CITY OF HOUSTON

PUBLIC WORKS AND ENGINEERING
PLANNING & DEVELOPMENT DIVISION

EXECUTIVE SUMMARY

Project Overview

InControl Technologies was retained by UG Old Hardy, LP, to provide environmental consulting services at the Vacant Commercial property located at 1702 Nance Street, Houston, Harris County, Texas. The subject property is located east of McKee and Hardy Streets, south of Nance Street, and west of Elysian Street. The subject property (the Site) is paved in concrete with a large metal warehouse building taking up most of the property. The site consists of one parcel totaling 0.9816-acres of land located northeast of downtown Houston, Harris County, Texas (**Figure C1**). The general land use of the surrounding area is mostly commercial and light industrial (**Figure B**) but is slowly beginning to transition into residential.

The Site is located within the Buffalo Bayou Watershed (**Figure C2**) and is located outside the 0.2% annual chance (500 year) floodplain (**Figure C3**).

Volatile Organic Compounds (VOC) Protective Concentration Level Exceedance (PCLE) zones were identified on a portion of the subject property. The PCLE zones are depicted on **Figure C4a** through **Figure C4c**. Groundwater samples were also analyzed for the eight RCRA Metals. The groundwater data are summarized in **Tables E3** and **E4**.

Historical Environmental Condition

The 0.9816-acre subject property is located within the area of the Hardy Street Railyards and historical commercial industrial operations. Historically, the subject property was residential from at least 1890 through the 1960s. It was developed into a commercial business in the 1970s to support sales and distribution of oilfield equipment. The property was most recently occupied by Advanced Control Systems, LLC. This company provided a wide range of electrical and energy equipment for applications and operations in the drilling, marine, and industrial markets. Prior to that, the facility was occupied by Wilson Industries. This business was suspected to be similar to the Advanced Control Systems, LLC operations. InControl Technologies does not believe that any manufacturing operations were ever conducted on the subject property.

The adjacent property to the east was historically used for rail operations including a former railroad maintenance facility and switching yard. Early Sanborn Maps from the 1800s into the 1900s indicate rail car and locomotive operations by the Houston East and West Texas Railroad. A main rail corridor, which is still present, is located to the south. Houston East and West Texas Railroad operated on the adjacent

property from the late 1800s to the early 1900s. Additionally, a machine carpentry shop and boiler repair shop were located on the western property boundary of the railyard. These offsite operations are believed to be a source for some of the contamination found onsite.

A number of subsurface investigations were conducted between December 2019 and present. To date, 60 soil borings (as of March 2021) were advanced within the proposed MSD Boundary. The soil borings are depicted on **Figure C5**. The soil samples were analyzed for RCRA Metals by EPA Method 6020/7471 (**Table E1**) and volatile organic compounds (VOCs) by EPA Method 8260 (**Table E2**). The current groundwater monitoring well network consists of nine permanent groundwater monitoring wells (MW-5 through MW-13) (**Figure C6**). The groundwater samples were analyzed for RCRA Metals by EPA Method 6020/7470 (**Table E3**) and volatile organic compounds (VOCs) by EPA Method 8260 (**Table E4**).

The lateral extent of groundwater impact was delineated in all directions. Chlorinated hydrocarbons were present in groundwater at concentrations greater than the applicable Tier 1 $^{GW}GW_{Ing}$ PCLs. The PCLE zones are depicted in **Figures C4a through C4c**. The direction of groundwater flow is toward the southwest (**Figure C5**).

Nineteen (19) water well records were identified within a ½-mile radius of the proposed Municipal Setting Designation (MSD) boundary. The nearest domestic or public supply well is located approximately 0.32-miles from the subject property in the cross gradient direction. Within a 1/2-mile radius of the proposed MSD boundary, the only well that is believed to still be operational is Map ID #10, which is the domestic well. This well is screened from 442- to 452-ft bgs and is 452-ft deep. All other wells were either de-watering wells or industrial wells that are plugged.

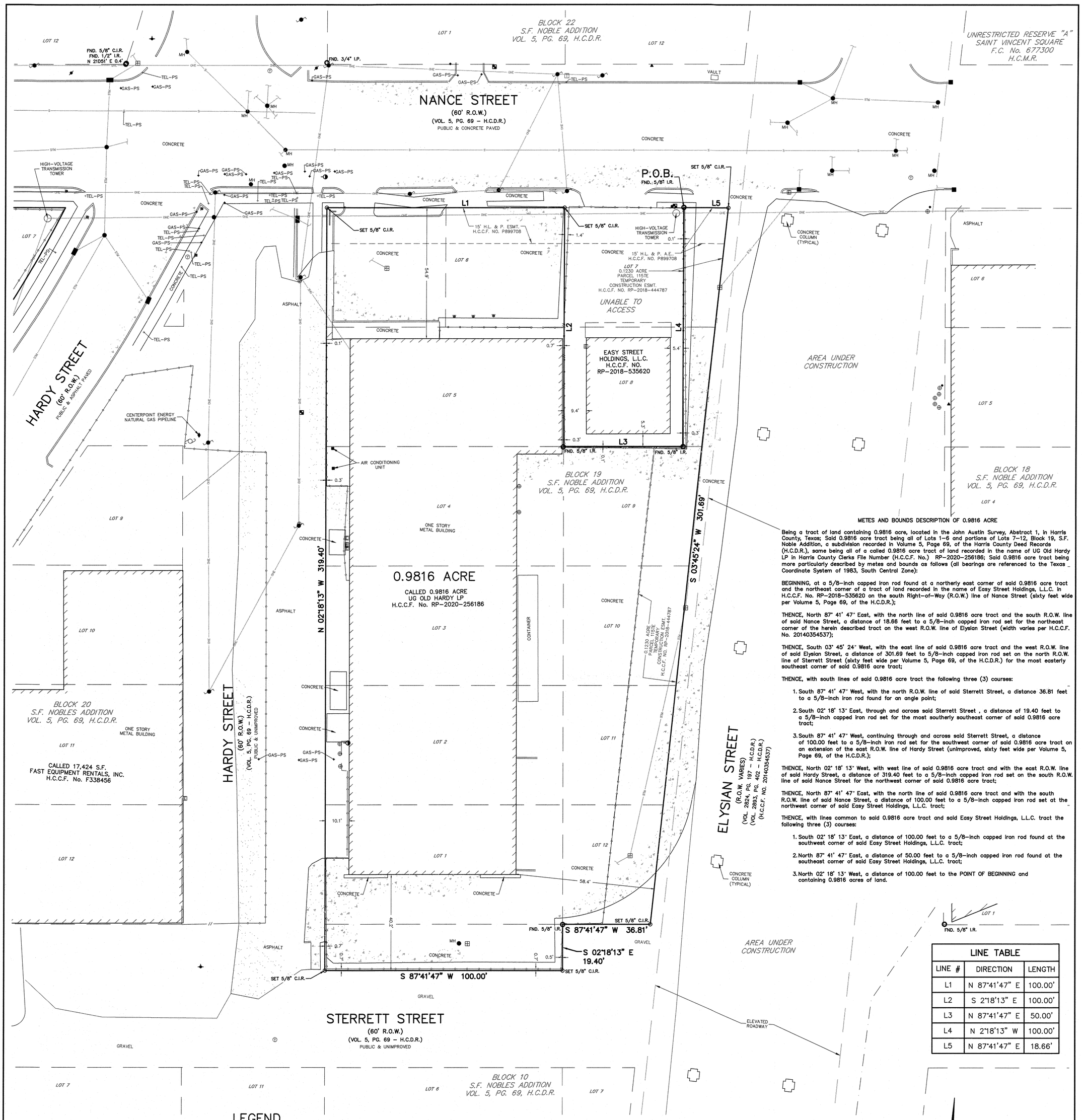
Buffalo Bayou is located approximately 830-feet south of the proposed MSD boundary. Buffalo Bayou is not threatened by the groundwater plume (**Figure C2, C4**).

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. Also included is a copy of the deed for the property. The proposed Municipal Setting Designation (MSD) boundary encompasses 0.9816-acres.

Figure A depicts the proposed MSD boundary.



METES AND BOUNDS DESCRIPTION OF 0.9816 ACRE

Being a tract of land containing 0.9816 acre, located in the John Austin Survey, Abstract 1, in Harris County, Texas; Said 0.9816 acre tract being all of Lots 1–6 and portions of Lots 7–12, Block 19, S.F. Noble Addition, a subdivision recorded in Volume 5, Page 69, of the Harris County Deed Records (H.C.D.R.), same being all of a called 0.9816 acre tract of land recorded in the name of UG Old Hardy LP in Harris County Clerks File Number (H.C.C.F. No.) RP–2020–256186; Said 0.9816 acre tract being more particularly described by metes and bounds as follows (all bearings are referenced to the Texas Coordinate System of 1983, South Central Zone):

BEGINNING, at a 5/8–inch capped iron rod found at a northerly east corner of said 0.9816 acre tract and the northeast corner of a tract of land recorded in the name of Easy Street Holdings, L.L.C. in H.C.C.F. No. RP–2018–535620 on the south Right–of–Way (R.O.W.) line of Nance Street (sixty feet wide per Volume 5, Page 69, of the H.C.D.R.);

THENCE, North 87° 41' 47" East, with the north line of said 0.9816 acre tract and the south R.O.W. line of said Nance Street, a distance of 18.66 feet to a 5/8–inch capped iron rod set for the northeast corner of the herein described tract on the west R.O.W. line of Elysian Street (width varies per H.C.C.F. No. 20140354537);

THENCE, South 03° 45' 24" West, with the east line of said 0.9816 acre tract and the west R.O.W. line of said Elysian Street, a distance of 301.69 feet to 5/8–inch capped iron rod set on the north R.O.W. line of Sterrett Street (sixty feet wide per Volume 5, Page 69, of the H.C.D.R.) for the most easterly southeast corner of said 0.9816 acre tract;

THENCE, with south lines of said 0.9816 acre tract the following three (3) courses:

1. South 87° 41' 47" West, with the north R.O.W. line of said Sterrett Street, a distance 36.81 feet to a 5/8–inch iron rod found for an angle point;
2. South 02° 18' 13" East, through and across said Sterrett Street , a distance of 19.40 feet to a 5/8–inch capped iron rod set for the most southerly southeast corner of said 0.9816 acre tract;
3. South 87° 41' 47" West, continuing through and across said Sterrett Street, a distance of 100.00 feet to a 5/8–inch iron rod set for the southwest corner of said 0.9816 acre tract on an extension of the east R.O.W. line of Hardy Street (unimproved, sixty feet wide per Volume 5, Page 69, of the H.C.D.R.);

THENCE, North 02° 18' 13" West, with west line of said 0.9816 acre tract and with the east R.O.W. line of said Hardy Street, a distance of 319.40 feet to a 5/8–inch capped iron rod set on the south R.O.W. line of said Nance Street for the northwest corner of said 0.9816 acre tract;

THENCE, North 87° 41' 47" East, with the north line of said 0.9816 acre tract and with the south R.O.W. line of said Nance Street, a distance of 100.00 feet to a 5/8–inch capped iron rod set at the northwest corner of said Easy Street Holdings, L.L.C. tract;

THENCE, with lines common to said 0.9816 acre tract and said Easy Street Holdings, L.L.C. tract the following three (3) courses:

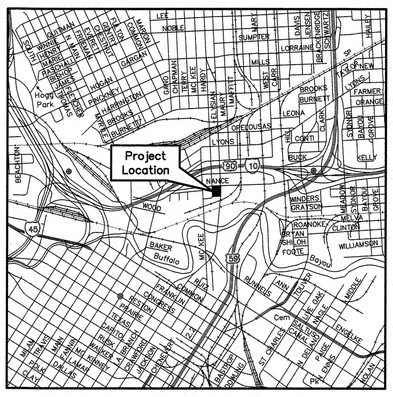
1. South 02° 18' 13" East, a distance of 100.00 feet to a 5/8–inch capped iron rod found at the southwest corner of said Easy Street Holdings, L.L.C. tract;
2. North 87° 41' 47" East, a distance of 50.00 feet to a 5/8–inch capped iron rod found at the southeast corner of said Easy Street Holdings, L.L.C. tract;
3. North 02° 18' 13" West, a distance of 100.00 feet to the POINT OF BEGINNING and containing 0.9816 acres of land.

LINE TABLE		
LINE #	DIRECTION	LENGTH
L1	N 87°41'47" E	100.00'
L2	S 2°18'13" E	100.00'
L3	N 87°41'47" E	50.00'
L4	N 2°18'13" W	100.00'
L5	N 87°41'47" E	18.66'

SEE NOTE 2.

20 0 20 40 60 Feet

SCALE: 1" = 20'



VICINITY MAP

SCALE: 1" = 1/2 MI.

LEGEND

⊞	AREA INLET
■	B INLET
▬	BB INLET
MH●	MANHOLE
CO●	CLEAN OUT
⊕	BOLLARD
●—	POWER POLE
(	DOWN GUY
✦	FIRE HYDRANT
◢	WATER VALVE
▣	WATER METER
●	SIGN
✳	AREA LIGHT
▥	TELEPHONE ENCLOSURE
⚑	TELEPHONE CABLE MARKER
Ⓣ	TELEPHONE MANHOLE
▲	GAS METER
◑	GAS VALVE
◆	PIPE LINE MARKER
E	ELECTRIC BOX
○	METER POLE
—o—o—o—	CHAIN LINK FENCE
—//—//—//—	WOOD FENCE
—OHE—	OVERHEAD ELECTRIC LINE
—S—S—S—	SANITARY SEWER
—STM—	STORM SEWER
	OVERHANG
	CONCRETE
	ASPHALT

SCHEDULE "B", ITEM 10 EXCEPTION NOTES*:

10(c)–H.L.&P. Co. UTILITY AND AERIAL EASEMENT, H.C.C.F. No. P899708, AFFECTS SURVEYED PROPERTY, PLOTTED HEREON

10(d)–TEMPORARY EASEMENT, H.C.C.F. No. RP–2018–44787, AFFECTS SURVEYED PROPERTY, PLOTTED HEREON

*ONLY THOSE ITEMS LISTED IN SCHEDULE "B" OF THE COMMITMENT FOR TITLE INSURANCE REFERENCED HEREON AND RELISTED ABOVE WERE CONSIDERED IN PREPARATION OF THIS SURVEY.

FLOOD STATEMENT: THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP FOR THE CITY OF HOUSTON, HARRIS COUNTY, TEXAS AND INCORPORATED AREAS, COMMUNITY NO. 480296, DATED JANUARY 6, 2017, INDICATES THAT THIS TRACT IS WITHIN ZONE "X" UNSHADED, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AND ZONE "X" SHADED; AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; OR AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD, AS SHOWN ON MAP AND PANEL NO. 48201C0690N. THIS DETERMINATION HAS BEEN MADE BY SCALING THE PROPERTY ON THE ABOVE REFERENCED MAP AND IS NOT THE RESULT OF AN ELEVATION SURVEY. WARNING: IF THIS SITE IS NOT WITHIN AN IDENTIFIED SPECIAL FLOOD HAZARD AREA, THIS STATEMENT DOES NOT IMPLY THAT THE PROPERTY AND/OR THE STRUCTURES THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. ON RARE OCCASIONS, GREATER FLOODS CAN AND WILL OCCUR AND FLOOD HEIGHTS MAY BE INCREASED BY MANMADE OR NATURAL CAUSES. THIS FLOOD STATEMENT SHALL NOT CREATE LIABILITY ON THE PART OF THE SURVEYOR.

ABBREVIATIONS

A.E.	= AERIAL EASEMENT
ESMT.	= EASEMENT
F.C.	= FILM CODE
H.C.C.F.	= HARRIS COUNTY CLERK'S FILE
H.C.D.R.	= HARRIS COUNTY DEED RECORDS
H.C.M.R.	= HARRIS COUNTY MAP RECORDS
No.	= NUMBER
PG.	= PAGE
R.O.W.	= RIGHT OF WAY
SAN. SWR.	= SANITARY SEWER
STM. SWR.	= STORM SEWER
U.E.	= UTILITY EASEMENT
VOL.	= VOLUME
GAS–PS	= GAS LINE PAINT STRIPE
GAS–PF	= GAS LINE PIN FLAG
TEL–PS	= TELEPHONE LINE PAINT STRIPE
TEL–PF	= TELEPHONE LINE PIN FLAG
FND.	= FOUND
I.R	= IRON ROD
C.I.R.	= CAPPED IRON ROD
I.P.	= IRON PIPE
H.L. & P.	= HOUSTON LIGHTING AND POWER
P.O.B.	= POINT OF BEGINNING

NOTES

1. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF A COMMITMENT FOR TITLE INSURANCE ISSUED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, G.F. No. CH–7655–1076551900149–JC, EFFECTIVE DATE OF COMMITMENT MAY 12, 2019, ISSUE DATE OF COMMITMENT MAY 16, 2019, WITH REGARD TO ANY RECORDED EASEMENTS, RIGHTS–OF–WAY OR SETBACKS AFFECTING THE SUBJECT PROPERTY. NO ADDITIONAL RESEARCH REGARDING THE EXISTENCE OF EASEMENTS, RESTRICTIONS, OR OTHER MATTERS OF RECORD HAS BEEN PERFORMED BY THE SURVEYOR.
2. BEARINGS SHOWN HEREON ARE BASED ON THE TEXAS COORDINATE SYSTEM OF 1983, SOUTH CENTRAL ZONE.
3. VISIBLE, ABOVE GROUND UTILITIES WERE LOCATED AS PER ALTA/NSPS 2016 MINIMUM STANDARD DETAIL REQUIREMENTS SECTION 5Eiv.
4. THE CITY OF HOUSTON HAS NO FORMAL ZONING ORDINANCES, NOR DOES THE SURVEYOR HAVE KNOWLEDGE OF ANY SPECIFIC ORDINANCES AFFECTING THE SURVEYED PROPERTY. THE SURVEYOR WAS NOT SUPPLIED WITH A PROPERTY ZONING REPORT.
5. THERE WAS NO OBSERVED EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS.
6. THERE WAS NO EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS. THE SURVEYOR HAS NO KNOWLEDGE OF ANY PROPOSED CHANGES IN STREET RIGHT–OF–WAY LINES.
7. THERE WERE NO WETLANDS DELINEATED ON THE SURVEYED PROPERTY.
8. THE SURVEYOR CARRIES PROFESSIONAL LIABILITY INSURANCE.
9. THE TREE SPECIES AND SIZES SHOWN HEREON HAVE BEEN IDENTIFIED TO THE BEST OF THE SURVEYOR'S KNOWLEDGE. THE SURVEYOR CAN NOT CERTIFY, NOR ATTEST, TO THE ACCURACY OF THESE NOTATIONS. IF CERTIFICATION OF THIS INFORMATION IS REQUIRED, PLEASE CONTACT A LICENSED URBAN FORESTER OR ARBORIST FOR CONFIRMATION.
10. A METES AND BOUNDS DESCRIPTION OF THE SURVEYED PROPERTY WAS PREPARED IN CONJUNCTION WITH AND ACCOMPANIES THIS SURVEY.

TO: UG OLD HARDY LP; AND FIDELITY NATIONAL TITLE INSURANCE COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 6(a), 7(a), 8, 9, 13, 14 AND 16–18 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON MAY 31, 2019.

DATED THIS THE 18TH DAY OF JUNE, 2020.

CHRIS RHODES
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS REGISTRATION NO.:6532

STATE OF TEXAS · REGISTERED · CHRIS RHODES · 6532 · PROFESSIONAL · LAND SURVEYOR

ALTA/NSPS LAND TITLE SURVEY

OF

0.9816 ACRE

BEING

ALL OF LOTS 1 THROUGH 6 AND PORTIONS OF LOTS 7 THROUGH 12, BLOCK 19, S.F. NOBLE ADDITION, A SUBDIVISION RECORDED IN VOLUME 5, PAGE 69, HARRIS COUNTY DEED RECORDS

IN THE

J. AUSTIN SURVEY
ABSTRACT NO. 1
HARRIS COUNTY, TEXAS

REVISED: 06/18/20 UPDATE VESTING DEED

DATE:	06/05/19
SCALE:	1" = 20'
BOOK NO.:	
DRAWN BY:	S.L.
CHECKED BY:	M.H.
PROJECT NO.:	CS 19086
DRAWING NO.:	1 OF 1

10590 WESTOFFICE DRIVE, SUITE #100
HOUSTON, TEXAS 77042
OFFICE: (713) 839–9181
FAX: (713) 839–9020

Civil-Surv
Land Surveying,LLC

TBPLS No. 10143800
Email: michael@civil–surv.net

County: Harris
Project: 1702 Nance
M&B No: 19-143(r)
CS Job No: 19086

METES AND BOUNDS DESCRIPTION OF 0.9816 ACRE

Being a tract of land containing 0.9816 acre, located in the John Austin Survey, Abstract 1, in Harris County, Texas; Said 0.9816 acre tract being all of Lots 1-6 and portions of Lots 7-12, Block 19, S.F. Noble Addition, a subdivision recorded in Volume 5, Page 69, of the Harris County Deed Records (H.C.D.R.), same being all of a called 0.9816 acre tract of land recorded in the name of UG Old Hardy LP in Harris County Clerks File Number (H.C.C.F. No.) RP-2020-256186; Said 0.9816 acre tract being more particularly described by metes and bounds as follows (all bearings are referenced to the Texas Coordinate System of 1983, South Central Zone):

BEGINNING, at a 5/8-inch capped iron rod found at a northerly east corner of said 0.9816 acre tract and the northeast corner of a tract of land recorded in the name of Easy Street Holdings, L.L.C. in H.C.C.F. No. RP-2018-535620 on the south Right-of-Way (R.O.W.) line of Nance Street (sixty feet wide per Volume 5, Page 69, of the H.C.D.R.);

THENCE, North 87° 41' 47" East, with the north line of said 0.9816 acre tract and the south R.O.W. line of said Nance Street, a distance of 18.66 feet to a 5/8-inch capped iron rod set for the northeast corner of the herein described tract on the west R.O.W. line of Elysian Street (width varies per H.C.C.F. No. 20140354537);

THENCE, South 03° 45' 24" West, with the east line of said 0.9816 acre tract and the west R.O.W. line of said Elysian Street, a distance of 301.69 feet to 5/8-inch capped iron rod set on the north R.O.W. line of Sterrett Street (sixty feet wide per Volume 5, Page 69, of the H.C.D.R.) for the most easterly southeast corner of said 0.9816 acre tract;

THENCE, with south lines of said 0.9816 acre tract the following three (3) courses:

1. South 87° 41' 47" West, with the north R.O.W. line of said Sterrett Street, a distance 36.81 feet to a 5/8-inch iron rod found for an angle point;

2. South 02° 18' 13" East, through and across said Sterrett Street , a distance of 19.40 feet to a 5/8-inch capped iron rod set for the most southerly southeast corner of said 0.9816 acre tract;

3. South 87° 41' 47" West, continuing through and across said Sterrett Street, a distance of 100.00 feet to a 5/8-inch iron rod set for the southwest corner of said 0.9816 acre tract on an extension of the east R.O.W. line of Hardy Street (unimproved, sixty feet wide per Volume 5, Page 69, of the H.C.D.R.);

THENCE, North 02° 18' 13" West, with west line of said 0.9816 acre tract and with the east R.O.W. line of said Hardy Street, a distance of 319.40 feet to a 5/8-inch capped iron rod set on the south R.O.W. line of said Nance Street for the northwest corner of said 0.9816 acre tract;

THENCE, North 87° 41' 47" East, with the north line of said 0.9816 acre tract and with the south R.O.W. line of said Nance Street, a distance of 100.00 feet to a 5/8-inch capped iron rod set at the northwest corner of said Easy Street Holdings, L.L.C. tract;

THENCE, with lines common to said 0.9816 acre tract and said Easy Street Holdings, L.L.C. tract the following three (3) courses:

1. South 02° 18' 13" East, a distance of 100.00 feet to a 5/8-inch capped iron rod found at the southwest corner of said Easy Street Holdings, L.L.C. tract;

2. North 87° 41' 47" East, a distance of 50.00 feet to a 5/8-inch capped iron rod found at the southeast corner of said Easy Street Holdings, L.L.C. tract;

3. North 02° 18' 13" West, a distance of 100.00 feet to the **POINT OF BEGINNING** and containing 0.9816 acres of land.

An ALTA/NSPS Land Title Survey drawing of the herein described tract was prepared in conjunction with and accompanies this description.

Chris Rhodes, R.P.L.S.
Texas Registration Number 6532

CVIL-SURV LAND SURVEYING, LC
PH: (713) 839-9181
June 5, 2019
Revised June 18, 2020

RP-2020-256186
06/16/2020 ER $38.00

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

STATE OF TEXAS §
§
COUNTY OF HARRIS §

SPECIAL WARRANTY DEED

125 WEST CROSSTIMBERS, LTD., a Texas limited partnership ("Grantor"), whose address is 2001 Kirby Drive, Suite 805, Houston, Texas 77019, for and in consideration of the sum of TEN AND NO/100 DOLLARS ($10.00) paid to Grantor by UG OLD HARDY LP, a Texas limited partnership ("Grantee"), whose address is 306 Avondale St., Suite 200, Houston, Texas 77006 and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged has GRANTED, BARGAINED, SOLD and CONVEYED, and by these presents does hereby GRANT, BARGAIN, SELL and CONVEY unto Grantee, that certain land located in Harris County, Texas, and being more particularly described on the attached **Exhibit A**, TOGETHER WITH (1) all improvements located thereon, if any, (2) all and singular the rights, interests, benefits, privileges, easements, tenements, hereditaments, and appurtenances thereon or in any way appertaining thereto, and (3) all right, title, and interest of Grantor, if any, in and to all strips and gores and any land lying in the bed of any street, right-of-way, road or alley, open or proposed, appurtenant or incident to such land, and any water rights, surface and subsurface mineral rights (such land, together with the foregoing (1) through (3), are referred to herein as the "Property").

This conveyance is made and accepted subject to the permitted exceptions described on **Exhibit B** attached hereto (collectively, "Permitted Exceptions").

TO HAVE AND TO HOLD the Property, subject to the Permitted Exceptions, unto Grantee and Grantee's successors and assigns forever; and Grantor does hereby bind itself and its successors to warrant and forever defend the Property unto Grantee and Grantee's 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.

GRANTEE ACKNOWLEDGES AND AGREES THAT, EXCEPT AS EXPRESSLY SET FORTH IN THE TAR COMMERCIAL CONTRACT – IMPROVED PROPERTY DATED EFFECTIVE AS OF MAY 9, 2019, BETWEEN GRANTOR AND GRANTEE'S PREDECESSOR-IN-INTEREST (AS AMENDED, THE "CONTRACT"), AND/OR THE WARRANTIES OF THIS SPECIAL WARRANTY DEED, GRANTOR IS CONVEYING THE PROPERTY TO GRANTEE, AND GRANTEE IS ACCEPTING THE PROPERTY FROM GRANTOR, IN ITS "AS-IS, WHERE-IS" CONDITION "WITH ALL FAULTS" AND SPECIFICALLY AND EXPRESSLY WITHOUT ANY WARRANTIES, REPRESENTATIONS, OR GUARANTIES, EITHER EXPRESS OR IMPLIED, OF ANY KIND, NATURE, OR TYPE WHATSOEVER. GRANTEE ACKNOWLEDGES THAT IT HAS NOT

RELIED, AND IS NOT RELYING, UPON ANY INFORMATION, DOCUMENT, SALES BROCHURES, OR OTHER LITERATURE, MAPS, OR SKETCHES, PROJECTION, PROFORMA, STATEMENT, REPRESENTATION, GUARANTY, OR WARRANTY (WHETHER EXPRESS OR IMPLIED, ORAL, OR WRITTEN, OR MATERIAL OR IMMATERIAL) THAT MAY HAVE BEEN GIVEN OR MADE BY, OR ON BEHALF OF, GRANTOR OR ANYONE ACTING ON ITS BEHALF. GRANTOR SPECIFICALLY DISCLAIMS ANY WARRANTY, GUARANTY, OR REPRESENTATION, ORAL OR WRITTEN, PAST OR PRESENT, EXPRESS OR IMPLIED, CONCERNING THE PROPERTY, EXCEPT AS SUCH WARRANTY, GUARANTY, OR REPRESENTATION IS EXPRESSLY SET FORTH IN THE CONTRACT.

[*Signature Page Follows*]

EXECUTED effective as of the 15 day of June, 2020.

GRANTOR:

125 WEST CROSSTIMBERS, LTD.,
a Texas limited partnership

By: 125WCT Management, LLC,
a Texas limited liability company,
its General Partner

By: _____
John P. Madden, President

STATE OF TEXAS)
) SS.
COUNTY OF HARRIS)

I, the undersigned, a Notary Public in and for said County, in the State aforesaid, DO HEREBY CERTIFY that John P. Madden, as the President of 125WCT Management, LLC, a Texas limited liability company, the General Partner of 125 West Crosstimbers, LTD., a Texas limited partnership, personally known to me, whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed and delivered the said instrument as his free and voluntary act for the purposes therein set forth.

Given under my hand and official seal this 15TH day of June, 2020.

JONATHAN DAVIS COOPER
ID# 131756107
NOTARY PUBLIC, STATE OF TEXAS
MY COMMISSION EXPIRES
OCTOBER 26, 2022

_____
Notary Public

My Commission expires: 10/26/22

RP-2020-256186

Exhibit A

LEGAL DESCRIPTION

Being a tract of land containing 0.9816 acre, located in the John Austin Survey, Abstract 1, in Harris County, Texas; Said 0.9816 acre tract being all of Lots 1-6 and portions of Lots 7-12, Block 19, S.F. Noble Addition, a subdivision recorded in Volume 5, Page 69, of the Harris County Deed Records (H.C.D.R.), same being out of a called 1.228 acre tract of land recorded in the name of 125 West Crosstimbers, Ltd. in Harris County Clerks File (H.C.C.F.) Number 20110223447 (Tract I) and all of a tract of land recorded in the name of 125 West Crosstimbers, Ltd. in Harris County Clerks File (H.C.C.F.) Number 2020252429 (Tract II); Said 0.9816 acre tract being more particularly described by metes and bounds as follows (all bearings are referenced to the Texas Coordinate System of 1983, South Central Zone):

BEGINNING, at a 5/8-inch capped iron rod found at a northerly east corner of said Tract I and the northeast corner of a tract of land recorded in the name of Easy Street Holdings, L.L.C. in H.C.C.F. Number RP-2018-535620 on the south Right-of-Way (R.O.W.) line of Nance Street (sixty feet wide per Volume 5, Page 69, of the H.C.D.R.);

THENCE, North 87° 41' 47" East, with the north line of said Tract I and the south R.O.W. line of said Nance Street, a distance of 18.66 feet to a 5/8-inch capped iron rod set for the northeast corner of the herein described tract on the west R.O.W. line of Elysian Street (width varies per H.C.C.F. Number 20140354537);

THENCE, South 03° 45' 24" West, through and across said Tract I and with the west R.O.W. line of said Elysian Street, a distance of 301.69 feet to 5/8-inch capped iron rod set on the south line of said Tract I and the north R.O.W. line of Sterrett Street (sixty feet wide per Volume 5, Page 69, of the H.C.D.R.) for the most easterly southeast corner of the herein described tract;

THENCE, with south lines of said Tract I the following three (3) courses:

1. South 87° 41' 47" West, with the north R.O.W. line of said Sterrett Street, a distance 36.81 feet to a 5/8-inch iron rod found for an angle point;

2. South 02° 18' 13" East, through and across said Sterrett Street , a distance of 19.40 feet to a 5/8-inch capped iron rod set for the most southerly southeast corner of the herein described tract;

3. South 87° 41' 47" West, continuing through and across said Sterrett Street, a distance of 100.00 feet to a 5/8-inch iron rod set for the southwest corner of the herein described tract on an extension of the east R.O.W. line of Hardy Street (unimproved, sixty feet wide per Volume 5, Page 69, of the H.C.D.R.)

THENCE, North 02° 18' 13" West, with west line of said Tract I and with the east R.O.W. line of said Hardy Street, a distance of 319.40 feet to a 5/8-inch capped iron rod set on the south R.O.W. line of said Nance Street for the northwest corner of the herein described tract;

THENCE, North 87° 41' 47" East, with the north lines of said Tract I and said Tract II and with the south R.O.W. line of said Nance Street, a distance of 100.00 feet to a 5/8-inch capped iron rod set at the northeast corner of said Tract II and the northwest corner of said Easy Street Holdings, L.L.C. tract;

THENCE, with lines common to said Tracts I and II and said Easy Street Holdings, L.L.C. tract the following three (3) courses:

1. South 02° 18' 13" East, a distance of 100.00 feet to a 5/8-inch capped iron rod found at the southwest corner of said Easy Street Holdings, L.L.C. tract;

2. North 87° 41' 47" East, a distance of 50.00 feet to a 5/8-inch capped iron rod found at the southeast corner of said Easy Street Holdings, L.L.C. tract;

3. North 02° 18' 13" West, a distance of 100.00 feet to the **POINT OF BEGINNING** and containing 0.9816 acres of land.

Exhibit B

PERMITTED EXCEPTIONS

1. Standby fees, taxes and assessments by any taxing authority for the year 2020 and subsequent years.

2. Temporary Easement granted to the State of Texas by instrument August 10, 2018, filed for record under Harris County Clerk's File No. RP-2018-444787.

3. The following matters shown on the survey prepared by Michael Hall, RPLS No. 5765, dated 06/05/2019, as amended:

    a. Overhead Electric Line extending from the west property line;
    b. Gas Line Paint Stripe along west property line;
    c. Storm Sewer along the east property line;
    d. Manhole along the south property line; and
    e. Fences do not follow the property lines.

RP-2020-256186

Pages 7

06/16/2020 08:25 AM

e-Filed & e-Recorded in the

Official Public Records of

HARRIS COUNTY

CHRIS HOLLINS

COUNTY CLERK

Fees $38.00

RP-2020-256186

RECORDERS MEMORANDUM
This instrument was received and recorded electronically and any blackouts, additions or changes were present at the time the instrument was filed and recorded.

Any provision herein which restricts the sale, rental, or use of the described real property because of color or race is invalid and unenforceable under federal law.
THE STATE OF TEXAS
COUNTY OF HARRIS
I hereby certify that this instrument was FILED in File Number Sequence on the date and at the time stamped hereon by me; and was duly RECORDED in the Official Public Records of Real Property of Harris County, Texas.

COUNTY CLERK
HARRIS COUNTY, TEXAS

LEGEND

Property Boundary

N

0 60 120

Approximate Scale (feet)

InControl Technologies
14731 Pebble Bend Drive
Houston, Texas 77068
(281) 580-8892 FAX (281) 580-8853

MSD Boundary Map

CLIENT: Urban Genesis			PM: LMG
LOCATION: 1702 Nance Street Houston, Texas 77020			CHECKED: MFM
DETAILED: Date	DESIGNED: LMG	PROJECT NO: E20011-101	FIGURE: **A**

Appendix B

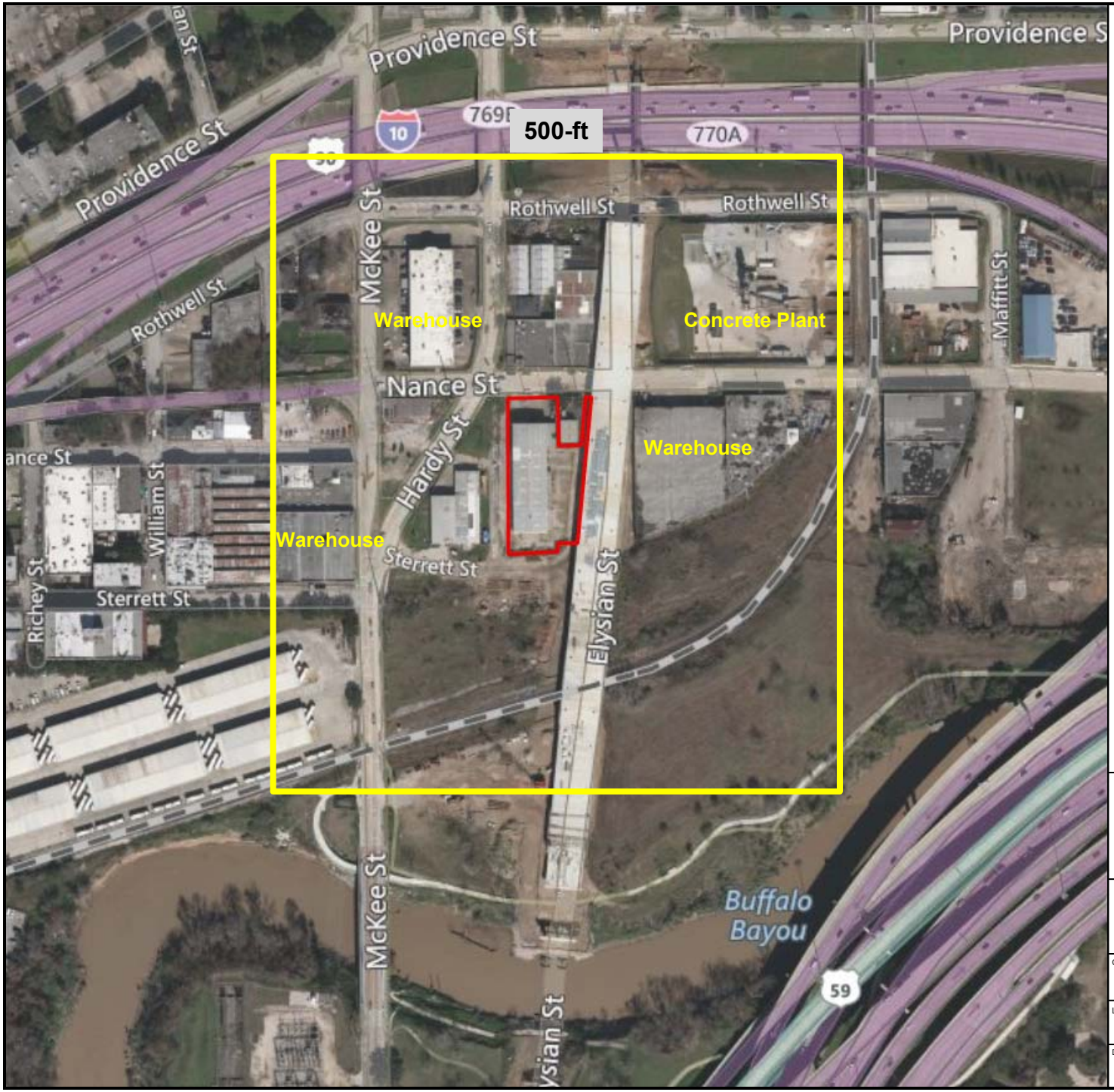
A description of the current use, and, to the extent known, the anticipated use(s), of the designated property and properties within 500 feet of the boundary of the designated property.

The proposed MSD area is 0.9816-acres of land located northeast of downtown Houston, Harris County, Texas. The affected property is in a commercial/ industrial land use area of Houston. **Figure B** provides a description of the surrounding land use within 500-feet of the site.

The subject property is currently developed with one vacant warehouse building. The anticipated future use of the property is a multi-family residential development.

The surrounding land use is described as:

- North – commercial warehouse buildings and a concrete plant to the northeast;
- East – commercial warehouse building;
- South – vacant property owned by Harris County Flood Control District, railroad tracks;
- West – commercial warehouse building.



LEGEND

- VCP Property Boundary
- 500-ft Boundary

N

0 250 500

Approximate Scale (feet)

InControl Technologies
14731 Pebble Bend Drive
Houston, Texas 77068
(281) 580-8892 FAX (281) 580-8853

Surrounding Property Use Map

CLIENT: Urban Genesis			PM: LMG
LOCATION: 1702 Nance Street Houston, Texas 77020			CHECKED: MFM
DETAILED: Date	DESIGNED: LMG	PROJECT NO: E20011-101	FIGURE: B

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 exceedence zone for each contaminant of concern, to the extent known.
g. Depth to groundwater for each affected zone.

The following is a listing of figures included in **Appendix C**.

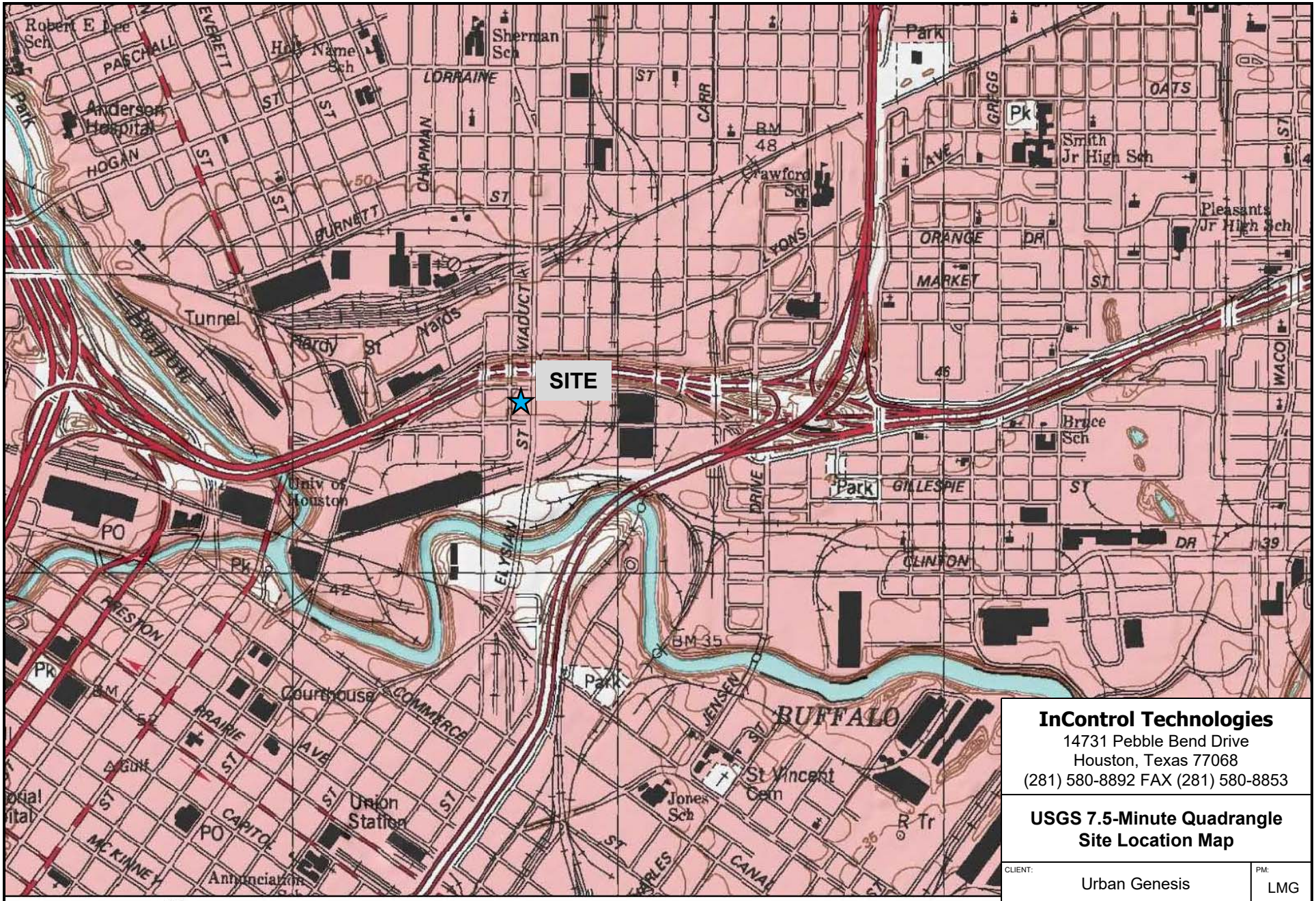
Figure C1 – Topographic Map
Figure C2 – Watershed Map
Figure C3 – Flood Plain Map
Figure C4a – Tetrachloroethene Concentrations in Groundwater
Figure C4b – Trichloroethene Concentrations in Groundwater
Figure C4c – Cis-1,2-Dichloroethene Concentrations in Groundwater
Figure C5 – Soil Boring Location Map
Figure C6 – Groundwater Monitoring Well Location Map
Figure C7 – Groundwater Gradient Map (March 2021)

The Site is located within the Buffalo Bayou Watershed and is located primarily outside the 0.2% annual chance (500 year) floodplain (**Figure C2**).

The primary chemicals of concern (COCs) are chlorinated hydrocarbons tetrachloroethene (PCE), trichloroethene (TCE), and cis-1,2-dichloroethene (cis-1,2-DCE) (**Figures C4a through C4c**).

Figure C4a through **Figure C4c** depicts the groundwater PCLE zones during the most recent sampling event (March 2021). **Figure C5** and **Figure C6** depict the locations of the soil and groundwater samples, respectively. The groundwater gradient flows to the southwest at 0.004 ft/ft (**Figure C7**).

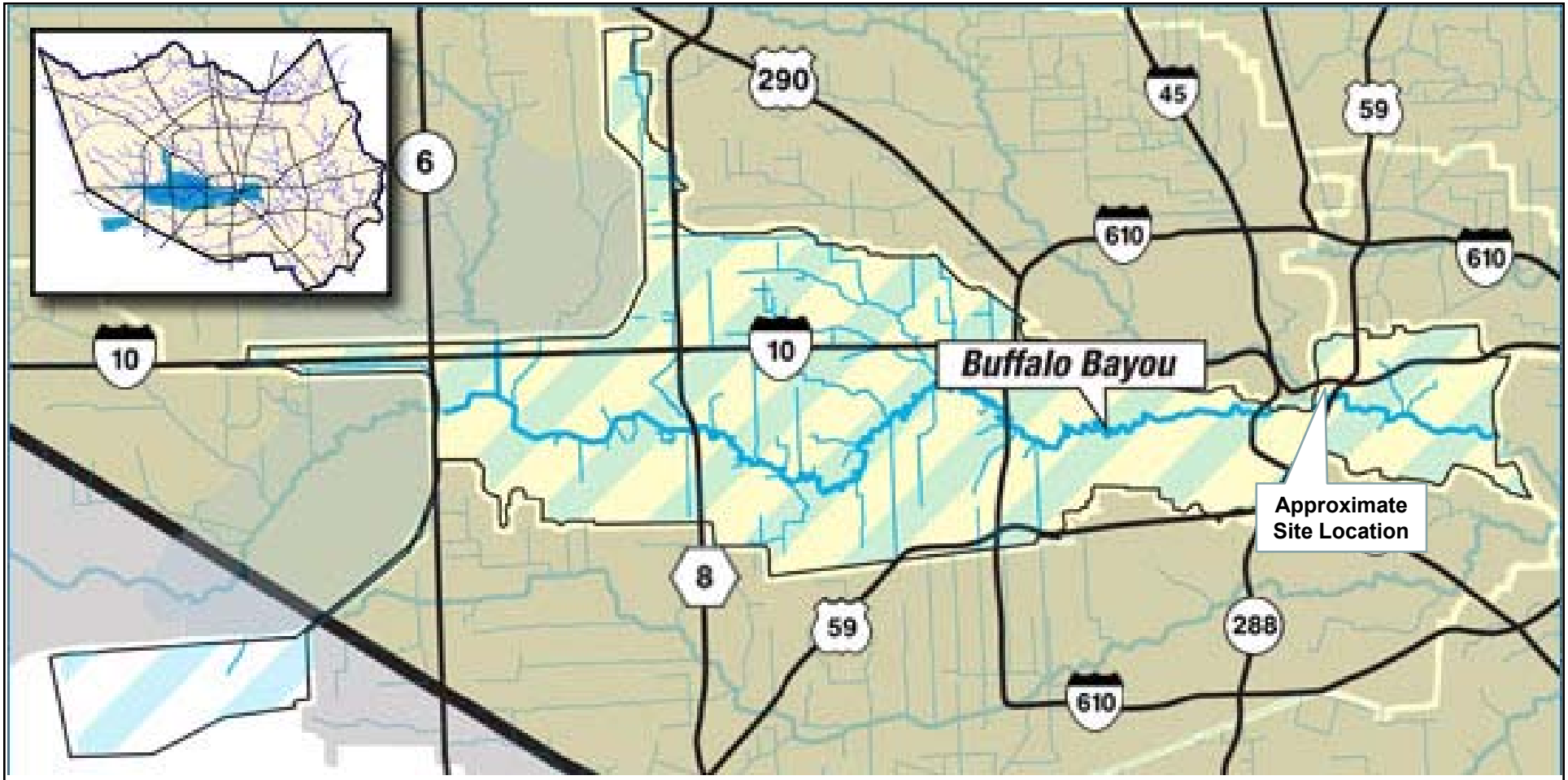
The first groundwater bearing unit is comprised of sand and is encountered at a depth of approximately 15-feet below ground surface (ft bgs) during drilling. The base of the first groundwater bearing unit is encountered at a depth of approximately 29-ft bgs and is underlain by a sandy clay. The average static depth to groundwater in the monitoring wells is 15.5-ft bgs.



InControl Technologies
14731 Pebble Bend Drive
Houston, Texas 77068
(281) 580-8892 FAX (281) 580-8853

USGS 7.5-Minute Quadrangle Site Location Map

CLIENT: Urban Genesis			PM: LMG
LOCATION: 1702 Nance Street Houston, Texas 77020			CHECKED: MFM
DETAILED: Date	DESIGNED: LMG	PROJECT NO: E20011-101	FIGURE: **C1**



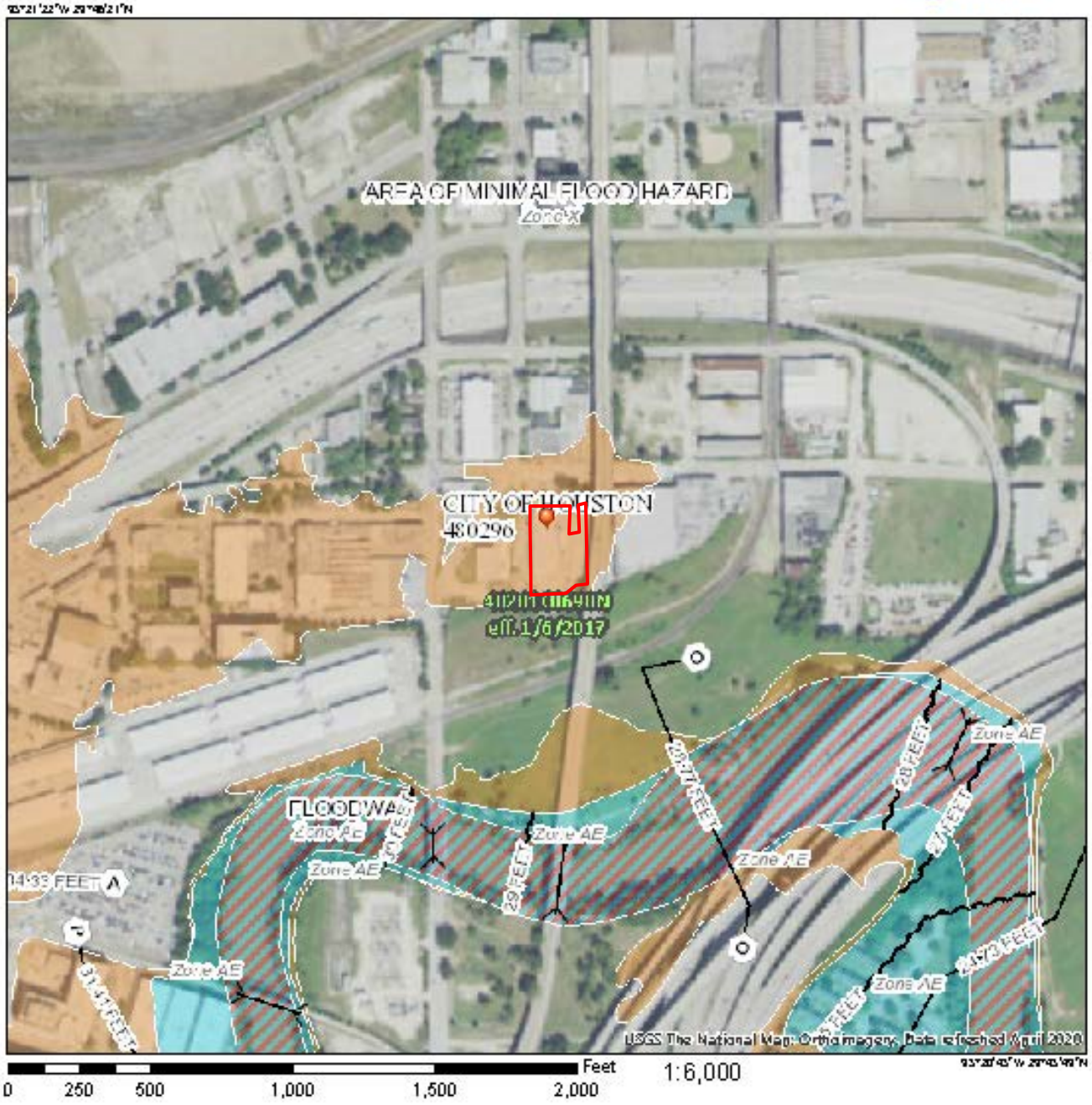
Source: Harris County Flood Control District

InControl Technologies
14731 Pebble Bend Drive
Houston, Texas 77068
(281) 580-8892 FAX (281) 580-8853

Watershed Map

CLIENT: Urban Genesis			PM: LMG
LOCATION: 1702 Nance Street Houston, Texas 77020			CHECKED: MFM
DETAILED: Date	DESIGNED: LMG	PROJECT NO: E20011-101	FIGURE: **C2**

National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

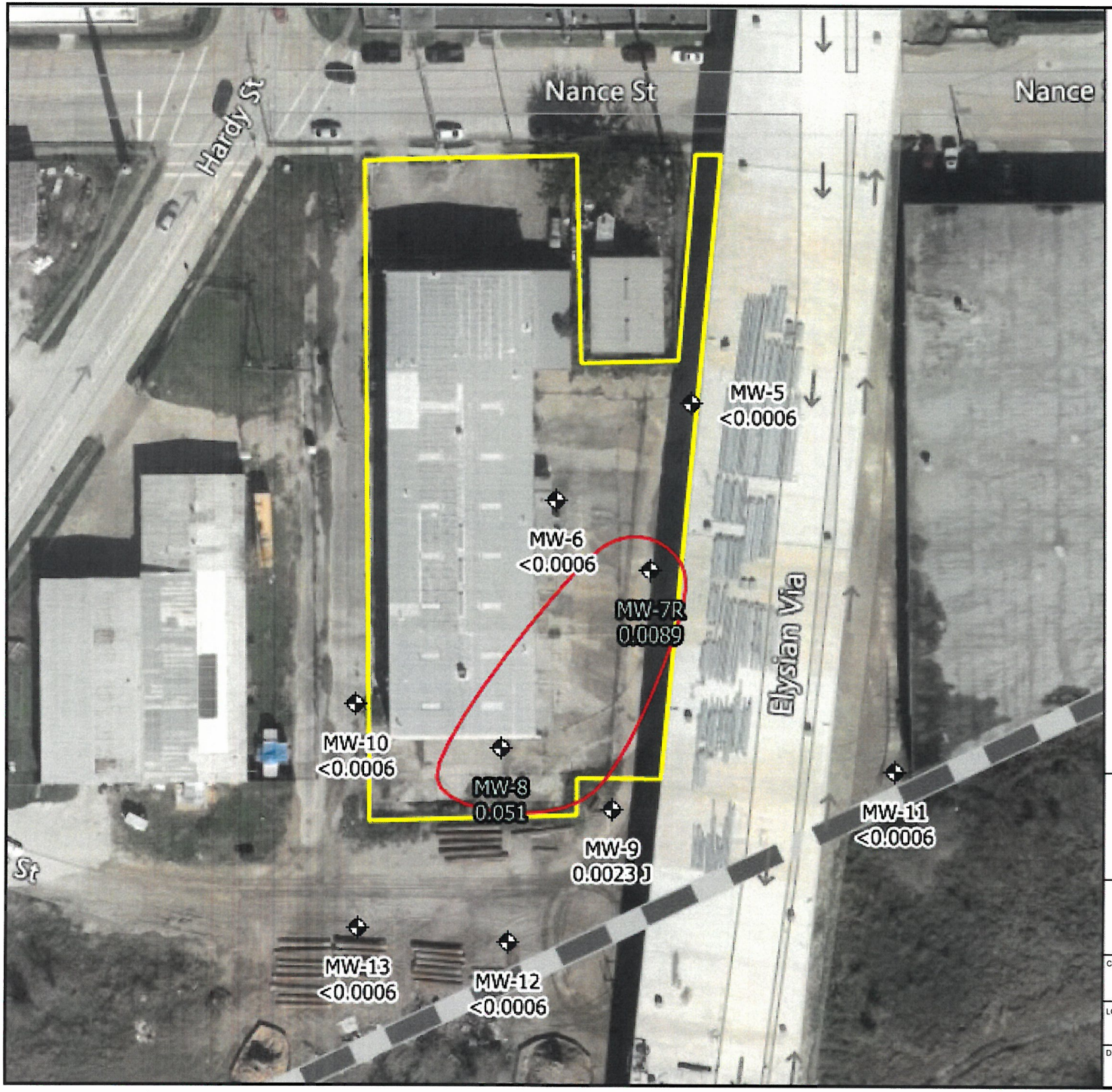
- SPECIAL FLOOD HAZARD AREAS
  - Without Base Flood Elevation (BFE)
  - With BFE or Depth
  - Regulatory Floodway
- OTHER AREAS OF FLOOD HAZARD
  - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile
  - Future Conditions 1% Annual Chance Flood Hazard
  - Area with Reduced Flood Risk due to Levee. See Notes.
  - Area with Flood Risk due to Levee
- OTHER AREAS
  - NO SCREEN: Area of Minimal Flood Hazard
  - Effective LOMRs
  - Area of Undetermined Flood Hazard
- GENERAL STRUCTURES
  - Channel, Culvert, or Storm Sewer
  - Levee, Dike, or Floodwall
- OTHER FEATURES
  - Cross Sections with 1% Annual Chance
  - Water Surface Elevation
  - Coastal Transect
  - Base Flood Elevation Line (BFE)
  - Limit of Study
  - Jurisdiction Boundary
  - Coastal Transect Baseline
  - Profile Baseline
  - Hydrographic Feature
- MAP PANELS
  - Digital Data Available
  - No Digital Data Available
  - Unmapped

Zone X **Areas determined to be outside the 0.2% annual chance floodplain**

InControl Technologies
14731 Pebble Bend Drive
Houston, Texas 77068
(281) 580-8892 FAX (281) 580-8853

Floodplain Map

CLIENT: Urban Genesis			PM: LMG
LOCATION: 1702 Nance Street Houston, Texas 77020			CHECKED: MFM
DETAILED: Date	DESIGNED: LMG	PROJECT NO: E20011-101	FIGURE: **C3**



LEGEND

- Property Boundary
- Groundwater Monitoring Well
- PCLE Zone (0.005 mg/L)

STATE OF TEXAS
MICHAEL F. MARRON
LICENSED
PROFESSIONAL GEOSCIENTIST

3/25/2021

N

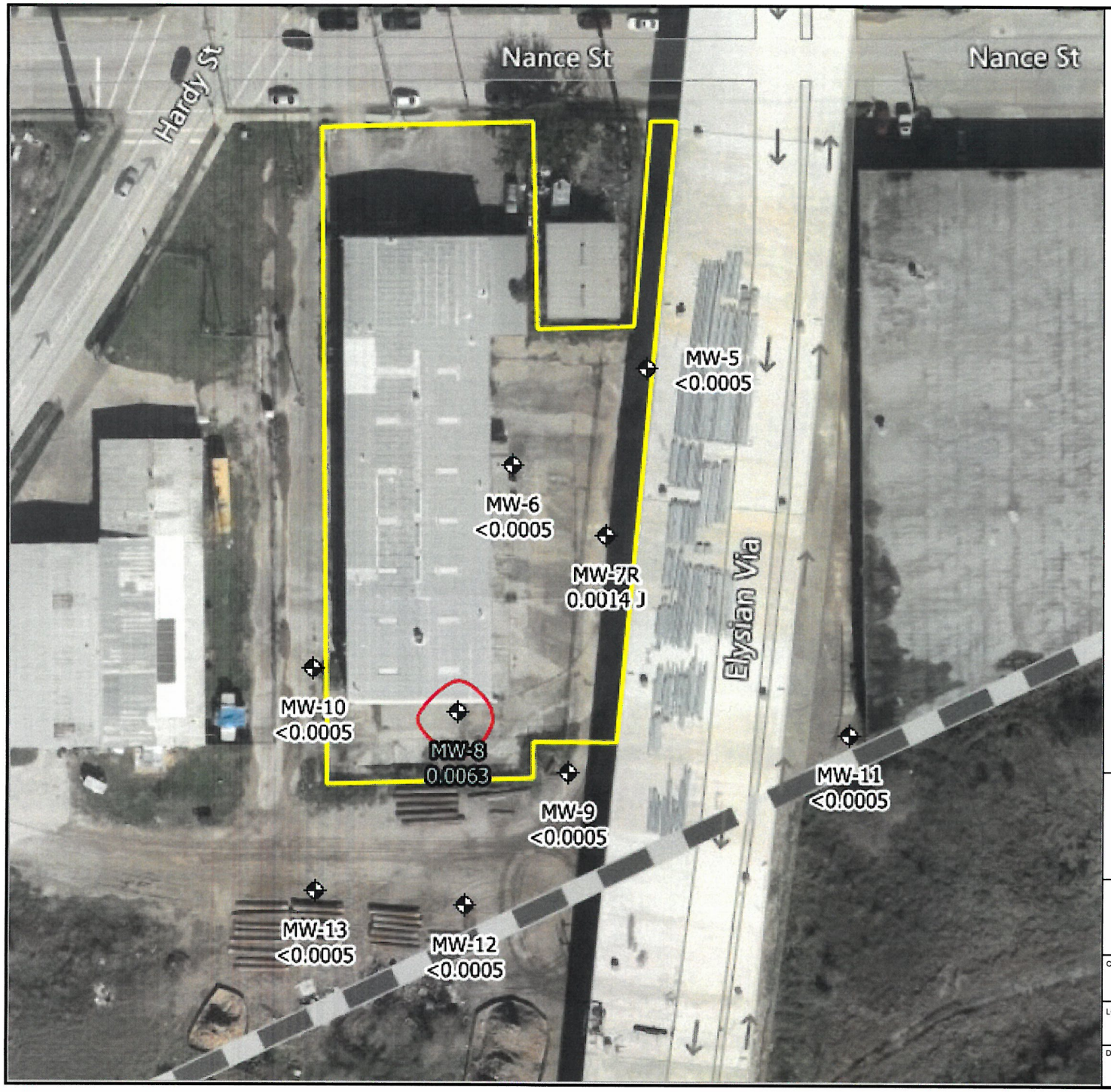
0 70 140

Approximate Scale (feet)

InControl Technologies
14731 Pebble Bend Drive
Houston, Texas 77068
(281) 580-8892 FAX (281) 580-8853

PCE in Groundwater
March 2021

CLIENT: Urban Genesis			PM: LMG
LOCATION: 1702 Nance Street, Houston, Texas 77020			CHECKED: MFM
DETAILED: 3/21/2021	DESIGNED: LMG	PROJECT NO: E20011-101	FIGURE: C4a



LEGEND

- Property Boundary
- Groundwater Monitoring Well
- PCLE Zone (0.005 mg/L)

STATE OF TEXAS
MICHAEL F. MARCON
GEOLOGY
LICENSED
PROFESSIONAL GEOSCIENTIST

3/25/2024

N

0 70 140

Approximate Scale (feet)

InControl Technologies
14731 Pebble Bend Drive
Houston, Texas 77068
(281) 580-8892 FAX (281) 580-8853

TCE in Groundwater
March 2021

CLIENT: Urban Genesis			PM: LMG
LOCATION: 1702 Nance Street, Houston, Texas 77020			CHECKED: MFM
DETAILED: 3/21/2021	DESIGNED: LMG	PROJECT NO: E20011-101	FIGURE: C4b

LEGEND

- Property Boundary
- Groundwater Monitoring Well
- PCLE Zone (0.07 mg/L)

STATE OF TEXAS
MICHAEL F. MARCON
GEOLOGY
LICENSED
PROFESSIONAL GEOSCIENTIST

3/25/2021

N

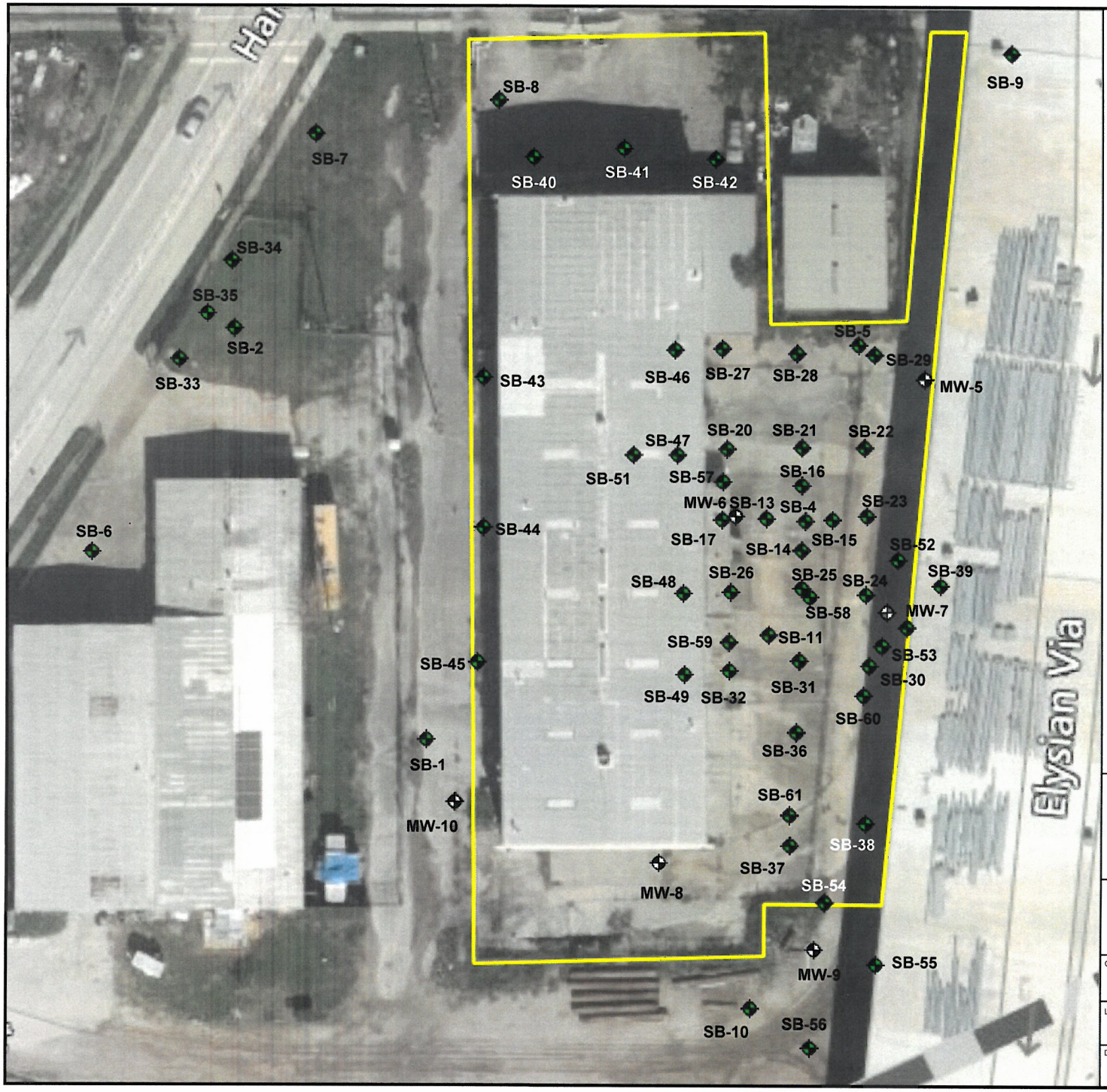
0 70 140

Approximate Scale (feet)

InControl Technologies
14731 Pebble Bend Drive
Houston, Texas 77068
(281) 580-8892 FAX (281) 580-8853

Cis-1,2-DCE in Groundwater
March 2021

CLIENT: Urban Genesis			PM: LMG
LOCATION: 1702 Nance Street, Houston, Texas 77020			CHECKED: MFM
DETAILED: 3/21/2021	DESIGNED: LMG	PROJECT NO: E20011-101	FIGURE: C4c



LEGEND

- Property Boundary
- Groundwater Monitoring Well
- Former GW Monitoring Well
- Soil Boring

STATE OF TEXAS
MICHAEL F. MARCON
GEOLOGY
2704
LICENSED
PROFESSIONAL GEOSCIENTIST
3/25/2021

N

0 50 100

Approximate Scale (feet)

InControl Technologies
14731 Pebble Bend Drive
Houston, Texas 77068
(281) 580-8892 FAX (281) 580-8853

Soil Boring Location Map

CLIENT: Urban Genesis			PM: LMG
LOCATION: 1702 Nance Street Houston, Texas 77020			CHECKED: MFM
DETAILED: 3/21/2021	DESIGNED: LMG	PROJECT NO: E20011-101	FIGURE: C5

LEGEND

- Property Boundary
- Groundwater Monitoring Well

STATE OF TEXAS
MICHAEL F. MARCON
GEOLOGY
LICENSED
PROFESSIONAL GEOSCIENTIST

3/25/2021

N

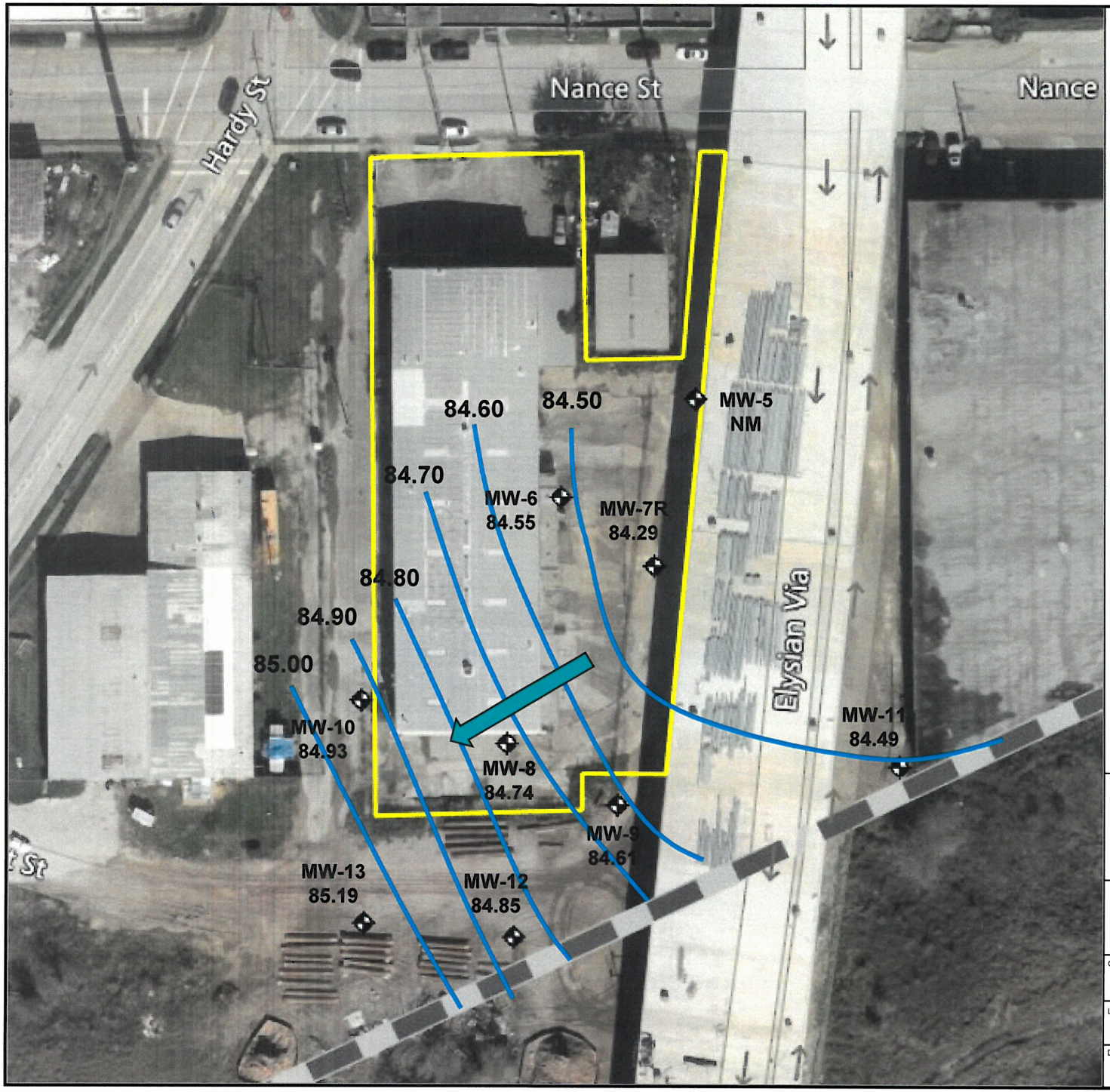
0 70 140

Approximate Scale (feet)

InControl Technologies
14731 Pebble Bend Drive
Houston, Texas 77068
(281) 580-8892 FAX (281) 580-8853

Monitoring Well Location Map

CLIENT: Urban Genesis			PM: LMG
LOCATION: 1702 Nance Street Houston, Texas 77020			CHECKED: MFM
DETAILED: 3/21/2021	DESIGNED: LMG	PROJECT NO: E20011-101	FIGURE: C6



LEGEND

- Property Boundary
- Groundwater Monitoring Well
- Gradient Contour

STATE OF TEXAS
MICHAEL F. MARCON
GEOLOGY
2704
LICENSED
PROFESSIONAL GEOSCIENTIST

3/25/2021

N

0 70 140

Approximate Scale (feet)

InControl Technologies
14731 Pebble Bend Drive
Houston, Texas 77068
(281) 580-8892 FAX (281) 580-8853

Groundwater Gradient Map
March 2021

CLIENT: Urban Genesis			PM: LMG
LOCATION: 1702 Nance Street Houston, Texas 77020			CHECKED: MFM
DETAILED: 3/21/2021	DESIGNED: LMG	PROJECT NO: E20011-101	FIGURE: C7

Appendix D

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).

Protective Concentration Level Exceedence (PCLE) Zone – A review of recent groundwater sampling data indicates that the COCs that exceed the Tier 1 $^{GW}GW_{Ing}$ PCLs are tetrachloroethene (PCE), trichloroethene (TCE), and cis-1,2-dichloroethene (cis-1,2-DCE).

The PCLE zones are depicted on **Figures C4a through C4c** and are discussed in more detail below. The area of affected groundwater has been delineated horizontally in all directions and the plume appears to be stable. The current overall PCLE zone is approximately 175-feet long by 70-ft wide. A comparison of the groundwater sampling results with applicable non-ingestion PCLs ($^{Air}GW_{Inh-V}$) indicates that none of the groundwater samples reported a COC concentration above the $^{Air}GW_{Inh-V}$ PCL. Therefore, based on the recent groundwater monitoring results, there is no non-ingestion protective concentration level exceedance zone within the proposed MSD boundary.

A comparison of the groundwater sampling results with applicable non-ingestion protective concentration levels ($^{Air}GW_{Inh-V}$) indicates that none of the groundwater samples reported any COC above a $^{Air}GW_{Inh-V}$ PCL. Therefore, based on the recent groundwater monitoring results, besides the $^{GW}GW_{Ing}$ exceedances, there are no other protective concentration level exceedance zones within the proposed MSD boundary.

The first groundwater bearing unit is comprised of sand and is encountered at a depth of approximately 15-feet below ground surface (ft bgs) during drilling. The base of the first groundwater bearing unit is encountered at a depth of approximately 29-ft bgs and is underlain by a sandy clay. The average static depth to groundwater in the monitoring wells is 15.5-ft bgs.

COC: Tetrachloroethene	
Maximum Concentration from analytical data	0.15 mg/L (MW-8; June 2020)
Ingestion-Based PCL (Residential $^{GW}GW_{Ing}$)	0.005 mg/L
Ingestion-Based PCLE Zone (approximate)	Length: 175 ft Width: 75 ft Vertical Extent: 15ft – 30ft below ground surface (bgs)
Non-Ingestion-Based PCL ($^{Air}GW_{Inh-V}$)	500 mg/L
Non-Ingestion-Based PCLE Zone	NONE
Geochemical/ Physical Properties	
Molecular Weight	165.8 g/mol
Specific Gravity	1.623
Solubility in Water	206 mg/L @ 25°C
Groundwater Migration	along groundwater gradient

COC: Trichloroethene	
Maximum Concentration from analytical data	0.022 mg/L (MW-8; June 2020)
Ingestion-Based PCL (Residential $^{GW}GW_{Ing}$)	0.005 mg/L
Ingestion-Based PCLE Zone (approximate)	Length: 35 ft Width: 35 ft Vertical Extent: 15ft – 30ft below ground surface (bgs)
Non-Ingestion-Based PCL ($^{Air}GW_{Inh-V}$)	24 mg/L
Non-Ingestion-Based PCLE Zone	NONE
Geochemical/ Physical Properties	
Molecular Weight	131.4 g/mol
Specific Gravity	1.46
Solubility in Water	soluble
Groundwater Migration	along groundwater gradient

COC: Cis-1,2-Dichloroethene	
Maximum Concentration from analytical data	0.33 mg/L (MW-8; June 2020)
Ingestion-Based PCL (Residential $^{GW}GW_{Ing}$)	0.07 mg/L
Ingestion-Based PCLE Zone (approximate)	Length: 35 ft Width: 35 ft Vertical Extent: 15ft – 30ft below ground surface (bgs)
Non-Ingestion-Based PCL ($^{Air}GW_{Inh-V}$)	1200 mg/L
Non-Ingestion-Based PCLE Zone	NONE
Geochemical/ Physical Properties	
Molecular Weight	96.96 g/mol
Specific Gravity	1.2837
Solubility in Water	6.41X10+3 mg/L at 25 °C
Groundwater Migration	along groundwater gradient

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/L units.
b. The critical protective concentration level without the municipal setting designation, highlighting any exceedences.

Appendix E contains tables summarizing the concentration levels for the primary chemicals of concern in soil and groundwater. The tables include the concentration level, the ingestion protective concentration limits ($^{GW}Soil_{Ing}$ for soil and $^{GW}GW_{Ing}$ for groundwater), the non-ingestion protective concentration limits for soil ($^{Tot}Soil_{Comb}$ and $^{Air}Soil_{Inh\text{-}V}$) and groundwater ($^{Air}GW_{Inh\text{-}V}$), the critical protective concentration limits assuming no MSD is in place ($^{GW}Soil_{Ing}$ for soil and $^{GW}GW_{Ing}$ for groundwater), and the critical PCLs assuming that an MSD is in place ($^{Tot}Soil_{Comb}$ for soil and $^{Air}GW_{Inh\text{-}V}$ for groundwater). The following is a list of the tables in **Appendix E**.

Table E1 RCRA Metals in Soil

Table E2 Volatile Organic Compounds (VOCs) in Soil

Table E3 RCRA Metals in Groundwater

Table E4 Volatile Organic Compounds (VOCs) in Groundwater

Table E1
Summary of Metals in Soil
1702 Nance Vacant Commercial Site
1702 Nance Street, Houston, TX 77020
VCP No. 3081

Sample ID	Depth	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
	(ft)		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Residential	$^{Tot}Soil_{Comb}$		**15**	**24**	**8100**	**38**	**52**	**33000**	**1300**	**500**	**8.3 ***	**840**	**310**	**97**	**5.3**	**9900**
|Background|			1	5.9	300	1.5		30	15	15	0.04	10	0.3		0.7	30
ONSITE SOIL BORING LOCATIONS																
SB-3	0.5-1.5	12/3/2019	**1.03**	**4.73**	**97.7**	**0.789**	<0.565	**15.7**	**23.7**	**108**	**0.0595**	**9.1**	**2.56**	<0.565	<0.565	**174**
	2-4	12/3/2019	<0.564	**2.48**	**105**	**0.928**	<0.564	**14.2**	**9.51**	**35.8**	**0.378**	**7.22**	**2.55**	<0.564	<0.564	**53.6**
	10-12	12/3/2019	<0.561	**1.23**	**12.5**	<0.561	<0.561	**4.29**	**1.37**	**3.56**	<0.00401	**2.31**	**1.06**	<0.561	<0.561	**5.9**
	30-32	12/3/2019	<0.564	**4.86**	**74.8**	**0.935**	<0.564	**22.1**	**9.06**	**7.97**	<0.00412	**20.1**	**2.23**	<0.564	<0.564	**37.4**
SB-4	0.5-1.5	12/3/2019	**2.72**	**6.24**	**354**	**0.762**	<0.558	**16.6**	**226**	**523**	**0.0221**	**15.4**	**2.19**	<0.558	<0.558	**765**
	2-4	12/3/2019	<0.563	**2.52**	**88.7**	**0.725**	<0.563	**16.1**	**20.7**	**34.6**	**0.0166**	**8.38**	**1.72**	<0.563	<0.563	**60.9**
	18-20	12/3/2019	<0.624	**0.986**	**60.4**	<0.624	<0.624	**8.06**	**3.52**	**8.35**	**0.012**	**4.07**	**1.39**	<0.624	<0.624	**12.6**
SB-5	0.5-1.5	12/3/2019	<0.561	**2.5**	**100**	<0.561	<0.561	**9.96**	**7.63**	**52.1**	**0.0285**	**6.23**	**1.86**	<0.561	<0.561	**47.1**
	1.5-3.5	12/3/2019	<0.549	**2.42**	**83.3**	**0.917**	<0.549	**17.1**	**10.7**	**26.2**	**0.00836**	**9.17**	**2.02**	<0.549	<0.549	**30.6**
	13-15	12/3/2019	<0.521	<0.521	**9.1**	<0.521	<0.521	**4.89**	**2.82**	**5.63**	<0.00409	**1.91**	**0.706**	<0.521	<0.521	**6.02**
	30-32	12/3/2019	<0.579	**5.8**	**90.8**	**0.855**	<0.579	**16**	**9.76**	**12.9**	**0.00423**	**16.3**	**3.85**	<0.579	<0.579	**31.8**
SB-8	0.5-1.5	12/3/2019	<0.517	**0.701**	**10.6**	<0.517	<0.517	**4.03**	**1.22**	**5.48**	<0.00377	**1.79**	**0.629**	<0.517	<0.517	**9.07**
	2-4	12/3/2019	<0.5	**0.75**	**9.94**	<0.5	<0.5	**5.36**	**0.952**	**3.98**	<0.00363	**1.95**	**0.962**	<0.5	<0.5	**6.18**
	18-20	12/3/2019	<0.539	**3.09**	**50.5**	<0.539	<0.539	**5.15**	**2.62**	**3.98**	<0.00406	**7.84**	**1.81**	<0.539	<0.539	**8.02**
SB-13	0.5-1.5	12/20/2019	-	-	-	-	-	-	-	**3360**	-	-	-	-	-	-
	2-4	12/20/2019	-	-	-	-	-	-	-	**1170**	-	-	-	-	-	-
	6-8	12/20/2019	-	-	-	-	-	-	-	**39.5**	-	-	-	-	-	-
SB-14	0.5-1.5	12/20/2019	-	-	-	-	-	-	-	**107**	-	-	-	-	-	-
	2-4	12/20/2019	-	-	-	-	-	-	-	**12.4**	-	-	-	-	-	-
	6-8	12/20/2019	-	-	-	-	-	-	-	**88.3**	-	-	-	-	-	-
SB-15	0.5-1.5	12/20/2019	-	-	-	-	-	-	-	**466**	-	-	-	-	-	-
	2-4	12/20/2019	-	-	-	-	-	-	-	**10.4**	-	-	-	-	-	-
	6-8	12/20/2019	-	-	-	-	-	-	-	**248**	-	-	-	-	-	-
SB-16	0.5-1.5	12/20/2019	-	-	-	-	-	-	-	**322**	-	-	-	-	-	-
	2-4	12/20/2019	-	-	-	-	-	-	-	**166**	-	-	-	-	-	-
	6-8	12/20/2019	-	-	-	-	-	-	-	**497**	-	-	-	-	-	-
SB-17	0.5-1.5	12/20/2019	-	-	-	-	-	-	-	**935**	-	-	-	-	-	-
	2-4	12/20/2019	-	-	-	-	-	-	-	**1120**	-	-	-	-	-	-
	6-8	12/20/2019	-	-	-	-	-	-	-	**1770**	-	-	-	-	-	-
SB-20	1-2	3/6/2020	-	**11.5**	**124**	-	**0.673**	**13.7**	-	**1270**	**0.416**	-	**1.89**	**0.582**	-	-
	4-5	3/6/2020	-	**1.86**	**34.3**	-	**0.0647 J**	**13.7**	-	**27.6**	**0.013**	-	**0.227 J**	**0.0557 J**	-	-
	8-10	3/6/2020	-	**3.12**	**113**	-	**1.03**	**9.79**	-	**700**	**0.342**	-	**0.228 J**	**0.392 J**	-	-
SB-21	1-2	3/6/2020	-	**11.9**	**142**	-	**0.356 J**	**14.1**	-	**562**	**0.201**	-	**1.4**	**0.225 J**	-	-
	3-4	3/6/2020	-	**2.6**	**128**	-	**0.0393 J**	**14.9**	-	**9.71**	**0.00326 J**	-	<0.102	**0.0171 J**	-	-
	8-10	3/6/2020	-	**2.28**	**80.6**	-	**0.947**	**14.7**	-	**172**	**0.313**	-	**0.312 J**	**0.198 J**	-	-

Table E1
Summary of Metals in Soil
1702 Nance Vacant Commercial Site
1702 Nance Street, Houston, TX 77020
VCP No. 3081

Sample ID	Depth	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
	(ft)		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Residential	$^{Tot}Soil_{Comb}$		**15**	**24**	**8100**	**38**	**52**	**33000**	**1300**	**500**	**8.3 ***	**840**	**310**	**97**	**5.3**	**9900**
|Background|			1	5.9	300	1.5		30	15	15	0.04	10	0.3		0.7	30
SB-22	2-3	3/6/2020	-	**31.4**	**113**	-	**21.2**	**14.4**	-	**23300**	**1.29**	-	**1.47**	**11.1**	-	-
	4-5	3/6/2020	-	**1.23**	**50.1**	-	**0.175 J**	**10.7**	-	**136**	**0.0531**	-	**0.185 J**	**0.0834 J**	-	-
	8-10	3/6/2020	-	**3.56**	**131**	-	**0.121 J**	**8.95**	-	**82.8**	**0.171**	-	**0.96**	**0.161 J**	-	-
SB-23	4-5	3/6/2020	-	**18.2**	**152**	-	**11.4**	**16.8**	-	**15900**	**0.716**	-	**0.896**	**7.2**	-	-
	6-7	3/6/2020	-	**1.23**	**43.7**	-	**0.802**	**9.61**	-	**453**	**0.0379**	-	**0.151 J**	**0.241 J**	-	-
	8-10	3/6/2020	-	**1.51**	**145**	-	**0.268 J**	**13.7**	-	**29.5**	**0.0337**	-	**0.417 J**	**0.0378 J**	-	-
SB-24	4-5	3/6/2020	-	**20.2**	**10600**	-	**13.4**	**50.9**	-	**6770**	**0.552**	-	<0.0993	**1.44**	-	-
	6-7	3/6/2020	-	**0.785**	**145**	-	<0.0293	**8.89**	-	**11.7**	**0.00839**	-	**0.146 J**	**0.0326 J**	-	-
	8-10	3/6/2020	-	**0.618**	**76.2**	-	<0.0296	**9.47**	-	**13.3**	**0.00741**	-	**0.105 J**	**0.0268 J**	-	-
SB-25	1-2	3/6/2020	-	**45.3**	**1060**	-	**15.6**	**48.1**	-	**29300**	**0.195**	-	**1.69**	**14.4**	-	-
	3-4	3/6/2020	-	**0.971**	**105**	-	**0.101 J**	**13.9**	-	**104**	**0.0103**	-	**0.267 J**	**0.0848 J**	-	-
	8-10	3/6/2020	-	**4.54**	**110**	-	**0.577**	**5.92**	-	**611**	**0.546**	-	**0.197 J**	**0.419 J**	-	-
SB-26	1-2	3/6/2020	-	**7.74**	**426**	-	**0.852**	**16.3**	-	**747**	**0.222**	-	**0.343 J**	**0.769**	-	-
	3-4	3/6/2020	-	**4.22**	**115**	-	**0.21 J**	**7.18**	-	**247**	**0.839**	-	**0.247 J**	**0.2 J**	-	-
	8-10	3/6/2020	-	**5.48**	**109**	-	**0.308 J**	**7.42**	-	**224**	**0.179**	-	**0.133 J**	**0.564**	-	-
SB-27	1-2	3/6/2020	-	**6.2**	**338**	-	**1.79**	**14.1**	-	**1430**	**0.261**	-	**0.334 J**	**1.58**	-	-
	3-4	3/6/2020	-	**4.46**	**355**	-	**2.03**	**16.4**	-	**1300**	**0.483**	-	**0.837**	**0.523 J**	-	-
	8-10	3/6/2020	-	**2.15**	**70.6**	-	**0.109 J**	**6.65**	-	**52.3**	**0.149**	-	**0.173 J**	**0.1 J**	-	-
SB-28	2-3	3/6/2020	-	**2.45**	**188**	-	**1.17**	**11.8**	-	**558**	**0.512**	-	**0.31 J**	**0.471 J**	-	-
	4-5	3/6/2020	-	**1.51**	**20**	-	**0.174 J**	**4.95**	-	**17.8**	**0.0357**	-	**0.11 J**	**0.0485 J**	-	-
	8-10	3/6/2020	-	**2.49**	**116**	-	**0.0334 J**	**13.9**	-	**12.3**	**0.00537**	-	**0.167 J**	**0.0282 J**	-	-
SB-29	3-4	3/6/2020	-	**32.5**	**128**	-	**25**	**19.8**	-	**33000**	**0.456**	-	**1.73**	**10.4**	-	-
	5-6	3/6/2020	-	**1.29**	**44.1**	-	**0.191 J**	**7.59**	-	**130**	**0.0442**	-	**0.135 J**	**0.0752 J**	-	-
	8-10	3/6/2020	-	**0.906**	**45.5**	-	<0.0309	**11.5**	-	**16.6**	**0.00642**	-	**0.186 J**	**0.0231 J**	-	-
SB-30	1-2	3/6/2020	-	**17.3**	**365**	-	**6.01**	**24.5**	-	**4000**	**0.192**	-	<0.196	**4.39**	-	-
	3-4	3/6/2020	-	**2.41**	**61.2**	-	**1.02**	**14.4**	-	**389**	**0.0326**	-	**0.291 J**	**0.276 J**	-	-
	8-10	3/6/2020	-	**2.86**	**85.3**	-	**0.785**	**9.99**	-	**612**	**0.14**	-	**0.21 J**	**0.264 J**	-	-
SB-31	3-4	3/6/2020	-	**3.54**	**167**	-	**0.49 J**	**11.3**	-	**379**	**0.0801**	-	**0.257 J**	**0.19 J**	-	-
	5-6	3/6/2020	-	**2.25**	**100**	-	**0.507 J**	**13.7**	-	**70.5**	**0.192**	-	**0.292 J**	**0.0873 J**	-	-
	8-10	3/6/2020	-	**2.72**	**144**	-	**0.214 J**	**12.8**	-	**305**	**0.528**	-	**0.258 J**	**0.352 J**	-	-
SB-32	1-2	3/6/2020	-	**24.5**	**420**	-	**21.8**	**15.6**	-	**28800**	**0.406**	-	**1.51**	**11.6**	-	-
	4-5	3/6/2020	-	**5.65**	**152**	-	**0.181 J**	**17.5**	-	**174**	**0.172**	-	**0.268 J**	**0.168 J**	-	-
	8-10	3/6/2020	-	**8.97**	**121**	-	**7.13**	**10.2**	-	**7270**	**0.0832**	-	**0.525 J**	**3.1**	-	-
SB-36	1-2	3/6/2020	-	**15.7**	**937**	-	**9.76**	**34.1**	-	**6230**	**0.787**	-	<0.533	**5.91**	-	-
SB-37	2-3	3/6/2020	-	**25.1**	**887**	-	**6.1**	**58.5**	-	**1920**	**0.709**	-	<0.198	**4.18**	-	-
SB-38	1-2	3/6/2020	-	**4.47**	**50**	-	**0.0576 J**	**11.9**	-	**61.5**	**0.0602**	-	**0.17 J**	**0.0398 J**	-	-

Table E1
Summary of Metals in Soil
1702 Nance Vacant Commercial Site
1702 Nance Street, Houston, TX 77020
VCP No. 3081

Sample ID	Depth	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
	(ft)		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Residential	$^{Tot}Soil_{Comb}$		**15**	**24**	**8100**	**38**	**52**	**33000**	**1300**	**500**	**8.3 ***	**840**	**310**	**97**	**5.3**	**9900**
|Background|			1	5.9	300	1.5		30	15	15	0.04	10	0.3		0.7	30
SB-40	3-4	3/30/2020	-	**0.705**	**8.69**	-	<0.0293	**4.02**	-	**4.83**	**0.00774**	-	**0.153 J**	**0.0384 J**	-	-
SB-41	3-4	3/30/2020	-	**2.15**	**40.8**	-	**0.059 J**	**9.75**	-	**9.58**	**0.0156**	-	**0.146 J**	**0.0347 J**	-	-
SB-42	3-4	3/30/2020	-	**1.04**	**26.3**	-	<0.0285	**6.79**	-	**5.91**	**0.00224 J**	-	**0.21 J**	**0.0227 J**	-	-
SB-43	3-4	3/30/2020	-	**1.36**	**54.3**	-	<0.0298	**12.1**	-	**6.7**	**0.00316 J**	-	**0.186 J**	**0.0261 J**	-	-
SB-44	3-4	3/30/2020	-	**0.533 J**	**54.3**	-	<0.0293	**9.21**	-	**7.67**	**0.00198 J**	-	**0.184 J**	**0.0218 J**	-	-
SB-45	3-4	3/30/2020	-	**1.4**	**82.1**	-	<0.0316	**14.6**	-	**8.31**	**0.00417**	-	**0.446 J**	**0.0204 J**	-	-
SB-46	2-3	4/28/2020	-	-	-	-	-	-	-	**1100**	-	-	-	-	-	-
	4-5	4/28/2020	-	-	-	-	-	-	-	**827**	-	-	-	-	-	-
SB-47	2-3	4/28/2020	-	-	-	-	-	-	-	**247**	-	-	-	-	-	-
SB-48	2-3	4/28/2020	-	-	-	-	-	-	-	**886**	-	-	-	-	-	-
	4-5	4/28/2020	-	-	-	-	-	-	-	**4750**	-	-	-	-	-	-
SB-49	2-3	4/28/2020	-	-	-	-	-	-	-	**277**	-	-	-	-	-	-
	4-5	4/28/2020	-	-	-	-	-	-	-	**267**	-	-	-	-	-	-
SB-51	2-3	4/28/2020	-	-	-	-	-	-	-	**139**	-	-	-	-	-	-
	4-5	4/28/2020	-	-	-	-	-	-	-	**655**	-	-	-	-	-	-
SB-57	12	2/12/2021								**6.41**						
SB-58	12	2/12/2021								**30.8**						
SB-59	12	2/12/2021								**76.4**						
SB-60	12	2/12/2021								**5.64**						
SB-61	12	2/12/2021		**1.26**												
MW-5	1-2	3/4/2020	-	**4.36**	**377**	-	**1.64**	**26.9**	-	**1170**	**5.01**	-	**0.54 J**	**0.598**	-	-
	2-3	3/4/2020	-	**1.57**	**44.5**	-	**0.0455 J**	**16.4**	-	**21.8**	**0.0331**	-	**0.227 J**	**0.0354 J**	-	-
	8-10	3/4/2020	-	**1.73**	**31.5**	-	<0.0327	**8.86**	-	**7.06**	**0.00438**	-	**0.128 J**	**0.0198 J**	-	-
MW-6	1-2	3/5/2020	-	**5.18**	**142**	-	**0.866**	**10.9**	-	**725**	**1.03**	-	**0.506 J**	**0.432 J**	-	-
	3-4	3/5/2020	-	**2.92**	**120**	-	**0.353 J**	**16.1**	-	**359**	**0.094**	-	**0.281 J**	**0.23 J**	-	-
	8-10	3/5/2020	-	**1.71**	**33.2**	-	**0.121 J**	**7.05**	-	**99.6**	**0.0477**	-	**0.161 J**	**0.0823 J**	-	-
MW-7	1-2	3/4/2020	-	**33.1**	**1960**	-	**5.94**	**56.1**	-	**3530**	**0.677**	-	**0.169 J**	**8.59**	-	-
	3-4	3/4/2020	-	**2.54**	**156**	-	**0.263 J**	**13.6**	-	**73.1**	**0.0448**	-	**0.192 J**	**0.195 J**	-	-
	8-10	3/4/2020	-	**0.501 J**	**14**	-	**0.295 J**	**5.64**	-	**8.12**	**0.00814**	-	<0.106	**0.0256 J**	-	-
MW-8	1-2	3/5/2020	-	**1.34**	**50.6**	-	<0.0297	**15.3**	-	**10.1**	**0.0144**	-	**0.203 J**	**0.0181 J**	-	-
	4-5	3/5/2020	-	**0.746**	**20.2**	-	<0.0294	**7.38**	-	**5.14**	**0.00371 J**	-	**0.14 J**	**0.0183 J**	-	-
	8-10	3/5/2020	-	**0.724**	**22.1**	-	<0.0294	**4.84**	-	**3.79**	**0.00431**	-	**0.111 J**	<0.0163	-	-

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Summary of Metals in Soil
1702 Nance Vacant Commercial Site
1702 Nance Street, Houston, TX 77020
VCP No. 3081

Sample ID	Depth	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
	(ft)		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Residential	$^{Tot}Soil_{Comb}$		**15**	**24**	**8100**	**38**	**52**	**33000**	**1300**	**500**	**8.3 ***	**840**	**310**	**97**	**5.3**	**9900**
|Background|			1	5.9	300	1.5		30	15	15	0.04	10	0.3		0.7	30
OFFSITE SOIL BORING LOCATIONS																
SB-1	0.5-1.5	12/3/2019	<0.578	**1.42**	**67.2**	<0.578	<0.578	**16.4**	**6.75**	**12**	**0.00524**	**6.27**	**1.66**	<0.578	<0.578	**22.2**
	2-4	12/3/2019	<0.543	**1.97**	**56.2**	**0.695**	<0.543	**12.9**	**4.44**	**7.11**	<0.00413	**6.08**	**1.71**	<0.543	<0.543	**15.5**
	12-14	12/3/2019	<0.536	**0.737**	**61.7**	<0.536	<0.536	**9.15**	**1.98**	**4.52**	<0.00401	**4.12**	**1.39**	<0.536	<0.536	**8.47**
	30-32	12/3/2019	<0.569	**10.6**	**141**	**1.29**	<0.569	**24.9**	**13.1**	**12**	<0.00413	**24.4**	**2.73**	<0.569	<0.569	**44.4**
SB-2	0.5-1.5	12/3/2019	<0.517	**1.08**	**72.7**	<0.517	<0.517	**9.09**	**2.62**	**6.39**	**0.00929**	**3.91**	**1.16**	<0.517	<0.517	**13.1**
	2-4	12/3/2019	<0.549	**2.7**	**35.3**	<0.549	<0.549	**7.59**	**9.13**	**37**	**0.0148**	**6.41**	**1.42**	<0.549	<0.549	**46.6**
	11-13	12/3/2019	<0.532	**1.99**	**13.1**	<0.532	<0.532	**2.99**	**1.97**	**4.44**	<0.00389	**1.87**	**1.31**	<0.532	<0.532	**4.31**
	30-32	12/3/2019	<0.518	**12.3**	**109**	<0.518	<0.518	**6.15**	**3.06**	**2.84**	<0.00405	**5.49**	**0.863**	<0.518	<0.518	**7.83**
SB-6	0.5-1.5	12/3/2019	<0.594	**2.13**	**40.2**	<0.594	<0.594	**15.4**	**5.4**	**9.58**	**0.00828**	**4.31**	**1.32**	<0.594	<0.594	**14.6**
	2-4	12/3/2019	<0.558	**2**	**103**	**1.03**	<0.558	**17.2**	**7.86**	**15**	**0.00488**	**6.65**	**2.55**	<0.558	<0.558	**22.4**
	18-20	12/3/2019	<0.554	**2.29**	**132**	**1**	<0.554	**10.9**	**5.02**	**20.4**	<0.00427	**15.3**	**3.05**	<0.554	<0.554	**16.3**
SB-7	0.5-1.5	12/3/2019	<0.539	**1.34**	**87.9**	<0.539	<0.539	**12.9**	**5.67**	**20.3**	**0.0311**	**4.86**	**1.64**	<0.539	<0.539	**27.6**
	2-4	12/3/2019	<0.551	**1.75**	**88.5**	<0.551	<0.551	**12.9**	**4.62**	**12.7**	**0.0115**	**5.05**	**2.01**	<0.551	<0.551	**20.6**
	18-20	12/3/2019	<0.538	**5.57**	**43**	**1.22**	<0.538	**8.28**	**4.57**	**7.86**	<0.00399	**16.5**	**18.3**	<0.538	<0.538	**14.2**
SB-9	0.5-1.5	12/3/2019	<0.514	**1.35**	**36.3**	<0.514	<0.514	**4.28**	**6**	**183**	**0.1**	**2.41**	**0.812**	<0.514	<0.514	**37**
	2-4	12/3/2019	<0.554	**1.25**	**150**	<0.554	<0.554	**9.58**	**2.82**	**7.44**	**0.00429**	**5.06**	**1.71**	<0.554	<0.554	**12**
	14-16	12/3/2019	<0.561	<0.561	**9.09**	<0.561	<0.561	**3.34**	**1.26**	**2.36**	<0.00416	**3.68**	**0.897**	<0.561	<0.561	**4.84**
SB-10	0.5-1.5	12/3/2019	<0.544	**4.39**	**83.2**	<0.544	<0.544	**9.99**	**35.4**	**58.2**	**0.265**	**6.56**	**1.53**	<0.544	<0.544	**60.7**
	4-6	12/3/2019	<0.539	**5.13**	**113**	<0.539	**0.846**	**11.5**	**28.6**	**101**	**0.108**	**6.55**	**1.33**	<0.539	<0.539	**230**
	16	12/3/2019	<0.543	<0.543	**9.44**	<0.543	<0.543	**3.01**	**1.03**	**2.69**	<0.00414	**1.18**	**0.634**	<0.543	<0.543	**3.68**
SB-33	1-2	3/6/2020	-	**1.14**	**32.9**	-	**0.35 J**	**2.13**	-	**52.8**	**0.0828**	-	<0.0936	**0.12 J**	-	-
	3-4	3/6/2020	-	**1.7**	**37.5**	-	**0.0391 J**	**10.7**	-	**9.92**	**0.0207**	-	**0.158 J**	**0.027 J**	-	-
	8-10	3/6/2020	-	**0.87**	**19.8**	-	<0.0291	**4.87**	-	**4.68**	**0.00533**	-	**0.124 J**	<0.0161	-	-
SB-34	1-2	3/6/2020	-	**0.939**	**47.1**	-	**0.121 J**	**4.24**	-	**121**	**0.0903**	-	**0.138 J**	**0.192 J**	-	-
	3-4	3/6/2020	-	**1.2**	**25**	-	<0.0295	**13.5**	-	**9.21**	**0.00387 J**	-	**0.336 J**	<0.0164	-	-
	8-10	3/6/2020	-	**0.548 J**	**19**	-	<0.0301	**8.99**	-	**6.36**	**0.00178 J**	-	**0.115 J**	<0.0167	-	-
SB-35	1-2	3/6/2020	-	**2.03**	**122**	-	**0.358 J**	**5.29**	-	**349**	**0.894**	-	<0.0951	**0.197 J**	-	-
	3-4	3/6/2020	-	**1.25**	**34**	-	<0.0299	**13**	-	**8.86**	**0.00406**	-	**0.239 J**	<0.0166	-	-
	8-10	3/6/2020	-	**0.307 J**	**13**	-	<0.0284	**7.67**	-	**3.39**	**0.00327 J**	-	<0.0956	<0.0158	-	-
SB-39	1-2	3/6/2020	-	**4.7**	**70.4**	-	**0.41 J**	**5.58**	-	**282**	**0.205**	-	**0.113 J**	**0.109 J**	-	-
MW-9	1-2	3/4/2020	-	**18.9**	**768**	-	**3.39**	**38.6**	-	**3720**	**0.598**	-	**0.199 J**	**3.79**	-	-
	4-5	3/4/2020	-	**2.1**	**104**	-	**0.0773 J**	**10.5**	-	**70.2**	**0.192**	-	**0.258 J**	**0.0986 J**	-	-
	8-10	3/4/2020	-	**1.9**	**83.6**	-	**0.219 J**	**7.09**	-	**146**	**0.446**	-	**0.268 J**	**0.148 J**	-	-

Table E1
Summary of Metals in Soil
1702 Nance Vacant Commercial Site
1702 Nance Street, Houston, TX 77020
VCP No. 3081

Sample ID	Depth	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
	(ft)		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Residential	$^{Tot}Soil_{Comb}$		**15**	**24**	**8100**	**38**	**52**	**33000**	**1300**	**500**	**8.3 ***	**840**	**310**	**97**	**5.3**	**9900**
	|Background|		1	5.9	300	1.5		30	15	15	0.04	10	0.3		0.7	30
MW-10	3-4	3/30/2020	-	**1.88**	**71.6**	-	<0.0295	**14.4**	-	**7.44**	**0.0082**	-	**0.457 J**	**0.0413 J**	-	-
	8-10	3/30/2020	-	**0.681**	**21.3**	-	<0.0306	**3.6**	-	**4.49**	**0.00303 J**	-	<0.103	**0.0305 J**	-	-
MW-11	4-5	3/30/2020	-	**20.4**	**238**	-	**1.49**	**24.7**	-	**826**	**0.271**	-	**0.415 J**	**0.53**	-	-
	10-11	3/30/2020	-	**1.56**	**32.4**	-	<0.0303	**5.06**	-	**26.6**	**0.0395**	-	**0.153 J**	**0.049 J**	-	-
	14-15	3/30/2020	-	**0.621**	**33.4**	-	<0.0297	**12.5**	-	**11.1**	**0.00408 J**	-	**0.157 J**	**0.0219 J**	-	-

Notes: Exceeds $^{Tot}Soil_{Comb}$

<: Analyte was not detected at or above the reported sample detection limit

J: Analyte was detected at the concentration less than the method detection limit

* Sample SB-13 (0.5-1.5) was analyzed for pH. This sample reported a pH of 9.81. The Total Soil Combined PCL for mercury was elevated from 3.6 mg/kg to 8.3 mg/kg.

Table E2
Summary of Volatile Organic Compounds in Soil
1702 Nance Vacant Commercial Site
1702 Nance Street, Houston, TX 77020
VCP No. 3081

Sample ID	Depth	Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride	1,1-Dichloroethene	Acetone	Benzene	Carbon disulfide	Methyl acetate	Naphthalene	Toluene
	(ft)		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Residential	$^{Tot}Soil_{Comb}$		710	18	140	590	3.7	2300	66000	120	4600	82000	220	5900
Residential	$^{GW}Soil_{Ing}$		**0.05**	**0.034**	**0.25**	**0.49**	**0.022**	**0.05**	**43**	**0.026**	**14**	**49**	**31**	**8.2**
ONSITE BORING LOCATIONS														
SB-3	0.5-1.5	12/3/2019	**0.022**	<0.0051	<0.0051	<0.0051	<0.0021	<0.0051	<0.021	<0.0051	<0.01	<0.0051	-	<0.0051
	2-4	12/3/2019	**0.025**	<0.0048	<0.0048	<0.0048	<0.0019	<0.0048	<0.019	<0.0048	<0.0097	<0.0048	-	<0.0048
	10-12	12/3/2019	<0.0046	<0.0046	<0.0046	<0.0046	<0.0018	<0.0046	<0.018	<0.0046	<0.0092	<0.0046	-	<0.0046
	30-32	12/3/2019	<0.0046	<0.0046	<0.0046	<0.0046	<0.0018	<0.0046	<0.018	<0.0046	<0.0092	<0.0046	-	<0.0046
SB-4	0.5-1.5	12/3/2019	<0.0051	<0.0051	<0.0051	<0.0051	<0.002	<0.0051	<0.02	<0.0051	<0.01	<0.0051	-	<0.0051
	2-4	12/3/2019	<0.0052	<0.0052	<0.0052	<0.0052	<0.0021	<0.0052	<0.021	<0.0052	<0.01	<0.0052	-	<0.0052
	18-20	12/3/2019	<0.0055	<0.0055	<0.0055	<0.0055	<0.0022	<0.0055	<0.022	<0.0055	<0.011	<0.0055	-	<0.0055
SB-5	0.5-1.5	12/3/2019	<0.0046	<0.0046	<0.0046	<0.0046	<0.0019	<0.0046	<0.019	<0.0046	<0.0093	<0.0046	-	<0.0046
	1.5-3.5	12/3/2019	<0.0051	<0.0051	<0.0051	<0.0051	<0.002	<0.0051	<0.02	<0.0051	<0.01	<0.0051	-	<0.0051
	13-15	12/3/2019	<0.0044	<0.0044	<0.0044	<0.0044	<0.0018	<0.0044	<0.018	<0.0044	<0.0088	<0.0044	-	<0.0044
	30-32	12/3/2019	<0.0044	<0.0044	<0.0044	<0.0044	<0.0018	<0.0044	<0.018	<0.0044	<0.0089	<0.0044	-	<0.0044
SB-8	0.5-1.5	12/3/2019	<0.0043	<0.0043	<0.0043	<0.0043	<0.0017	<0.0043	<0.017	<0.0043	<0.0085	<0.0043	-	<0.0043
	2-4	12/3/2019	<0.0042	<0.0042	<0.0042	<0.0042	<0.0017	<0.0042	<0.017	<0.0042	<0.0085	<0.0042	-	<0.0042
	18-20	12/3/2019	<0.0046	<0.0046	<0.0046	<0.0046	<0.0018	<0.0046	<0.018	<0.0046	<0.0091	<0.0046	-	<0.0046
SB-11	0.5-1.5	12/20/2019	<0.0044	<0.0044	<0.0044	<0.0044	<0.0018	<0.0044	<0.018	<0.0044	<0.0089	<0.0044	-	<0.0044
	2-4	12/20/2019	**0.0056**	<0.0044	<0.0044	<0.0044	<0.0017	<0.0044	<0.017	<0.0044	<0.0087	<0.0044	-	<0.0044
	12-14	12/20/2019	**0.017**	<0.0055	<0.0055	<0.0055	<0.0022	<0.0055	<0.022	<0.0055	<0.011	<0.0055	-	<0.0055
	30-32	12/20/2019	<0.0045	<0.0045	<0.0045	<0.0045	<0.0018	<0.0045	<0.018	<0.0045	<0.0091	<0.0045	-	<0.0045
MW-5	1-2	3/4/2020	<0.00068	<0.00058	<0.00077	<0.00048	<0.00077	<0.00048	<0.0019	<0.00048	<0.00058	NAF	**0.13**	<0.00058
	2-3	3/4/2020	<0.00066	<0.00056	<0.00075	<0.00047	<0.00075	<0.00047	<0.0019	<0.00047	<0.00056	NAF	<0.00075	<0.00056
	8-10	3/4/2020	<0.00072	<0.00062	<0.00082	<0.00051	<0.00082	<0.00051	<0.002	<0.00051	<0.00062	NAF	<0.00082	<0.00062
MW-6	1-2	3/5/2020	<0.00094	<0.0008	<0.0011	<0.00067	<0.0011	<0.00067	<0.0027	<0.00067	<0.0008	NAF	<0.0011	<0.0008
	3-4	3/5/2020	**0.0012 J**	<0.00064	<0.00085	<0.00053	<0.00085	<0.00053	<0.0021	<0.00053	<0.00064	NAF	<0.00085	<0.00064
	8-10	3/5/2020	<0.00065	<0.00056	<0.00074	<0.00046	<0.00074	<0.00046	<0.0019	<0.00046	<0.00056	NAF	<0.00074	**0.0016 J**
MW-7	1-2	3/4/2020	**0.19**	<0.00085	<0.0011	<0.00071	<0.0011	<0.00071	<0.0028	**0.0022 J**	<0.00085	NAF	<0.0011	**0.0019 J**
	3-4	3/4/2020	**0.0053**	<0.0006	<0.0008	<0.0005	<0.0008	<0.0005	<0.002	<0.0005	<0.0006	NAF	<0.0008	<0.0006
	8-10	3/4/2020	**0.0013 J**	<0.00063	<0.00083	<0.00052	<0.00083	<0.00052	<0.0021	<0.00052	<0.00063	NAF	<0.00083	<0.00063
MW-8	1-2	3/5/2020	**0.021**	**0.0018 J**	**0.0013 J**	<0.00048	<0.00076	<0.00048	<0.0019	<0.00048	<0.00057	NAF	<0.00076	<0.00057
	4-5	3/5/2020	**0.0022 J**	<0.00056	<0.00074	<0.00046	<0.00074	<0.00046	<0.0019	<0.00046	<0.00056	NAF	<0.00074	<0.00056
	8-10	3/5/2020	<0.0007	<0.0006	**0.0015 J**	<0.0005	<0.0008	<0.0005	<0.002	<0.0005	<0.0006	NAF	<0.0008	<0.0006

Table E2
Summary of Volatile Organic Compounds in Soil
1702 Nance Vacant Commercial Site
1702 Nance Street, Houston, TX 77020
VCP No. 3081

Sample ID	Depth	Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride	1,1-Dichloroethene	Acetone	Benzene	Carbon disulfide	Methyl acetate	Naphthalene	Toluene
	(ft)		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Residential	$^{Tot}Soil_{Comb}$		710	18	140	590	3.7	2300	66000	120	4600	82000	220	5900
Residential	$^{GW}Soil_{Ing}$		**0.05**	**0.034**	**0.25**	**0.49**	**0.022**	**0.05**	**43**	**0.026**	**14**	**49**	**31**	**8.2**
OFFSITE BORING LOCATIONS														
SB-1	0.5-1.5	12/3/2019	<0.0047	<0.0047	<0.0047	<0.0047	<0.0019	<0.0047	<0.019	<0.0047	<0.0093	<0.0047	-	<0.0047
	2-4	12/3/2019	<0.0047	<0.0047	<0.0047	<0.0047	<0.0019	<0.0047	<0.019	<0.0047	<0.0093	<0.0047	-	<0.0047
	12-14	12/3/2019	<0.0049	<0.0049	<0.0049	<0.0049	<0.002	<0.0049	<0.02	<0.0049	<0.0099	<0.0049	-	<0.0049
	30-32	12/3/2019	<0.0045	<0.0045	<0.0045	<0.0045	<0.0018	<0.0045	<0.018	<0.0045	<0.0089	<0.0045	-	<0.0045
SB-2	0.5-1.5	12/3/2019	<0.0048	<0.0048	<0.0048	<0.0048	<0.0019	<0.0048	<0.019	<0.0048	<0.0096	**0.0067**	-	<0.0048
	2-4	12/3/2019	<0.0045	<0.0045	<0.0045	<0.0045	<0.0018	<0.0045	<0.018	<0.0045	<0.009	<0.0045	-	<0.0045
	11-13	12/3/2019	<0.0053	<0.0053	<0.0053	<0.0053	<0.0021	<0.0053	<0.021	<0.0053	<0.011	<0.0053	-	<0.0053
	30-32	12/3/2019	<0.0043	<0.0043	<0.0043	<0.0043	<0.0017	<0.0043	<0.017	<0.0043	<0.0087	<0.0043	-	<0.0043
SB-6	0.5-1.5	12/3/2019	<0.0046	<0.0046	<0.0046	<0.0046	<0.0018	<0.0046	**0.032**	<0.0046	<0.0091	<0.0046	-	<0.0046
	2-4	12/3/2019	<0.0044	<0.0044	<0.0044	<0.0044	<0.0018	<0.0044	**0.047**	<0.0044	<0.0088	<0.0044	-	<0.0044
	18-20	12/3/2019	<0.0049	<0.0049	<0.0049	<0.0049	<0.002	<0.0049	<0.02	<0.0049	<0.0098	<0.0049	-	<0.0049
SB-7	0.5-1.5	12/3/2019	<0.0045	<0.0045	<0.0045	<0.0045	<0.0018	<0.0045	<0.018	<0.0045	<0.009	<0.0045	-	<0.0045
	2-4	12/3/2019	<0.0046	<0.0046	<0.0046	<0.0046	<0.0018	<0.0046	<0.018	<0.0046	<0.0091	<0.0046	-	<0.0046
	18-20	12/3/2019	<0.0045	<0.0045	<0.0045	<0.0045	<0.0018	<0.0045	<0.018	<0.0045	<0.0089	<0.0045	-	<0.0045
SB-9	0.5-1.5	12/3/2019	**0.009**	<0.0048	<0.0048	<0.0048	<0.0019	<0.0048	<0.019	<0.0048	<0.0097	<0.0048	-	<0.0048
	2-4	12/3/2019	**0.0065**	<0.0046	<0.0046	<0.0046	<0.0018	<0.0046	<0.018	<0.0046	<0.0091	<0.0046	-	<0.0046
	14-16	12/3/2019	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005	<0.02	<0.005	<0.01	<0.005	-	<0.005
SB-10	0.5-1.5	12/3/2019	**0.13**	<0.0047	<0.0047	<0.0047	<0.0019	<0.0047	<0.019	<0.0047	<0.0094	<0.0047	-	<0.0047
	4-6	12/3/2019	**0.19**	<0.0048	<0.0048	<0.0048	<0.0019	<0.0048	<0.019	<0.0048	<0.0097	<0.0048	-	<0.0048
	14-16	12/3/2019	**0.015**	<0.0043	<0.0043	<0.0043	<0.0017	<0.0043	<0.017	<0.0043	<0.0086	<0.0043	-	<0.0043
SB-12	0.5-1.5	12/20/2019	**0.047**	<0.0053	<0.0053	<0.0053	<0.0021	<0.0053	<0.021	<0.0053	<0.011	<0.0053	-	<0.0053
	2-4	12/20/2019	**0.033**	<0.0046	<0.0046	<0.0046	<0.0018	<0.0046	<0.018	<0.0046	<0.0092	<0.0046	-	<0.0046
	12-14	12/20/2019	<0.0054	<0.0054	<0.0054	<0.0054	<0.0021	<0.0054	<0.021	<0.0054	<0.011	<0.0054	-	<0.0054
	30-32	12/20/2019	<0.0044	<0.0044	<0.0044	<0.0044	<0.0017	<0.0044	<0.017	<0.0044	<0.0087	<0.0044	-	<0.0044
SB-52	5	2/12/2021	<0.0008	<0.00069	<0.00092	<0.00057	<0.00092	<0.00057	NAF	NAF	NAF	NAF	NAF	NAF
SB-53	5	2/12/2021	<0.00065	<0.00056	<0.00075	<0.00047	<0.00075	<0.00047	NAF	NAF	NAF	NAF	NAF	NAF
SB-54	5	2/12/2021	**0.075**	**0.0014 J**	<0.00076	<0.00047	<0.00076	<0.00047	NAF	NAF	NAF	NAF	NAF	NAF
SB-55	5	2/12/2021	<0.0007	<0.0006	<0.0008	<0.0005	<0.0008	<0.0005	NAF	NAF	NAF	NAF	NAF	NAF
SB-56	5	2/12/2021	**0.0054 J**	<0.00066	<0.00087	<0.00055	<0.00087	<0.00055	NAF	NAF	NAF	NAF	NAF	NAF

Table E2
Summary of Volatile Organic Compounds in Soil
1702 Nance Vacant Commercial Site
1702 Nance Street, Houston, TX 77020
VCP No. 3081

Sample ID	Depth	Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride	1,1-Dichloroethene	Acetone	Benzene	Carbon disulfide	Methyl acetate	Naphthalene	Toluene
	(ft)		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Residential	$^{Tot}Soil_{Comb}$		710	18	140	590	3.7	2300	66000	120	4600	82000	220	5900
Residential	$^{GW}Soil_{Ing}$		**0.05**	**0.034**	**0.25**	**0.49**	**0.022**	**0.05**	**43**	**0.026**	**14**	**49**	**31**	**8.2**
MW-9	1-2	3/4/2020	**0.12**	**0.0024 J**	<0.00079	<0.0005	<0.00079	<0.0005	<0.002	<0.0005	<0.0006	NAF	<0.00079	<0.0006
	4-5	3/4/2020	**0.029**	<0.00058	<0.00077	<0.00048	<0.00077	<0.00048	<0.0019	<0.00048	<0.00058	NAF	<0.00077	<0.00058
	8-10	3/4/2020	**0.042**	**0.0057 J**	**0.0015 J**	<0.00064	<0.001	<0.00064	<0.0025	<0.00064	<0.00076	NAF	<0.001	<0.00076
MW-10	3-4	3/30/2020	<0.00073	<0.00063	<0.00084	<0.00052	<0.00084	<0.00052	<0.0021	<0.00052	<0.00063	NAF	<0.00084	<0.00063
	8-10	3/30/2020	<0.00068	<0.00059	<0.00078	<0.00049	<0.00078	<0.00049	<0.002	<0.00049	<0.00059	NAF	<0.00078	<0.00059
MW-11	4-5	3/30/2020	**0.012**	<0.00071	<0.00094	<0.00059	<0.00094	<0.00059	<0.0024	**0.0012 J**	**0.012**	NAF	**0.19**	<0.00071
	10-11	3/30/2020	<0.00073	<0.00062	<0.00083	<0.00052	<0.00083	<0.00052	<0.0021	<0.00052	<0.00062	NAF	<0.00083	<0.00062
	14-15	3/30/2020	<0.00063	<0.00054	<0.00072	<0.00045	<0.00072	<0.00045	<0.0018	<0.00045	<0.00054	NAF	<0.00072	<0.00054

Notes: Exceeds $^{GW}Soil_{Ing}$
<: Analyte was not detected at or above the reported sample detection limit
J: Analyte was detected at the concentration less than the method detection limit
NAF: Not Analyzed For

Table E3
Summary of Metals in Groundwater
1702 Nance Vacant Commercial Site
1702 Nance Street, Houston, TX 77020
VCP No. 3081

Sample ID	Date	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Residential	$^{GW}GW_{Ing}$	**0.01**	**2**	**0.005**	**0.1**	**0.015**	**0.002**	**0.05**	**0.12**
Residential	$^{Air}GW_{Inh-V}$						7.3		
MW-5	3/9/2020	**0.00247**	**0.192**	<0.0002	<0.0004	<0.0006	<0.00003	<0.0011	<0.0002
	6/29/2020	**0.00201**	**0.176**	<0.0002	<0.0004	<0.0006	<0.00003	**0.0101**	<0.0002
	9/21/2020	**0.00174 J**	**0.174**	<0.0002	<0.0004	<0.0006	<0.00003	**0.0184**	<0.0002
	12/11/2020	**0.00191 J**	**0.164**	<0.0002	<0.0004	**0.000714 J**	**0.000764**	**0.0303**	**0.000209 J**
	3/9/2021	**0.00146 J**	**0.17**	<0.0002	<0.0004	<0.0006	**0.000093 J**	**0.028**	<0.0002
MW-6	3/9/2020	**0.00101 J**	**0.296**	<0.0002	<0.0004	<0.0006	**0.00007 J**	**0.00615**	<0.0002
	6/24/2020	**0.0139**	**0.638**	<0.0002	<0.0004	<0.0006	<0.00003	**0.0018 J**	<0.0002
	9/18/2020	**0.0032**	**0.336**	<0.0002	<0.0004	<0.0006	<0.00003	**0.00212**	<0.0002
	12/11/2020	**0.00533**	**0.362**	<0.0002	<0.0004	<0.0006	**0.000037 J**	**0.00409**	<0.0002
	3/4/2021	**0.00359**	**0.253**	<0.0002	<0.0004	<0.0006	<0.00003	**0.00354**	<0.0002
MW-7	3/9/2020	**0.000591 J**	**0.195**	**0.000365 J**	**0.00069 J**	**0.00126 J**	**0.000112 J**	**0.00388**	<0.0002
	6/29/2020	**0.00263**	**0.31**	**0.000356 J**	**0.0067**	**0.054**	<0.00003	**0.0052**	<0.0002
	9/15/2020	-	-	-	-	**0.00195 J**	-	-	-
	9/18/2020	**0.000677 J**	**0.246**	<0.0002	**0.000417 J**	**0.00352**	<0.00003	**0.00363**	<0.0002
	12/11/2020	**0.00354**	**0.35**	**0.000294 J**	**0.00304 J**	**0.0281**	**0.000075 J**	**0.00542**	<0.0002
MW-7R	3/4/2021	**0.00082 J**	**0.183**	<0.0002	<0.0004	<0.0006	<0.00003	**0.00706**	<0.0002
MW-8	3/9/2020	**0.008**	**0.336**	**0.000281 J**	**0.0197**	**0.0372**	**0.000119 J**	**0.0137**	<0.0002
	3/30/2020	**0.000438 J**	**0.132**	<0.0002	<0.0004	<0.0006	<0.00003	**0.00752**	<0.0002
	6/24/2020	**0.000678 J**	**0.181**	<0.0002	<0.0004	<0.0006	<0.00003	**0.0227**	<0.0002
	9/18/2020	<0.0004	**0.133**	<0.0002	<0.0004	<0.0006	<0.00003	**0.0132**	<0.0002
	12/11/2020	**0.000553 J**	**0.159**	<0.0002	<0.0004	<0.0006	**0.000196 J**	**0.00603**	<0.0002
	3/4/2021	**0.000474 J**	**0.153**	<0.0002	<0.0004	<0.0006	**0.000118 J**	**0.00956**	<0.0002
	3/4/2021	**0.000453 J**	**0.138**	<0.0002	<0.0004	<0.0006	**0.000093 J**	**0.00924**	<0.0002
MW-9	3/9/2020	<0.0004	**0.165**	<0.0002	<0.0004	<0.0006	<0.00003	**0.00336**	<0.0002
	6/24/2020	**0.00042 J**	**0.218**	<0.0002	**0.00148 J**	<0.0006	<0.00003	<0.0011	<0.0002
	9/18/2020	**0.000549 J**	**0.19**	<0.0002	**0.00646**	<0.0006	<0.00003	**0.00126 J**	<0.0002
	12/11/2020	**0.000516 J**	**0.244**	<0.0002	<0.0004	<0.0006	**0.000483**	**0.00214**	<0.0002
	3/4/2021	**0.000422 J**	**0.221**	<0.0002	<0.0004	<0.0006	<0.00003	**0.00215**	<0.0002
MW-10	3/31/2020	**0.000444 J**	**0.114**	<0.0002	<0.0004	**0.000869 J**	<0.00003	<0.0011	<0.0002
	6/24/2020	**0.000823 J**	**0.19**	<0.0002	**0.000409 J**	<0.0006	<0.00003	<0.0011	<0.0002
	9/18/2020	**0.000589 J**	**0.126**	<0.0002	<0.0004	<0.0006	<0.00003	<0.0011	<0.0002
	12/11/2020	**0.000509 J**	**0.162**	<0.0002	<0.0004	<0.0006	<0.00003	<0.0011	<0.0002
	3/4/2021	<0.0004	**0.124**	<0.0002	<0.0004	**0.0115**	<0.00003	**0.00187 J**	<0.0002
MW-11	3/31/2020	**0.00138 J**	**0.211**	<0.0002	**0.000871 J**	**0.00208**	<0.00003	<0.0011	<0.0002
	6/24/2020	**0.00284**	**0.237**	<0.0002	**0.000557 J**	**0.000609 J**	<0.00003	<0.0011	<0.0002
	9/18/2020	**0.00219**	**0.162**	<0.0002	<0.0004	<0.0006	<0.00003	<0.0011	<0.0002
	12/11/2020	**0.00154 J**	**0.204**	<0.0002	**0.00124 J**	**0.00519**	**0.000033 J**	<0.0011	<0.0002
	3/4/2021	**0.00153 J**	**0.225**	<0.0002	<0.0004	<0.0006	<0.00003	**0.0018 J**	<0.0002

Table E3
Summary of Metals in Groundwater
1702 Nance Vacant Commercial Site
1702 Nance Street, Houston, TX 77020
VCP No. 3081

Sample ID	Date	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Residential	$^{GW}GW_{Ing}$	**0.01**	**2**	**0.005**	**0.1**	**0.015**	**0.002**	**0.05**	**0.12**
Residential	$^{Air}GW_{Inh-V}$						7.3		
MW-12	8/21/2020	**0.00081 J**	**0.118**	<0.0002	**0.0259**	<0.0006	**0.000039 J**	<0.0011	<0.0002
	9/18/2020	**0.000745 J**	**0.122**	<0.0002	<0.0004	<0.0006	<0.00003	<0.0011	<0.0002
	12/11/2020	**0.000857 J**	**0.109**	**0.000223 J**	<0.0004	<0.0006	<0.00003	<0.0011	<0.0002
	3/4/2021	**0.000647 J**	**0.118**	<0.0002	<0.0004	<0.0006	<0.00003	<0.0011	<0.0002
MW-13	3/4/2021	**0.000996 J**	**0.221**	<0.0002	<0.0004	<0.0006	<0.00003	<0.0011	<0.0002

Notes: Exceeds $^{GW}GW_{Ing}$

<: Analyte was not detected at or above the reported sample detection limit

J: Analyte was detected at the concentration less than the method detection limit

Table E4
Summary of Volatile Organic Compounds in Groundwater
1702 Nance Vacant Commercial Site
1702 Nance Street, Houston, TX 77020
VCP No. 3081

Sample ID	Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride	1,1-Dichloroethene	1,1-Dichloroethane
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Residential	$^{GW}GW_{Ing}$	**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**	**4.9**
Residential	$^{Air}GW_{Inh-V}$	500	24	1200	770	3.8	1700	43000
MW-5	3/9/2020	**0.00081 J**	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	6/29/2020	**0.00063 J**	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	9/21/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	12/11/2020	**0.00063 J**	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	3/9/2021	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
MW-6	3/9/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	6/24/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	9/18/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	12/11/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	3/4/2021	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
MW-7	3/9/2020	**0.0098**	**0.0019 J**	**0.0026 J**	<0.0004	<0.0004	<0.0005	<0.0004
	6/29/2020	**0.013**	**0.0014**	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	9/18/2020	**0.01**	**0.0011 J**	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	12/11/2020	**0.0071**	**0.001 J**	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
MW-7R	3/4/2021	**0.0089**	**0.0014 J**	**0.0015 J**	<0.0004	<0.0004	<0.0005	<0.0004
MW-8	3/9/2020	**0.066**	**0.0082**	**0.11**	**0.00083 J**	<0.0004	<0.0005	**0.00043 J**
	6/24/2020	**0.15**	**0.022**	**0.33**	**0.0023 J**	<0.0004	<0.0005	**0.0015 J**
	9/18/2020	**0.13**	**0.018**	**0.25**	**0.0015 J**	<0.0004	<0.0005	**0.00094 J**
	12/11/2020	**0.038**	**0.0034 J**	**0.037**	<0.0004	<0.0004	<0.0005	<0.0004
	3/4/2021	**0.051**	**0.0063**	**0.082**	**0.00047 J**	<0.0004	<0.0005	<0.0004
	3/4/2021	**0.05**	**0.0066**	**0.08**	**0.00072 J**	<0.0004	<0.0005	<0.0004
MW-9	3/9/2020	**0.0037 J**	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	6/24/2020	**0.011**	**0.00081 J**	**0.00064 J**	<0.0004	<0.0004	<0.0005	<0.0004
	9/18/2020	**0.0087**	**0.00066 J**	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	12/11/2020	**0.0049 J**	**0.00063 J**	**0.0009 J**	<0.0004	<0.0004	<0.0005	<0.0004
	3/4/2021	**0.0023 J**	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
MW-10	3/31/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	6/24/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	9/18/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	12/11/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	3/4/2021	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004

Table E4
Summary of Volatile Organic Compounds in Groundwater
1702 Nance Vacant Commercial Site
1702 Nance Street, Houston, TX 77020
VCP No. 3081

Sample ID	Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride	1,1-Dichloroethene	1,1-Dichloroethane
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Residential	$^{GW}GW_{Ing}$	**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**	**4.9**
Residential	$^{Air}GW_{Inh-V}$	500	24	1200	770	3.8	1700	43000
MW-11	3/31/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	6/24/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	9/18/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	12/11/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	3/4/2021	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
MW-12	8/21/2020	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	9/18/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	12/11/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	3/4/2021	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
MW-13	3/4/2021	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004

Notes: Exceeds $^{GW}GW_{Ing}$

<: Analyte was not detected at or above the reported sample detection limit

J: Analyte was detected at the concentration less than the method detection limit

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 the 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 March 2021, the area of affected groundwater extends off-site to the south and east. Notification letters were sent to the following property owners informing them of the potential impact to their property. The property owners are identified on **Figure F**.

Property ID	Property owner name	Physical property address, city, zip	Property owner mailing address, city, state, zip
1	City of Houston	Right-of Way	611 Walker St., Houston, TX 77002
2	Texas Dept of Transportation	Right-of Way	7600 Washington Ave., Houston, TX 77007

LEGEND

Property Boundary

1: City of Houston
2: TxDOT

N

0 70 140

Approximate Scale (feet)

InControl Technologies
14731 Pebble Bend Drive
Houston, Texas 77068
(281) 580-8892 FAX (281) 580-8853

Notification Map

CLIENT: Urban Genesis			PM: LMG
LOCATION: 1702 Nance Street Houston, Texas 77020			CHECKED: MFM
DETAILED: 3/21/2021	DESIGNED: LMG	PROJECT NO: E20011-101	FIGURE: F

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.

The subject property is located within the area of the Hardy Street Railyards and historical commercial industrial operations. Historically, the subject property was residential from at least 1890 through the 1960s. It was developed into a commercial business in the 1970s to support sales and distribution of oilfield equipment. The property was most recently occupied by Advanced Control Systems, LLC. This company provided a wide range of electrical and energy equipment for applications and operations in the drilling, marine, and industrial markets. Prior to that, the facility was occupied by Wilson Industries. This business was suspected to be similar to the Advanced Control Systems, LLC operations. InControl Technologies does not believe that any manufacturing operations were ever conducted on the subject property.

Shallow groundwater is affected by dissolved phase chemicals including tetrachloroethene (PCE), trichloroethene (TCE), and cis-1,2-dichloroethene (cis-1,2-DCE). The source of the chlorinated solvents is unknown, but it is possible that they originate from the former railyard to the east of the subject property. Chlorinated solvents were likely used during the railcar repairs. However, it is unlikely that these solvents were used during the tenure of the railroad locomotive repair activities. While no manufacturing operations were ever documented on the subject property the chlorinated solvents were a common industrial solvent used at oil tool facilities. The presence of chlorinated solvents in onsite soils suggest that these chemicals may have been used onsite. The property is currently vacant. There is no longer a source for any chlorinated solvents on the subject site.

Groundwater sampling of the existing monitoring well network began in March 2020. The monitoring wells are currently sampled on a quarterly basis. Only three monitoring wells (MW-7, MW-8, and MW-9) have ever reported chemicals of concern above a $^{GW}GW_{Ing}$ PCL. With the installation of monitoring well MW-13, the chlorinated solvent plume is laterally delineated, and the groundwater data show stable to decreasing trends across the site.

Mann-Kendall Test for Statistical Trend

InControl Technologies conducted a statistical trend analysis to determine if chemicals of concern were increasing, decreasing or remaining stable over time. The primary chemicals of concern include tetrachloroethene (PCE), trichloroethene (TCE), and cis-1,2-dichloroethene (cis-1,2-DCE). InControl Technologies used the Mann-Kendall Statistical Test for Trends to conduct the trend analysis. The statistical analysis was conducted using QualStat 6.0, a commercially available software package.

The purpose of the Mann-Kendall test is to statistically assess if there is a monotonic upward or downward trend of the variable of interest over time. A monotonic upward (downward) trend means that the variable consistently increases (decreases) through time, but the trend may or may not be linear. The Mann-Kendall test is used in place of a parametric linear regression analysis since the criteria for this test are generally violated with temporal environmental data. The regression analysis requires that the residuals from the

fitted regression line be normally distributed; an assumption not required by the Mann-Kendall test since the Mann-Kendall test is a non-parametric or distribution-free statistical test.

Assumptions

The following assumptions underlie the Mann-Kendall test:

- When no trend is present, the measurements (observations or data) obtained over time are independent and identically distributed. The assumption of independence means that the observations are not serially correlated over time.
- The observations obtained over time are representative of the true conditions at the various sampling times.
- The sample collection, handling, and measurement methods provide unbiased and representative observations of the underlying populations over time.

There is no requirement that the measurements be normally distributed or that the trend, if present, is linear. The Mann-Kendall test can be computed if there are missing values and values below the sample detection limit. The assumption of independence requires that the time between samples be sufficiently large so that there is no correlation between measurements collected at different times.

Calculations

The Mann-Kendall Statistical test tests whether to reject the null hypothesis (H_o) and accept the alternative hypothesis (H_a), where:

- Ho: No monotonic trend
- Ha: Monotonic trend is present

The Mann-Kendall test is conducted as follows:

1. List the data in the order in which they were collected over time, x_1, x_2, … , x_n, which denote the measurements obtained at times 1, 2, … , n, respectively.

2. Determine the sign of all n(n-1)/2 possible differences $x_j - x_k$, where j>k. These differences are $x_2 - x_1$, $x_3 - x_1$, … , $x_n - x_1$, $x_3 - x_2$, $x_4 - x_2$, … , $x_n - x_2$, … , $x_n - x_{n-2}$, $x_n - x_{n-1}$.

3. Let sgn ($x_j - x_k$,) be the indicator function that takes on the value s 1, 0, or -1 according to the sign of x_j-x_k, that is:

   Error! Bookmark not defined. $$\operatorname{sgn}(x_j - x_k)\begin{cases} 1 & if \quad x_j - x_k > 0 \\ 0 & if \quad x_j - x_k = 0 \\ -1 & if \quad x_j - x_k < 0 \end{cases}$$

4. Compute the statistic S = $\sum_{k=1}^{n-1}\sum_{j=k+1}^{n} \operatorname{sgn}(x_j - x_k)$which is the number of positive differences minus

the number of negative differences. If **S** is a positive number, observations obtained later in time tend to be larger than observations made earlier. If **S** is a negative number, then observations made later in time tend to be smaller than observations made earlier.

5. Compute the variance of **S** as follows:

$$Var(S) = \frac{1}{18}\left[n(n-1)(2n+5) - \sum_{p=1}^{g} t_p(t_p-1)((2t_p+5)\right]$$

Where g is the number of tied groups and t_p is the number of observations in the p^{th} group. When there are ties in the data due to equal values or non-detects, Var(S) is adjusted by the tie correction method described in Helsel (2005, p. 191) and included in the formula above.

6. Compute the Mann-Kendall test statistic, Z_{MK}, as follows:

$$Z_{MK}\begin{cases} \dfrac{s-1}{\sqrt{Var(S)}} & if \quad S>0 \\ 0 \quad if \quad S=0 \\ \dfrac{S+1}{\sqrt{Var(S)}} & if \quad S<0 \end{cases}$$

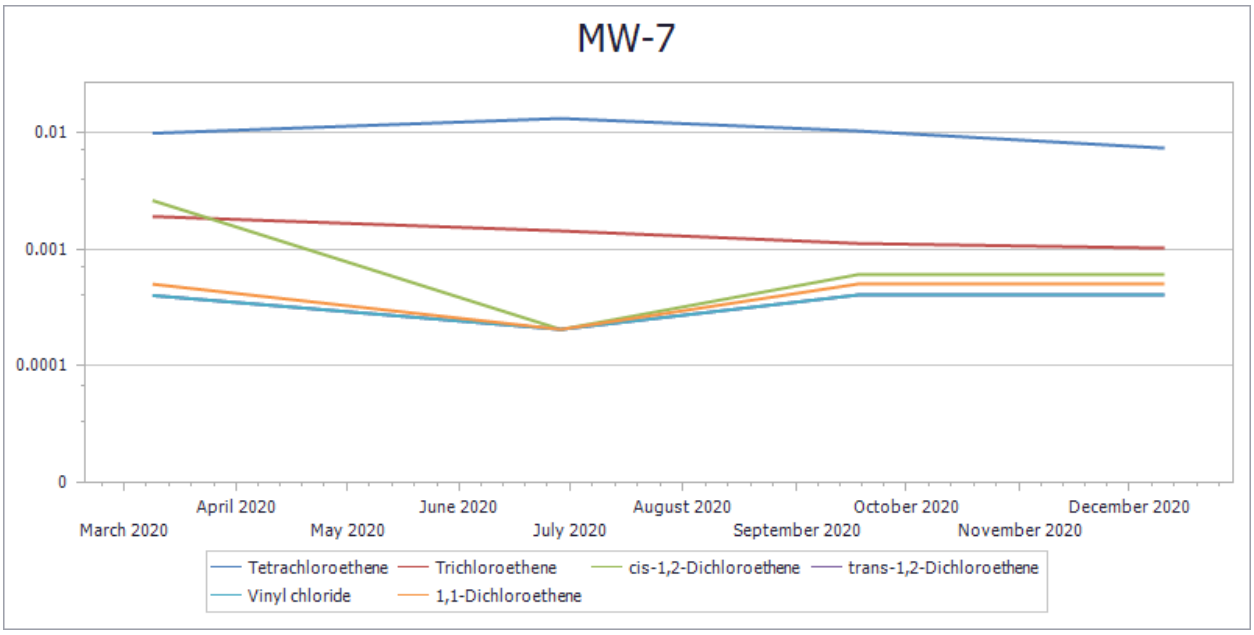
A positive (negative) value of Z_{MK} indicates that the data tend to increase (decrease) with time. To determine if a trend exists at the Type I error rate α, where 0 < α< 0.5. (Note that α is the tolerable probability that the Mann Kendall test will falsely reject the null hypothesis.), then the Ho is rejected and the Ha is accepted if $Z_{MK}>Z_{1-\alpha}$, where $Z_{1-\alpha}$ is the 100(1-α) percentile of the standard normal distribution. Following standard TRRP Guidance, InControl Technologies used an α of 0.05. If the calculated probability (p) is less than 0.05, the Ho hypothesis (no monotonic trend) is rejected in favor of the Ha hypothesis (a monotonic trend exists in the data. The following sections discuss the results of the Mann-Kendall Statistical Analysis on a well by well basis.

Results from Statistical Trend Analysis

A Statistical Trend Analysis was conducted for each well reporting a chemical of concern above the Tier 1 Residential Protective Concentration Level. Only chemicals with historically detected concentrations exceeding the target PCL within a given well are discussed. Compounds that are below the Tier 1 Residential PCL are not discussed.

MW-7

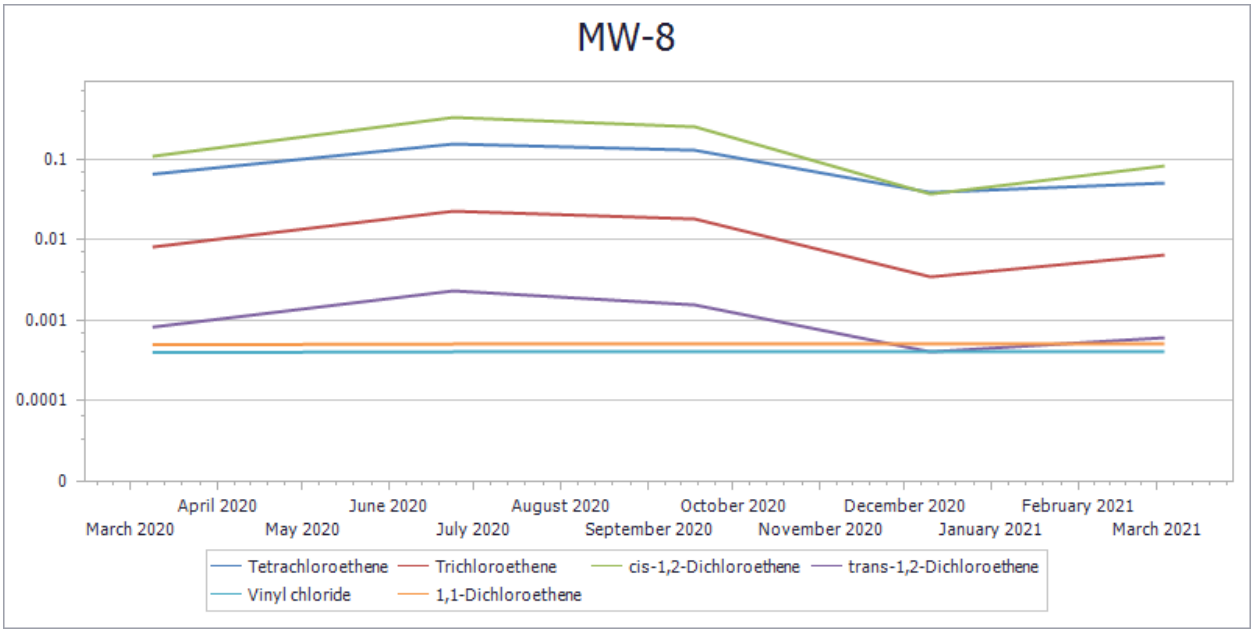
PCE is the only compound that exceeded the Tier 1 Residential PCL for groundwater ingestion during the monitoring history for MW-7. The following table shows the results for the Mann-Kendall Statistical Test for trends for all groundwater monitoring data since the well was first installed. No trend is reported for PCE.



Compound	Count	S Statistic	S Variance	Z Value	Prob	Trend
Tetrachloroethene	4	-2.0	8.6667	-0.34	36.70	No Trend
Trichloroethene	4	-6.0	8.6667	-1.70	4.47	Decreasing
cis-1,2-Dichloroethene	4	-1.0	7.6667	0.00	50.00	No Trend
trans-1,2-Dichloroethene	4	1.0	5.0000	0.00	50.00	No Trend
Vinyl chloride	4	1.0	5.0000	0.00	50.00	No Trend
1,1-Dichloroethene	4	1.0	5.0000	0.00	50.00	No Trend

MW-8

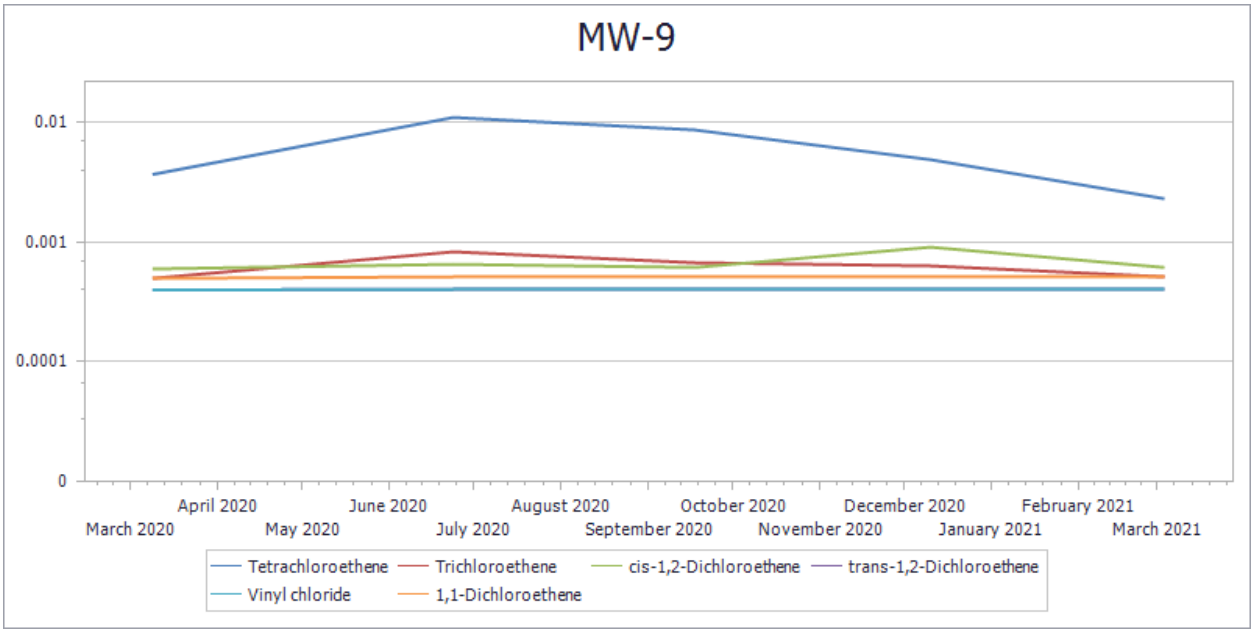
PCE, TCE, and cis-1,2-DCE exceeded their respective Tier 1 Residential PCLs for groundwater ingestion during the monitoring history for MW-8. The following table shows the results for the Mann-Kendall Statistical Test for trends for all groundwater monitoring data since the well was first installed. No trend is reported for any of these compounds.



Compound	Count	S Statistic	S Variance	Z Value	Prob	Trend
Tetrachloroethene	6	-5.0	28.3333	-0.75	22.62	No Trend
Trichloroethene	6	-7.0	28.3333	-1.13	12.98	No Trend
cis-1,2-Dichloroethene	6	-5.0	28.3333	-0.75	22.62	No Trend
trans-1,2-Dichloroethene	6	-7.0	28.3333	-1.13	12.98	No Trend
Vinyl chloride	6	0.0	0.0000	0.00	50.00	No Trend
1,1-Dichloroethene	6	0.0	0.0000	0.00	50.00	No Trend

MW-9

PCE is the only compound that exceeded the Tier 1 Residential PCL for groundwater ingestion during the monitoring history for MW-9. The following table shows the results for the Mann-Kendall Statistical Test for trends for all groundwater monitoring data since the well was first installed. No trend is reported for any of these compounds. PCE has remained below the Tier 1 PCL for two consecutive sampling events.



Compound	Count	S Statistic	S Variance	Z Value	Prob	Trend
Tetrachloroethene	5	-4.0	16.6667	-0.73	23.12	No Trend
Trichloroethene	5	-3.0	15.6667	-0.51	30.67	No Trend
cis-1,2-Dichloroethene	5	1.0	13.0000	0.00	50.00	No Trend
trans-1,2-Dichloroethene	5	0.0	0.0000	0.00	50.00	No Trend
Vinyl chloride	5	0.0	0.0000	0.00	50.00	No Trend
1,1-Dichloroethene	5	0.0	0.0000	0.00	50.00	No Trend

Table E3
Summary of Metals in Groundwater
1702 Nance Vacant Commercial Site
1702 Nance Street, Houston, TX 77020
VCP No. 3081

Sample ID	Date	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Residential	$^{GW}GW_{Ing}$	**0.01**	**2**	**0.005**	**0.1**	**0.015**	**0.002**	**0.05**	**0.12**
Residential	$^{Air}GW_{Inh-V}$						7.3		
MW-5	3/9/2020	**0.00247**	**0.192**	<0.0002	<0.0004	<0.0006	<0.00003	<0.0011	<0.0002
	6/29/2020	**0.00201**	**0.176**	<0.0002	<0.0004	<0.0006	<0.00003	**0.0101**	<0.0002
	9/21/2020	**0.00174 J**	**0.174**	<0.0002	<0.0004	<0.0006	<0.00003	**0.0184**	<0.0002
	12/11/2020	**0.00191 J**	**0.164**	<0.0002	<0.0004	**0.000714 J**	**0.000764**	**0.0303**	**0.000209 J**
	3/9/2021	**0.00146 J**	**0.17**	<0.0002	<0.0004	<0.0006	**0.000093 J**	**0.028**	<0.0002
MW-6	3/9/2020	**0.00101 J**	**0.296**	<0.0002	<0.0004	<0.0006	**0.00007 J**	**0.00615**	<0.0002
	6/24/2020	**0.0139**	**0.638**	<0.0002	<0.0004	<0.0006	<0.00003	**0.0018 J**	<0.0002
	9/18/2020	**0.0032**	**0.336**	<0.0002	<0.0004	<0.0006	<0.00003	**0.00212**	<0.0002
	12/11/2020	**0.00533**	**0.362**	<0.0002	<0.0004	<0.0006	**0.000037 J**	**0.00409**	<0.0002
	3/4/2021	**0.00359**	**0.253**	<0.0002	<0.0004	<0.0006	<0.00003	**0.00354**	<0.0002
MW-7	3/9/2020	**0.000591 J**	**0.195**	**0.000365 J**	**0.00069 J**	**0.00126 J**	**0.000112 J**	**0.00388**	<0.0002
	6/29/2020	**0.00263**	**0.31**	**0.000356 J**	**0.0067**	**0.054**	<0.00003	**0.0052**	<0.0002
	9/15/2020	-	-	-	-	**0.00195 J**	-	-	-
	9/18/2020	**0.000677 J**	**0.246**	<0.0002	**0.000417 J**	**0.00352**	<0.00003	**0.00363**	<0.0002
	12/11/2020	**0.00354**	**0.35**	**0.000294 J**	**0.00304 J**	**0.0281**	**0.000075 J**	**0.00542**	<0.0002
MW-7R	3/4/2021	**0.00082 J**	**0.183**	<0.0002	<0.0004	<0.0006	<0.00003	**0.00706**	<0.0002
MW-8	3/9/2020	**0.008**	**0.336**	**0.000281 J**	**0.0197**	**0.0372**	**0.000119 J**	**0.0137**	<0.0002
	3/30/2020	**0.000438 J**	**0.132**	<0.0002	<0.0004	<0.0006	<0.00003	**0.00752**	<0.0002
	6/24/2020	**0.000678 J**	**0.181**	<0.0002	<0.0004	<0.0006	<0.00003	**0.0227**	<0.0002
	9/18/2020	<0.0004	**0.133**	<0.0002	<0.0004	<0.0006	<0.00003	**0.0132**	<0.0002
	12/11/2020	**0.000553 J**	**0.159**	<0.0002	<0.0004	<0.0006	**0.000196 J**	**0.00603**	<0.0002
	3/4/2021	**0.000474 J**	**0.153**	<0.0002	<0.0004	<0.0006	**0.000118 J**	**0.00956**	<0.0002
	3/4/2021	**0.000453 J**	**0.138**	<0.0002	<0.0004	<0.0006	**0.000093 J**	**0.00924**	<0.0002
MW-9	3/9/2020	<0.0004	**0.165**	<0.0002	<0.0004	<0.0006	<0.00003	**0.00336**	<0.0002
	6/24/2020	**0.00042 J**	**0.218**	<0.0002	**0.00148 J**	<0.0006	<0.00003	<0.0011	<0.0002
	9/18/2020	**0.000549 J**	**0.19**	<0.0002	**0.00646**	<0.0006	<0.00003	**0.00126 J**	<0.0002
	12/11/2020	**0.000516 J**	**0.244**	<0.0002	<0.0004	<0.0006	**0.000483**	**0.00214**	<0.0002
	3/4/2021	**0.000422 J**	**0.221**	<0.0002	<0.0004	<0.0006	<0.00003	**0.00215**	<0.0002
MW-10	3/31/2020	**0.000444 J**	**0.114**	<0.0002	<0.0004	**0.000869 J**	<0.00003	<0.0011	<0.0002
	6/24/2020	**0.000823 J**	**0.19**	<0.0002	**0.000409 J**	<0.0006	<0.00003	<0.0011	<0.0002
	9/18/2020	**0.000589 J**	**0.126**	<0.0002	<0.0004	<0.0006	<0.00003	<0.0011	<0.0002
	12/11/2020	**0.000509 J**	**0.162**	<0.0002	<0.0004	<0.0006	<0.00003	<0.0011	<0.0002
	3/4/2021	<0.0004	**0.124**	<0.0002	<0.0004	**0.0115**	<0.00003	**0.00187 J**	<0.0002
MW-11	3/31/2020	**0.00138 J**	**0.211**	<0.0002	**0.000871 J**	**0.00208**	<0.00003	<0.0011	<0.0002
	6/24/2020	**0.00284**	**0.237**	<0.0002	**0.000557 J**	**0.000609 J**	<0.00003	<0.0011	<0.0002
	9/18/2020	**0.00219**	**0.162**	<0.0002	<0.0004	<0.0006	<0.00003	<0.0011	<0.0002
	12/11/2020	**0.00154 J**	**0.204**	<0.0002	**0.00124 J**	**0.00519**	**0.000033 J**	<0.0011	<0.0002
	3/4/2021	**0.00153 J**	**0.225**	<0.0002	<0.0004	<0.0006	<0.00003	**0.0018 J**	<0.0002

Table E3
Summary of Metals in Groundwater
1702 Nance Vacant Commercial Site
1702 Nance Street, Houston, TX 77020
VCP No. 3081

Sample ID	Date	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Residential	$^{GW}GW_{Ing}$	**0.01**	**2**	**0.005**	**0.1**	**0.015**	**0.002**	**0.05**	**0.12**
Residential	$^{Air}GW_{Inh-V}$						7.3		
MW-12	8/21/2020	**0.00081 J**	**0.118**	<0.0002	**0.0259**	<0.0006	**0.000039 J**	<0.0011	<0.0002
	9/18/2020	**0.000745 J**	**0.122**	<0.0002	<0.0004	<0.0006	<0.00003	<0.0011	<0.0002
	12/11/2020	**0.000857 J**	**0.109**	**0.000223 J**	<0.0004	<0.0006	<0.00003	<0.0011	<0.0002
	3/4/2021	**0.000647 J**	**0.118**	<0.0002	<0.0004	<0.0006	<0.00003	<0.0011	<0.0002
MW-13	3/4/2021	**0.000996 J**	**0.221**	<0.0002	<0.0004	<0.0006	<0.00003	<0.0011	<0.0002

Notes: Exceeds $^{GW}GW_{Ing}$

<: Analyte was not detected at or above the reported sample detection limit

J: Analyte was detected at the concentration less than the method detection limit

Table E4
Summary of Volatile Organic Compounds in Groundwater
1702 Nance Vacant Commercial Site
1702 Nance Street, Houston, TX 77020
VCP No. 3081

Sample ID	Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride	1,1-Dichloroethene	1,1-Dichloroethane
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Residential	$^{GW}GW_{Ing}$	**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**	**4.9**
Residential	$^{Air}GW_{Inh-V}$	500	24	1200	770	3.8	1700	43000
MW-5	3/9/2020	**0.00081 J**	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	6/29/2020	**0.00063 J**	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	9/21/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	12/11/2020	**0.00063 J**	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	3/9/2021	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
MW-6	3/9/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	6/24/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	9/18/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	12/11/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	3/4/2021	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
MW-7	3/9/2020	**0.0098**	**0.0019 J**	**0.0026 J**	<0.0004	<0.0004	<0.0005	<0.0004
	6/29/2020	**0.013**	**0.0014**	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	9/18/2020	**0.01**	**0.0011 J**	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	12/11/2020	**0.0071**	**0.001 J**	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
MW-7R	3/4/2021	**0.0089**	**0.0014 J**	**0.0015 J**	<0.0004	<0.0004	<0.0005	<0.0004
MW-8	3/9/2020	**0.066**	**0.0082**	**0.11**	**0.00083 J**	<0.0004	<0.0005	**0.00043 J**
	6/24/2020	**0.15**	**0.022**	**0.33**	**0.0023 J**	<0.0004	<0.0005	**0.0015 J**
	9/18/2020	**0.13**	**0.018**	**0.25**	**0.0015 J**	<0.0004	<0.0005	**0.00094 J**
	12/11/2020	**0.038**	**0.0034 J**	**0.037**	<0.0004	<0.0004	<0.0005	<0.0004
	3/4/2021	**0.051**	**0.0063**	**0.082**	**0.00047 J**	<0.0004	<0.0005	<0.0004
	3/4/2021	**0.05**	**0.0066**	**0.08**	**0.00072 J**	<0.0004	<0.0005	<0.0004
MW-9	3/9/2020	**0.0037 J**	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	6/24/2020	**0.011**	**0.00081 J**	**0.00064 J**	<0.0004	<0.0004	<0.0005	<0.0004
	9/18/2020	**0.0087**	**0.00066 J**	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	12/11/2020	**0.0049 J**	**0.00063 J**	**0.0009 J**	<0.0004	<0.0004	<0.0005	<0.0004
	3/4/2021	**0.0023 J**	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
MW-10	3/31/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	6/24/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	9/18/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	12/11/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	3/4/2021	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004

Table E4
Summary of Volatile Organic Compounds in Groundwater
1702 Nance Vacant Commercial Site
1702 Nance Street, Houston, TX 77020
VCP No. 3081

Sample ID	Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride	1,1-Dichloroethene	1,1-Dichloroethane
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Residential	$^{GW}GW_{Ing}$	**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**	**4.9**
Residential	$^{Air}GW_{Inh-V}$	500	24	1200	770	3.8	1700	43000
MW-11	3/31/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	6/24/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	9/18/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	12/11/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	3/4/2021	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
MW-12	8/21/2020	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	9/18/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	12/11/2020	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
	3/4/2021	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004
MW-13	3/4/2021	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0004

Notes: Exceeds $^{GW}GW_{Ing}$

<: Analyte was not detected at or above the reported sample detection limit

J: Analyte was detected at the concentration less than the method detection limit

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 the 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 March 2021, the area of affected groundwater extends off-site to the south and east. Notification letters were sent to the following property owners informing them of the potential impact to their property. The property owners are identified on **Figure F**.

Property ID	Property owner name	Physical property address, city, zip	Property owner mailing address, city, state, zip
1	City of Houston	Right-of Way	611 Walker St., Houston, TX 77002
2	Texas Dept of Transportation	Right-of Way	7600 Washington Ave., Houston, TX 77007

LEGEND

Property Boundary

1: City of Houston
2: TxDOT

N

0 70 140

Approximate Scale (feet)

InControl Technologies
14731 Pebble Bend Drive
Houston, Texas 77068
(281) 580-8892 FAX (281) 580-8853

Notification Map

CLIENT: Urban Genesis			PM: LMG
LOCATION: 1702 Nance Street Houston, Texas 77020			CHECKED: MFM
DETAILED: 3/21/2021	DESIGNED: LMG	PROJECT NO: E20011-101	FIGURE: F

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.

The subject property is located within the area of the Hardy Street Railyards and historical commercial industrial operations. Historically, the subject property was residential from at least 1890 through the 1960s. It was developed into a commercial business in the 1970s to support sales and distribution of oilfield equipment. The property was most recently occupied by Advanced Control Systems, LLC. This company provided a wide range of electrical and energy equipment for applications and operations in the drilling, marine, and industrial markets. Prior to that, the facility was occupied by Wilson Industries. This business was suspected to be similar to the Advanced Control Systems, LLC operations. InControl Technologies does not believe that any manufacturing operations were ever conducted on the subject property.

Shallow groundwater is affected by dissolved phase chemicals including tetrachloroethene (PCE), trichloroethene (TCE), and cis-1,2-dichloroethene (cis-1,2-DCE). The source of the chlorinated solvents is unknown, but it is possible that they originate from the former railyard to the east of the subject property. Chlorinated solvents were likely used during the railcar repairs. However, it is unlikely that these solvents were used during the tenure of the railroad locomotive repair activities. While no manufacturing operations were ever documented on the subject property the chlorinated solvents were a common industrial solvent used at oil tool facilities. The presence of chlorinated solvents in onsite soils suggest that these chemicals may have been used onsite. The property is currently vacant. There is no longer a source for any chlorinated solvents on the subject site.

Groundwater sampling of the existing monitoring well network began in March 2020. The monitoring wells are currently sampled on a quarterly basis. Only three monitoring wells (MW-7, MW-8, and MW-9) have ever reported chemicals of concern above a $^{GW}GW_{Ing}$ PCL. With the installation of monitoring well MW-13, the chlorinated solvent plume is laterally delineated, and the groundwater data show stable to decreasing trends across the site.

Mann-Kendall Test for Statistical Trend

InControl Technologies conducted a statistical trend analysis to determine if chemicals of concern were increasing, decreasing or remaining stable over time. The primary chemicals of concern include tetrachloroethene (PCE), trichloroethene (TCE), and cis-1,2-dichloroethene (cis-1,2-DCE). InControl Technologies used the Mann-Kendall Statistical Test for Trends to conduct the trend analysis. The statistical analysis was conducted using QualStat 6.0, a commercially available software package.

The purpose of the Mann-Kendall test is to statistically assess if there is a monotonic upward or downward trend of the variable of interest over time. A monotonic upward (downward) trend means that the variable consistently increases (decreases) through time, but the trend may or may not be linear. The Mann-Kendall test is used in place of a parametric linear regression analysis since the criteria for this test are generally violated with temporal environmental data. The regression analysis requires that the residuals from the

fitted regression line be normally distributed; an assumption not required by the Mann-Kendall test since the Mann-Kendall test is a non-parametric or distribution-free statistical test.

Assumptions

The following assumptions underlie the Mann-Kendall test:

- When no trend is present, the measurements (observations or data) obtained over time are independent and identically distributed. The assumption of independence means that the observations are not serially correlated over time.
- The observations obtained over time are representative of the true conditions at the various sampling times.
- The sample collection, handling, and measurement methods provide unbiased and representative observations of the underlying populations over time.

There is no requirement that the measurements be normally distributed or that the trend, if present, is linear. The Mann-Kendall test can be computed if there are missing values and values below the sample detection limit. The assumption of independence requires that the time between samples be sufficiently large so that there is no correlation between measurements collected at different times.

Calculations

The Mann-Kendall Statistical test tests whether to reject the null hypothesis (H_o) and accept the alternative hypothesis (H_a), where:

- Ho: No monotonic trend
- Ha: Monotonic trend is present

The Mann-Kendall test is conducted as follows:

1. List the data in the order in which they were collected over time, x_1, x_2, … , x_n, which denote the measurements obtained at times 1, 2, … , n, respectively.

2. Determine the sign of all n(n-1)/2 possible differences $x_j - x_k$, where j>k. These differences are $x_2 - x_1$, $x_3 - x_1$, … , $x_n - x_1$, $x_3 - x_2$, $x_4 - x_2$, … , $x_n - x_2$, … , $x_n - x_{n-2}$, $x_n - x_{n-1}$.

3. Let sgn ($x_j - x_k$,) be the indicator function that takes on the value s 1, 0, or -1 according to the sign of x_j-x_k, that is:

   Error! Bookmark not defined. $$\operatorname{sgn}(x_j - x_k)\begin{cases} 1 & if \quad x_j - x_k > 0 \\ 0 & if \quad x_j - x_k = 0 \\ -1 & if \quad x_j - x_k < 0 \end{cases}$$

4. Compute the statistic S = $\sum_{k=1}^{n-1}\sum_{j=k+1}^{n} \operatorname{sgn}(x_j - x_k)$which is the number of positive differences minus

the number of negative differences. If **S** is a positive number, observations obtained later in time tend to be larger than observations made earlier. If **S** is a negative number, then observations made later in time tend to be smaller than observations made earlier.

5. Compute the variance of **S** as follows:

$$Var(S) = \frac{1}{18}\left[n(n-1)(2n+5) - \sum_{p=1}^{g} t_p(t_p-1)((2t_p+5)\right]$$

Where g is the number of tied groups and t_p is the number of observations in the p^{th} group. When there are ties in the data due to equal values or non-detects, Var(S) is adjusted by the tie correction method described in Helsel (2005, p. 191) and included in the formula above.

6. Compute the Mann-Kendall test statistic, Z_{MK}, as follows:

$$Z_{MK}\begin{cases} \dfrac{s-1}{\sqrt{Var(S)}} & if \quad S>0 \\ 0 \quad if \quad S=0 \\ \dfrac{S+1}{\sqrt{Var(S)}} & if \quad S<0 \end{cases}$$

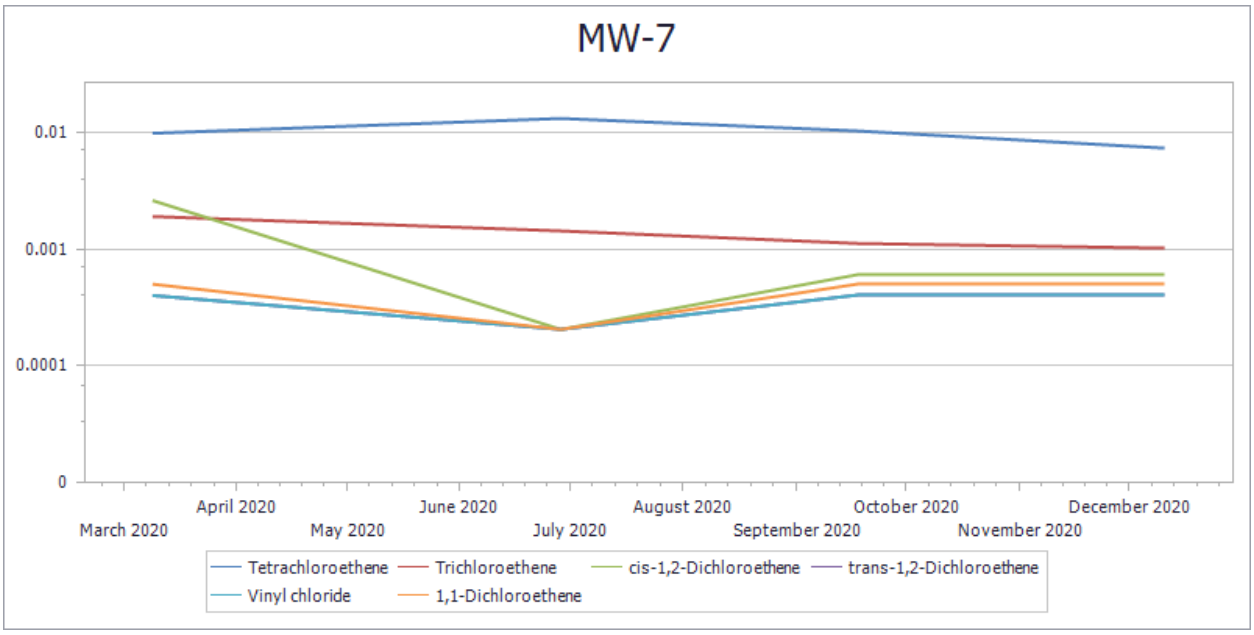
A positive (negative) value of Z_{MK} indicates that the data tend to increase (decrease) with time. To determine if a trend exists at the Type I error rate α, where 0 < α< 0.5. (Note that α is the tolerable probability that the Mann Kendall test will falsely reject the null hypothesis.), then the Ho is rejected and the Ha is accepted if $Z_{MK}>Z_{1-\alpha}$, where $Z_{1-\alpha}$ is the 100(1-α) percentile of the standard normal distribution. Following standard TRRP Guidance, InControl Technologies used an α of 0.05. If the calculated probability (p) is less than 0.05, the Ho hypothesis (no monotonic trend) is rejected in favor of the Ha hypothesis (a monotonic trend exists in the data. The following sections discuss the results of the Mann-Kendall Statistical Analysis on a well by well basis.

Results from Statistical Trend Analysis

A Statistical Trend Analysis was conducted for each well reporting a chemical of concern above the Tier 1 Residential Protective Concentration Level. Only chemicals with historically detected concentrations exceeding the target PCL within a given well are discussed. Compounds that are below the Tier 1 Residential PCL are not discussed.

MW-7

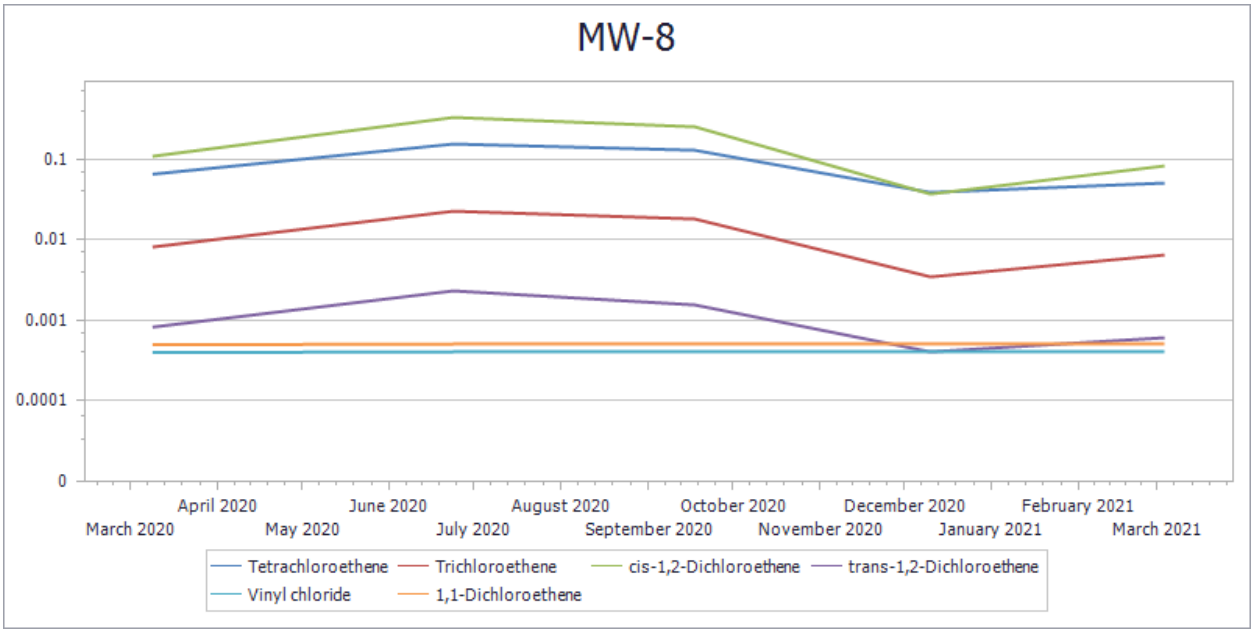
PCE is the only compound that exceeded the Tier 1 Residential PCL for groundwater ingestion during the monitoring history for MW-7. The following table shows the results for the Mann-Kendall Statistical Test for trends for all groundwater monitoring data since the well was first installed. No trend is reported for PCE.



Compound	Count	S Statistic	S Variance	Z Value	Prob	Trend
Tetrachloroethene	4	-2.0	8.6667	-0.34	36.70	No Trend
Trichloroethene	4	-6.0	8.6667	-1.70	4.47	Decreasing
cis-1,2-Dichloroethene	4	-1.0	7.6667	0.00	50.00	No Trend
trans-1,2-Dichloroethene	4	1.0	5.0000	0.00	50.00	No Trend
Vinyl chloride	4	1.0	5.0000	0.00	50.00	No Trend
1,1-Dichloroethene	4	1.0	5.0000	0.00	50.00	No Trend

MW-8

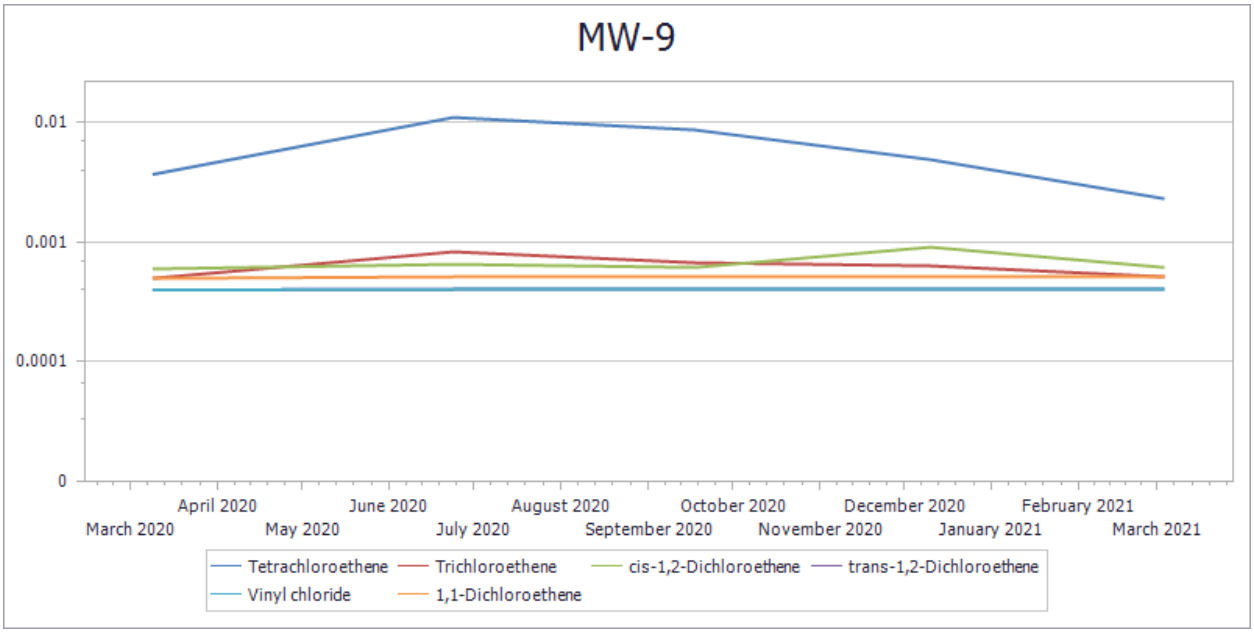
PCE, TCE, and cis-1,2-DCE exceeded their respective Tier 1 Residential PCLs for groundwater ingestion during the monitoring history for MW-8. The following table shows the results for the Mann-Kendall Statistical Test for trends for all groundwater monitoring data since the well was first installed. No trend is reported for any of these compounds.



Compound	Count	S Statistic	S Variance	Z Value	Prob	Trend
Tetrachloroethene	6	-5.0	28.3333	-0.75	22.62	No Trend
Trichloroethene	6	-7.0	28.3333	-1.13	12.98	No Trend
cis-1,2-Dichloroethene	6	-5.0	28.3333	-0.75	22.62	No Trend
trans-1,2-Dichloroethene	6	-7.0	28.3333	-1.13	12.98	No Trend
Vinyl chloride	6	0.0	0.0000	0.00	50.00	No Trend
1,1-Dichloroethene	6	0.0	0.0000	0.00	50.00	No Trend

MW-9

PCE is the only compound that exceeded the Tier 1 Residential PCL for groundwater ingestion during the monitoring history for MW-9. The following table shows the results for the Mann-Kendall Statistical Test for trends for all groundwater monitoring data since the well was first installed. No trend is reported for any of these compounds. PCE has remained below the Tier 1 PCL for two consecutive sampling events.



Compound	Count	S Statistic	S Variance	Z Value	Prob	Trend
Tetrachloroethene	5	-4.0	16.6667	-0.73	23.12	No Trend
Trichloroethene	5	-3.0	15.6667	-0.51	30.67	No Trend
cis-1,2-Dichloroethene	5	1.0	13.0000	0.00	50.00	No Trend
trans-1,2-Dichloroethene	5	0.0	0.0000	0.00	50.00	No Trend
Vinyl chloride	5	0.0	0.0000	0.00	50.00	No Trend
1,1-Dichloroethene	5	0.0	0.0000	0.00	50.00	No Trend