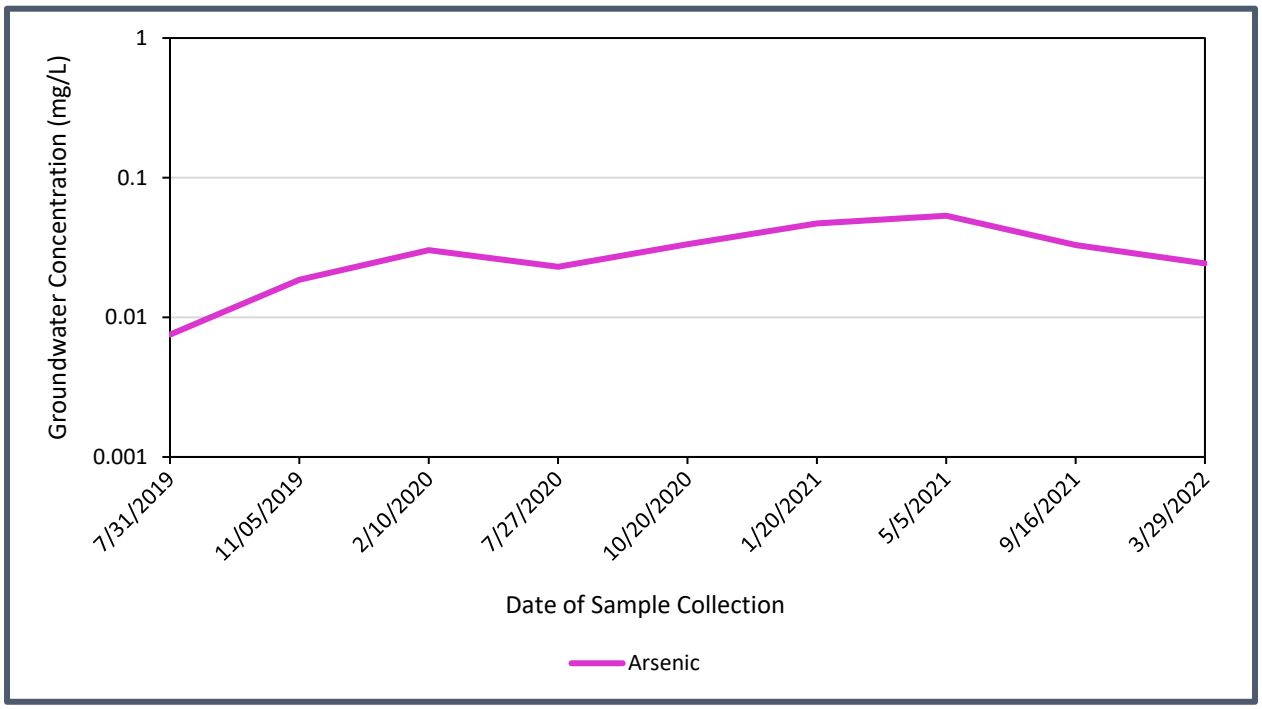

Table 6 – MW-06 Mann-Kendall Test Results

COC	Sample Count	S Value	S Variance	S Probability	Z value	Trend
Arsenic	9	18	92	0.038	1.772	Increasing

The results for arsenic for MW-06 indicate a slightly increasing trend in concentrations over time. However, as stated in Appendices E and F, arsenic in groundwater is the result of TPH in groundwater and/or from off-site sources. A 2015 USGS technical memo[3] found that geochemical changes from the breakdown of petroleum hydrocarbon compounds in groundwater promotes the release of naturally occurring arsenic – previously bound in aquifer sediments – into the aqueous phase. Petroleum hydrocarbons exceeding TRRP Tier I PCLs at the Site and are considered a COC in this MSD application.

[3] Lee, Isabelle M. Cozzarelli, Kathy E. "Natural Breakdown of Petroleum Results in Arsenic Mobilization in Groundwater." Toxics.usgs.gov, 2015, https://toxics.usgs.gov/highlights/2015-01-26-arsenic_plumes.html. Accessed 24 July 2022.

MW-07

1,1-DCE, PCE and TCE exceeded the TRRP Tier 1 PCL during historic groundwater monitoring at location MW-07. Figure 7 below presents the concentrations of each COC at MW-07 throughout each historic sampling event. Table 7 below presents the results for the M-K trend analysis test.

Figure 7 – MW-07 COC GW Concentration Trends Throughout Sampling History

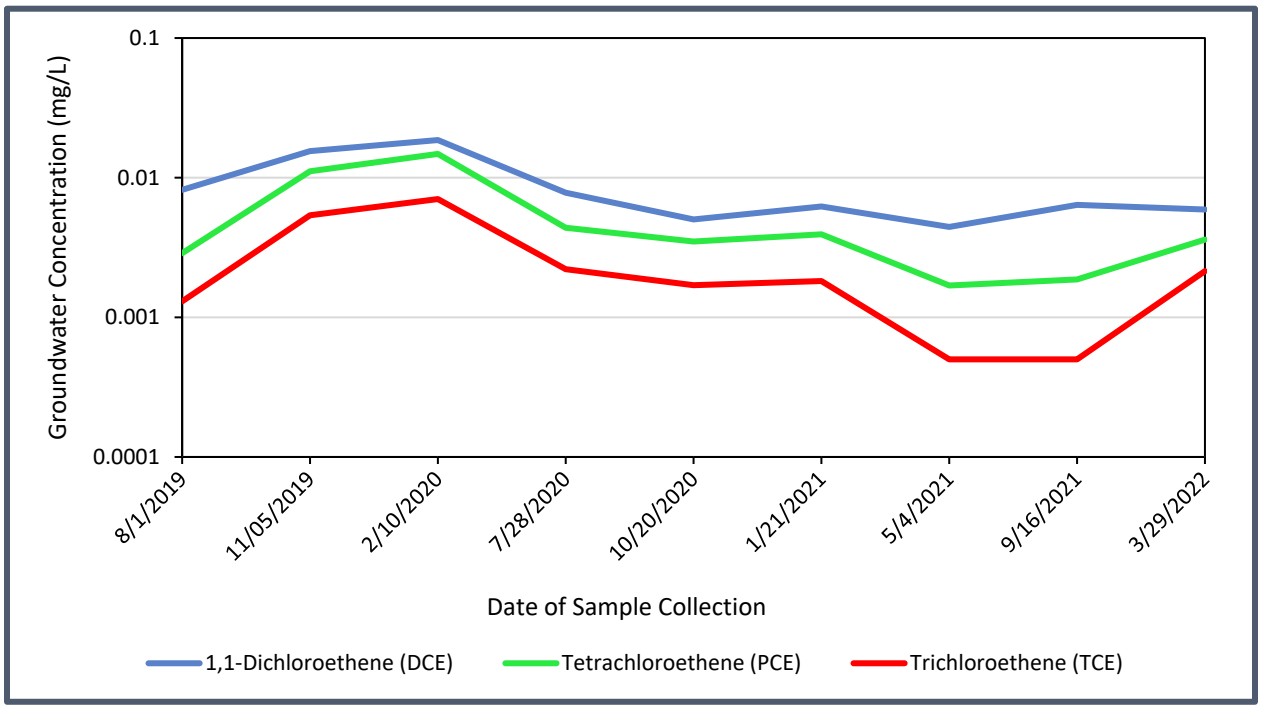

Table 7 – MW-07 Mann-Kendall Test Results

COC	Sample Count	S Value	S Variance	S Probability	Z value	Trend
1,1-DCE	9	-18	92	0.038	-1.981	Decreasing
PCE	9	-12	92	0.13	-1.355	No Trend
TCE	9	-11	91	0.155	-1.258	No Trend

The results for 1,1-DCE for MW-07 indicate a decreasing trend in concentrations over time. The results for PCE and TCE for MW-07 indicate no upward or downward trend (i.e., it is stable) in concentrations over time, which confirms that these COCs are stable. 1,1-DCE, PCE and TCE were present at concentrations below TRRP Tier 1 PCLs during the most recent sampling event in March 2022.

MW-08

Arsenic, barium, chromium and lead exceeded the TRRP Tier 1 PCL during historic groundwater monitoring at location MW-08. Figure 8 below presents the concentrations of each COC at MW-08 throughout each historic sampling event. Table 8 below presents the results for the M-K trend analysis test.

Figure 8 – MW-08 COC GW Concentration Trends Throughout Sampling History

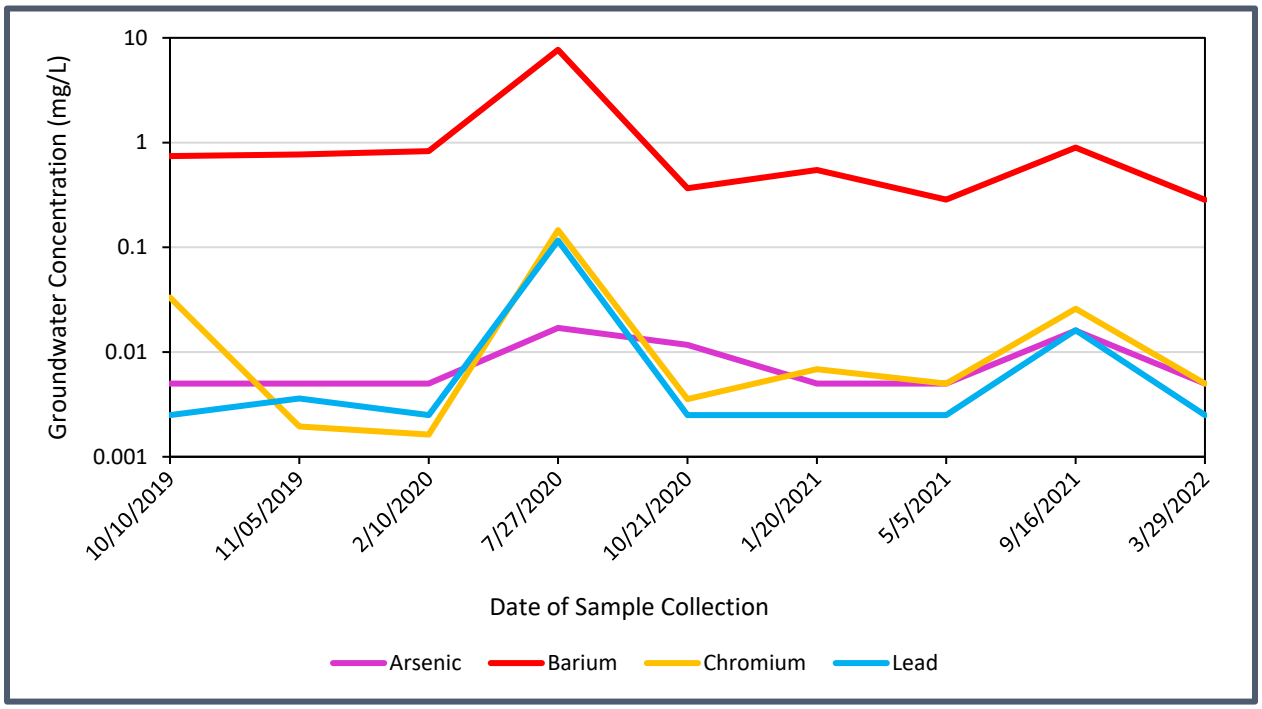

Table 8 – MW-08 Mann-Kendall Test Results

COC	Sample Count	S Value	S Variance	S Probability	Z value	Trend
Arsenic	9	3	63.67	0.42	0.2507	No Trend
Barium	9	-10	92	0.179	-1.147	No Trend
Chromium	9	3	91	0.42	0.2097	No Trend
Lead	9	-1	63.67	0.5	-0.2507	No Trend

The results for arsenic, barium, chromium and lead for MW-08 indicate no upward or downward trend (i.e., it is stable) in concentrations over time, which confirms that these COCs are stable. Arsenic, barium, chromium and lead were present at concentrations below the respective TRRP Tier 1 PCLs during the most recent sampling event in March 2022.

MW-09

Arsenic, lead, 1,1-DCE, methylene chloride, vinyl chloride and C_6-C_{12} TPH exceeded the TRRP Tier 1 PCL during historic groundwater monitoring at location MW-09. Figures 9a and 9b below present the concentrations of each COC at MW-09 throughout each historic sampling event. Table 9 below presents the results for the M-K trend analysis test.

Figure 9a – MW-09 COC GW Concentration Trends Throughout Sampling History

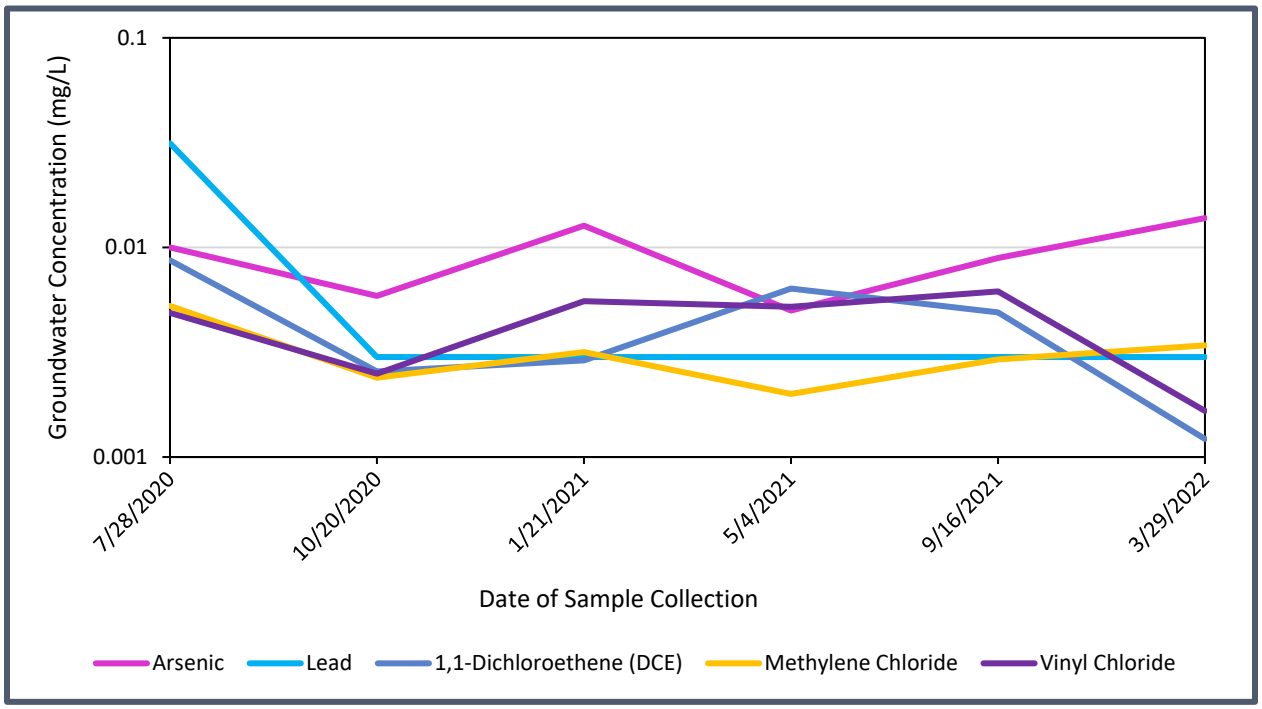

Figure 9b – MW-09 COC GW Concentration Trends Throughout Sampling History

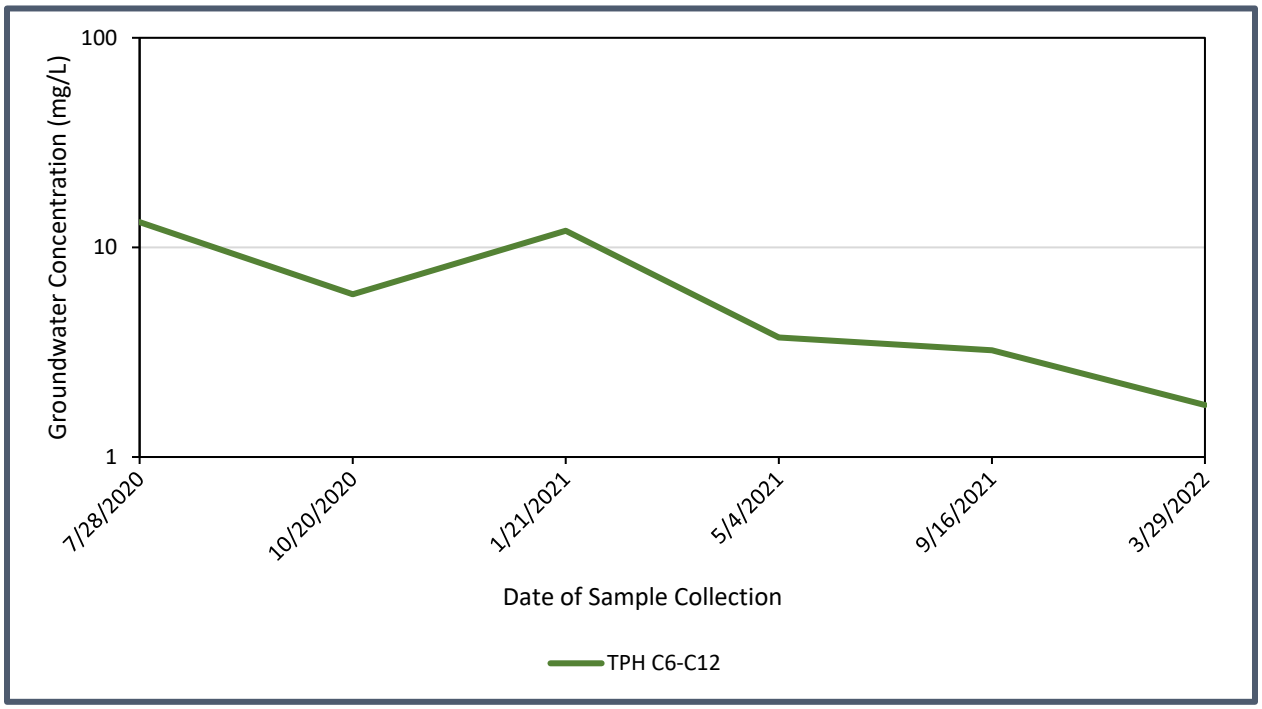

Table 9 – MW-09 Mann-Kendall Test Results

COC	Sample Count	S Value	S Variance	S Probability	Z value	Trend
Arsenic	6	3	28.33	0.36	0.3757	No Trend
Lead	6	-5	11.67	0.235	-1.757	No Trend
1,1-DCE	6	-5	28.33	0.235	-1.127	No Trend
Methylene Chloride	6	-1	28.33	0.5	-0.3757	No Trend
Vinyl Chloride	6	1	28.33	0.5	0	No Trend
C_6-C_{12} TPH	6	-13	28.33	0.0083	-2.630	Decreasing

The results for C_6-C_{12} TPH for MW-09 indicate a decreasing trend in concentrations over time. The results for arsenic, lead, 1,1-DCE, methylene chloride and vinyl chloride for MW-09 indicate no upward or downward trend (i.e., it is stable) in concentrations over time, which confirms that these COCs are stable. Lead, 1,1-DCE, methylene chloride, vinyl chloride and C_6-C_{12} TPH was present at concentrations below TRRP Tier 1 PCL during the most recent sampling event in March 2022.

MW-10

Arsenic, barium and lead exceeded the TRRP Tier 1 PCL during historic groundwater monitoring at location MW-10. Figure 10 below presents the concentrations of each COC at MW-10 throughout each historic sampling event. Table 10 below presents the results for the M-K trend analysis test.

Figure 10 – MW-10 COC GW Concentration Trends Throughout Sampling History

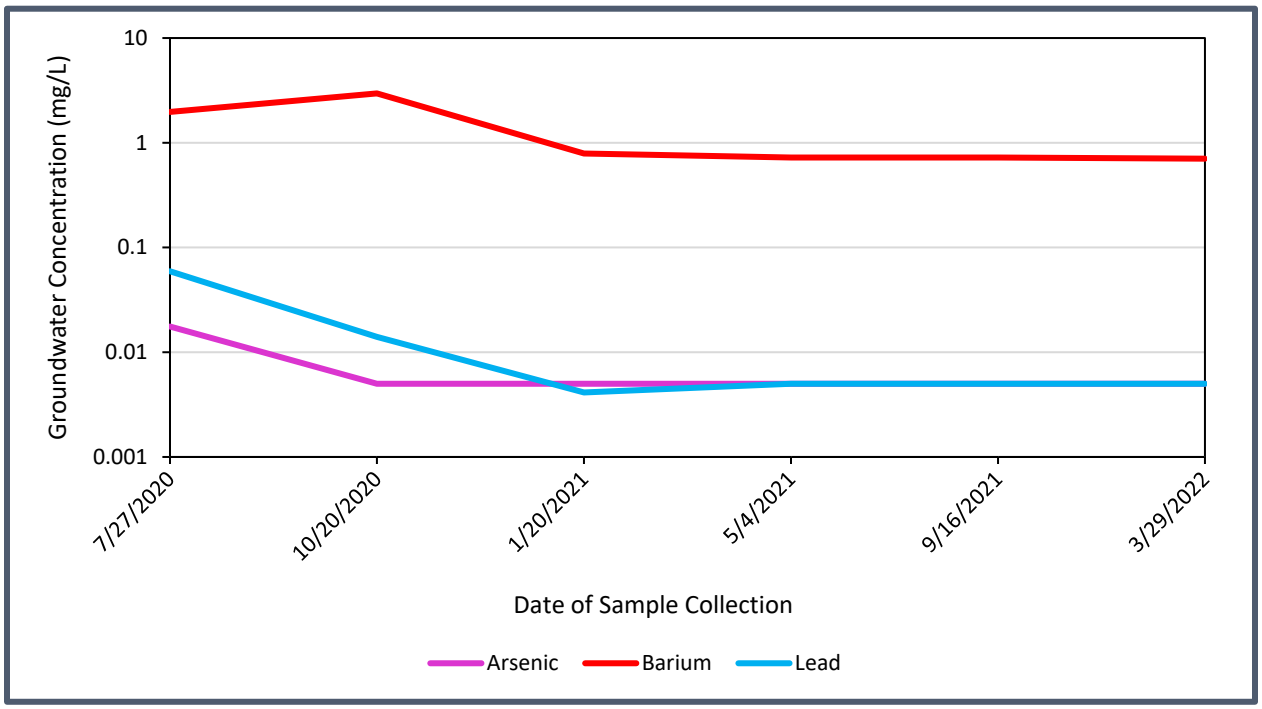

Table 10 – MW-10 Mann-Kendall Test Results

COC	Sample Count	S Value	S Variance	S Probability	Z value	Trend
Arsenic	6	-5	11.67	0.235	-1.757	No Trend
Barium	6	-11	28.33	0.028	-2.254	Decreasing
Lead	6	-6	24.67	0.185	-1.409	No Trend

The results for barium for MW-10 indicate a decreasing trend in concentrations over time. The results for arsenic and lead for MW-10 indicate no upward or downward trend (i.e., it is stable) in concentrations over time, which confirms that these COCs are stable. Arsenic, barium and lead were present at concentrations below the TRRP Tier 1 PCLs during the most recent sampling event in March 2022.

MW-11

Lead exceeded the TRRP Tier 1 PCL during historic groundwater monitoring at location MW-11. Figure 11 below presents the concentrations of each COC at MW-11 throughout each historic sampling event. Table 11 below presents the results for the M-K trend analysis test.

Figure 11 – MW-11 COC GW Concentration Trends Throughout Sampling History

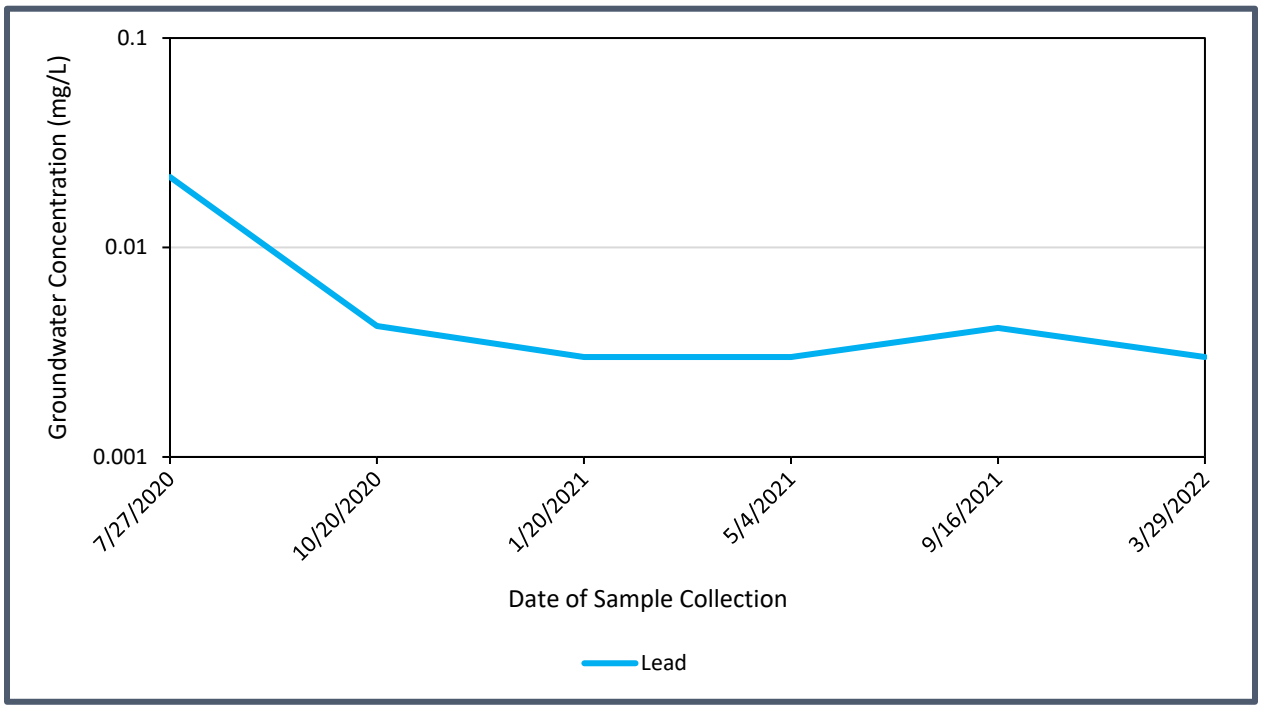

Table 11 – MW-11 Mann-Kendall Test Results

COC	Sample Count	S Value	S Variance	S Probability	Z value	Trend
Lead	6	-8	24.67	0.102	-1.812	No Trend

The results for lead for MW-11 indicate no upward or downward trend (i.e., it is stable) in concentrations over time, which suggests that the plumes of this COC is stable . Lead was present at concentrations below the TRRP Tier 1 PCL during the most recent sampling event in March 2022.

Conclusion

The affected groundwater plume is delineated to TRRP Tier 1 residential assessment levels (RAL). Based on results of the Mann-Kendall trend analysis, concentrations of COCs[i] are stable or declining. Table E.1 and Table E.2 (attached with Appendix E) are tables summarizing historical soil and groundwater concentrations at the Site, respectively.

[i] Excludes arsenic in groundwater, which emanates from off-site an source(s) and/or is attributable to the presence of TPH in groundwater.

Appendix H

Appendix H

A statement as to whether contamination on and off the designated property without a Municipal Setting Designation will exceed a residential assessment level as defined in the Texas Risk Reduction Program or analogous residential level set by the US Environmental Protection Agency (EPA), if known, and the basis for that statement.

The most recent sampling data (September 2021) shows that several COCs (arsenic, 1,1-DCE, PCE, vinyl chloride and C_6-C_{12} TPH) currently exceed the TRRP RALs without an MSD designation. Arsenic has been delineated in exceedance of the TRRPS RALs off-site to the south and southeast. The data within Table E.2 is the basis for this statement and is also displayed on Figure C3.1 and Figure C3.2.

Appendix I

Appendix I

A statement as to whether contamination on and off the designated property with a Municipal Setting Designation will exceed a residential assessment level as defined in the Texas Risk Reduction Program or analogous residential level set by EPA, if known, and the basis for that statement.

The most recent groundwater monitoring data from September 2021 indicate that the area of affected groundwater is delineated. Groundwater samples collected from groundwater monitoring wells contain COC concentrations less than the TRRP residential ingestion exceedance level when an MSD in put in place eliminating the groundwater ingestion pathway. Groundwater COCs are below the post-MSD PCLs of $^{Air}GW_{Inh\text{-}V}$. Therefore, COCs in groundwater after issuance of an MSD are below the critical PCLs. The data within Table E.2 is the basis for this statement and is also displayed on Figure C3.1 and Figure C3.2.