Executive Summary

Project Overview

InControl Technologies, Inc. was retained by Milner Road Building, LLC. (the current property owner), to provide environmental consulting services at the property addressed as 12255 FM 529 in Houston, Harris County, Texas. The subject property (the Site) consists of two tracts (Tract 1 is owned by 529 #14, Ltd. and Tract 2 was purchased by Milner Road Building LLC in 2008) consisting of 26.58304-acres of land located northwest of downtown Houston in the extraterritorial jurisdiction of the City of Houston. The surrounding area is primarily commercial/industrial development with residential development to the southwest (**Figure A1**).

The proposed Municipal Setting Designation (MSD) area is comprised of two adjacent parcels of land totaling 26.58304-acres. Tract 1 is 4.43154-acres and is owned by 529 #14 Ltd and Tract 2 is 22.1515-acres and was purchased by Milner Road Building LLC in 2008.

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

There is a volatile organic compounds (VOCs) plume identified on the subject property which originated from a historical spill at the former Quest Chemical site. The areas of affected groundwater are on **Figures C3-1** through **C3-5**.

Historical Environmental Condition

Quest Chemical began operation on Tract 1 of the Site in 1983. Operations consisted of storing and blending and repackaging a variety of chemicals for resell to third parties. The chemicals included a number of different solvents including both chlorinated and non-chlorinated solvents and a variety of acids and caustics. Reportedly, in February 1988, a spill of approximately 386 gallons of 1,1,1-trichloroethane (1,1,1-TCA) and potentially other solvents occurred while a chemical supplier was filling an aboveground storage tank (AST). Quest recovered as much of the released fluids as possible. It is also believed that incidental spills and releases occurred in the packaging area of the plant that included chlorinated and non-chlorinated solvents. Some common fuel compounds such as toluene and xylene are also common solvents and were packaged at the site.

In January 2004, affected groundwater was discovered on Tract 2. In July 2004, Quest conducted an investigation of groundwater at their facility and affected groundwater was discovered. The compounds included a variety of chlorinated solvents including 1,1,1-TCA, tetrachloroethylene, and trichloroethylene and non-chlorinated solvents including acetone, toluene and xylene. The assessment included the collection of both soil and groundwater samples from known and suspected source areas on the property.

In April 2007, Quest purchased the property to the west of their facility and entered the site into the Texas Commission on Environmental Quality (TCEQ) Voluntary Cleanup Program (VCP). Additional assessment was completed from September 2007 through November 2007 to delineate the extent of

affected groundwater and to evaluate potential exposure to nearby receptors. The assessment included the collection and analysis of groundwater samples from off-site monitoring wells (MW-17 through MW-25). COCs were not detected in the groundwater samples collected from seven of the nine off-site monitoring wells and no existing exposure was identified. An Affected Property Assessment Report (APAR) was submitted to the TCEQ in December 2007.

In February 2008, the TCEQ issued a letter to Quest Chemical requesting additional information and assessment of the affected property. Quest conducted the additional assessment activities requested by the TCEQ and submitted the results of that assessment to the TCEQ in August 2008. In October 2008, the TCEQ approved the Affected Property Assessment Report (APAR) and requested that a Response Action Plan (RAP) be prepared and submitted to the TCEQ. The TCEQ also requested that groundwater monitoring be conducted on a semiannual basis until the RAP was approved.

Three additional on-site monitoring wells (MW-26, MW-27, and MW-28) were installed in June 2009 to further horizontally delineate the chlorinated groundwater plume. Monitoring wells MW-26 and MW-27 were installed near the former MW-3 location and MW-28 was installed in the central portion of the plume.

In September 2009, an Underground Injection Control (UIC) application was submitted to TCEQ requesting approval for the injection of emulsified oil substrate (EOS) via ten temporary injection points. TCEQ approved the UIC application on October 19, 2009. On November 24 and 25, 2009, five injection points were completed around each of the monitoring wells MW-12 and MW-21.

To further horizontally delineate the chlorinated groundwater plume and provide additional information about the site stratigraphy, three off-site monitoring wells (MW-29, MW-30, MW-31) were installed in February 2010 and an off-site monitor well (MW-21A) and soil boring (B-12A) were installed in October 2010.

The primary chemicals of concern are tetrachloroethylene (PCE) and its breakdown products (trichloroethylene [TCE], cis-1,2-dichloroethylene [DCE], and vinyl chloride), 1,1,1-trichloroethane [TCA], and 1,1-dichlorothylene [1,1-DCE] (**Tables E1-1, E1-2, E2-1 and E2-2**). These compounds are relatively resistant to natural degradation and often remain in the environment for a very long time. Based on the provided information, some limited groundwater treatment was conducted in the vicinity of two groundwater monitoring wells (MW-12 and MW-21) with apparently limited effect. Other compounds were detected in groundwater but to a significantly lesser degree. These compounds include the fuel related compounds benzene, toluene, ethylbenzene and xylene.

The previous groundwater monitoring events were completed in December 2010/January 2011, June/July 2011 and December 2011. Since July 2013, the groundwater has been sampled on a semi-annual basis. The groundwater monitoring data collected since 2007 appears to indicate that the plume is relatively stable with evidence of attenuation, especially in the perimeter groundwater monitoring wells. The attenuation includes a generally shrinking plume along with transformation. For example, MW-1 originally reported PCE at 4.4 mg/L. Through biotransformation, the PCE has attenuated to TCE then to cis-1,2-DCE and 1,1-DCE and eventually vinyl chloride. The vinyl chloride is not accumulating within the well. Because of the biotransformation/attenuation, the concentration of PCE today is 0.095 mg/L. Therefore,

the transformation is continuing onto ethane and methane gases. A similar response was observed for 1,1,1-TCA. The initial concentration of 1,1,1-TCA was 31.0 mg/L. Today, 1,1,1-TCA is not detected in the well. Similar attenuation was also observed with the fuel related compound toluene. **Figure C4-2** depicts the locations of the groundwater sampling points.

Some cyclic concentrations were observed in the past year and a half. We believe the small rise and fall in concentration mirrors the drought period from 2014 followed by more abundant rains in 2015 and 2016. For example, the concentration of PCE in MW-2 in November 2014 was 0.024 mg/L. The concentration rose to 0.150 mg/L in May 2015 and has now dropped back to 0.060 mg/L in February 2016. Similar results were also observed for the breakdown products TCE, cis-1,2-DCE, 1,1-DCE and vinyl chloride. While the results indicate a cyclic cycle associated with the 2014 drought, the results also indicate strong bioattenuation. The delayed presence of vinyl chloride showing up and then attenuating away supports the ongoing attenuation within the plume.

While there has been fluctuation in concentrations observed across the groundwater monitoring network, the total mass within the system along with the aerial extent appears to be declining over time. This is evident by the fact that since groundwater monitoring began, four (4) groundwater monitoring wells (MW-3, MW-21, MW-21A and MW-XN) that once reported concentrations above protective concentration levels (PCLs) are now below the PCL. All these wells are on the perimeter of the plume. This would suggest that the overall aerial extent of the plume is declining. More importantly, the source area well (MW-1 originally reported 9 compounds above the PCL. This well now only reports one compound (PCE) above the PCL. As mentioned above, the concentration of PCE in MW-1 has declined significantly since its initial reading in 2004. The current concentration of PCE in MW-1 has fluctuated between 0.050 mg/L and 0.100 mg/L. The degradation products are present and not accumulating within this well indication that degradation is slow yet complete.

This same phenomenon was observed in four groundwater monitoring wells (MW-3, MW-27, MW-28 and MW-XS. As discussed above, MW-3 was once impacted but now reports all compounds of concern below the PCL. MW-26 originally reported six compounds above the PCL and now only reports three compounds above the PCL. Furthermore, the concentration of TCE, the primary source chemical in this well has decreased from 0.330 mg/L to 0.0048 mg/L. Its breakdown products (cis-1,2-DCE and vinyl chloride) have also seen substantial reductions in concentration. Cis-1,2-DCE declined from 5.3 mg/L to 0.86 mg/L and vinyl chloride has declined from 7.9 mg/L to 0.29 mg/L. The concentration of TCE in MW-27 also showed a significant decline from 11.0 mg/L to the current reading of 0.24 mg/L. During this same time period, cis-1,2-DCE declined from 1.60 mg/L to 0.310 mg/L while vinyl chloride relatively stable at 0.190 mg/L. This suggests that active attenuation is occurring within this well. The TCE is transforming to cis-1,2-DCE and 1,1-DCE. These compounds are in turn are transforming to vinyl chloride. The over decrease in mass of the parent compounds without the substantial increase in the final daughter compound supports a very active bioattenuation process.

MW-2 and MW-4 are also two downgradient wells in the northern plume. While the concentration of the target chemicals of concern have fluctuated over time, the general trend within these wells is down since the initial sampling in October 2004. More recent, as a result of the recent drought, there was a small spike in concentration. However, since May of 2015, the overall concentration mass trend has continued

to decline. The initial concentration of PCE, TCE and cis-1,2-DCE in MW-2 was 0.95 mg/L, 0.22 mg/L and 0.24 mg/L respectively. The current concentration of these compounds is 0.060 mg/L, 0.053 mg/L and 0.18 mg/L respectively. The concentration of these compounds has indicated a decreasing trend in concentration since May 2015. The same was observed in MW-4. The initial concentration of PCE, TCE and cis 1,2 DCE in MW-4 was 0.52 mg/L, 1.4 mg/L and 2.5 mg/L respectively. The current concentration of these compounds is 0.012 mg/L, 0.290 mg/L and 0.0044 mg/L respectively. Likewise, the concentration of these compounds has indicated a decreasing trend in concentration since May 2015.

As has been discussed in the past, the site has two distinct plume areas. The northern plume area is believed to be associated with the former Quest Chemical operations and is present generally north of the line drawn between MW-5, MW-10 and MW-28. The chemical mass and the nature of the chlorinated solvents within this plume exhibit a different chlorinated solvent finger print. The presence of 1,1,1-TCA and fuel related compounds such as toluene become a signature marker for the plume. The absence of these compounds along with markedly different ratios of the daughter products, suggests that the southern plume originates from some other source. In addition, given the age of the facility imposed by the length of the plume would also support two different source areas. A release that occurred on the day the Quest Chemical facility opened could not have migrated as far south as MW-21. The groundwater velocity necessary to carry the contaminant plume that far is not likely within this groundwater regime. There are a number of other industrial operations that occur south of the facility that could reasonably be sources.

While this plume is distinct and different from the northern plume, active attenuation is also present in this well. MW-21 and MW-21A were the groundwater monitoring wells at the leading edge of the southern plume. Both wells historically reported PCE above the PCL. Neither well has reported PCE above the PCL since January 2014. Starting in May 2010, the concentration of PCE and 1,1-DCE have steadily declined. This would suggest that the leading edge of the plume is shrinking over time. The lack of accumulation of daughter products suggests that active attenuation is successfully attenuating all compounds.

MW-5 and MW-28 are along the dividing plane between the northern and southern plumes. MW-5 originally reported five compounds above the PCL. There is now only one compound (TCE) that reports a concentration above the PCL. The concentration of TCE has declined from a high of 2.8 mg/L in December 2011 to a concentration of 0.0064 mg/L in February 2016. The concentration of PCE, cis 1,2 DCE, 1,1 DCE and vinyl chloride have all attenuated away and are now less than the reported detection limit. This would suggest that the northern and southern plumes are shrinking in size. MW-28 has seen similar results. There were originally five compounds exceeding a PCL and now there are four compounds. The concentration of PCE has declined from 0.160 mg/L to 0.0018 mg/L. However, the concentration of TCE has remained relatively stable over time fluctuating from 0.030 mg/L to 0.120 mg/L. The cycle in concentration appears to mimic the drought cycles observed in this area. While TCE has not materially declined in concentration over time, cis-1,2-DCE, 1,1-DCE and vinyl chloride have declined over time. The concentration of these compounds in May 2010 was 2.7 mg/L, 0.60 mg/L and 1.10 mg/L respectively. The most recent readings were 0.120 mg/L, 0.049 mg/L and 0.0036 mg/L respectively.

Based on this data, it is clear that the plume is actively attenuating and total mass is significantly declining over time.

MW-12 and MW-29 appear to be near source area wells. The concentration of chlorinated solvents in MW-29 would suggest a localized source near this area. This source does not appear to be ongoing as the concentration of the target compounds within this well have declined significantly over time. The concentration of the two primary chlorinated solvents (PCE and TCE) in MW-12 have declined from a high of 12.0 mg/L and 2.2 mg/L respectively to the current readings of 0.180 mg/L and 0.094 mg/L, respectively. The concentration of the daughter compounds 1,2-DCE and 1,1-DCE have also shown significant decreases in concentration over time decreasing from 1.2 mg/L and 8.1 mg/L respectively to 0.21 mg/L and 0.16 mg/L respectively. The significant decrease in the daughter products resulted in a temporary increase in vinyl chloride. The concentration of vinyl chloride started at 0.012 mg/L and rose to 4.6 mg/L in July 2013. Since that time, the concentration of vinyl chloride has declined significantly to 0.0036 mg/L. The overall mass reduction in MW-12 is mimicking what was observed in in the upgradient wells MW-5 and MW-28. This again would suggest that the total mass in the southern plume is decreasing over time.

MW-29 observed similar reductions over time. The maximum concentration of PCE (8.7 mg/L) and TCE (1.5 mg/L) were observed in May 2010. Since this time, the concentration of these two compounds has continually declined to the current concentrations of 0.78 mg/L and 0.17 mg/L respectively. The daughter products (cis 1,2 DCE and 1,1 DCE) have also decline from their maximum concentration of 1.0 mg/L and 5.4 mg/L respectively to the current readings of 0.12 mg/L and 0.45 mg/L. Vinyl chloride in this well has fluctuated over time flowing the reductive dechlorination process of the parent compounds. The concentration of vinyl chloride has ranged from just above the PCL at 0.003 mg/L to 0.020 mg/L. There does not appear to be any significant accumulation of vinyl chloride. These fluctuations are similar to what was observed in MW-12.

The overall reduction in contaminant mass in MW-12 and MW-29 suggest that the source of PCE/TCE has been eliminated. Furthermore, the data suggests that the contaminant mass within this area is undergoing substantial attenuation and the total mass has declined significantly over time. MW-18, MW-20 and MW-21 are the edge of plume wells for the southern plume. No chemicals of concern were detected in MW-18 since the wells were installed in 2007. MW-20 reported a maximum concentration of PCE (0.230 mg/L) and TCE (0.120 mg/L) in July 2013. Since July 2013, the concentration of these two compounds has declined to 0.020 mg/L and 0.0078 mg/L respectively. The daughter products cis-1,2-DCE and 1,1-DCE have also declined during this period decreasing from 0.150 mg/L and 0.330 mg/L respectively to 0.010 mg/L and 0.022 mg/L respectively. Vinyl chloride has never exceeded a PCL and shows no sign of accumulation within this well. MW-21 was discussed above and shows signs the plume is shrinking in size.

Based on the data from the upgradient, downgradient and cross gradient groundwater monitoring wells, the aerial extent of the plume is decreasing over time. Furthermore, the reduction in total mass in MW-12 and MW-29 support the conclusion that the plume is decreasing in mass over time. This data, combined with the northern plume data suggest that both plumes are actively attenuating over time and are seeing a substantial reduction in total mass. The soil excavation conducted on the former Quest Chemical and

the apparent elimination of the primary source for the southern plume appear to be contributing to the overall mass reduction over time.

Seventy-four (74) water wells were identified within a ½-mile radius of the proposed MSD boundary as domestic or public supply wells. The nearest domestic or public supply well is located 0.2-miles from the subject property in the cross-gradient direction. According to the water well database, this well was installed in 2009, completed at a depth of 325-feet below ground surface (bgs). No additional information is provided regarding its construction. This zone is much deeper than the limit of impacted groundwater associated with the proposed MSD area. Within a 5-mile radius of the proposed MSD boundary, typical completion depths are greater than 200-ft bgs with the median completion depth of 300-ft bgs.

At the request of the TCEQ, InControl Technologies collected water well samples from the six private drinking water wells completed near the southern plume. No site related chemicals of concern were detected in these drinking water wells. The results from this sampling demonstrate that the groundwater plume is not threatening nor impacting the shallow drinking water within this area.

Horsepen Creek is located approximately 1.87-miles south-east (downgradient) of the proposed MSD boundary. Due to the distance to this water body from the proposed MSD area, the bayou is not directly threatened by natural movement of the affected groundwater identified on the site (**Figure C2**).

Appendix A

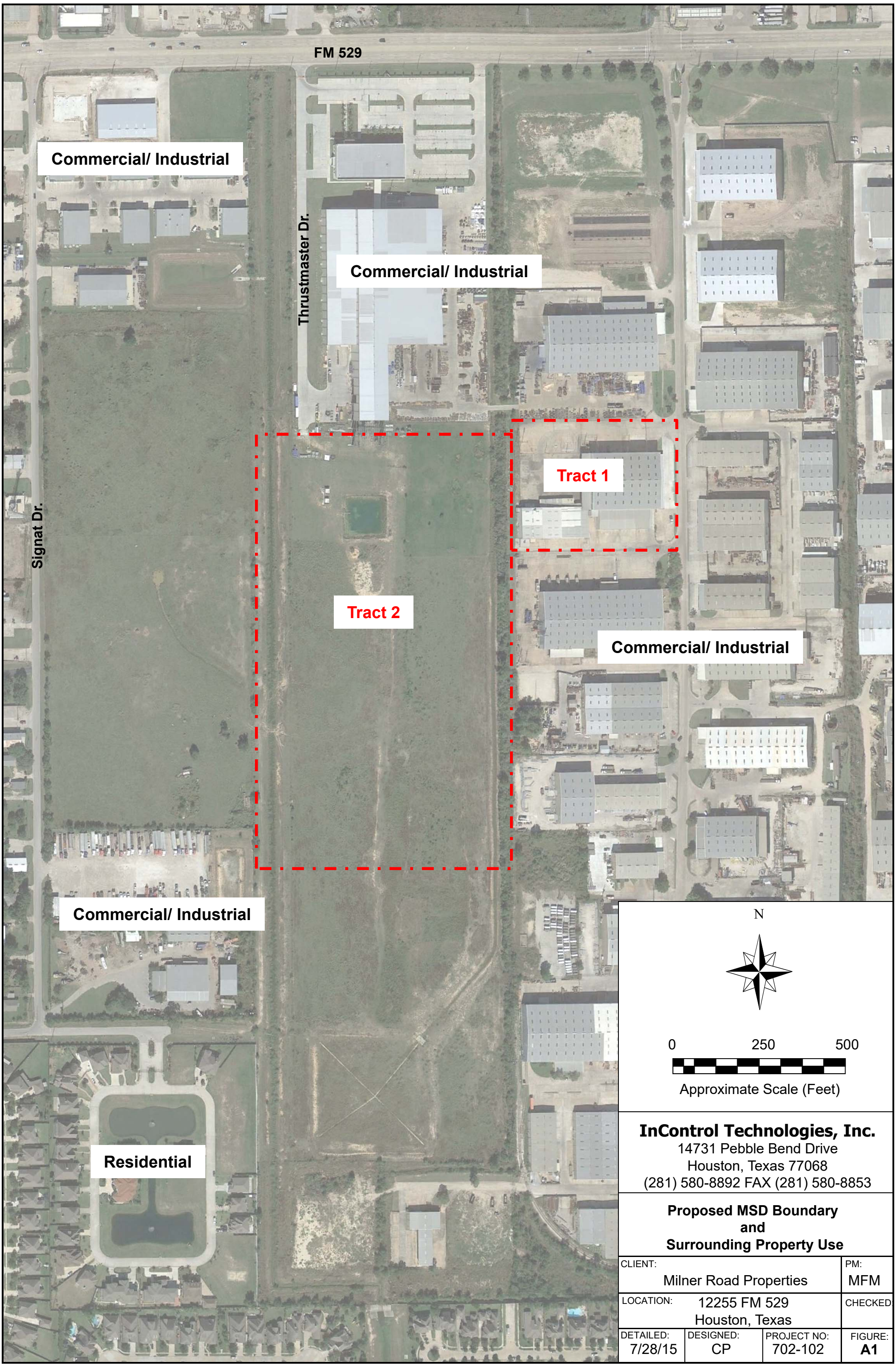
Provide a legal description of the boundaries of the designated property, including metes and bounds, and a copy of the deed for the property. A professional surveyor currently registered with the Texas Board of Professional Surveying must certify that all property descriptions with metes and bounds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

The legal description plus a metes and bounds description for the designated property is included in this section.

Figure A1 is the proposed MSD boundary at 12225 FM 529 in Houston, Texas.

Tract 1 as depicted on **Figure A1** is described as "Tract Number 14" on the enclosed documents and is comprised of 4.43154 acres.

Tract 2 as depicted on **Figure A1** is described as "Tract B2" on the enclosed survey and is comprised of 22.1515 acres.



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

Proposed MSD Boundary and Surrounding Property Use

CLIENT: Milner Road Properties			PM: MFM
LOCATION: 12255 FM 529 Houston, Texas			CHECKED
DETAILED: 7/28/15	DESIGNED: CP	PROJECT NO: 702-102	FIGURE: **A1**

HOLD COMMONWEALTH TITLE

5 WD P

2008471416
09/09/2008 RP2 $32.00

SPECIAL WARRANTY DEED

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

THAT, **QUEST CHEMICAL CORPORATION**, a Texas corporation ("***Grantor***"), for and in consideration of the sum of TEN DOLLARS ($10.00) in hand paid to Grantor by **MILNER ROAD BUILDING, LLC**, a Texas limited liability company (herein referred to as "***Grantee***") whose mailing address is 12227 FM 529, Houston, Texas 77041, and other considerations, the receipt and sufficiency of which are hereby acknowledged and confessed, has GRANTED, BARGAINED, SOLD, TRANSFERRED, and CONVEYED, and by these presents does GRANT, BARGAIN, SELL, TRANSFER, and CONVEY unto Grantee: (i) that certain tract of real property located in Harris County, Texas, as more particularly described on **Exhibit "A"** attached hereto, incorporated herein and made a part hereof for all purposes (the "***Land***") and (ii) any and all buildings, structures, and other improvements, situated on the Land and all fixtures and other property affixed thereto, if any, including, without limitation, fences, pumps, well casings, monitoring gauges and piping (collectively, the "***Improvements***") (the Land and the Improvements are herein collectively referred to as the "***Property***").

This conveyance is made subject and subordinate to: (i) the matters herein stated; and (ii) all matters set forth on **Exhibit "B"** attached hereto (the matters described in items (i) and (ii) being referred to collectively as the "***Permitted Exceptions***").

TO HAVE AND TO HOLD the Property, subject to the Permitted Exceptions as aforesaid, unto Grantee, and Grantee's successors and assigns, forever; and Grantor does hereby bind Grantor, and Grantor's successors and assigns, to WARRANT and FOREVER DEFEND, all and singular, the Property, subject to the Permitted Exceptions, 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.

Grantor, for the same consideration and subject to the Permitted Exceptions, grants, sells, and conveys to Grantee, without any warranty, whether express or implied, all of Grantor's right, title and interest in and to, the strips and gores, if any, between the Property and any abutting or adjacent property, and any land lying in or under any public thoroughfare, opened or proposed, abutting or adjacent to the Property, together with, all and singular, the rights and appurtenances thereto in any way belonging, to have and to hold it unto Grantee, and Grantee's successors and assigns, forever. All warranties that might arise by common law, by statute or otherwise, including, without limitation, the warranties set forth in Section 5.023 (as amended) of the Texas Property Code (or its successor), are expressly excluded as to the property and items conveyed by this paragraph.

Real estate ad valorem taxes, assessments and standby fees for the year 2008 have been prorated as of the date hereof, and Grantee assumes the payment thereof and the same for subsequent years.

SIGNATURE PAGE FOLLOWS

FILED
2008 SEP -9 PM 1:51
COUNTY CLERK
HARRIS COUNTY, TEXAS

RP 059-22-5505

EXECUTED on the date set forth in the acknowledgement below, to be effective for all purposes as of the 5 day of September, 2008.

GRANTOR:

QUEST CHEMICAL CORPORATION, a Texas corporation

By: _____
Carl Hubble, President

STATE OF TEXAS §
§
COUNTY OF HARRIS §

This instrument was ACKNOWLEDGED before me, on the 5 day of September, 2008, by Carl Hubble, the President of **QUEST CHEMICAL CORPORATION**, a Texas corporation, on behalf of said corporation.

[S E A L]

Mary T. Ritchie
Notary Public, State of Texas

Printed Name of Notary Public_____

My Commission Expires: _____

MARY T. RITCHIE
Notary Public, State of Texas
My Commission Expires
March 24, 2011

RP 055-72-0836

22.1515 acres (964,918 square feet) of land, being part of a called 63.2254 acre tract of land described in partition deed dated September 17, 1929, to S. R. Zagst, as recorded in Volume 817, Page 475, of the Harris County Deed Records (HCDR), and the second tract described in a deed dated October 1, 1940, to S. R. Zagst as recorded in Volume 1184, Page 27, HCDR and in a deed recorded in Volume 490, Page 100, HCDR, Harris County, Texas, being more particularly described by metes and bounds terminology, bearings and coordinates related to the Texas State Plane Coordinate System, South Central Zone (NAD 83) as follows;

COMMENCING at a 5/8 inch iron rod with cap, found, in the south right-of-way of FM 529 (a.k.a. Spencer Road), (120 feet wide) from which the east line of the Francis Fry Survey lies 2,259.47 feet easterly along and coincident with said right-of-way and the intersection of said right-of-way with the east line of Signat Road bears westerly along said south right-of-way a distance of 1,226.55 feet, said 5/8 inch iron rod being the northeast corner of said Zagst tract, also being the northwest corner of the remainder of a tract of land as described in a deed dated July 1, 1992 from James E. Petersen to 529 #15, Ltd., as recorded in Harris County Clerk's File Number (HCCF#) N328377 and Film Code Number (FC#) 001-56-1481, said point occupying Texas State Plane Coordinate position Y=13,883,151.05 and X=3,047,148.48;

THENCE, S 02%%d 32' 06" E (called S 00%%d 50' 00" E), along and coincident with said 529 #15, Ltd. tract and on the east line of said Zagst tract, a distance of 1,051.56 feet, to a 5/8 inch iron rod with cap, set for the northeast corner and POINT OF BEGINNING of the herein described tract, occupying Texas State Plane Coordinate position Y=13,882,100.52 and X=3,047,195.01;

THENCE, S 02%%d 32' 06" E (called S 00%%d 50' 00" E), continuing along and coincident with the east line of said Zagst tract, a distance of 1,291.59 feet, to a 5/8 inch iron rod with cap, set for the southeast corner of the herein described tract;

THENCE, S 87%%d 51' 18" W, departing the east line of said Zagst tract, a distance of 752.27 feet to a 5/8 inch iron rod, with cap, set on the west line of said Zagst tract, for the southwest corner of the herein described tract;

THENCE, N 02° 04' 30" W, along and coincident with said west line, a distance of 1,291.56 feet to a 5/8 inch iron rod, set for the northwest corner of the herein described tract;

THENCE, N 87° 51' 18" E, a distance of 741.91 feet to the POINT OF BEGINNING, delineating and encompassing within the metes recited 22.1515 acres (964,918 square feet) of land, more or less, based on the Land Title Survey made by Thompson Surveying Company, Houston, Texas on February 28, 2007.

EXHIBIT "A"

EXHIBIT "B"

1. Rights of tenants in possession under unrecorded leases or rental agreements.

2. An easement of undisclosed width for construction, operation, maintenance or removal of telephone lines granted to Southwestern Bell Telephone Company in instrument recorded in Volume 1233, Page 316 and Volume 1254, Page 134, both of the Deed Records of Harris County, Texas.

3. Drainage easement for highway purposes granted to the State of Texas, as set forth in instrument recorded under Harris County Clerk's File No. T683477.

4. A 1/16th royalty interest in all of the oil, gas and other minerals in and under the above described property reserved by G.H. Spencer and others in instrument recorded in Volume 817, Page 475, corrected in Volume 1018, Page 560 of the Deed Records of Harris County, Texas.

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 time stamped hereon by me; and was duly RECORDED, in the Official Public Records of Real Property of Harris County Texas on

SEP - 9 2008

COUNTY CLERK
HARRIS COUNTY TEXAS

RECORDER'S MEMORANDUM:
At the time of recordation, this instrument was found to be inadequate for the best photographic reproduction because of illegibility, carbon or photo copy, discolored paper, etc. All blockouts, additions and changes were present at the time the instrument was filed and recorded.

ELECTRIC/LP #14

187-32-0041

L248072

07/29/87 00408539 L248072 $ 7.00

WD

DEED

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

THAT ELECTRIC MACHINERY & EQUIPMENT CORPORATION, a Texas corporation (hereinafter referred to as "Grantor"), for and in consideration of the sum of TEN AND NO/100 DOLLARS ($10.00) cash and other good and valuable consideration in hand paid by 529 #14, LTD., a Texas limited partnership (hereinafter referred to as "Grantee"), the receipt and sufficiency of which is hereby acknowledged and confessed, has GRANTED, SOLD and CONVEYED, and by these presents does GRANT, SELL and CONVEY unto Grantee the property, together with all improvements situated thereon (hereinafter referred to as "Subject Property") described on Exhibit "A" attached hereto and by this reference incorporated herein for all purposes.

Grantor does hereby convey the properties described above, together with all rights, titles and interests of Grantor in and to any roads, easements, streets and rights-of-way within, adjoining, adjacent or contiguous to the Subject Property, and all condemnation awards, reservations, remainders, together with each and every right, privilege, hereditament and appurtenance in anywise incident or appertaining to the Subject Property. The term "Subject Property" shall refer to and include the property as described in this paragraph.

This conveyance is made and accepted subject to the following matters, to the extent same are in effect at this time (i) any and all restrictions, covenants, conditions, liens, encumbrances, reservations, easements, and other exceptions to title, if any, relating to the Subject Property, shown of record in the hereinabove mentioned County and State, and (ii) all zoning laws, regulations and ordinances of municipal and/or other governmental authorities, if any, relating to the Subject Property.

TO HAVE AND TO HOLD the Subject Property, together with all and singular the rights and appurtenances thereto in anywise belonging, unto Grantee and Grantee's successors and assigns forever. And Grantor does hereby bind Grantor and Grantor's successors and assigns to warrant and forever defend all and singular the said Subject Property, unto Grantee and Grantee's successors and assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof.

Taxes for the current year have been prorated and are assumed by Grantee.

EXECUTED on this the 30th day of December, 1986.

ELECTRIC MACHINERY & EQUIPMENT CORPORATION, a Texas corporation

By: _____
JAMES E. PETERSEN, President

ADDRESS OF GRANTEE:

529 #14, Ltd., a Texas limited partnership
c/o Northwoods Management, Inc., a Texas corporation
425 North Wayside
Houston, Texas 77001

THE STATE OF TEXAS §
§
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared JAMES E. PETERSEN, President of ELECTRIC MACHINERY & EQUIPMENT CORPORATION, a Texas corporation, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, in the capacity therein stated and as the act and deed of said corporation.

GIVEN UNDER MY HAND AND SEAL OF OFFICE on this 30th day of December, 1986.

[SEAL]

L. Don Knight
NOTARY PUBLIC, IN AND FOR THE STATE OF T E X A S

L. Don Knight
Notary's name printed

My Commission Expires:
L. DON KNIGHT
Notary Public, State of Texas
My Commission Expires 7-23-89

JEB95/26

TRACT NUMBER 14

187-32-0043

A tract of land containing 4.43154 acres out of the Francis Fry Survey, A-277, Harris County, Texas, being out of a tract partitioned to S. R. Zagst, and being more particularly described by metes and bounds as follows:

COMMENCING at an I.R. in the south line of F.M. No. 529 (Spencer Road), said point being the N.E. corner of the Francis Fry Survey, A-277;

THENCE S 88° 54.0' W, along the south line of F.M. No. 529, 2259.47 feet to a point of reference;

THENCE S 0° 50.0' E, 1079.87 feet to a point for the N.E. corner and the PLACE OF BEGINNING;

THENCE S 0° 50.0' E, 391.91 feet to a point for the S.E. corner;

THENCE N 89° 45.8' W, 500.00 feet to a point for the S.W. corner;

THENCE N 0° 50.0' W, 380.25 feet to a point for the N.W. corner;

THENCE N 88° 54.0' E, 500.00 feet to the PLACE OF BEGINNING.

FILED
JUL 29 10 55 AM '87
Anita Rodeheaver
COUNTY CLERK
HARRIS COUNTY, TEXAS

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 }

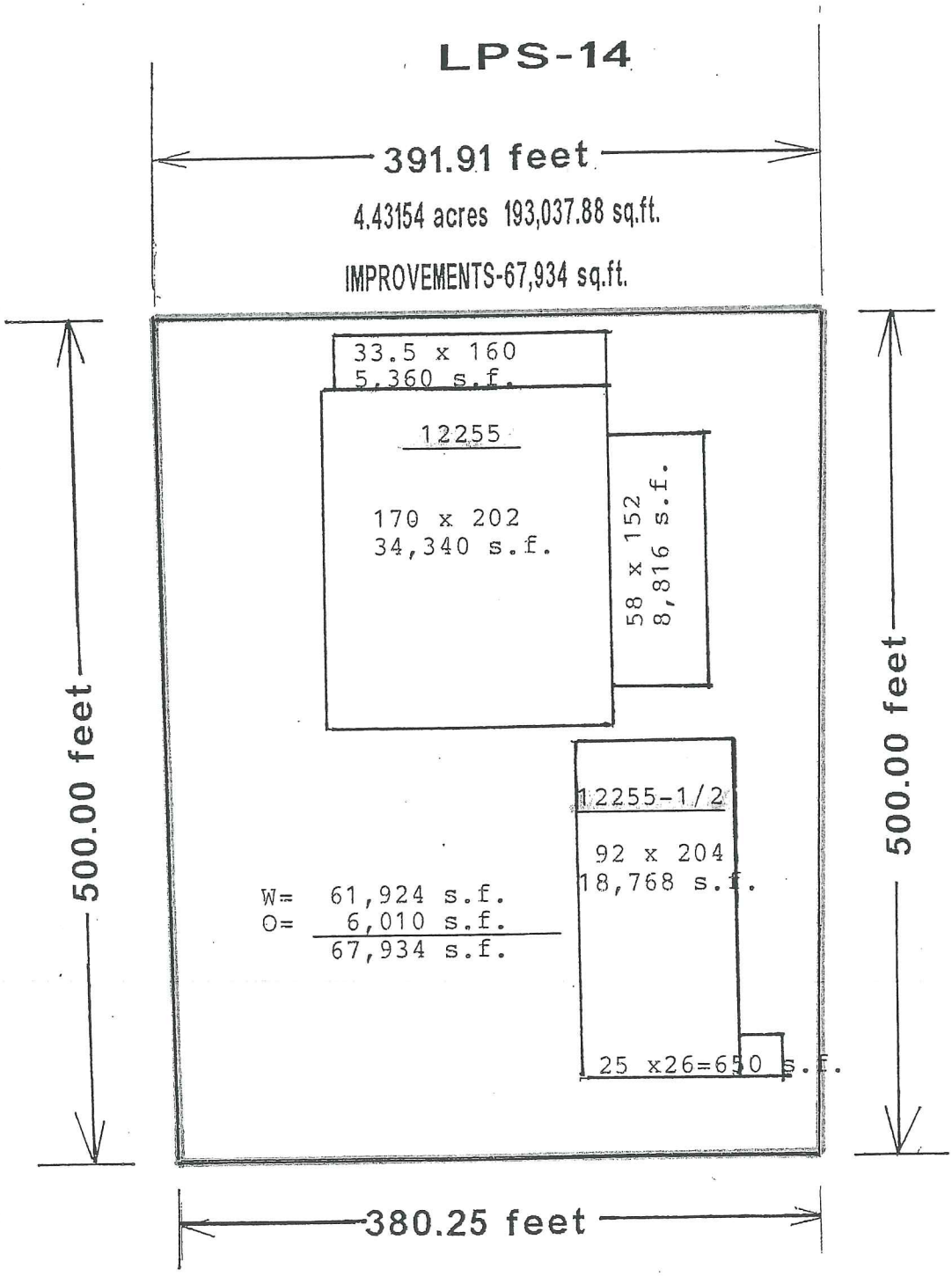
I hereby certify that this instrument was FILED in File Number Sequence on the date and at the time stamped hereon by me; and was duly RECORDED, in the Official Public Records of Real Property of Harris County, Texas on

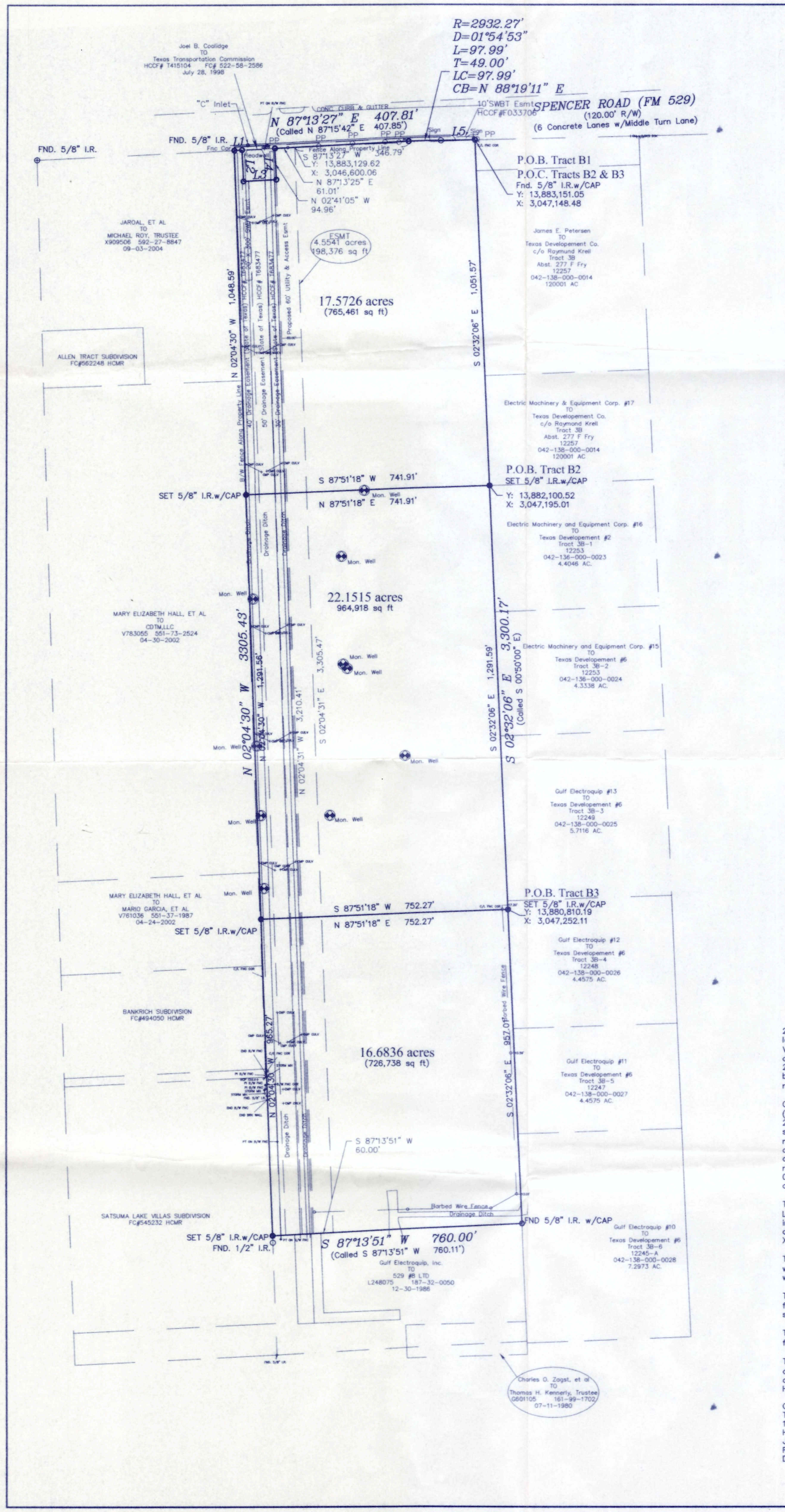
JUL 29 1987

COUNTY COURT OF HARRIS COUNTY TEXAS

Anita Rodeheaver
COUNTY CLERK
HARRIS COUNTY, TEXAS

LPS-14


391.91 feet
4.43154 acres 193,037.88 sq.ft.
IMPROVEMENTS-67,934 sq.ft.
33.5 x 160
5,360 s.f.
12255
170 x 202
34,340 s.f.
58 x 152
8,816 s.f.
12255-1/2
92 x 204
18,768 s.f.
25 x26=650 s.f.
W= 61,924 s.f.
O= 6,010 s.f.
67,934 s.f.
500.00 feet
500.00 feet
380.25 feet



LINE TABLE

MEASURED			CALLED		
LINE	DISTANCE	BEARING	LINE	DISTANCE	BEARING
L1	23.43'	N 86°47'59" E	L1	23.44'	N 87°15'42" E
L2	95.12'	S 02°50'11" E	L2	95.00'	S 02°44'18" E
L3	99.97'	N 87°13'09" E	L3	100.00'	N 87°13'03" E
L4	94.96'	N 02°41'05" W	L4	95.00'	N 02°44'18" W
L5	104.10'	N 89°01'39" E	L5	104.86'	N 89°10'36" E

TO: 529/QUEST, VISTA BANK TEXAS, TNRG ACQUISITIONS, LLC, LANDAMERICA COMMONWEALTH TITLE OF HOUSTON & COMMONWEALTH LAND TITLE INSURANCE COMPANY, EXCLUSIVELY.

TRACT B1
METES AND BOUNDS DESCRIPTION
17.5726 ACRES OF LAND OUT OF
FRANCIS FRY SURVEY, ABSTRACT 277
HOUSTON, HARRIS COUNTY, TEXAS

17.5726 acres (765,461 square feet) of land, being part of a called 63.2254 acre tract of land described in partition deed dated September 17, 1929, to S. R. Zagst, as recorded in Volume 817, Page 475, of the Harris County Deed Records (HCDR), and the second tract described in a deed dated October 1, 1940, to S. R. Zagst as recorded in Volume 1184, Page 27, HCDR and in a deed recorded in Volume 490, Page 100, HCDR, Harris County, Texas, being more particularly described by metes and bounds terminology, bearings and coordinates related to the Texas State Plane Coordinate System, South Central Zone (NAD 83) as follows;

BEGINNING at a 5/8 inch iron rod with cap, found, in the south right-of-way of FM 529 (a.k.a. Spencer Road), (120 feet wide) from which the east line of the Francis Fry Survey lies 2,259.47 feet easterly along and coincident with said right-of-way and the intersection of said right-of-way with the east line of Signat Road bears westerly along said south right-of-way a distance of 1,226.55 feet, said 5/8 inch iron rod being the northeast corner and POINT OF BEGINNING of the herein described tract, also being the northwest corner of the remainder of a tract of land as described in a deed dated July 1, 1992 from James E. Petersen to 529 #15, Ltd., as recorded in Harris County Clerk's File Number (HCCF#) N328377 and Film Code Number (FC#) 001-56-1481, said point occupying Texas State Plane Coordinate position Y=13,883,151.05 and X=3,047,148.48;

THENCE, S 02° 32' 06" E (called S 00° 50' 00" E), along and coincident with said 529 #15, Ltd. Tract, a distance of 1,051.56 feet, to a 5/8 inch iron rod, set, for the southeast corner of the herein described tract;

THENCE, S 87° 51' 18" W, departing said east line of Zagst Tract, a distance of 741.91 feet to a 5/8 inch iron rod, with cap, set for the southwest corner of the herein described tract, also being a point on the east line of a tract of land as described in a deed dated April 30, 2002 from Mary Elizabeth Hall, et al to CDTM, LLC as recorded in HCCF# V783055 and FC#551-73-2524;

THENCE, N 02° 04' 30" W, along and coincident with said CDTM, LLC tract, passing at distance of 347.62 feet the northeast corner of said CDTM, LLC tract also being the southeast corner of a tract pf land as described in a deed dated September 30, 2004 from Jaroal, et to Michael Roy, Trustee as recorded in HCCF# X909506 and FC# 592-27-8847, continuing in all a distance of 1,048.59 feet, to a 5/8 inch iron rod found for the northwest corner of the herein described tract , also being the northeast corner of said Michael Roy tract, said point being on said south line of FM 529;

THENCE, N 86° 47' 59" E, along and coincident with said south line of FM 529, a distance of 23.43 feet to a 5/8 inch iron rod, with cap, found for a corner of the herein described tract;

THENCE, S 02° 50' 11" E, departing said south line of FM 529, a distance of 95.12 feet to a 5/8 inch iron rod, with cap, found for a corner of the herein described tract;

THENCE, N 87° 13' 09" E, a distance of 99.97 feet to a 5/8 inch iron rod, with cap, found for a corner of the herein described tract;

THENCE, N 02° 41' 05" W, a distance of 94.96 feet to a 5/8 inch iron rod, with cap, found on said south right-of-way of FM 529, for a corner of the herein described tract;

THENCE, N 87° 13' 27" E, along and coincident with said south line of FM 529, a distance of 407.81 feet, (called N 87° 13' 27" E, 407.85 feet) to a 5/8 inch iron rod, with cap, found for a point of curvature of the herein described tract;

THENCE, along and coincident with said south line of FM 529 also being along the arc of a curve to the right and easterly, an arc distance of 97.99 feet to a 5/8 inch iron rod, found for the end of curve, said curve having a radius of 2,932.27 feet, a central angle of 01° 54' 53", and a long chord which bears N 88° 19' 11" E, 97.99 feet;

THENCE, N 89° 01' 39" E, continuing along and coincident with said south right-of-way of FM 529, a distance of 104.10 feet to the POINT OF BEGINNING, delineating and encompassing within the metes recited 17.5726 acres (765,461 square feet) of land, more or less, based on the Land Title Survey made by Thompson Surveying Company, Houston, Texas on February 28, 2007.

Compiled by:
Thompson Surveying Company
10034 Clay Road
Houston, Texas 77080
Job No. 070201
Ref: 070201
Document Id: 070201B1B.lgl.wpd

TRACT B2
METES AND BOUNDS DESCRIPTION
22.1515 ACRES OF LAND OUT OF
FRANCIS FRY SURVEY, ABSTRACT 277
HOUSTON, HARRIS COUNTY, TEXAS

22.1515 acres (964,918 square feet) of land, being part of a called 63.2254 acre tract of land described in partition deed dated September 17, 1929, to S. R. Zagst, as recorded in Volume 817, Page 475, of the Harris County Deed Records (HCDR), and the second tract described in a deed dated October 1, 1940, to S. R. Zagst as recorded in Volume 1184, Page 27, HCDR and in a deed recorded in Volume 490, Page 100, HCDR, Harris County, Texas, being more particularly described by metes and bounds terminology, bearings and coordinates related to the Texas State Plane Coordinate System, South Central Zone (NAD 83) as follows;

COMMENCING at a 5/8 inch iron rod with cap, found, in the south right-of-way of FM 529 (a.k.a. Spencer Road), (120 feet wide) from which the east line of the Francis Fry Survey lies 2,259.47 feet easterly along and coincident with said right-of-way and the intersection of said right-of-way with the east line of Signat Road bears westerly along said south right-of-way a distance of 1,226.55 feet, said 5/8 inch iron rod being the northeast corner of said Zagst tract, also being the northwest corner of the remainder of a tract of land as described in a deed dated July 1, 1992 from James E. Petersen to 529 #15, Ltd., as recorded in Harris County Clerk's File Number (HCCF#) N328377 and Film Code Number (FC#) 001-56-1481, said point occupying Texas State Plane Coordinate position Y=13,883,151.05 and X=3,047,148.48;

THENCE, S 02° 32' 06" E (called S 00° 50' 00" E), along and coincident with said 529 #15, Ltd. tract and on the east line of said Zagst tract, a distance of 1,051.56 feet, to a 5/8 inch iron rod with cap, set for the northeast corner and POINT OF BEGINNING of the herein described tract, occupying Texas State Plane Coordinate position Y=13,882,100.52 and X=3,047,195.01;

THENCE, S 02° 32' 06" E (called S 00° 50' 00" E), continuing along and coincident with the east line of said Zagst tract, a distance of 1,291.59 feet, to a 5/8 inch iron rod with cap, set for the southeast corner of the herein described tract;

THENCE, S 87° 51' 18" W, departing the east line of said Zagst tract, a distance of 752.27 feet to a 5/8 inch iron rod, with cap, set on the west line of said Zagst tract, for the southwest corner of the herein described tract;

THENCE, N 02° 04' 30" W, along and coincident with said west line, a distance of 1,291.56 feet to a 5/8 inch iron rod, set for the northwest corner of the herein described tract;

THENCE, N 87° 51' 18" E, a distance of 741.91 feet to the POINT OF BEGINNING, delineating and encompassing within the metes recited 22.1515 acres (964,918 square feet) of land, more or less, based on the Land Title Survey made by Thompson Surveying Company, Houston, Texas on February 28, 2007.

Compiled by:
Thompson Surveying Company
10034 Clay Road
Houston, Texas 77080
Job No. 070201
Ref: 070201
Document Id: 070201BB2.lgl.wpd

TRACT B3
METES AND BOUNDS DESCRIPTION
16.6836 ACRES OF LAND OUT OF
FRANCIS FRY SURVEY, ABSTRACT 277
HOUSTON, HARRIS COUNTY, TEXAS

16.6836 acres (726,738 square feet) of land, being part of a called 63.2254 acre tract of land described in partition deed dated September 17, 1929, to S. R. Zagst, as recorded in Volume 817, Page 475, of the Harris County Deed Records (HCDR), and the second tract described in a deed dated October 1, 1940, to S. R. Zagst as recorded in Volume 1184, Page 27, HCDR and in a deed recorded in Volume 490, Page 100, HCDR, Harris County, Texas, being more particularly described by metes and bounds terminology, bearings and coordinates related to the Texas State Plane Coordinate System, South Central Zone (NAD 83) as follows;

COMMENCING at a 5/8 inch iron rod with cap, found, in the south right-of-way of FM 529 (a.k.a. Spencer Road), (120 feet wide) from which the east line of the Francis Fry Survey lies 2,259.47 feet easterly along and coincident with said right-of-way and the intersection of said right-of-way with the east line of Signat Road bears westerly along said south right-of-way a distance of 1,226.55 feet, said 5/8 inch iron rod being the northeast corner of said Zagst tract, also being the northwest corner of the remainder of a tract of land as described in a deed dated July 1, 1992 from James E. Petersen to 529 #15, Ltd., as recorded in Harris County Clerk's File Number (HCCF#) N328377 and Film Code Number (FC#) 001-56-1481, said point occupying Texas State Plane Coordinate position Y=13,883,151.05 and X=3,047,148.48;

THENCE, S 02° 32' 06" E (called S 00° 50' 00" E), along and coincident with said 529 #15, Ltd. tract and on the east line of said Zagst tract, a distance of 2,345.29 feet, to a 5/8 inch iron rod with cap, set for the northeast corner and POINT OF BEGINNING of the herein described tract, occupying Texas State Plane Coordinate position Y=13,880,810.19 and X=3,047,252.11;

THENCE, S 02° 32' 06" E (called S 00° 50' 00" E), continuing along and coincident with the east line of said Zagst tract, a distance of 957.01 feet, to a 5/8 inch iron rod with cap, found for the southeast corner of the herein described tract, also being the southeast corner of said Zagst Tract and the northeast corner of a tract of land as described in a deed dated December 30, 1986 from Gulf Electroquip, Inc. To 529 #28, Ltd. as recorded in HCCF# L248075 and FC# 187-32-0050;

THENCE, S 87° 13' 51" W, along and coincident with said Gulf Electroquip, Inc. tract, a distance of 760.00 feet (called S 87° 13' 51" W, 760.11 feet) to a 5/8 inch iron rod, with cap, found for the southwest corner of the herein described tract, from which a 1/ 2 inch iron rod bears S 01° 42' 53" E, 20.95 feet;

THENCE, N 02° 04' 30" W, along and coincident with the west line of said Zagst tract, a distance of 965.27 feet to a 5/8 inch iron rod with cap, set for the northwest corner of the herein described tract, also being a point in the east line of a tract of land as described in a deed dated April 24, 2002 from Mary Elizabeth Hall, et al to Mario Garcia, et al as recorded in HCCF#V761036 and FC# 551-37-1987;

THENCE, N 87° 51' 18" E, a distance of 752.27 feet to the POINT OF BEGINNING, delineating and encompassing within the metes recited 16.6836 acres (726,738 square feet) of land, more or less, based on the Land Title Survey made by Thompson Surveying Company, Houston, Texas on February 28, 2007.

Compiled by:
Thompson Surveying Company
10034 Clay Road
Houston, Texas 77080
Job No. 070201
Ref: 070201
Document Id: 070201BB3.lgl.wpd

UTILITY & ACCESS EASEMENT
METES AND BOUNDS DESCRIPTION
4.5541 ACRES OF LAND OUT OF
FRANCIS FRY SURVEY, ABSTRACT 277
HOUSTON, HARRIS COUNTY, TEXAS

4.5541 acres (198,376 square feet) of land, being part of a called 63.2254 acre tract of land described in partition deed dated September 17, 1929, to S. R. Zagst, as recorded in Volume 817, Page 475, of the Harris County Deed Records (HCDR), and the second tract described in a deed dated October 1, 1940, to S. R. Zagst as recorded in Volume 1184, Page 27, HCDR and in a deed recorded in Volume 490, Page 100, HCDR, Harris County, Texas, being more particularly described by metes and bounds terminology, bearings and coordinates related to the Texas State Plane Coordinate System, South Central Zone (NAD 83) as follows;

COMMENCING at a 5/8 inch iron rod with cap, found, in the south right-of-way of FM 529 (a.k.a. Spencer Road), (120 feet wide) from which the east line of the Francis Fry Survey lies 2,259.47 feet easterly along and coincident with said right-of-way and the intersection of said right-of-way with the east line of Signat Road bears westerly along said south right-of-way a distance of 1,226.55 feet, said 5/8 inch iron rod being the northeast corner of said Zagst tract, also being the northwest corner of the remainder of a tract of land as described in a deed dated July 1, 1992 from James E. Petersen to 529 #15, Ltd., as recorded in Harris County Clerk's File Number (HCCF#) N328377 and Film Code Number (FC#) 001-56-1481, said point occupying Texas State Plane Coordinate position Y=13,883,151.05 and X=3,047,148.48;

THENCE, S 89° 01' 39" W (called S 89° 10' 36" W), along and coincident with said south right-of-way of FM 529, a distance of 104.10 feet (called 104.86 feet), to a 5/8 inch iron rod, found for a point of curvature;

THENCE, continuing along and coincident with said south line of FM 529 also being along the arc of a curve to the left and westerly, an arc distance of 97.99 feet to a 5/8 inch iron rod, found for the end of curve, said curve having a radius of 2,932.27 feet, a central angle of 01° 54'53", and a long chord which bears S 88° 19' 11" W, 97.99 feet;

THENCE, S 87° 13' 27" W, continuing along and coincident with said south line of FM 529, a distance of 346.79 feet (called S 87° 15' 42" W) to a point for the northeast corner and POINT OF BEGINNING of the herein described tract, said point occupying Texas State Plane Coordinate position Y=13,883,129.62 and X=3,046,600.06;

THENCE, S 02° 04' 31" E, a distance of 3,305.47 feet to a point on the south line of said Zagst Tract, for the southeast corner of the herein described tract, said point also being on the north line of a tract of land as described un a deed dated December 30, 1986, from Gulf Electroquip, Inc. To 529 #8, Ltd., as recorded in HCCF# L248075 and FC# 187-32-0050;

THENCE, S 87° 13' 51" W, along and coincident with the north line of said 529 #8, Ltd. Tract, a distance of 60.00 feet to a point on the south line of said Zagst Tract, for the southwest corner of the herein described tract;

THENCE, N 02° 04' 31" E, a distance of 3,210.41 feet to a 5/8 inch iron rod with cap, found, for the southeast corner of a tract of land as described in a deed dated July 28, 1998, from Joel B. Coolidge to Texas Transportation Commission as recorded in HCCF# T415104 and FC# 522-58-2586;

THENCE, N 02° 41' 05" W, along and coincident with said Texas Transportation tract, a distance of 94.96 feet to a 5/8 inch iron rod with cap, found on the south right-of-way line of said FM 529, for the northwest corner of the herein described tract;

THENCE, N 87° 13' 27" E, continuing along and coincident with said south right-of-way of FM 529, a distance of 61.01 feet to the POINT OF BEGINNING, delineating and encompassing within the metes recited 4.5541 acres (198,376 square feet) of land, more or less, based on the Land Title Survey made by Thompson Surveying Company, Houston, Texas on February 28, 2007.

Compiled by:
Thompson Surveying Company
10034 Clay Road
Houston, Texas 77080
Job No. 070201
Ref: 070201
Document Id: 070201E2.lgl.wpd

200 0 200 400 600
Scale: 1"=200'

STATE OF TEXAS REGISTERED L. A. THOMPSON 3987 PROFESSIONAL LAND SURVEYOR

5 OF 9

04-16-2007	[signature]	3987
DATE	L. A. THOMPSON	R.P.L.S. NO.

I HEREBY CERTIFY TO THE ABOVE NAMED RECIPIENTS THAT THIS DRAWING CORRECTLY REFLECTS THE RESULTS OF AN ON-THE-GROUND SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION.

ANY COPY OF THIS DRAWING MUST BEAR THE SURVEYORS ORIGINAL SEAL AND SIGNATURE IN RED INK OR THE DRAWING IS AN UNAUTHORIZED REPRODUCTION WHICH MAY HAVE BEEN ALTERED OR CHANGED WITHOUT THE SURVEYOR'S KNOWLEDGE OR CONSENT.

THIS ORIGINAL WORK IS PROTECTED UNDER COPYRIGHT LAWS, TITLE 17 UNITED STATES CODE SECTIONS 101 AND 102. ALL VIOLATORS WILL BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW

THIS PROFESSIONAL SERVICE SUBSTANTIALLY CONFORMS TO THE CURRENT TEXAS SOCIETY OF PROFESSIONAL SURVEYORS CATEGORY 1A, CONDITION II SURVEY.

BE IT KNOWN THAT THE SURVEYOR HAS RELIED UPON DEEDS, EASEMENTS, AND A TITLE COMMITMENT FOR TITLE INSURANCE ISSUED BY LANDAMERICA COMMONWEALTH TITLE OF HOUSTON, INC., G.F. NO. 2616001019A, EFFECTIVE DATE OF 01-02-2007, ISSUED 01-30-2007. AS BEING ACCURATE AND UP-TO-DATE.

GENERAL NOTES

1. Bearings shown are based on the Texas State Plane Co-ordinate System, South Central Zone (NAD 1983) as determined via GPS observations.
2. Upon examination of the Flood Insurance Rate Map, (F.I.R.M.) Map Number 48201C0440L, Dated 09-30-2004, the tract hereon depicted lies partially in Zone: "X" Unshaded: Defined as: Areas determined to be outside the of 0.2 percent annual chance flood. WARNING: This statement is based on scaling the location of this survey on the above F.I.R.M. This information is intended to be used to determine Insurance Rates only, and not to identify specific flooding conditions.
3. Future redevelopment of the subject site is subject to the City of Houston Ordinance Number 42-150, pertaining to building lines and to local, county and state subdivision platting procedures and regulations.
4. For additional building restrictions, please see Restrictive Covenants.
5. This survey plat is accompanied by a separate Metes and Bounds description, per the Texas Board of Professional Land Surveyors "General Rules of Procedures and Practices", Section 663.19 (9).
6. The City of Houston and Harris County are NOT Zoned.
7. Unlocatable easement per Volume 133, Page 316, HCDR may or may not affect the subject tract.
8. 10' SWBT Easement (HCCF# F033706) adjoins the sbuject tract along the northern boundary and does NOT overlap the subject tract.

LEGEND

SET 5/8" I.R. w/CAP
FND 5/8" I.R. w/CAP
FND 5/8" I.R.
FND (Size called)
POWER POLE
P.P. POWER POLE
T.P. TRANSFORMER POLE
S/L STREET LIGHT
A/L AREA LIGHT
D.G. DOWN GUY
F.H. FIRE HYDRANT
W.V. WATER VALVE
W.M. WATER METER
M.H. MANHOLE
C/O CLEAN OUT
SWBT ENCLOSURE
PIPELINE MARKER
GAS METER
GV GAS VALVE
SIGN POST
MW Monitor Well
TC TOP OF CURB
G GUTTER

UTILITY LEGEND

SANITARY SEWER
STORM SEWER
WATER
GAS (ENTEX)
OVERHEAD POWERLINES (H.L. & P.)

Thompson Surveying Company
Land Surveying/Mapping/GPS/GIS
10034 Clay Road
Houston, Texas 77080
713-895-7348

LAND TITLE SURVEY
TNRG ACQUISITIONS

56.4077 ACRES IN THREE TRACTS
OF LAND BEING OUT OF
FRANCIS FRY SURVEY, A-277
(HCCF# S567126, HCDR)
HOUSTON, HARRIS COUNTY, TEXAS

LANDAMERICA COMMONWEALTH TITLE OF HOUSTON, INC.	KEY MAP #: 409-N	DATE: 02-28-2007	SCALE: 1"=200'	JOB NO. 070201
GF#: 2616001019A	CENSUS TRACT NO. 5401	National Realty Group	DWG: 070201BB3.DWG	

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 comprised of two adjacent parcels of land totaling 26.58304-acres. Tract 1 is 4.43154-acres and is owned by 529 #14 Ltd and Tract 2 is 22.1515-acres and was purchased by Milner Road Building LLC in 2008.

The properties are located northwest of downtown Houston, Harris County, Texas. The subject property is outside the City of Houston limits and within the extraterritorial jurisdiction (ETJ). The affected property is located in a primarily commercial/industrial development with residential development to the southwest (**Figure A1**). **Figure A1** provides a description of the surrounding land use within 500-feet of the site.

Tract 1 is undeveloped. The eastern portion of the subject property (Tract 1) was developed in the 1980s with a multi-tenant warehouse complex, and Tract 2 is currently undeveloped (**Figure A1**). Future use of both Tracts 1 and 2 is expected to be commercial/industrial.

- North – commercial/ industrial development followed by FM 529;
- East – commercial/ industrial development;
- South – eastern tract is bounded to the south by further commercial/ industrial development. Western tract is bounded to the south by vacant land followed by Northwest Drive;
- West – a drainage channel followed by vacant land which is bordered to the west by Signat Drive.

The drainage ditch along the western boundary is approximately 5-feet deep. The groundwater bearing unit is well below the bottom of the drainage ditch. Groundwater does not seep into the ditch and is not believed to be a secondary source and/or transport mechanism. Surface water and sediment samples collected from the ditch did not report detectable levels of any site related chemicals of concern.

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.

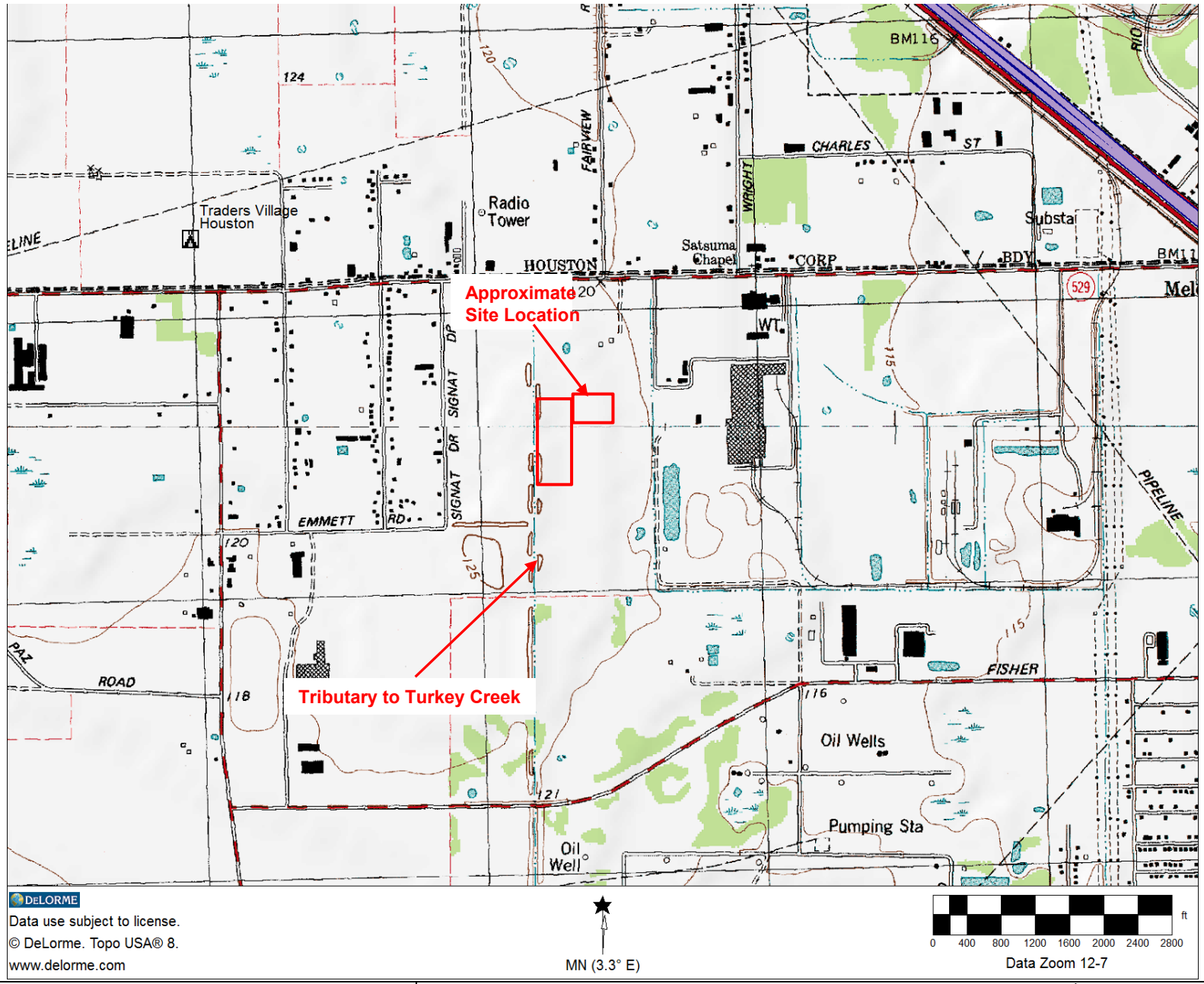
The following is a listing of figures included in **Appendix C**.

Figure C1 – Topographic Map
Figure C2 – Flood Plain and Watershed Map
Figure C3-1 – PCE Concentrations in Groundwater (May 2015)
Figure C3-2 – TCE Concentrations in Groundwater (May 2015)
Figure C3-3 – cis-1,2-DCE Concentrations in Groundwater (May 2015)
Figure C3-4 – Vinyl Chloride Concentrations in Groundwater (May 2015)
Figure C3-5 – 1,1-DCE Concentrations in Groundwater (May 2015)
Figure C4-1 – Soil Sample Location Map
Figure C4-2 – Groundwater Sample Location Map
Figure C5-1 – Groundwater Gradient Map – First GWBU (May 2015)
Figure C5-2 – Groundwater Gradient Map – Second GWBU (May 2015)

The subject property (Tracts 1 and 2) is located within the Addicks Reservoir watershed and the property is not located within the 100-year floodplain (**Figure C2**).

Figure C3-1 through **Figure C3-6** depicts all of the groundwater PCLE zones within the proposed MSD boundary. **Figure C4-1** and **Figure C4-2** depict the locations of the soil and groundwater samples, respectively. Groundwater in this area tends to flow towards the confluence of Horsepen Creek and Langham Creek (**Figure C5-1**). The primary chemicals of concern (COCs) are PCE, TCE, cis-1,2-DCE, vinyl chloride, and 1,1-DCE (**Figure C3-1** through **Figure C3-6**).

There are two groundwater bearing units defined at the subject site. There are at least two distinct plumes in the area. The plumes are restricted to the upper groundwater bearing unit located approximately 20 to 30-feet below ground surface. Groundwater in the upper groundwater bearing unit flows to the south/southwest. The plume associated with the former Quest Chemical site extends in the southwest direction to a line of wells including MW-4, MW-5, MW-9 and MW-10. The second plume is located near a truck repair facility located further down gradient (MW-12 and MW-29). The solvents identified in this area of the site have a different signature or make-up and are unique to this area. While

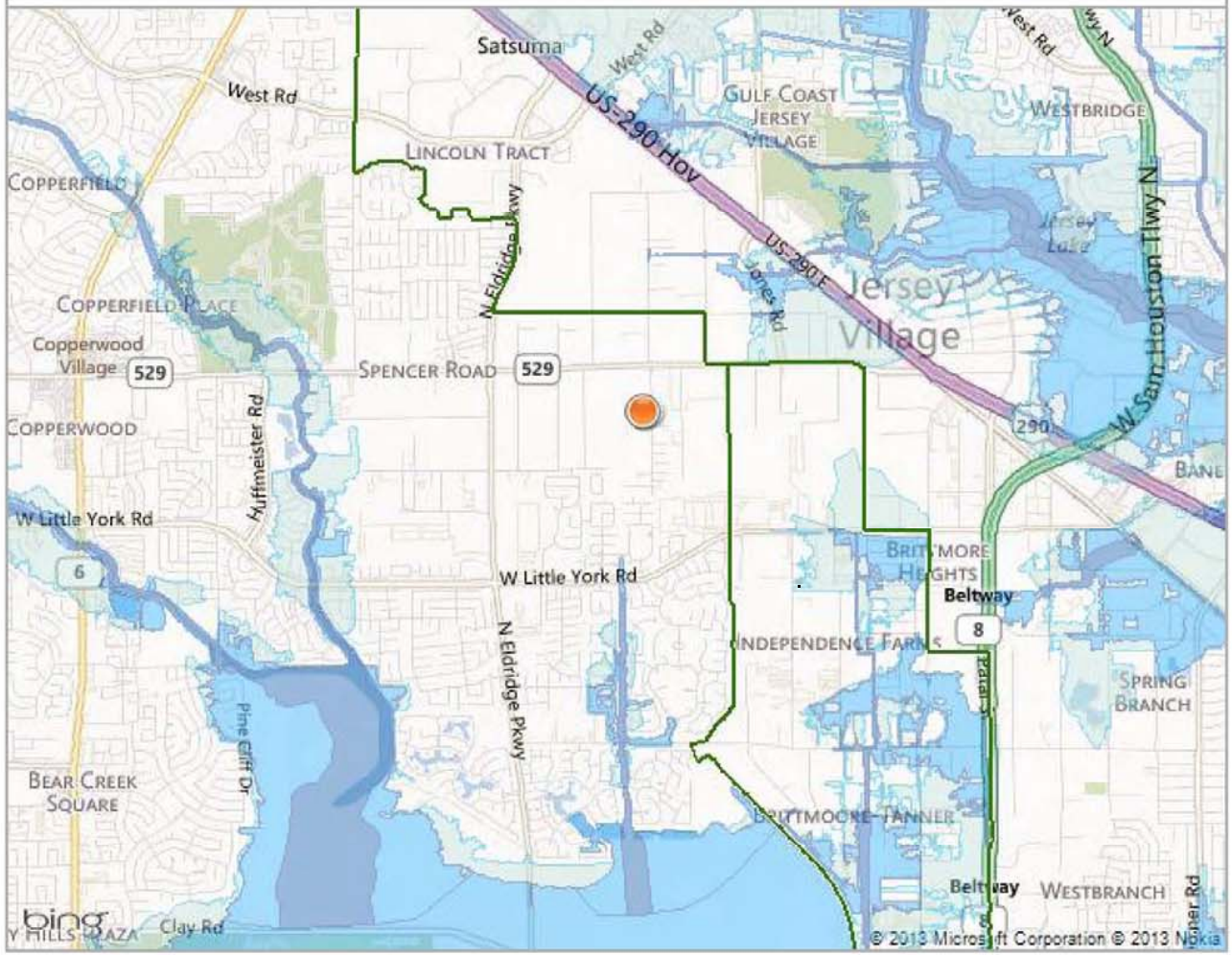


N

Source:
USGS 7.5-minute
Topographic Map
Satsuma / Hedwig
Village, Texas.
Dated 1982.

InControl Technologies, Inc. 14731 Pebble Bend Drive Houston, Texas 77068 (281) 580-8892 FAX (281) 580-8853	**Topographic Map**	**Milner Road Building LLC**	LOCATION: 12255 FM 529 Houston, Texas 77041			CHECKED:
			DETAILED: 7/28/15	PM: MFM	PROJECT NO: 702-102	FIGURE: **C1**

Flood Education Mapping Tool



LEGEND

- Floodway
- 1% (100-year) Floodplain
- 0.2% (500-year) Floodplain
- 1% (100-year) Coastal Floodplain
- LOMR Boundary
- Open Channels
- Enclosed Channels
- Watershed Boundaries
- Harris County Boundary

N

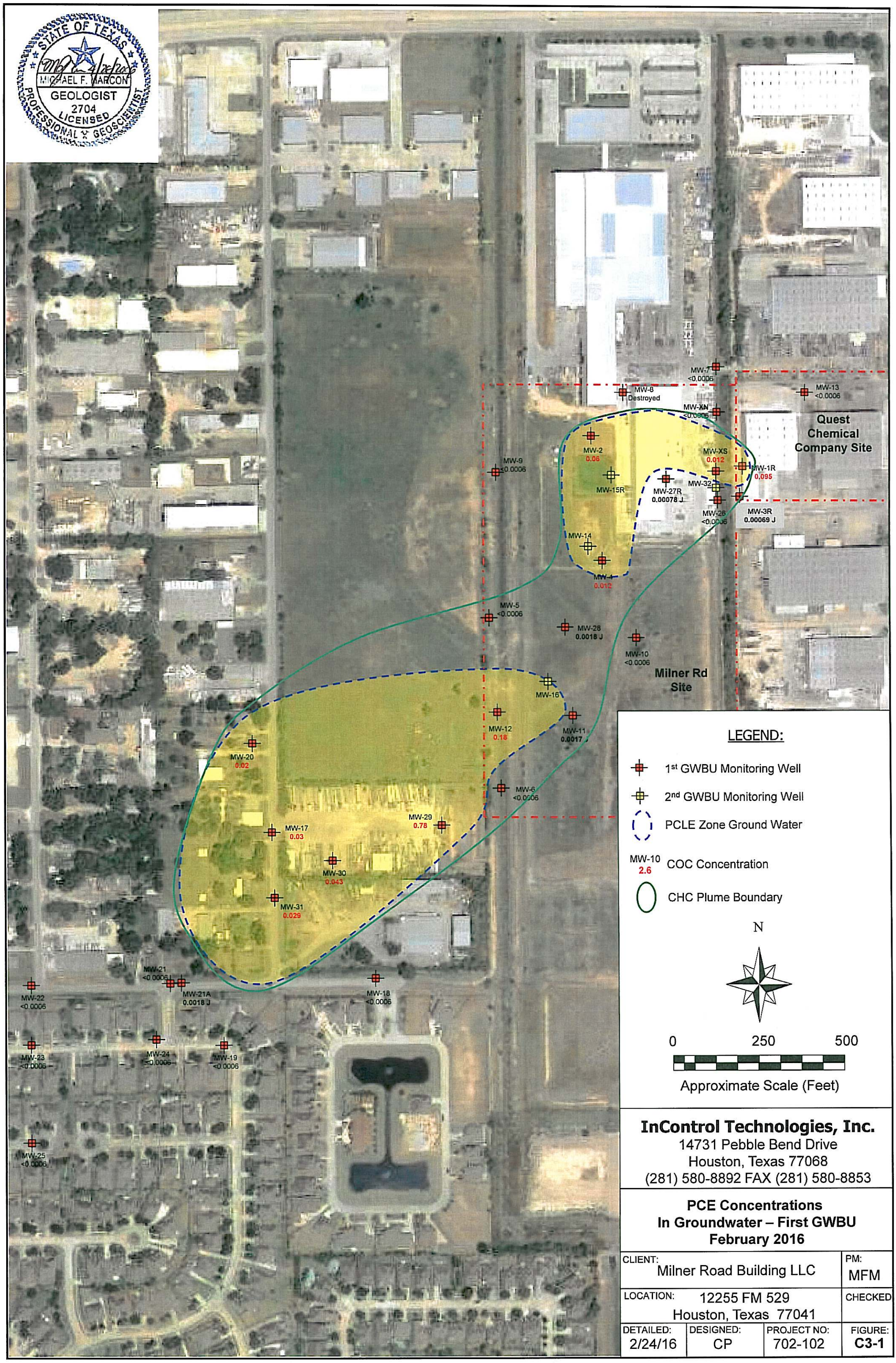
1 in = 5219 ft

(1 : 62628.82)

HARRIS COUNTY FLOOD CONTROL DISTRICT

DISCLAIMER: The Harris County Flood Control District's Flood Education Mapping Tool is for general information purposes only and may not be suitable for legal, engineering or surveying purposes. The floodplains shown on this mapping tool are those delineated on the Federal Emergency Management Agency's (FEMA) effective Flood Insurance Rate Map (FIRM or floodplain map) for Harris County that was adopted in 2007, as well as updates that have been made through a Letter of Map Revision (LOMR) since 2007. This mapping tool is not an effective FIRM. The effective FIRM is produced, maintained and published by FEMA and not by the Harris County Flood Control District. Please visit FEMA's Map Service Center at www.msc.fema.gov to view the effective FIRM for Harris County. For an official floodplain determination, please contact an insurance agent or mortgage lender. This map is a representation and approximation of the relative location of geographic information, land marks and physical addresses.

InControl Technologies, Inc. 14731 Pebble Bend Drive Houston, Texas 77068 (281) 580-8892 FAX (281) 580-8853	**Flood Plain and Watershed Map**	**Milner Road Building LLC**	LOCATION: 12255 FM 529 Houston, TX 77041			CHECKED:
			DETAILED: 7/28/15	PM: CP	PROJECT NO: 702-102	FIGURE: **C2**



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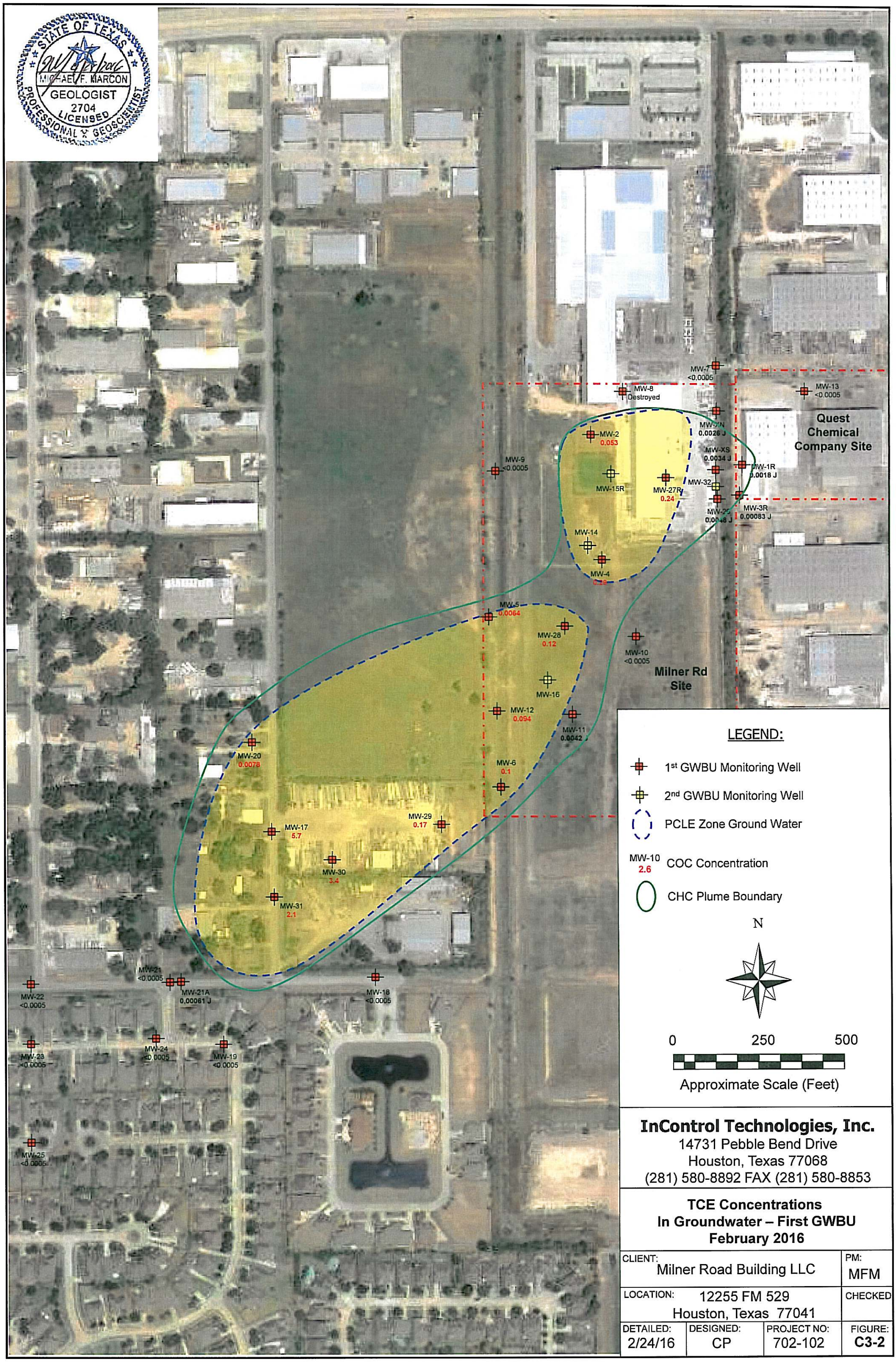
Houston, Texas 77068
(281) 580-8892 FAX (281) 580-8853

PCE Concentrations
In Groundwater – First GWBU
February 2016

CLIENT: Milner Road Building LLC			PM: MFM
LOCATION: 12255 FM 529 Houston, Texas 77041			CHECKED
DETAILED: 2/24/16	DESIGNED: CP	PROJECT NO: 702-102	FIGURE: C3-1



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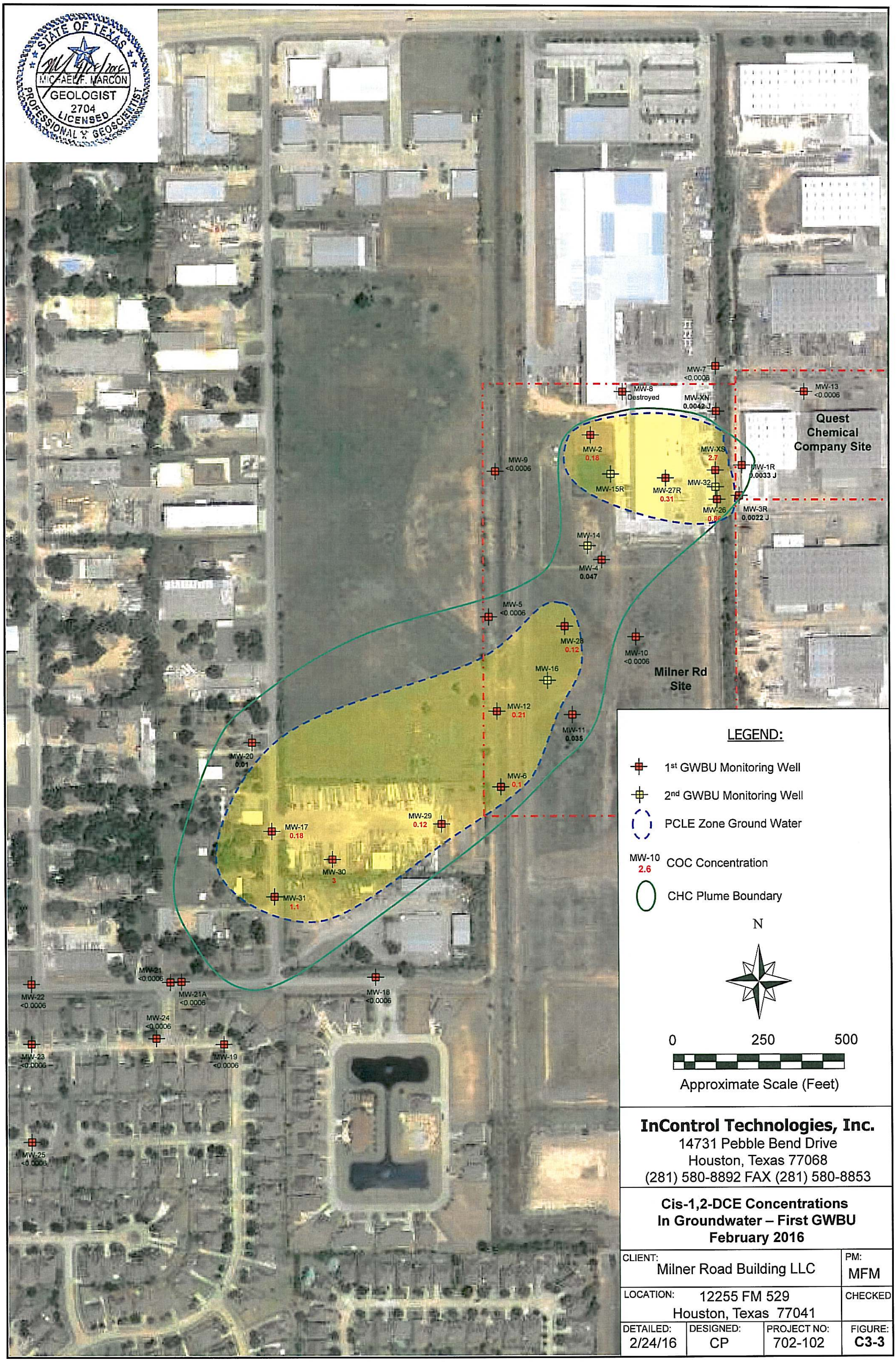
TCE Concentrations
In Groundwater – First GWBU
February 2016

CLIENT: Milner Road Building LLC			PM: MFM
LOCATION: 12255 FM 529 Houston, Texas 77041			CHECKED
DETAILED: 2/24/16	DESIGNED: CP	PROJECT NO: 702-102	FIGURE: C3-2



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Houston, Texas 77068
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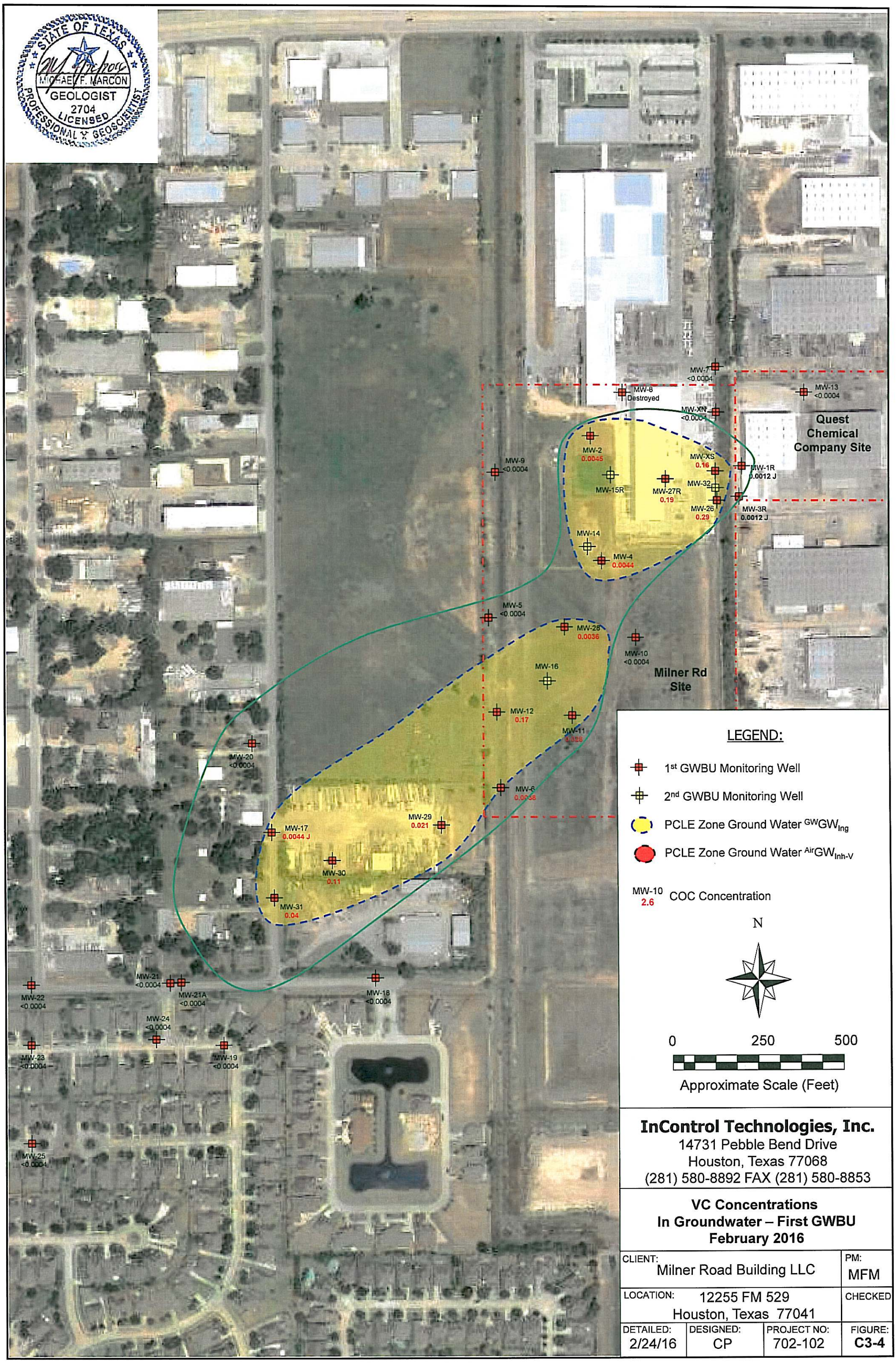
Cis-1,2-DCE Concentrations In Groundwater – First GWBU February 2016

CLIENT: Milner Road Building LLC			PM: MFM
LOCATION: 12255 FM 529 Houston, Texas 77041			CHECKED
DETAILED: 2/24/16	DESIGNED: CP	PROJECT NO: 702-102	FIGURE: C3-3

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



InControl Technologies, Inc.
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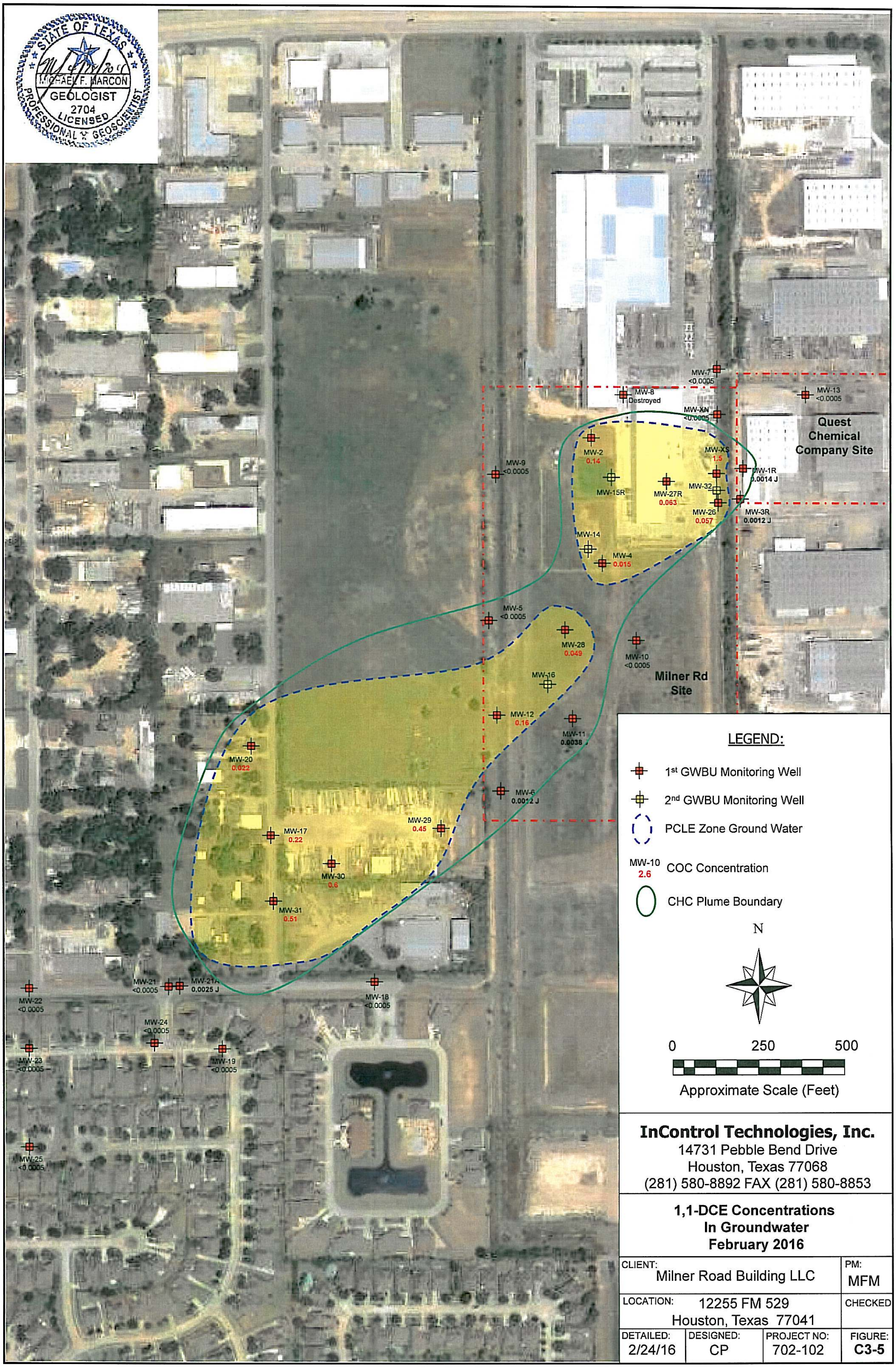
VC Concentrations
In Groundwater – First GWBU
February 2016

CLIENT: Milner Road Building LLC			PM: MFM
LOCATION: 12255 FM 529 Houston, Texas 77041			CHECKED
DETAILED: 2/24/16	DESIGNED: CP	PROJECT NO: 702-102	FIGURE: C3-4



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Houston, Texas 77068
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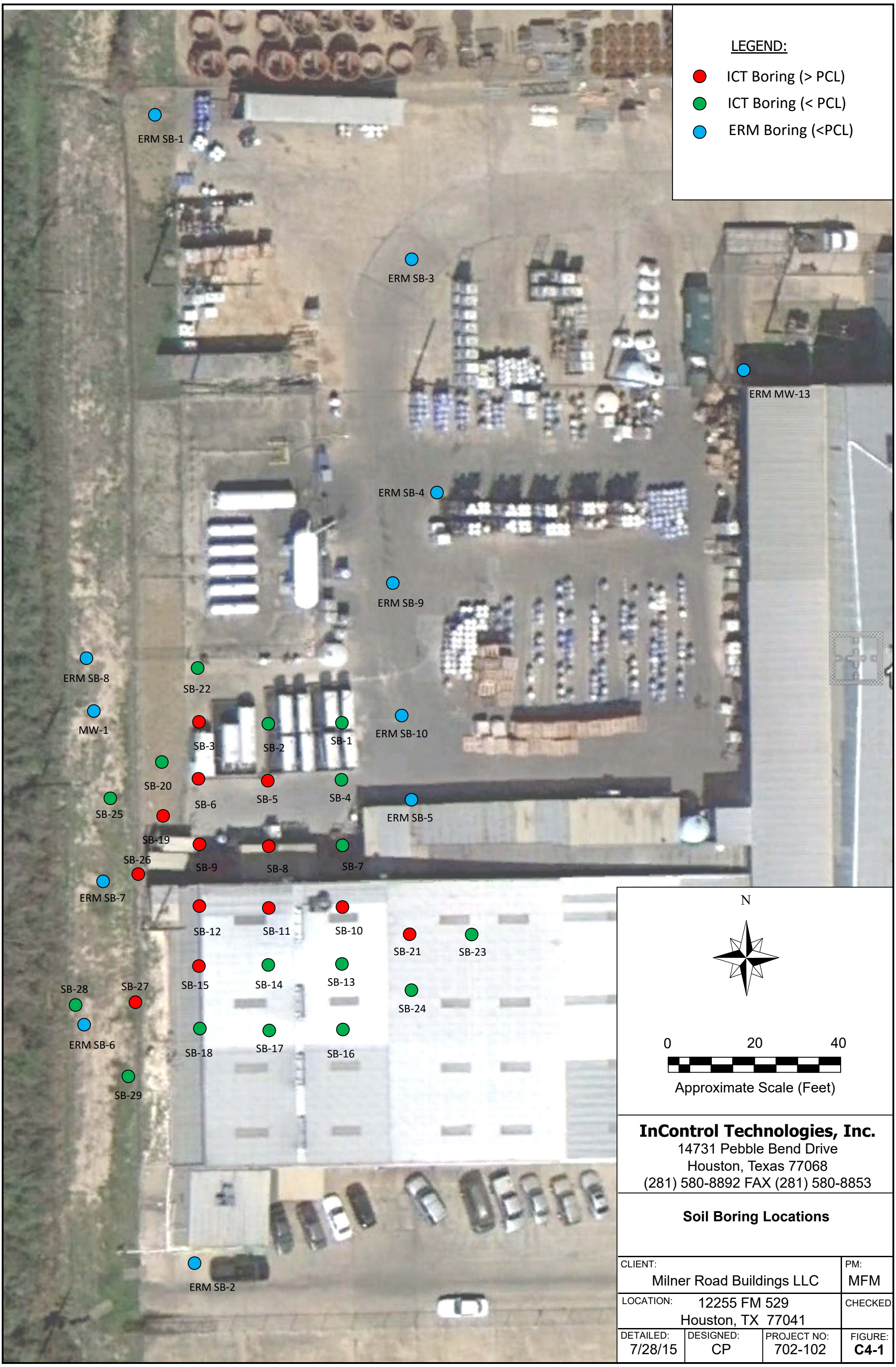
1,1-DCE Concentrations
In Groundwater
February 2016

CLIENT: Milner Road Building LLC			PM: MFM
LOCATION: 12255 FM 529 Houston, Texas 77041			CHECKED
DETAILED: 2/24/16	DESIGNED: CP	PROJECT NO: 702-102	FIGURE: C3-5



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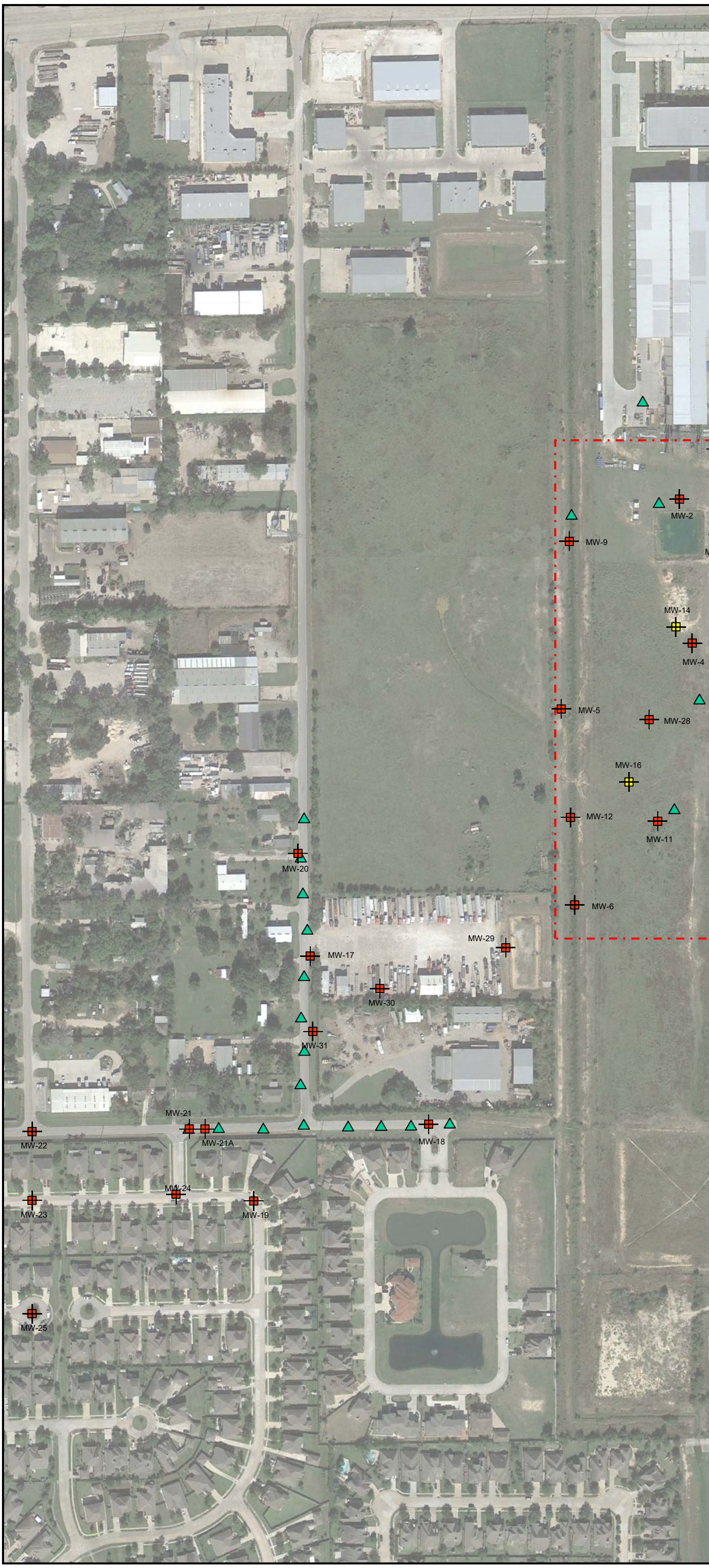
(281) 580-8892 FAX (281) 580-8853

Soil Boring Locations

CLIENT: Milner Road Buildings LLC			PM: MFM
LOCATION: 12255 FM 529 Houston, TX 77041			CHECKED:
DETAILED: 7/28/15	DESIGNED: CP	PROJECT NO: 702-102	FIGURE: **C4-1**



LEGEND:

- 1st GWBU Monitoring Well
- 2nd GWBU Monitoring Well
- CPT/DP Boring Location

N

0 250 500

Approximate Scale (Feet)

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Houston, Texas 77068
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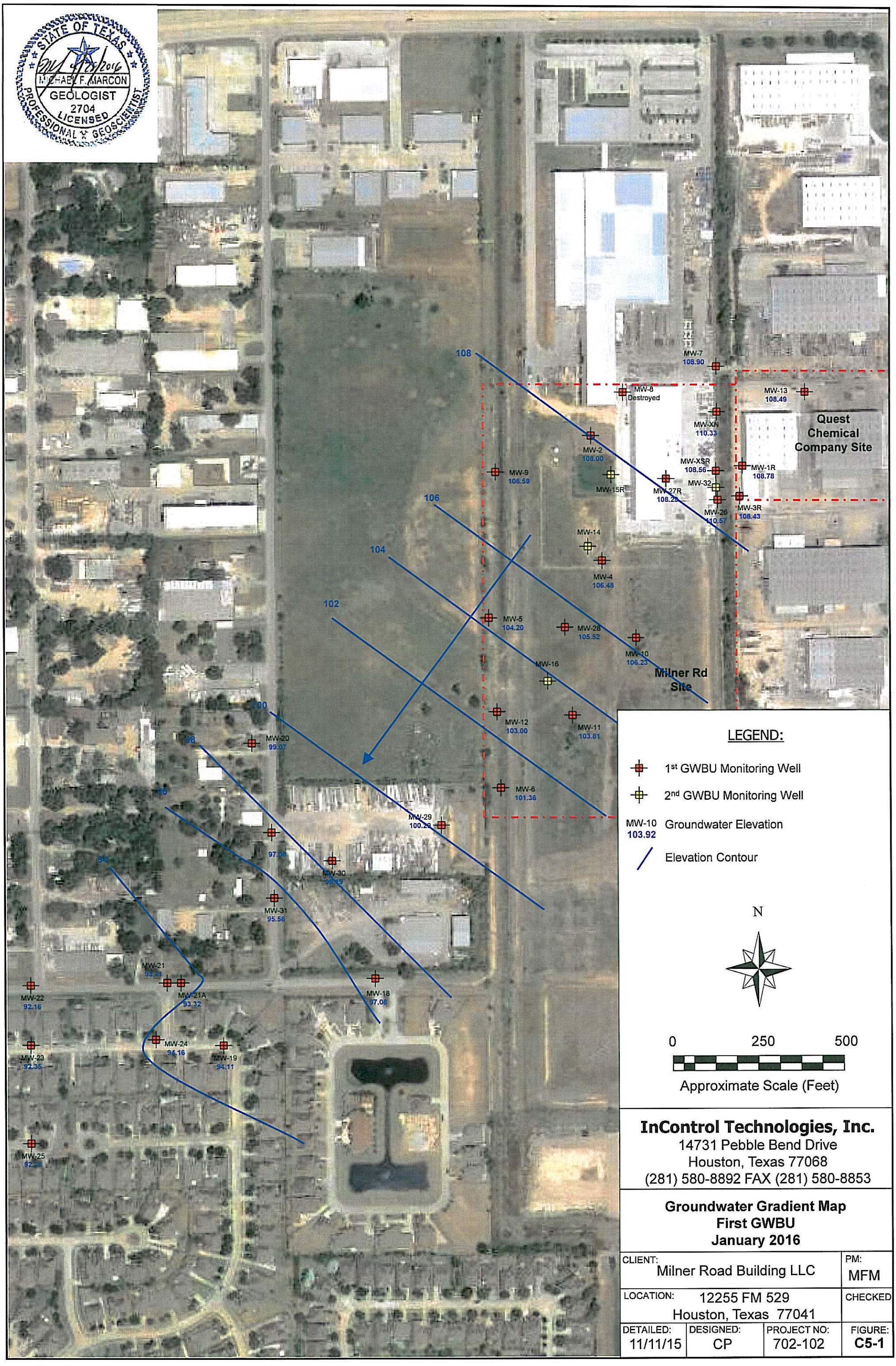
Sample Location Map
Groundwater

CLIENT: Milner Road Building LLC			PM: MFM
LOCATION: 12255 FM 529 Houston, Texas			CHECKED
DETAILED: 7/28/15	DESIGNED: CP	PROJECT NO: 702-102	FIGURE: **C4-2**

STATE OF TEXAS
MICHAEL F. MARCON
GEOLOGIST
2704
LICENSED
PROFESSIONAL GEOSCIENTIST
4/28/2016



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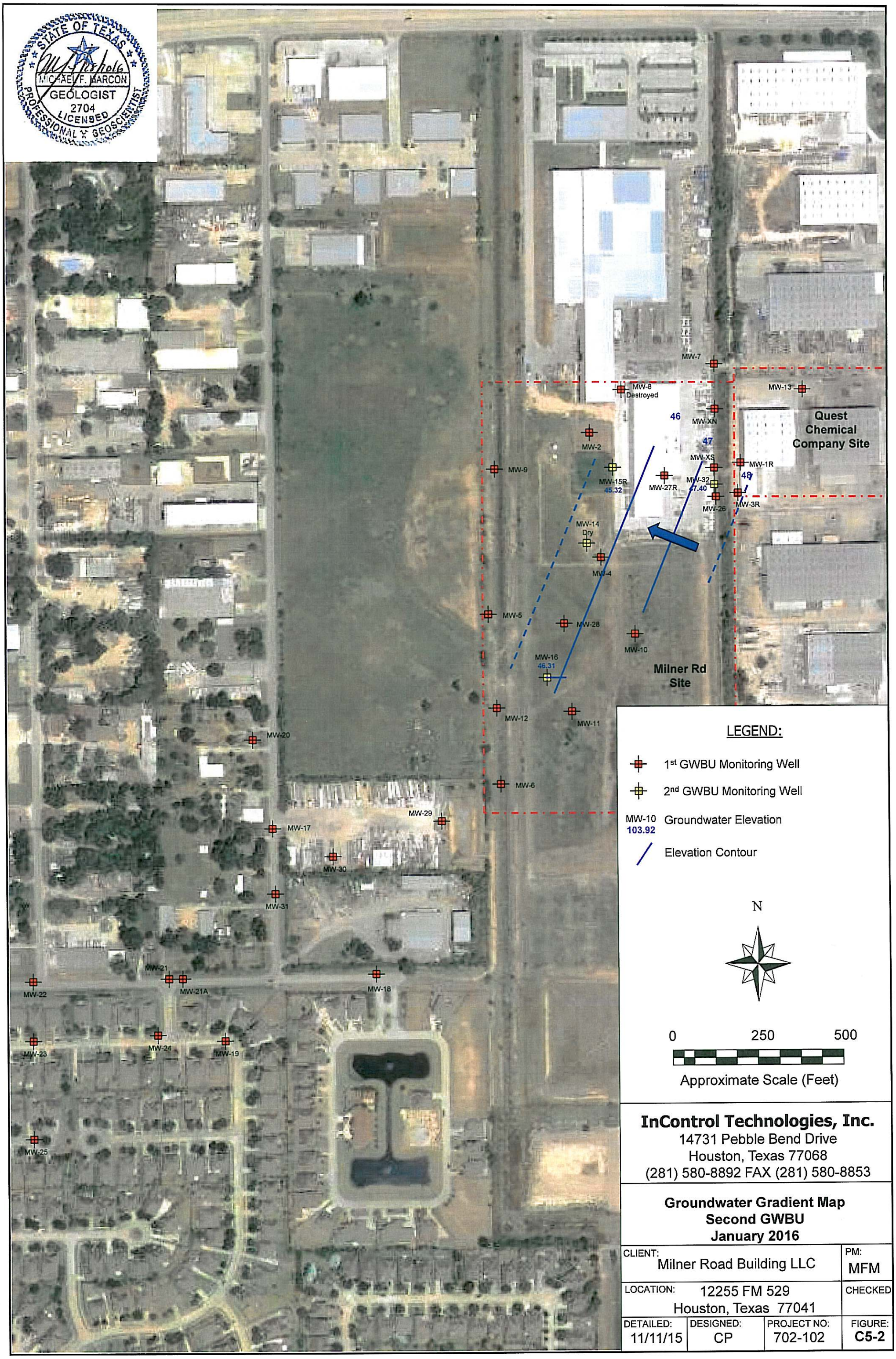
Houston, Texas 77068
(281) 580-8892 FAX (281) 580-8853

Groundwater Gradient Map
First GWBU
January 2016

CLIENT: Milner Road Building LLC			PM: MFM
LOCATION: 12255 FM 529 Houston, Texas 77041			CHECKED
DETAILED: 11/11/15	DESIGNED: CP	PROJECT NO: 702-102	FIGURE: C5-1

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



InControl Technologies, Inc.
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Houston, Texas 77068
(281) 580-8892 FAX (281) 580-8853

Groundwater Gradient Map
Second GWBU
January 2016

CLIENT: Milner Road Building LLC			PM: MFM
LOCATION: 12255 FM 529 Houston, Texas 77041			CHECKED
DETAILED: 11/11/15	DESIGNED: CP	PROJECT NO: 702-102	FIGURE: C5-2

identified in this area of the site have a different signature or make-up and are unique to this area. While this site has several chlorinated solvents, some similar to those of the northern plume, this plume is not believed to be associated with the release that occurred on the former Quest Chemical site.

A second deeper groundwater bearing unit was also identified on the subject property. Groundwater yield studies for the second groundwater bearing unit indicate that this zone is a low yield unit producing less than 150 gallons of water per day. Therefore, this unit was classified as a Class 3 Groundwater Bearing Unit. None of the observed concentrations of site related chemicals of concern exceed the target PCL within this zone. In addition, this zone is not in communication with other deeper groundwater bearing units. Therefore, this unit defines the lower bound of the groundwater plumes.

InControl Technologies used the information contained within the TRRP 8 Guidance Document to reclassify the second groundwater bearing unit as a Class 3 groundwater bearing unit. For the past four sampling events, the groundwater monitoring wells from the second groundwater bearing unit have pumped dry within 20 minutes. The wells were pumped at a rate of less than 0.1 liters per minute or 0.026 gallons per minute. Assuming a sustainable rate of 0.026 gallons per minute, the groundwater monitoring well would produce a yield of a rate of 37.4 gallons per day. Multiplying this rate by the 2-inch diameter correction factor of 1.10 for an unconfined aquifer would yield a daily rate of 41.1 gallons per day. This same result was repeated for four different groundwater monitoring events. Based on these results, InControl Technologies determined that the sustainable yield for groundwater in the second groundwater bearing unit is less than 150 gallons per day. This is confirmed by plotting the mean saturated thickness (4-feet) on the Well Yield for Unconfined Conditions in Figure 9 of TRRP 8. A sand (SP) would have an expected hydraulic conductivity of $1x10^{-6}$ to 1×10^{-4} cm per second (*Applied Hydrogeology, Fetter 2001*). To produce a yield greater than 150 gallons per day for the mean saturated thickness would require a hydraulic conductivity of $1x10^{-3}$ cm/second. This would be a coarse sand to fine gravel.

Groundwater in this unit flows to the northeast. While chemicals of concern were noted in MW-16 located immediately down gradient of the southern source, the reported levels are below the Class 3 Groundwater Ingestion PCLs. Groundwater monitoring wells (MW-15 and MW-32) completed in the deeper zone in the area of the former Quest operations did not report chemicals of concern at or above the Class 3 Groundwater PCLs. Therefore, this unit was not adversely impacted by historical activities at the Quest Chemical site.

Appendix D

Provide for each contaminant of concern within the designated groundwater:

a. A description of the ingestion protective concentration level exceedence zone and the non-ingestion protective concentration level exceedence zone, including a specification of the horizontal area and the minimum and maximum depth below ground surface.
b. The level of contamination, the ingestion protective concentration level, and the non-ingestion protective concentration level, all expressed as mg/L units.
c. Its basic geochemical properties (e.g. whether the contaminant of concern migrates with groundwater, floats, or is soluble in water).

A) Groundwater PCLE Zone – A review of recent groundwater sampling data indicates that the COCs that currently exceed the Tier 1 $^{GW}GW_{Ing}$ PCLs are tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), vinyl chloride, and 1,1-dichloroethene (1,1-DCE). Protective Concentration Level Exceedence (PCLE) zones are depicted on **Figure C3-1** through **Figure C3-5** and are discussed in more detail below. The area of affected groundwater is delineated in all directions. The PCLE zones are confined to the first groundwater bearing unit which is encountered at an approximate depth of 15- to 25-feet below ground surface (bgs). A review of the recent and historical groundwater data indicates the plume appears to be stable to decreasing.

Based on a review of boring logs, the shallow groundwater is encountered at a depth of approximately 15-feet bgs. The bottom of the shallow groundwater bearing unit is estimated at approximately 25-feet bgs. The second groundwater bearing unit is encountered at a depth of approximately 57-feet bgs. The first and second groundwater bearing units are separated by competent clay and then a significant thickness of unsaturated sand. There is a strong vertical gradient between the first and second GWBUs suggesting a competent confining layer between the two zones.

A comparison of the recent groundwater sampling results with applicable non-ingestion protective concentration levels ($^{Air}GW_{Inh-V}$) indicates that none of the groundwater samples reported a COC concentration above the $^{Air}GW_{Inh-V}$ PCL. While historically, vinyl chloride had exceeded the inhalation exposure pathway, current concentrations over the last year have been below the air inhalation PCL. Therefore, based on the recent groundwater monitoring results, there is no non-ingestion protective concentration level exceedance zone within the proposed MSD boundary.

B) Current groundwater sampling results indicate that there are several identified COCs (PCE, TCE, cis-1,2-DCE, vinyl chloride, and 1,1-DCE) that exceed the ingestion protective concentration levels on the subject property in the shallow groundwater bearing unit. **Figure C3-1** through **Figure C3-5** depicts the PCLE zones identified in shallow groundwater. A cumulative analytical data table for groundwater is included as **Table E2-1 and Table E2-2**. Groundwater COC concentrations are less than the $^{Air}GW_{Inh-V}$ non-ingestion PCL. Therefore, based on the monitoring data there is no non-ingestion PCLE zone on the subject property. As mentioned earlier, the second groundwater bearing unit is a Class 3 Groundwater bearing unit. None of the reported concentrations of site related chemicals of concern are above the Class 3 adjusted Groundwater PCLs (**Table E2-2**). Therefore, there is no PCL exceedance zone in the second groundwater bearing unit.

C) Groundwater COCs – The chemicals of concern (COCs) detected in groundwater samples (PCE, TCE, cis-1,2-DCE, vinyl chloride, and 1,1-DCE) from the northern plume are believed to be associated with the historic repackaging and distribution of solvents from the former Quest Chemical operations area. Quest Chemicals took bulk chemicals and repackaged them into smaller containers. Contaminants in the southern plume are outside the MSD boundary and are associated with potential releases from the truck maintenance facility located southwest of the subject property. Chlorinated solvents present in the southern plume are likely associated with industrial activities located south of the subject property.

Chlorinated solvents are characterized by their high volatility, high densities, low viscosities, low interfacial tension, low absolute solubility, high relative solubility, low portioning to soil materials and low degradability. Chlorinated solvents will dissolve in water at low concentrations but once the groundwater has reached the saturation limit for that compound, the chlorinated solvent will form a separate phase in equilibrium with the water. Because chlorinated solvents have higher densities relative to water, the separate phase will “sink”. These compounds are referred to as “dense non-aqueous phase liquids” (DNAPLs). In high concentrations DNAPLs will be able to penetrate the water table and form “pools” on the top of less permeable layers. Historically, DNAPL has not been identified in any of the monitor wells within the groundwater monitor well network and is not expected to be present at this site given the relatively low concentration of chlorinated solvents detected in groundwater.

Based on the field observations and laboratory results, it appears that the groundwater COCs on the subject property are primarily dissolved in the shallow groundwater.

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 exceedances.

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 $^{Air}Soil_{Inh-V}$) and groundwater ($^{Air}GW_{Inh-V}$), the critical protective concentration limits assuming no MSD is in place ($^{GW}Soil_{Ing}$ for soil and $^{GW}Soil_{Ing}$ for groundwater), and the critical PCLs assuming that an MSD is in place ($^{Tot}Soil_{Comb}$ for soil and $^{Air}GW_{Inh-V}$ for groundwater).

Table E1-1 is a summary of Volatile Organic Compounds (VOCs) in Soil on Tract 2

Table E1-2 is a summary of Volatile Organic Compounds (VOCs) in Soil on Tract 1

Table E2-1 is a summary of Volatile Organic Compounds (VOCs) in Shallow Groundwater

Table E2-2 is a summary of Volatile Organic Compounds (VOCs) in Deeper Groundwater

The target groundwater monitoring wells associated with the northern plume in the shallow groundwater bearing unit are MW-1, MW-2, MW-3, MW-4, MW-5, MW-7, MW-9, MW-10, MW-13, MW-26, MW-27, MW-28, MW-XN and MW-XS. It is our opinion that the northern chlorinated solvent plume in the shallow groundwater bearing unit is stable to decreasing. The plume was assessed as a whole and not specifically on a well by well basis. Plume stability should not be determined based on the variation within a single well, but across the plume in general. It is our opinion that the groundwater plume in shallow groundwater is stable with evidence that the plume is actually shrinking in size. Overall mass redistribution within the boundaries of the plume may be occurring, but the overall dynamics of the plume is stable to decreasing. As discussed earlier, there is evidence of two separate plumes on the subject property. While the only plume associated with the former Quest Chemical site is the northern plume, InControl Technologies has discussed plume stability for both plumes. The data strongly suggests that the total CHC contaminant mass is decreasing in both plumes and the data further suggests that both plumes are shrinking in aerial extent. A more detailed discussion is included in **Appendix G**.

Table E1-1
Summary of Volatile Organic Compounds in Soil
Milner Road Building
12255 FM 529, Houston, TX

Sample ID	Sample Depth (ft bgs)	Sample Date	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,2,4-Trimethylbenzene mg/kg	2-Butanone mg/kg	4-Methyl-2-pentanone mg/kg	Acetone mg/kg	cis-1,2-Dichloroethene mg/kg	Ethylbenzene mg/kg	m,p-Xylenes mg/kg	Naphthalene mg/kg	o-Xylene mg/kg	Toluene mg/kg	trans-1,2-Dichloroethene mg/kg	Trichloroethene mg/kg	Vinyl chloride mg/kg	Xylenes,Total mg/kg
Residential	$^{GW}GW_{Ing}$		**4.888**	**0.007**	**1.222**	**14.665**	**1.955**	**21.998**	**0.07**	**0.7**	--	**0.489**	**10**	**1**	**0.1**	**0.005**	**0.002**	**10**
Residential	$^{Tot}Soil_{Comb}$		11338.722	2294.633	150.833	39500.772	5885.579	65613.293	139.068	6394.413	--	220.759	48153.55	5934.217	589.543	17.546	3.697	5957.953
Residential	$^{Air}Soil_{Inh-V}$		36842.313	5219.328	156.605	201378.73	57867.341	597348.951	921.058	29166.831	--	267.656	68211.97	62938.95	921.058	30.702	42.642	9364.088
MW-27	16-17	5/27/2009	**0.13**	**0.081**	**0.0011 J**	**0.0048 J**	**0.0014 J**	**0.011 J**	**1.2**	**0.0081**	**0.019**	**0.00066 J**	**0.01**	**0.044**	**0.00095 J**	**0.0026 J**	**0.17**	**0.029**
MW-29	2-4	2/4/2010	<0.00057	<0.00057	<0.00057	<0.0016	<0.0011	<0.0023	<0.00057	<0.00057	<0.0011	<0.00057	<0.00057	<0.00057	<0.00057	<0.00057	<0.00057	<0.0017
	14-16	2/4/2010	<0.00057	<0.00057	<0.00057	<0.0016	<0.0011	<0.0023	<0.00057	<0.00057	<0.0011	<0.00057	<0.00057	<0.00057	<0.00057	<0.00057	<0.00057	<0.0017
MW-30	4-6	2/4/2010	<0.00057	<0.00057	<0.00057	<0.0016	<0.0011	<0.0023	<0.00057	<0.00057	<0.0011	<0.00057	<0.00057	<0.00057	<0.00057	<0.00057	<0.00057	<0.0017
	12-14	2/4/2010	<0.00058	<0.00058	<0.00058	<0.0016	<0.0012	<0.0023	<0.00058	<0.00058	<0.0012	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058	<0.0017
MW-31	6-8	2/5/2010	<0.0006	<0.0006	<0.0006	<0.0017	<0.0012	<0.0024	<0.0006	<0.0006	<0.0012	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0018
	12-14	2/5/2010	<0.00056	<0.00056	<0.00056	<0.0016	<0.0011	<0.0022	<0.00056	<0.00056	<0.0011	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	<0.0017

Notes: J: Compound detected in sample at the estimated value below the method detection limit.
<: Compound was not detected in the sample at or above the reported limit.

Table E1-2
Summary of Volatile Organic Compounds Detected in Soil
Former Quest Chemicals
12255 FM 529, Houston, Texas

Sample ID	Sample Depth (ft bgs)	Sample Date	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Acetone	Carbon disulfide	Chlorobenzene	Chloroethane	cis-1,2-Dichloroethylene	Ethylbenzene	Isopropylbenzene	m-Dichlorobenzene	Methyl ethyl ketone	Methylene chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Chlorotoluene	o-Dichlorobenzene	p-Isopropyltoluene	sec-Butylbenzene
			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	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Residential	$^{GW}Soil_{Ing}$		1.62	0.023	18.5	0.050	4.79	48.5	0.014	53.2	42.7	13.6	1.092	30.9	0.248	7.6	347	6.75	29.3	0.013	31.2	152	44.82	9.068	17.9	232	84.8
Residential	$^{Tot}Soil_{Comb}$		52971	30	11339	2295	123	151	11.4	113	65613	4648	523	26998	139	6394	4343	117	39501	480	221	3328	2158	1209	720	8190	3276
Residential	$^{Air}Soil_{Inh-V}$		78290	8.93	36842	5219	151	157	13.8	116	597349	10746	768	153510	921	29167	9247	123	201379	12792	268	6592	6322	13137	798	6862	5727
	0-2	10/25/2012	<0.0007	<0.0019	<0.00085	<0.0011	0.0019 J	0.0104	<0.00092	0.0039 J	0.131	0.0049	0.0313	<0.0017	0.0043 J	0.0107	<0.0012	0.0016 J	0.0316 J	<0.0027	0.0085	<0.0016	<0.0011	<0.00091	0.0018 J	0.0026 J	<0.00096
SB-1	6-8	10/25/2012	<0.00072	<0.0019	0.0012 J	<0.0011	<0.0015	<0.001	<0.00094	<0.0011	<0.011	0.0023 J	0.004 J	<0.0018	0.0049	<0.0011	<0.0013	<0.0011	0.0064 J	<0.0028	<0.0022	<0.0017	<0.0012	<0.00093	<0.0011	<0.0015	<0.00098
	4-5	10/25/2012	<0.00073	<0.002	0.00098 J	<0.0011	<0.0016	<0.001	<0.00096	<0.0011	0.0423 J	0.0027 J	<0.0011	<0.0018	0.0048	<0.0011	<0.0013	<0.0011	0.0087 J	<0.0029	0.0025 J	<0.0017	<0.0012	<0.00095	<0.0011	<0.0015	<0.001
SB-2	8-10	10/25/2012	<0.00073	<0.002	0.0041 J	<0.0011	<0.0016	<0.001	<0.00096	<0.0011	<0.011	0.0022 J	<0.0011	<0.0018	0.0026 J	<0.0011	<0.0013	<0.0011	<0.0057	<0.0029	<0.0023	<0.0017	<0.0012	<0.00095	<0.0011	<0.0015	<0.001
	2-4	10/25/2012	0.0266	<0.002	0.178	0.0605	<0.0016	0.0641	<0.00096	0.0237	0.665	0.0021 J	<0.0011	0.0272	0.902	0.114	0.0031 J	<0.0011	0.0343 J	0.0208	0.0511	0.0116	0.006	<0.00095	0.0727	0.0401	0.0059
SB-3	8-10	10/25/2012	0.0075	<0.002	0.452	0.0232	<0.0016	0.0021 J	<0.00097	<0.0011	3.64	0.002 J	<0.0011	0.0121	0.216	0.0075	<0.0013	<0.0011	0.0305 J	0.0233	0.0027 J	<0.0017	<0.0012	<0.00097	0.0039 J	<0.0015	<0.001
	2-4	10/25/2012	<0.00071	<0.0019	<0.00086	<0.0011	<0.0015	<0.001	<0.00093	<0.001	0.0727	0.0022 J	<0.001	<0.0017	<0.0012	<0.0011	<0.0012	<0.001	<0.0055	<0.0028	<0.0022	<0.0017	<0.0012	<0.00092	<0.0011	<0.0014	<0.00097
SB-4	8-10	10/25/2012	<0.00072	<0.0019	0.0025 J	<0.0011	<0.0015	<0.001	<0.00094	<0.0011	0.204	0.002 J	<0.0011	<0.0018	0.0059	<0.0011	<0.0013	<0.0011	<0.0056	<0.0028	<0.0023	<0.0017	<0.0012	<0.00094	<0.0011	<0.0015	<0.00098
	2-4	10/25/2012	<0.00071	<0.0019	0.0167	<0.0011	<0.0015	<0.001	<0.00093	<0.001	0.129	0.0025 J	<0.001	<0.0018	0.167	<0.0011	<0.0013	<0.001	0.0157 J	<0.0028	<0.0022	<0.0017	<0.0012	<0.00093	<0.0011	<0.0015	<0.00098
SB-5	8-10	10/25/2012	<0.00071	<0.0019	0.0198	<0.0011	<0.0015	<0.001	<0.00093	<0.001	<0.011	0.002 J	<0.001	<0.0017	0.096	<0.0011	<0.0012	<0.001	<0.0055	<0.0028	<0.0022	<0.0017	<0.0012	<0.00092	<0.0011	<0.0014	<0.00097
	4-5	10/25/2012	12.7	<0.41	1.09	1.1	<0.32	5.37	<0.2	1.94	6.23 J	<0.25	<0.22	<0.37	46.2	9.08	0.321 J	<0.22	<1.2	<0.59	2.86	1.75	0.639 J	<0.2	3.43	1.87	0.427 J
SB-6	8-10	10/25/2012	16.4	<2.2	<0.98	1.91 J	<1.7	1.69 J	<1.1	<1.2	20.4 J	<1.4	<1.2	<2.0	35.7	4.98 J	<1.4	<1.2	<6.3	<3.2	<2.5	<1.9	<1.3	<1.1	1.82 J	<1.6	<1.1
	4-5	10/25/2012	<0.00065	<0.0017	0.0138	<0.001	<0.0014	<0.00093	<0.00085	<0.00096	0.0543	<0.0011	<0.00095	<0.0016	<0.0011	<0.00099	<0.0011	<0.00096	<0.0051	0.0033 J	<0.002	<0.0015	<0.0011	<0.00085	<0.00099	<0.0013	<0.00089
SB-7	8-10	10/25/2012	<0.0007	<0.0019	0.0327	<0.0011	<0.0015	<0.001	<0.00092	<0.001	0.0176 J	<0.0012	<0.001	<0.0017	0.0033 J	<0.0011	<0.0012	<0.001	<0.0055	0.003 J	<0.0022	<0.0017	<0.0011	<0.00091	<0.0011	<0.0014	<0.00096
	4-5	10/25/2012	0.0094	<0.0019	0.0055	<0.0011	<0.0015	0.0172	<0.00094	0.0061	0.268	0.0037 J	<0.001	<0.0018	0.005	0.0097	<0.0013	<0.0011	0.0119 J	0.0034 J	0.0171	<0.0017	0.0012 J	<0.00093	0.0065	0.0068	0.0011 J
SB-8	8-10	10/25/2012	<0.00071	<0.0019	0.022	<0.0011	<0.0015	<0.001	<0.00093	<0.001	0.0296 J	<0.0012	<0.001	<0.0017	0.0467	<0.0011	<0.0012	<0.001	<0.0055	0.0035 J	<0.0022	<0.0017	<0.0012	<0.00092	<0.0011	<0.0014	<0.00097
	0-2	10/25/2012	0.404	<0.11	0.304	<0.063	<0.087	0.348	<0.053	0.0945 J	3.89	<0.068	<0.059	<0.1	8.43	0.389	<0.071	<0.06	<0.31	0.248 J	0.272	<0.095	<0.066	<0.053	0.406	0.257	<0.055
SB-9	8-10	10/25/2012	0.0839 J	<0.11	0.559	0.23 J	<0.087	<0.057	<0.053	<0.059	52.6	<0.068	<0.059	<0.1	26.6	<0.061	<0.071	<0.059	1.37 J	<0.16	0.205 J	<0.095	<0.066	<0.053	0.426	<0.082	<0.055
	4-6	10/25/2012	13.3	<0.22	2.98	1.61	<0.17	0.861	<0.11	0.3 J	6.88	<0.14	<0.12	<0.2	6.91	2.09	<0.14	<0.12	<0.63	2.7	0.504 J	0.209 J	<0.13	0.202 J	4.89	0.167 J	<0.11
SB-10	6-8	10/25/2012	238	<2.2	33.7	36.2	<1.7	25.8	<1.1	9.31	<13.0	<1.4	<1.2	<2.0	96.8	72.6	1.72 J	<1.2	<6.3	4.4 J	10.9	5.57	3.42 J	<1.1	144	4.95 J	2.46 J
	2-4	10/26/2012	0.296	<0.093	0.157 J	<0.054	<0.074	0.106 J	<0.045	<0.051	29	<0.058	<0.051	<0.085	2.88	0.153 J	<0.061	<0.051	<0.27	1.44	<0.11	<0.081	<0.056	<0.045	0.65	<0.071	<0.047
SB-11	6-8	10/26/2012	48.5	<1.1	1.72 J	1.91 J	<0.9	10	<0.55	3.46	18.2 J	<0.7	<0.61	<1.0	23.1	25.8	<0.74	<0.62	<3.3	1.62 J	2.55 J	2.47 J	1.29 J	<0.55	23.6	2.05 J	1.33 J
	0-2	10/26/2012	2.04	<0.41	0.252 J	<0.24	<0.33	2.26	<0.2	0.759 J	2.58 J	<0.26	<0.23	<0.38	5.67	2.27	<0.27	<0.23	<1.2	<0.61	0.903 J	0.581 J	0.313 J	<0.2	7.22	0.682 J	<0.21
SB-12	8-10	10/26/2012	14.2	<1.0	0.976 J	<0.58	<0.8	3.87	<0.49	1.34 J	<5.9	<0.63	<0.55	<0.92	17.5	5.74	<0.66	<0.55	<2.9	3.03 J	2.1 J	1.08 J	0.624 J	<0.49	22.7	0.769 J	<0.51
	4-5	10/26/2012	0.0048	<0.0018	0.244 J	<0.001	<0.0014	0.0062	0.0029 J	0.002 J	9.99	0.0032 J	<0.00097	<0.0016	0.0303	0.0085	<0.0012	<0.00097	0.183	0.0118	<0.0021	0.0017 J	<0.0011	0.0014 J	0.0827	0.0022 J	<0.00091
SB-13	8-10	10/26/2012	0.0021 J	<0.0018	0.0428	<0.001	<0.0014	<0.00094	0.0022 J	<0.00097	0.186	<0.0011	<0.00096	<0.0016	0.0272	<0.001	<0.0012	<0.00097	<0.0051	0.0107	<0.0021	<0.0016	<0.0011	<0.00086	0.0019 J	<0.0013	<0.0009
	4-5	10/26/2012	0.002 J	<0.0019	0.048	<0.0011	<0.0015	0.0011 J	<0.00092	<0.001	0.127	<0.0012	<0.001	<0.0017	0.0157	0.0016 J	<0.0012	<0.001	<0.0054	0.0086 J	<0.0022	<0.0016	<0.0011	<0.00091	0.0391	<0.0014	<0.00096
SB-14	8-10	10/26/2012	<0.00065	<0.0017	0.017	<0.001	<0.0014	<0.00092	<0.00085	<0.00096	<0.01	0.0017 J	<0.00095	<0.0016	0.0076	<0.00099	<0.0011	<0.00096	<0.0051	<0.0025	<0.002	<0.0015	<0.0011	<0.00085	0.0019 J	<0.0013	<0.00089
	2-4	10/26/2012	0.0054	<0.0018	0.0117	<0.001	<0.0014	0.0065	0.0014 J	0.0022 J	5.34	0.0021 J	<0.00098	<0.0016	0.0387	0.0289	<0.0012	<0.00098	0.176	0.0183	0.0086	<0.0016	<0.0011	0.003 J	0.045	<0.0014	<0.00091
SB-15	6-8	10/26/2012	0.0016 J	<0.0018	0.0101	<0.0011	<0.0015	<0.00097	0.0011 J	<0.001	3.93	0.0028 J	<0.001	<0.0017	0.0164	<0.001	<0.0012	<0.001	0.0845	0.0252	<0.0021	<0.0016	<0.0011	<0.00089	0.0101	<0.0014	<0.00094
	2-4	10/26/2012	0.0043	0.0048	0.0029 J	<0.001	<0.0014	0.0132	<0.00086	0.0023 J	0.151	0.0021 J	<0.00096	<0.0016	0.0187	0.0225	<0.0012	<0.00097	0.0172 J	0.0032 J	0.0038 J	0.0034 J	0.0015 J	0.0012 J	0.052	0.005	0.0035 J
SB-16	8-10	10/26/2012	<0.00067	<0.0018	0.0011 J	<0.001	<0.0014	<0.00095	<0.00087	<0.00098	<0.01	<0.0011	<0.00098	<0.0016	0.0068	<0.001	<0.0012	<0.00098	<0.0052	<0.0026	<0.0021	<0.0016	<0.0011	<0.00087	<0.001	<0.0014	<0.00091
	4-5	10/26/2012	0.0015 J	<0.0018	0.0016 J	<0.001	<0.0014	<0.00095	<0.00087	<0.00098	0.0448	0.0023 J	<0.00097	<0.0016	0.0172	<0.001	<0.0012	<0.00098	0.006 J	0.0046 J	<0.0021	<0.0016	<0.0011	<0.00087	0.0107	0.0044	<0.00091
SB-17	8-10	10/26/2012	<0.00066	<0.0018	0.0037 J	<0.001	<0.0014	<0.00094	<0.00086	<0.00097	<0.01	<0.0011	<0.00096	<0.0016	<0.0011	<0.001	<0.0012	<0.00097	<0.0051	<0.0026	<0.0021	<0.0015	<0.0011	<0.00086	<0.001	<0.0013	<0.0009
	2-4	10/26/2012	0.004 J	<0.0019	0.0043	<0.0011	<0.0015	0.0021 J	<0.00091	<0.001	0.123	0.0022 J	<0.001	<0.0017	0.0168	0.0027 J	<0.0012	<0.001	0.0113 J	0.0056 J	<0.0022	<0.0016	<0.0011	<0.0009	0.0086	0.0016 J	<0.00095
SB-18	8-10	10/26/2012	0.0041 J	<0.0019	0.019	0.0019 J	<0.0015	<0.001	<0.00094	<0.0011	<0.011	<0.0012	<0.001	<0.0018	0.0294	<0.0011	<0.0013	<0.0011	<0.0056	0.0056 J	<0.0022	<0.0017	<0.0012	<0.00093	0.0065	<0.0015	<0.00098
	2-4	10/25/2012	<0.035	<0.094	0.121 J	<0.054	<0.075	0.0586 J	<0.046	<0.051	3.05	<0.059	<0.051	<0.086	6.43	0.0741 J	<0.062	<0.052	<0.27	<0.14	<0.11	<0.082	<0.057	<0.046	0.075 J	<0.071	<0.048
SB-19	8-10	10/25/2012	<0.039	<0.11	0.355	0.105 J	<0.085	<0.056	<0.052	<0.058	24	<0.066	<0.058	<0.097	10.2	<0.06	<0.069	<0.058	<0.31	<0.15	<0.12	<0.093	<0.064	<0.051	<0.06	<0.08	<0.054
	4-5	10/26/2012	0.0016 J	<0.0017	0.0198	<0.00099	<0.0014	0.0051	<0.00084	0.0024 J	0.0813	0.0026 J	<0.00093	<0.0016	0.0161	0.005	<0.0011	<0.00094	0.0149 J	0.0057 J	<0.002	0.0022 J	<0.001	0.0016 J	0.0318	0.0014 J	<0.00087
SB-20	8-10	10/26/2012	0.0027 J	<0.002	0.0317	<0.0012	<0.0016	<0.0011	0.001 J	<0.0011	<0.012	0.0025 J	<0.0011	<0.0018	0.0164	<0.0011	<0.0013	<0.0011	<0.0058	0.0109 J	<0.0023	<0.0018	<0.0012	<0.00097	0.0017 J	<0.0015	<0.001
	4-5	10/26/2012	0.0019 J	<0.0019	0.0126	<0.0011	<0.0015	0.0159	0.00095 J	0.0052	24.4	0.0061	<0.001	<0.0017	0.0682	0.0174	<0.0012	<0.001	0.295	0.0161	0.011	0.0075	<0.0012	<0.00092	0.637	0.0047	0.0021 J
SB-21	8-10	10/26/2012	0.001 J	<0.0019	0.0588	<0.0011	<0.0015	0.149	<0.00093	0.0642	3.65	0.006	<0.001	0.0519	0.0317	0.144	0.0081	<0.001	0.0894	0.0179	0.0942	0.121	0.0152	<0.00092	0.318	0.0607	0.0366
SB-22	6-8	11/12/2012	<0.00064	<0.0017	<0.00077	<0.00099	<0.0014	0.0016 J	<0.00084	<0.00094	0.0665	<0.0011	<0.00093	<0.0016	0.0129	<0.00097	<0.0011	<0.00094	<0.005	0.003 J	<0.002	<0.0015	<0.001	<0.00083	0.0076	<0.001	<0.00087
SB-23	0-2	11/12/2012	<0.00065	<0.0017	<0.00079	<0.001	0.0029 J	0.0322	<0.00085	0.0112	0.0596	<0.0011	<0.00095	<0.0016	<0.0011	0.0211	0.0012 J	<0.00096	0.0132 J	0.0028 J	0.003 J	0.0038 J	0.0027 J	<0.00085	0.023	0.0219	0.0026 J
SB-24	2-4	11/12/2012	<0.00062	<0.0017	0.0016 J	<0.00097	<0.0013	0.003 J	<0.00082	<0.00092	0.0681	<0.001	<0.00091	<0.0015	0.0021 J	0.0124	<0.0011	<0.00092	0.0144 J	0.0025 J	<0.002	<0.0015	<0.001	<0.00081	0.0052	0.0081	<0.00085
SB-25	6-8	11/12/2012	<0.00063	<0.0017	<0.00077	<0.00098	<0.0014	<0.0009	<0.00083	<0.00093	<0.0099	<0.0011	<0.00092	<0.0016	0.008	<0.00096	<0.0011	<0.00093	<0.0049	<0.0025	<0.002	<0.0015	<0.001	<0.00082	<0.00096	<0.001	<0.00087
SB-26	6-8	11/12/2012	<0.00073	<0.0019	0.0091	0.0042 J	<0.0016	<0.001	<0.00095	<0.0011	<0.011	<0.0012	<0.0011	<0.0018	0.0253	<0.0011	<0.0013	<0.0011	<0.0057	<0.0028	<0.0023	<0.0017	<0.0012	<0.00095	0.0014 J	<0.0012	<0.001
SB-27	4-6	11/12/2012	0.0193	<0.0018	0.193	0.0188	<0.0015	0.0874	<0.0009	0.0347	0.827	<0.0012	<0.001	<0.0017	5.2	0.0169	0.0033 J	<0.001	<0.0053	0.0072 J	0.0208	0.0144	0.0129	<0.00089	0.0555	0.0553	0.0071
SB-28	6-8	11/12/2012	<0.00064	<0.0017	0.0054	0.0015 J	<0.0014	<0.00092	<0.00084	<0.00095	<0.01	<0.0011	<0.00094	<0.0016	0.0481	<0.00098	<0.0011	<0.00095	<0.005	0.0035 JB	<0.002	<0.0015	<0.001	<0.00084	<0.00098	<0.001	<0.00088
SB-29	6-8	11/12/2012	<0.00069	<0.0018	<0.00083	<0.0011	<0.0015	<0.00097	<0.0009	<0.001	0.06	<0.0012	<0.001	<0.0017	<0.0012	<0.001	<0.0012	<0.001	0.0098 J	0.0028 JB	<0.0021	<0.0016	<0.0011	<0.00089	<0.001	<0.0011	<0.00094

Notes: J: Compound detected in sample at the estimated value below the method detection limit.
<: Compound was not detected in the sample at or above the reported limit.

Table E1-2
Summary of Volatile Organic Compounds Detected in Soil
Former Quest Chemicals
12255 FM 529, Houston, Texas

Sample ID	Sample Depth (ft bgs)	Sample Date	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylene (total)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Residential	$^{GW}Soil_{Ing}$		**0.05**	**8.21**	**0.49**	**0.034**	**0.022**	**123**
Residential	$^{Tot}Soil_{Comb}$		452	5934	590	17.5	3.70	5958
Residential	$^{Air}Soil_{Inh-V}$		943	62939	921	30.7	42.6	9364
SB-1	0-2	10/25/2012	<0.0011	**0.004 J**	<0.0011	<0.0013	<0.00097	**0.0886**
	6-8	10/25/2012	<0.0011	<0.0011	<0.0011	<0.0013	<0.001	<0.0031
SB-2	4-5	10/25/2012	<0.0012	<0.0012	<0.0011	<0.0014	<0.001	<0.0032
	8-10	10/25/2012	<0.0012	<0.0012	<0.0011	<0.0014	<0.001	<0.0032
SB-3	2-4	10/25/2012	**0.0017 J**	**0.201**	**0.0014 J**	**0.0022 J**	**0.124**	**0.869**
	8-10	10/25/2012	<0.0012	**0.0176**	**0.0013 J**	<0.0014	**0.0257**	**0.0421**
SB-4	2-4	10/25/2012	<0.0011	<0.0011	<0.0011	<0.0013	<0.00099	<0.0031
	8-10	10/25/2012	<0.0011	<0.0011	<0.0011	**0.0018 J**	**0.0045**	<0.0032
SB-5	2-4	10/25/2012	<0.0011	**0.0026 J**	<0.0011	<0.0013	**0.149**	**0.0045 J**
	8-10	10/25/2012	<0.0011	<0.0011	<0.0011	<0.0013	**0.0175**	<0.0031
SB-6	4-5	10/25/2012	**152**	**9.79**	<0.23	**50.2**	<0.21	**48.2**
	8-10	10/25/2012	**139**	**4.72 J**	<1.2	**154**	<1.1	**25.1**
SB-7	4-5	10/25/2012	<0.001	**0.0015 J**	<0.001	<0.0012	<0.00091	<0.0029
	8-10	10/25/2012	<0.0011	<0.0011	<0.0011	<0.0013	**0.0055**	<0.0031
SB-8	4-5	10/25/2012	**0.0095**	**0.0117**	<0.0011	**0.0093**	**0.0039 J**	**0.0583**
	8-10	10/25/2012	<0.0011	<0.0011	<0.0011	<0.0013	**0.0411**	<0.0031
SB-9	0-2	10/25/2012	<0.064	**0.709**	<0.062	**0.212 J**	**0.436**	**2.28**
	8-10	10/25/2012	<0.064	**0.281**	<0.062	<0.075	**0.478**	**0.384 J**
SB-10	4-6	10/25/2012	**72.4**	**3.72**	<0.12	**4.09**	**0.283 J**	**13**
	6-8	10/25/2012	**1580**	**164**	<1.2	**145**	**1.52 J**	**429**
SB-11	2-4	10/26/2012	**1**	**0.318**	<0.053	**0.252**	<0.048	**1.15**
	6-8	10/26/2012	**512**	**27.9**	<0.64	**45.9**	<0.59	**162**
SB-12	0-2	10/26/2012	**202**	**4.77**	<0.24	**24.1**	<0.22	**13.5**
	8-10	10/26/2012	**388**	**13.4**	<0.58	**112**	<0.52	**32.7**
SB-13	4-5	10/26/2012	**0.0099**	**0.0184**	<0.001	**0.0048**	**0.001 J**	**0.0551**
	8-10	10/26/2012	<0.001	**0.0012 J**	<0.001	**0.0042**	<0.00092	<0.0029
SB-14	4-5	10/26/2012	<0.0011	**0.0048**	<0.0011	**0.0041 J**	<0.00097	**0.0102 J**
	8-10	10/26/2012	<0.001	<0.001	<0.001	**0.0013 J**	<0.00091	<0.0029
SB-15	2-4	10/26/2012	**0.002 J**	**0.0745**	<0.001	**0.0172**	<0.00093	**0.202**
	6-8	10/26/2012	<0.0011	**0.0053**	<0.0011	**0.0039 J**	<0.00096	**0.0058 J**
SB-16	2-4	10/26/2012	**0.0025 J**	**0.0023 J**	<0.001	**0.0111**	<0.00092	**0.0183**
	8-10	10/26/2012	<0.0011	<0.0011	<0.001	**0.0015 J**	<0.00093	<0.0029
SB-17	4-5	10/26/2012	<0.0011	<0.0011	<0.001	**0.0058**	<0.00093	<0.0029
	8-10	10/26/2012	<0.001	<0.0011	<0.001	<0.0012	<0.00092	<0.0029
SB-18	2-4	10/26/2012	<0.0011	<0.0011	<0.0011	**0.0056**	<0.00097	**0.0103 J**
	8-10	10/26/2012	**0.0012 J**	**0.0016 J**	<0.0011	**0.0073**	<0.001	<0.0031
SB-19	2-4	10/25/2012	<0.055	**0.245**	<0.054	<0.065	**0.0917 J**	**0.374 J**
	8-10	10/25/2012	<0.062	**0.141 J**	<0.061	<0.073	**0.109 J**	<0.17
SB-20	4-5	10/26/2012	<0.001	**0.0058**	<0.00098	**0.0046**	<0.00089	**0.027**
	8-10	10/26/2012	<0.0012	<0.0012	<0.0011	**0.0044 J**	<0.001	<0.0033
SB-21	4-5	10/26/2012	**0.0015 J**	**0.0094**	<0.0011	**0.0053**	<0.00099	**0.154**
	8-10	10/26/2012	**0.0112**	**0.0506**	<0.0011	<0.0013	**0.0038 J**	**0.263 J**
SB-22	6-8	11/12/2012	**0.023**	<0.001	<0.00098	**0.0014 J**	<0.00089	<0.0028
SB-23	0-2	11/12/2012	<0.001	<0.001	<0.001	<0.0012	<0.00091	**0.154**
SB-24	2-4	11/12/2012	<0.00099	**0.0022 J**	<0.00096	<0.0012	<0.00087	**0.0766**
SB-25	6-8	11/12/2012	**0.005**	<0.001	<0.00097	**0.0193**	<0.00088	<0.0028
SB-26	6-8	11/12/2012	**0.149**	<0.0012	<0.0011	**0.0386**	<0.001	<0.0032
SB-27	4-6	11/12/2012	**5.45**	**0.139**	**0.0039 J**	**0.726**	**0.0222**	**0.146**
SB-28	6-8	11/12/2012	**0.0077**	<0.001	<0.00099	**0.0066**	<0.0009	<0.0028
SB-29	6-8	11/12/2012	<0.0011	<0.0011	<0.0011	<0.0013	<0.00096	<0.003

Notes: J: Compound detected in sample at the estimated value below the method detection limi
<: Compound was not detected in the sample at or above the reported limit.

Table E2-1
Summary of Volatile Organic Compounds in Groundwater - First GWBU
Quest Chemical
12255 FM 529, Houston, Texas 77041
VCP No. 2091

		Chlorinated Solvents													Fuel Related Compounds					Lab Contaminants		
		Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	Chlorobenzene	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes,Total	Methyl tert-butyl ether	2-Butanone	Acetone	Methylene chloride
Sample ID	**Sample Date**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**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**	**0.007**	**0.002**	**0.2**	**0.005**	**4.888**	**0.07**	**0.6**	**0.1**	**9.777**	**0.005**	**1**	**0.7**	**10**	**0.244**	**14.665**	**21.998**	**0.005**
Residential	$^{GW}GW_{Inh-V}$	498.45	23.66	1228.86	768.29	1665.98	3.81	40520.41	80.04	43046.86	156.09	1158.14	1157.63	115981.12	179.89	63590.09	29732.43	10225.41	4038.83	1000000	1000000	21349.18
MW-1/1R	10/7/2004	**4.4**	**2.6**	**5.8**	**0.037**	**8.5**	**0.48**	**31.0 J**	**0.0098**	**2**	-	-	<0.00043	**0.026**	**0.0018 J**	**2.7**	**0.15**	**0.76**	-	-	-	**0.18**
	2/22/2005	**0.02**	**0.54**	**0.61**	**0.019**	**0.57**	**0.13**	**1.3**	<0.00041	**0.14**	-	-	<0.00043	<0.00056	<0.00066	**0.19**	**0.028**	**0.16**	-	-	-	**0.014**
	3/28/2008	**0.0045 J**	**0.43**	**1.9**	**0.0039 J**	**1.1**	**0.42**	**2.3**	<0.0005	**0.27**	-	-	<0.0005	**0.019**	<0.0006	**0.51**	**0.032**	**0.18**	-	-	-	**0.0048 J**
	4/23/2009	**0.0017 J**	**0.35**	**0.95**	**0.002 J**	**0.62**	**0.14**	**1.3**	<0.0005	**0.085**	-	-	<0.0005	<0.0015	<0.0005	**0.19**	**0.026**	**0.04**	<0.0005	-	**0.042**	<0.0005
	5/22/2009	**0.0013 J**	**0.27**	**1.1**	**0.0027 J**	**0.63**	**0.19**	**1.6**	<0.0005	**0.1**	-	-	<0.0005	**0.0076**	<0.0005	**0.19**	**0.029**	**0.15**	<0.0005	<0.001	**0.082**	<0.0005
	5/25/2010	**0.069 J**	**1.2**	**21**	**0.078 J**	**17**	**0.9**	**9.3**	<0.012	**1.1**	-	-	<0.012	<0.012	<0.012	**4.5**	**0.3**	**1.9**	<0.012	-	**0.51**	**0.025 J**
	12/1/2010	<0.015	**0.63**	**16**	**0.063 J**	**8.7**	**0.61**	**3.3**	<0.012	**0.6**	-	-	<0.012	<0.012	<0.012	**2.7**	**0.18**	**1**	<0.012	<0.025	**0.39**	**0.013 J**
	6/21/2011	<0.042	**0.086 J**	**5**	**0.029 J**	**0.13**	**0.34**	**0.31**	<0.02	**0.13**	-	-	<0.025	<0.038	<0.025	**0.75**	**0.065 J**	**0.33 J**	<0.03	-	<0.1	<0.032
	12/14/2011	<0.017	**0.3**	**2.3**	<0.01	**0.54**	**0.4**	**0.019 J**	<0.008	**0.05 J**	-	-	<0.01	<0.015	<0.01	**0.09**	<0.011	<0.031	<0.012	-	<0.04	<0.013
	2/7/2014	**0.86**	**0.066**	**0.58**	**0.012 J**	**0.12**	**0.041**	**0.15**	<0.0005	**0.01**	<0.0006	**0.032**	<0.0004	<0.0005	<0.0006	**0.19**	**0.03**	**0.17**	<0.0006	<0.001	<0.002	<0.001
	5/22/2014	**0.047**	<0.0005	**0.015**	<0.0004	**0.00099 J**	**0.0048**	<0.0005	<0.0005	**0.0012 J**	<0.0006	**0.002 J**	<0.0004	<0.0005	<0.0006	**0.00095 J**	<0.0005	<0.0015	**0.0012 J**	<0.001	<0.002	<0.001
	11/14/2014	**0.091**	**0.0011 J**	**0.0057**	<0.0004	**0.00071 J**	**0.0035**	<0.0005	<0.0005	**0.0014 J**	<0.0006	**0.0032 J**	<0.0004	<0.0005	<0.0006	**0.00052 J**	**0.0012 J**	<0.0015	**0.0013 J**	<0.001	<0.002	<0.001
	5/19/2015	**0.05**	<0.0005	**0.00074 J**	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	**0.00072 J**	<0.0006	**0.0015 J**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/4/2015	**0.1**	**0.0033 J**	**0.003 J**	<0.0004	**0.0019 J**	**0.0004 J**	<0.0005	<0.0005	<0.0004	<0.0006	**0.0013 J**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/11/2016	**0.095**	**0.0018 J**	**0.0033 J**	<0.0004	**0.0014 J**	**0.0012 J**	<0.0005	<0.0005	**0.0027 J**	<0.0006	**0.00089 J**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	**0.0013 J**	<0.001	<0.002	<0.001
MW-2	10/7/2004	**0.95**	**0.22**	**0.24**	<0.00063	**1.1**	**0.0062**	**0.088**	<0.00041	**0.11**	-	-	**0.0085**	<0.00056	<0.00066	**0.0012 J**	<0.00077	**0.0085 J**	-	-	-	**0.0014 J**
	2/22/2005	**0.91**	**0.24**	**0.26**	<0.00063	**0.96**	**0.0057**	**0.064**	<0.00041	**0.11**	-	-	**0.007**	<0.00056	<0.00066	<0.00069	<0.00077	**0.0047 J**	-	-	-	<0.0006
	3/28/2008	**0.0037 J**	**0.0019 J**	**0.0035 J**	<0.0006	**0.0075**	<0.0006	<0.0006	<0.0005	**0.003 J**	-	-	<0.0005	<0.0006	<0.0006	<0.0005	<0.0005	<0.0015	-	-	-	<0.0006
	4/22/2009	**0.0075**	**0.011**	**0.039**	<0.0003	**0.045**	**0.0065**	**0.00013 J**	<0.0001	**0.016**	-	-	**0.0072**	<0.0003	**0.00049 J**	<0.0001	<0.0002	<0.0003	<0.0001	-	<0.001	<0.0001
	11/10/2009	**0.0008 J**	<0.0005	<0.0005	<0.0005	**0.00089 J**	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	5/28/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	-	<0.001	<0.0005
	12/1/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/21/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	12/14/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/17/2013	<0.001	<0.001	<0.001	<0.001	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0008	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001
	1/16/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/20/2014	<0.0006	<0.0005	**0.002 J**	<0.0004	**0.0022 J**	<0.0004	<0.0005	<0.0005	**0.00093 J**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	**0.0035 J**	<0.001
	11/13/2014	**0.024**	**0.03**	**0.069**	<0.0004	**0.06**	<0.0004	<0.0005	<0.0005	**0.015**	<0.0006	<0.0006	**0.0006 J**	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	12/4/2014	**0.018**	**0.018**	**0.027**	<0.0004	**0.031**	<0.0004	<0.0005	<0.0005	**0.0056**	<0.0006	<0.0006	**0.00041 J**	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/21/2015	**0.15**	**0.16**	**0.38**	<0.002	**0.26**	**0.011**	<0.0005	<0.0005	**0.08**	**0.0044 J**	**0.012**	**0.0074**	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/4/2015	**0.14**	**0.16**	**0.35**	<0.002	**0.27**	**0.006**	<0.0005	<0.0005	**0.083**	**0.013**	**0.0078**	**0.0059**	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/11/2016	**0.06**	**0.053**	**0.18**	<0.0004	**0.14**	**0.0045**	<0.0005	<0.0005	**0.046**	**0.039**	**0.01**	**0.0042 J**	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
MW-3/3R	10/7/2004	<0.00043	<0.0007	<0.00074	<0.00063	<0.00053	<0.00079	<0.00062	<0.00041	<0.00043	-	-	<0.00043	<0.00056	<0.00066	<0.00069	<0.00077	<0.0018	-	-	-	<0.0006
	2/22/2005	<0.00043	<0.0007	<0.00074	<0.00063	<0.00053	<0.00079	<0.00062	<0.00041	<0.00043	-	-	<0.00043	<0.00056	<0.00066	<0.00069	<0.00077	<0.0018	-	-	-	<0.0006
	5/22/2009	<0.0006	**0.0066**	**33**	<0.0005	**0.42**	**5.4**	<0.0005	**0.0055**	**0.56**	-	-	**0.045**	**0.0051**	**0.0012 J**	**0.34**	**0.11**	**0.41**	**0.0071**	<0.001	<0.001	<0.0005
	2/7/2014	**0.0011 J**	<0.0005	**0.00099 J**	<0.0004	**0.00099 J**	**0.0015 J**	<0.0005	<0.0005	**0.008**	<0.0006	**0.0011 J**	**0.0034 J**	<0.0005	<0.00066	<0.0005	<0.0005	<0.0015	**0.0013 J**	<0.001	<0.002	<0.001
	5/22/2014	<0.0006	<0.0005	**0.0015 J**	<0.0004	**0.0019 J**	**0.0034**	<0.0005	<0.0005	**0.014**	<0.0006	**0.0022 J**	**0.0061**	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	**0.0039 J**	<0.001	<0.002	<0.001
	11/14/2014	<0.0006	<0.0005	**0.0017 J**	<0.0004	**0.0027 J**	**0.0019 J**	<0.0005	<0.0005	**0.016**	<0.0006	**0.0042 J**	**0.014**	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	**0.0019 J**	<0.001	<0.002	<0.001
	5/14/2015	<0.0006	**0.00053 J**	**0.0019 J**	<0.0004	**0.0028 J**	**0.0014 J**	<0.0005	<0.0005	**0.02**	<0.0006	**0.0071**	**0.026**	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	**0.003 J**	<0.001	<0.002	<0.001
	11/4/2015	**0.0021 J**	**0.001 J**	**0.0014 J**	<0.0004	**0.0045 J**	**0.0012 J**	<0.0005	<0.0005	**0.0088**	<0.0006	**0.0025 J**	**0.0077**	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	**0.0033 J**	<0.001	<0.002	<0.001
	2/11/2016	**0.00069 J**	**0.00083 J**	**0.0022 J**	<0.0004	**0.0047 J**	**0.0012 J**	<0.0005	<0.0005	**0.0088**	**0.0022 J**	**0.0012 J**	**0.0034 J**	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	**0.0056**	<0.001	<0.002	<0.001

Table E2-1
Summary of Volatile Organic Compounds in Groundwater - First GWBU
Quest Chemical
12255 FM 529, Houston, Texas 77041
VCP No. 2091

		Chlorinated Solvents													Fuel Related Compounds					Lab Contaminants		
		Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	Chlorobenzene	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes,Total	Methyl tert-butyl ether	2-Butanone	Acetone	Methylene chloride
Sample ID	**Sample Date**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**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**	**0.007**	**0.002**	**0.2**	**0.005**	**4.888**	**0.07**	**0.6**	**0.1**	**9.777**	**0.005**	**1**	**0.7**	**10**	**0.244**	**14.665**	**21.998**	**0.005**
Residential	$^{GW}GW_{Inh-V}$	498.45	23.66	1228.86	768.29	1665.98	3.81	40520.41	80.04	43046.86	156.09	1158.14	1157.63	115981.12	179.89	63590.09	29732.43	10225.41	4038.83	1000000	1000000	21349.18
MW-4	10/7/2004	**0.52**	**1.4**	**2.5**	<0.00063	**2.1**	**0.056**	**0.36**	<0.00041	**0.56**	-	-	<0.00043	<0.00056	<0.00066	**0.012**	<0.00077	**0.043**	-	-	-	**0.048**
	2/22/2005	**0.22**	**0.51**	**1.2**	**0.014**	**0.62 J**	**0.011**	**0.064**	<0.00041	**0.23**	-	-	<0.00043	<0.00056	<0.00066	**0.0011 J**	<0.00077	**0.0022 J**	-	-	-	<0.0006
	4/22/2009	**0.022**	**0.11**	**7.6**	**0.0065 J**	**1.7**	**0.78**	**0.12**	<0.001	**0.97**	-	-	<0.001	<0.003	**0.0011 J**	**0.028**	<0.002	**0.039**	<0.001	-	<0.01	<0.001
	11/10/2009	**0.0037 J**	**0.27**	**2.7**	**0.0041 J**	**0.39**	**0.11**	**0.02**	<0.0005	**0.16**	-	-	<0.0005	<0.0005	<0.0005	**0.0013 J**	<0.0005	**0.0043 J**	<0.0005	<0.001	<0.001	<0.0005
	5/28/2010	**0.0093**	**0.26**	**1.8**	**0.0029 J**	**1.1**	**0.2**	**0.1**	<0.0005	**0.21**	-	-	<0.0005	<0.0005	<0.0005	**0.0032 J**	<0.0005	**0.0063 J**	<0.0005	-	<0.001	<0.0005
	12/2/2010	**0.0038 J**	**0.36**	**0.29**	<0.0005	**0.097**	**0.0014 J**	<0.0005	<0.0005	**0.031**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/21/2011	<0.0017	**0.062**	**0.067**	<0.001	**0.021**	<0.001	<0.0013	<0.0008	**0.0068**	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	12/14/2011	<0.0017	**0.049**	**0.042**	<0.001	**0.011**	<0.001	<0.0013	<0.0008	**0.0024 J**	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/19/2013	<0.001	**0.0034 J**	**0.0094**	<0.001	**0.0017 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0008	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001
	1/16/2014	<0.0006	**0.0039 J**	**0.0054**	<0.0004	**0.00094 J**	<0.0004	<0.0005	<0.0005	**0.00054 J**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/20/2014	<0.0006	**0.0043 J**	**0.01**	<0.0004	**0.0015 J**	<0.0004	<0.0005	<0.0005	**0.0012 J**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/13/2014	<0.0006	**0.0029 J**	**0.0024 J**	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/21/2015	**0.056**	**0.33**	**0.054**	<0.0004	**0.079**	**0.0021**	<0.0005	<0.0005	**0.014**	<0.0006	**0.0032 J**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/4/2015	**0.036**	**0.54**	**0.06**	**0.0033 J**	**0.052**	**0.0045**	<0.0005	<0.0005	**0.015**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/15/2016	**0.012**	**0.29**	**0.047**	**0.0034 J**	**0.015**	**0.0044**	<0.0005	<0.0005	**0.0088**	<0.0006	**0.00096 J**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
MW-5	10/7/2004	**0.005**	<0.0007	**0.002 J**	<0.00063	**0.019**	<0.00079	<0.00062	<0.00041	**0.011**	-	-	<0.00043	<0.00056	<0.00066	<0.00069	<0.00077	<0.0018	-	-	-	<0.0006
	2/22/2005	**0.32**	**0.13**	**0.088**	<0.00063	**0.64**	**0.015**	**0.051**	<0.00041	**0.17**	-	-	<0.00043	<0.00056	<0.00066	<0.00069	<0.00077	<0.0018	-	-	-	<0.0006
	7/14/2005	**0.19**	**0.16**	**0.13**	<0.0006	**0.44**	**0.011**	**0.039**	<0.00041	**0.15**	-	-	<0.0005	<0.0006	<0.0006	<0.0005	<0.0005	**0.0015 J**	-	-	-	<0.0006
	4/23/2009	**0.0087**	**0.015**	**0.25**	<0.0003	**0.14**	**0.003**	**0.0016**	<0.0001	**0.091**	-	-	<0.0001	<0.0003	<0.0001	<0.0001	<0.0002	<0.0003	<0.0001	-	**0.0011 J**	<0.0001
	11/10/2009	**0.0083**	**0.06**	**1.6**	**0.0021 J**	**0.62**	**0.05**	**0.017**	<0.0005	**0.31**	-	-	<0.0005	<0.0005	<0.0005	**0.00075 J**	<0.0005	**0.0028 J**	<0.0005	<0.001	<0.001	**0.0005 J**
	5/27/2010	**0.009**	**0.033**	**1.5**	<0.0005	**0.48**	<0.0005	**0.0077**	<0.0005	**0.15**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	-	<0.001	<0.0005
	12/2/2010	**0.0064**	**0.038**	**0.37**	<0.0005	**0.19**	**0.0026**	<0.0005	<0.0005	**0.067**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/24/2011	**0.0079**	**0.033**	**0.066**	<0.001	**0.049**	<0.001	<0.0013	<0.0008	**0.015**	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	12/14/2011	<0.0085	**2.8**	**0.052**	<0.005	<0.0065	<0.005	<0.0065	<0.004	<0.0055	-	-	<0.005	<0.0075	<0.005	<0.005	<0.0055	<0.016	<0.006	-	<0.02	<0.0065
	7/19/2013	<0.001	**0.28**	**0.0034 J**	<0.001	**0.00075 J**	**0.0019 J**	<0.0005	<0.0005	**0.0012 J**	<0.0008	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001
	1/15/2014	<0.0006	**0.078**	**0.001 J**	<0.0004	<0.0005	**0.0019 J**	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/21/2014	<0.0006	**0.073**	**0.00076 J**	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/14/2014	<0.0006	**0.036**	**0.00073 J**	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/20/2015	<0.0006	**0.038**	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/4/2015	<0.0006	**0.016**	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/11/2016	<0.0006	**0.0064**	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
MW-6	10/7/2004	<0.00043	<0.0007	<0.00074	<0.00063	<0.00053	<0.00079	<0.00062	<0.00041	**0.0034 J**	-	-	<0.00043	<0.00056	<0.00066	<0.00069	<0.00077	<0.0018	-	-	-	<0.0006
	2/22/2005	<0.00043	<0.0007	<0.00074	<0.00063	<0.00053	<0.00079	<0.00062	<0.00041	<0.00043	-	-	<0.00043	<0.00056	<0.00066	<0.00069	<0.00077	<0.0018	-	-	-	<0.0006
	4/23/2009	<0.0003	<0.0001	<0.0002	<0.0003	<0.0002	<0.0004	<0.0001	<0.0001	<0.0002	-	-	<0.0001	<0.0003	<0.0001	<0.0001	<0.0002	<0.0003	<0.0001	-	<0.001	<0.0001
	11/10/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**0.00055 J**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	5/27/2010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	-	<0.001	<0.0005
	12/2/2010	<0.0006	**0.00092 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**0.0012 J**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/24/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	12/14/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/19/2013	<0.001	**0.0042 J**	<0.001	<0.001	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0008	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001
	1/15/2014	<0.0006	**0.0097**	**0.021**	<0.0004	<0.0005	**0.00048 J**	<0.0005	<0.0005	**0.00055 J**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/21/2014	<0.0006	**0.0046 J**	**0.0095**	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/14/2014	<0.0006	**0.026**	**0.1**	<0.0004	**0.00058 J**	**0.0021**	<0.0005	<0.0005	**0.002 J**	<0.0006	**0.0011 J**	**0.00057 J**	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/20/2015	<0.0006	**0.03**	**0.14**	<0.0004	**0.00083 J**	**0.0028**	<0.0005	<0.0005	**0.0032 J**	<0.0006	**0.001 J**	**0.00065 J**	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/4/2015	<0.0006	**0.021**	**0.083**	<0.0004	**0.001 J**	**0.0029**	<0.0005	<0.0005	**0.0036 J**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/12/2016	<0.0006	**0.022**	**0.1**	<0.0004	**0.0012 J**	**0.0038**	<0.0005	<0.0005	**0.0045 J**	<0.0006	**0.0011 J**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001

Table E2-1
Summary of Volatile Organic Compounds in Groundwater - First GWBU
Quest Chemical
12255 FM 529, Houston, Texas 77041
VCP No. 2091

		Chlorinated Solvents													Fuel Related Compounds					Lab Contaminants		
		Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	Chlorobenzene	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes,Total	Methyl tert-butyl ether	2-Butanone	Acetone	Methylene chloride
Sample ID	**Sample Date**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**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**	**0.007**	**0.002**	**0.2**	**0.005**	**4.888**	**0.07**	**0.6**	**0.1**	**9.777**	**0.005**	**1**	**0.7**	**10**	**0.244**	**14.665**	**21.998**	**0.005**
Residential	$^{GW}GW_{Inh-V}$	498.45	23.66	1228.86	768.29	1665.98	3.81	40520.41	80.04	43046.86	156.09	1158.14	1157.63	115981.12	179.89	63590.09	29732.43	10225.41	4038.83	1000000	1000000	21349.18
MW-7	3/24/2005	<0.00043	<0.0007	<0.00074	<0.00063	<0.00053	<0.00079	<0.00062	<0.00041	<0.00043	-	-	**0.012**	<0.00056	**0.0022 J**	<0.00069	<0.00077	<0.0018	-	-	-	<0.0006
	4/22/2009	<0.0003	<0.0001	<0.0002	<0.0003	<0.0002	<0.0004	<0.0001	<0.0001	<0.0002	-	-	**0.0065**	<0.0003	**0.00083 J**	<0.0001	<0.0002	<0.0003	<0.0	-	<0.001	<0.0001
	11/10/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	**0.017**	<0.0005	**0.00066 J**	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	5/27/2010	<0.0005	<0.0005	**0.0053**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	**0.0082**	<0.0005	<0.0005	**0.001 J**	<0.0005	<0.001	<0.0005	-	<0.001	<0.0005
	12/1/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	**0.0049 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/21/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0011	<0.001	<0.0013	<0.0008	<0.0011	-	-	**0.0065**	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	12/14/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/17/2013	<0.001	<0.001	<0.001	<0.001	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0008	<0.0005	**0.001 J**	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001
	1/16/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	**0.0022 J**	<0.001
	5/22/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/13/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/15/2015	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/5/2015	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/12/2016	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
MW-9	3/24/2005	<0.00043	<0.0007	<0.00074	<0.00063	<0.00053	<0.00079	<0.00062	<0.00041	<0.00043	-	-	<0.00043	<0.00056	<0.00066	<0.00069	<0.00077	<0.0018	-	-	-	<0.0006
	4/23/2009	<0.0003	<0.0001	<0.0002	<0.0003	<0.0002	<0.0004	<0.0001	<0.0001	<0.0002	-	-	<0.0001	<0.0003	<0.0001	<0.0001	<0.0002	<0.0003	<0.0001	-	<0.001	<0.0001
	11/10/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	5/27/2010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	-	<0.001	<0.0005
	12/2/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/24/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.001	<0.0013
	12/14/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/19/2013	<0.001	<0.001	<0.001	<0.001	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0008	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	**0.016**	<0.001
	1/15/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/21/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/14/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/20/2015	<0.000229	<0.000383	<0.000447	<0.000269	<0.000272	<0.000292	<0.000213	<0.000461	<0.000158	<0.000207	<0.000286	<0.000223	<0.000253	<0.000204	<0.000268	<0.000221	<0.000149	<0.00122	<0.00132	**0.00533 J**	<0.000927
	11/4/2015	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/12/2016	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
MW-10	3/23/2005	<0.00043	<0.0007	<0.00074	<0.00063	<0.00053	<0.00079	<0.00062	<0.00041	<0.00043	-	-	<0.00043	<0.00056	<0.00066	<0.00069	<0.00077	<0.0018	-	-	-	<0.0006
	4/22/2009	<0.0003	<0.0001	**0.00032 J**	<0.0003	<0.0002	<0.0004	<0.0001	<0.0001	<0.0002	-	-	<0.0001	<0.0003	<0.0001	<0.0001	<0.0002	<0.0003	<0.0001	-	<0.001	<0.0001
	11/10/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	5/28/2010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	-	<0.001	<0.0005
	12/2/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/24/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	12/14/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/19/2013	<0.001	<0.001	<0.001	<0.001	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0008	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001
	1/16/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/20/2014	<0.0006	<0.0005	**0.0025 J**	<0.0004	<0.0005	**0.00077 J**	<0.0005	<0.0005	<0.0004	<0.0006	**0.0023 J**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/13/2014	<0.0006	**0.0034 J**	**0.017**	<0.0004	<0.0005	**0.0033**	<0.0005	<0.0005	**0.00074 J**	<0.0006	**0.0026 J**	**0.001 J**	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/21/2015	<0.0006	<0.0005	**0.0024 J**	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	**0.0031 J**	<0.001
	11/4/2015	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/12/2016	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001

Table E2-1
Summary of Volatile Organic Compounds in Groundwater - First GWBU
Quest Chemical
12255 FM 529, Houston, Texas 77041
VCP No. 2091

		Chlorinated Solvents													Fuel Related Compounds					Lab Contaminants		
		Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	Chlorobenzene	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes,Total	Methyl tert-butyl ether	2-Butanone	Acetone	Methylene chloride
Sample ID	**Sample Date**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**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**	**0.007**	**0.002**	**0.2**	**0.005**	**4.888**	**0.07**	**0.6**	**0.1**	**9.777**	**0.005**	**1**	**0.7**	**10**	**0.244**	**14.665**	**21.998**	**0.005**
Residential	$^{GW}GW_{Inh-V}$	498.45	23.66	1228.86	768.29	1665.98	3.81	40520.41	80.04	43046.86	156.09	1158.14	1157.63	115981.12	179.89	63590.09	29732.43	10225.41	4038.83	1000000	1000000	21349.18
MW-11	3/23/2005	<0.00043	<0.0007	<0.00074	<0.00063	<0.00053	<0.00079	<0.00062	<0.00041	**0.0025 J**	-	-	<0.00043	<0.00056	<0.00066	<0.00069	<0.00077	<0.0018	-	-	-	<0.0006
	4/22/2009	<0.0003	<0.0001	<0.0002	<0.0003	<0.0002	<0.0004	<0.0001	<0.0001	**0.00057 J**	-	-	**0.0018**	<0.0003	<0.0001	<0.0001	<0.0002	<0.0003	<0.0001	-	<0.001	<0.0001
	11/10/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**0.0012 J**	-	-	**0.0053**	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	5/28/2010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	-	<0.001	<0.0005
	12/2/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/24/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0011	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	12/14/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/19/2013	<0.001	**0.0017 J**	**0.0011 J**	<0.001	<0.0006	<0.0005	<0.0005	<0.0005	**0.00053 J**	<0.0008	**0.0018 J**	**0.00052 J**	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001
	1/15/2014	<0.0006	**0.0036 J**	**0.014**	<0.0004	<0.0005	**0.00095 J**	<0.0005	<0.0005	**0.00054 J**	<0.0006	**0.0021 J**	**0.00087 J**	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/20/2014	<0.0006	**0.0075**	**0.031**	<0.0004	<0.0005	**0.0019 J**	<0.0005	<0.0005	**0.0011 J**	<0.0006	**0.0022 J**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/13/2014	<0.0006	**0.018**	**0.12**	<0.0004	<0.0005	**0.0082**	<0.0005	<0.0005	**0.0023 J**	<0.0006	**0.0033 J**	**0.002 J**	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/21/2015	<0.0006	**0.0097**	**0.055**	<0.0004	**0.0013 J**	**0.0036**	<0.0005	<0.0005	**0.0027 J**	<0.0006	**0.0016 J**	**0.00086 J**	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/4/2015	**0.0049 J**	**0.02**	**0.1**	**0.0046 J**	**0.0069**	**0.037**	<0.0005	<0.0005	**0.018**	<0.0006	**0.0048 J**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/11/2016	**0.0017 J**	**0.0042 J**	**0.035**	**0.0017 J**	**0.0038 J**	**0.028**	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
MW-12	3/24/2005	**12**	**2.2**	**1.2**	<0.00063	**8.1**	**0.012**	**0.18**	<0.00041	**0.63**	-	-	<0.00043	<0.00056	<0.00066	**0.31**	**0.12**	**0.92**	-	-	-	**0.13**
	7/14/2005	**14**	**2.2**	**1**	<0.0006	**7.3**	**0.04**	**0.16**	<0.0005	**0.6**	-	-	<0.0005	<0.0006	<0.0006	**0.091**	**0.1**	**0.84**	-	-	-	**0.009 J**
	3/28/2008	**6.5**	**0.66**	**1.2**	<0.0006	**2.2**	**0.032**	**0.02**	**0.00091 J**	**0.24**	-	-	<0.0005	<0.0006	<0.0006	**0.011**	**0.016**	**0.13**	-	-	-	<0.0006
	4/23/2009	**3.6**	**0.25**	**0.43**	<0.003	**0.95**	**0.019**	**0.0025 J**	**0.071**	**0.11**	-	-	<0.001	<0.003	<0.001	<0.001	<0.002	<0.003	<0.001	-	<0.01	<0.001
	11/10/2009	**0.97**	**0.17**	**0.38**	<0.0005	**0.43**	**0.026**	<0.0005	<0.0005	**0.13**	-	-	<0.0005	<0.0005	<0.0005	**0.00051 J**	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	12/8/2009	**0.85**	**0.21**	**0.36**	<0.0005	**0.75**	**0.027**	<0.0005	<0.0005	**0.13**	-	-	<0.0005	<0.0005	<0.0005	**0.00061 J**	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	12/22/2009	**2.2**	**0.25**	**0.44**	**0.00083 J**	**0.79**	**0.029**	**0.0012 J**	<0.0005	**0.072**	-	-	<0.0005	<0.0005	<0.0005	**0.00094 J**	<0.0005	**0.0018 J**	<0.0005	**0.005 J**	**0.016**	<0.0005
	1/21/2010	**0.95**	**0.19**	**0.34**	<0.0005	**0.42**	**0.013**	<0.0005	<0.0005	**0.085**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	**0.17**	<0.0005
	3/2/2010	**0.46**	**0.12**	**1**	<0.0005	**0.67**	**0.019**	<0.0005	<0.0005	**0.11**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	**0.048**	<0.0005
	3/31/2010	**0.46**	**0.12**	**1.3**	<0.0005	**0.67**	**0.025**	<0.0005	<0.0005	**0.11**	-	-	<0.0005	<0.0005	<0.0005	**0.00058 J**	<0.0005	<0.001	<0.0005	<0.001	**0.026**	<0.0005
	5/27/2010	**0.46**	**0.082**	**1.4**	<0.0005	**0.78**	<0.0005	<0.0005	<0.0005	**0.14**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	<0.001	<0.0005
	12/2/2010	**0.032**	**0.012**	**0.6**	<0.0005	**0.32**	**0.094**	<0.0005	<0.0005	**0.067**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/24/2011	**0.43**	**0.091**	**0.16**	<0.001	**0.26**	**0.16**	<0.0013	<0.0008	**0.056**	-	-	<0.001	**0.031**	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	12/14/2011	**0.18**	**0.049**	**0.34**	**0.0054**	**0.2**	**0.89**	<0.0013	<0.0008	**0.084**	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/19/2013	**0.9**	**0.29**	**1.8**	<0.1	**0.52**	**4.6**	**0.0031 J**	<0.0025	**1.1**	<0.004	**0.29**	<0.0025	<0.005	<0.0025	**0.037**	<0.0025	**0.028 J**	<0.005	<0.01	<0.05	**0.016 J**
	1/15/2014	**0.51**	**0.14**	**1.9**	**0.011 J**	**0.54**	**2.8**	<0.005	<0.005	**0.77**	<0.006	**0.16**	<0.004	<0.005	<0.006	**0.019 J**	<0.005	<0.015	<0.006	<0.01	<0.02	<0.01
	5/21/2014	**0.39**	**0.15**	**2.4**	<0.01	**0.67**	**2.3**	<0.0025	<0.0025	**0.77**	<0.003	**0.14**	<0.002	<0.0025	<0.003	**0.014 J**	<0.0025	<0.0075	<0.003	<0.005	<0.01	<0.005
	11/14/2014	**0.19**	**0.12**	**2**	<0.01	**0.4**	**0.84**	<0.0025	<0.0025	**0.32**	<0.003	**0.04**	<0.002	<0.0025	<0.003	**0.003 J**	<0.0025	<0.0075	<0.003	<0.005	<0.01	<0.005
	5/20/2015	**0.217**	**0.181**	**1.51**	**0.00353 J**	**0.401**	**0.953**	<0.000213	**0.00054 J**	**0.303**	<0.000207	**0.0409**	**0.00117 J**	<0.000253	<0.000204	**0.00126 J**	<0.000221	**0.00028 J**	<0.00122	<0.00132	**0.00597 J**	<0.000927
	11/4/2015	**0.13**	**0.14**	**0.47**	<0.002	**0.19**	**0.23**	<0.0005	<0.0005	**0.11**	<0.0006	**0.018**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/12/2016	**0.18**	**0.094**	**0.21**	<0.002	**0.16**	**0.17**	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
MW-13	10/18/2007	<0.0005	<0.0007	**0.00099 J**	<0.0006	<0.0006	<0.0006	<0.0006	<0.0005	<0.0005	-	-	<0.0005	<0.0006	<0.0006	<0.0005	<0.0005	<0.0015	-	-	-	<0.0006
	4/23/2009	<0.0003	<0.0001	<0.0002	<0.0003	<0.0002	<0.0004	**0.00011 J**	<0.0001	<0.0002	-	-	<0.0001	<0.0003	<0.0001	<0.0001	<0.0002	<0.0003	**0.0016**	-	<0.001	<0.0001
	5/22/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	**0.0018 J**	<0.001	**0.0019 J**	<0.0005
	11/10/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	5/25/2010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**0.00052 J**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	**0.003 J**	-	<0.001	<0.0005
	12/1/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	**0.0033 J**	<0.001	<0.001	<0.0005
	6/21/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	**0.0035 J**	-	<0.004	<0.0013
	12/14/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	**0.0017 J**	-	<0.004	<0.0013
	7/17/2013	<0.001	<0.001	<0.001	<0.001	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0008	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	**0.012**	<0.002	<0.01	<0.001
	1/17/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	**0.018**	<0.001	<0.002	<0.001
	5/22/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	**0.011**	<0.001	**0.0074 J**	<0.001

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Quest Chemical
12255 FM 529, Houston, Texas 77041
VCP No. 2091

		Chlorinated Solvents													Fuel Related Compounds					Lab Contaminants		
		Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	Chlorobenzene	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes,Total	Methyl tert-butyl ether	2-Butanone	Acetone	Methylene chloride
Sample ID	**Sample Date**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**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**	**0.007**	**0.002**	**0.2**	**0.005**	**4.888**	**0.07**	**0.6**	**0.1**	**9.777**	**0.005**	**1**	**0.7**	**10**	**0.244**	**14.665**	**21.998**	**0.005**
Residential	$^{GW}GW_{Inh-V}$	498.45	23.66	1228.86	768.29	1665.98	3.81	40520.41	80.04	43046.86	156.09	1158.14	1157.63	115981.12	179.89	63590.09	29732.43	10225.41	4038.83	1000000	1000000	21349.18
MW-13 Continued	11/13/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	**0.0086**	<0.001	<0.002	<0.001
	5/15/2015	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	**0.0092**	<0.001	<0.002	<0.001
	11/5/2015	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	**0.0073**	<0.001	<0.002	<0.001
	2/11/2016	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	**0.009**	<0.001	<0.002	<0.001
MW-17	11/20/2007	<0.0005	<0.0007	<0.0005	-	**0.016**	<0.0006	<0.0006	<0.0005	-	-	-	-	-	-	**0.0016 J**	-	-	-	-	-	<0.0006
	5/6/2008	<0.0006	<0.0005	<0.0005	-	**0.016**	<0.0005	<0.0005	<0.0005	-	-	-	-	-	-	<0.0005	-	-	-	-	-	<0.0005
	4/21/2009	<0.0003	<0.0001	<0.0002	<0.0003	**0.0085**	<0.0004	<0.0001	<0.0001	**0.0013**	-	-	<0.0001	<0.0003	<0.0001	<0.0001	<0.0002	<0.0003	<0.0001	-	<0.001	<0.0001
	11/11/2009	<0.0006	<0.0005	<0.0005	<0.0005	**0.015**	<0.0005	<0.0005	<0.0005	**0.0043 J**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	5/25/2010	<0.0005	<0.0005	**0.00068 J**	<0.0005	**0.013**	<0.0005	<0.0005	<0.0005	**0.0048 J**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	-	<0.001	<0.0005
	12/3/2010	<0.0006	<0.0005	**0.00095 J**	<0.0005	**0.013**	<0.0005	<0.0005	<0.0005	**0.0059**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/27/2011	<0.0017	**0.038**	<0.0025	<0.001	**0.011**	<0.001	<0.0013	<0.0008	**0.0092**	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	12/16/2011	<0.0017	**0.26**	**0.0029 J**	<0.001	**0.019**	<0.001	<0.0013	<0.0008	**0.016**	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/17/2013	**0.026 J**	**4.2**	**0.042 J**	<0.01	**0.16**	<0.005	<0.005	<0.005	**0.036 J**	<0.008	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.015	<0.01	<0.02	<0.1	<0.01
	1/16/2014	**0.06 J**	**5.5**	**0.11 J**	<0.01	**0.28**	<0.01	<0.012	<0.012	**0.062 J**	<0.015	<0.015	<0.01	<0.012	<0.015	<0.012	<0.012	<0.038	<0.015	<0.025	<0.05	<0.025
	5/20/2014	**0.055**	**7.8**	**0.12**	<0.004	**0.34**	**0.0058 J**	<0.005	<0.005	**0.083**	<0.006	<0.006	<0.004	<0.005	<0.006	<0.005	<0.005	<0.015	<0.006	<0.01	<0.02	<0.01
	11/12/2014	**0.045 J**	**10**	**0.13**	<0.004	**0.27**	<0.004	<0.005	<0.005	**0.054**	<0.006	<0.006	<0.004	<0.005	<0.006	<0.005	<0.005	<0.015	<0.006	<0.01	<0.02	<0.01
	5/19/2015	**0.0388**	**10.3**	**0.123**	<0.000269	**0.186**	**0.00263**	<0.000213	**0.00134 J**	**0.0447**	<0.000207	**0.00281 J**	<0.000223	<0.000253	<0.000204	<0.000268	<0.000221	<0.000149	<0.00122	<0.00132	**0.00413 J**	<0.000927
	11/3/2015	**0.046 J**	**11**	**0.14**	<0.004	**0.22**	<0.004	<0.005	<0.005	**0.045 J**	<0.006	<0.006	<0.004	<0.005	<0.006	<0.005	<0.005	<0.015	<0.006	<0.01	<0.02	<0.01
	2/11/2016	**0.03**	**5.7**	**0.18**	<0.002	**0.22**	**0.0044 J**	<0.0025	<0.0025	**0.048**	<0.003	<0.003	<0.002	<0.0025	<0.003	<0.0025	<0.0025	<0.0075	<0.003	<0.005	<0.01	<0.005
MW-18	11/20/2007	<0.0005	<0.0007	<0.0005	-	<0.0006	<0.0006	<0.0006	<0.0005	-	-	-	-	-	-	**0.0033 J**	-	-	-	-	-	<0.0006
	4/21/2009	<0.0003	<0.0001	<0.0002	<0.0003	<0.0002	<0.0004	<0.0001	<0.0001	<0.0002	-	-	<0.0001	<0.0003	<0.0001	<0.0001	<0.0002	<0.0003	<0.0001	-	<0.001	<0.0001
	11/11/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	5/25/2010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**0.00081 J**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	-	<0.001	<0.0005
	12/2/2010	<0.0006	<0.0005	**0.00057 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**0.0019 J**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/23/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	**0.0045 J**	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	12/15/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	**0.0065**	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/19/2013	<0.001	<0.001	<0.001	<0.001	<0.0006	<0.0005	<0.0005	<0.0005	**0.0012 J**	<0.0008	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001
	1/17/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	**0.0011 J**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/20/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	**0.0012 J**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/13/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	**0.0047 J**	<0.001
	5/15/2015	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	**0.00044 J**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/5/2015	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/11/2016	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001

Table E2-1
Summary of Volatile Organic Compounds in Groundwater - First GWBU
Quest Chemical
12255 FM 529, Houston, Texas 77041
VCP No. 2091

		Chlorinated Solvents													Fuel Related Compounds					Lab Contaminants		
		Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	Chlorobenzene	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes,Total	Methyl tert-butyl ether	2-Butanone	Acetone	Methylene chloride
Sample ID	**Sample Date**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**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**	**0.007**	**0.002**	**0.2**	**0.005**	**4.888**	**0.07**	**0.6**	**0.1**	**9.777**	**0.005**	**1**	**0.7**	**10**	**0.244**	**14.665**	**21.998**	**0.005**
Residential	$^{GW}GW_{Inh-V}$	498.45	23.66	1228.86	768.29	1665.98	3.81	40520.41	80.04	43046.86	156.09	1158.14	1157.63	115981.12	179.89	63590.09	29732.43	10225.41	4038.83	1000000	1000000	21349.18
MW-19	11/20/2007	<0.0005	<0.0007	<0.0005	-	<0.0006	<0.0006	<0.0006	<0.0005	-	-	-	-	-	-	**0.023**	-	-	-	-	-	<0.0006
	4/21/2009	<0.0003	<0.0001	<0.0002	<0.0003	<0.0002	<0.0004	<0.0001	<0.0001	<0.0002	-	-	<0.0001	<0.0003	<0.0001	<0.0001	<0.0002	<0.0003	<0.0001	-	<0.001	<0.0001
	11/11/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	5/25/2010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	-	<0.001	<0.0005
	12/6/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/23/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	12/15/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/16/2013	<0.001	<0.001	<0.001	<0.001	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0008	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001
	1/17/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	**0.00092 J**	<0.001	<0.002	<0.001
	5/20/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	**0.0011 J**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/12/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/14/2015	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/5/2015	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/10/2016	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
MW-20	4/18/2008	<0.0006	<0.0005	<0.0005	-	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-	-	-	-	<0.0005	-	-	-	-	-	<0.0005
	4/20/2009	<0.0003	<0.0001	<0.0002	<0.0003	<0.0002	<0.0004	<0.0001	<0.0001	<0.0002	-	-	<0.0001	<0.0003	<0.0001	<0.0001	<0.0002	<0.0003	<0.0001	-	<0.001	<0.0001
	11/11/2009	**0.0022 J**	<0.0005	<0.0005	<0.0005	**0.0042 J**	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	5/26/2010	**0.01**	<0.0005	<0.0005	<0.0005	**0.017**	<0.0005	<0.0005	<0.0005	**0.0021 J**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	-	<0.001	<0.0005
	12/3/2010	**0.0053**	<0.0005	<0.0005	<0.0005	**0.0077**	<0.0005	<0.0005	<0.0005	**0.0023 J**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/27/2011	<0.0017	<0.0011	<0.0025	<0.001	**0.0021 J**	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	12/16/2011	**0.0027 J**	<0.0011	<0.0025	<0.001	**0.005 J**	<0.001	<0.0013	<0.0008	**0.0015 J**	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/17/2013	**0.23**	**0.12**	**0.15**	<0.001	**0.33**	<0.0005	<0.0005	<0.0005	**0.06**	<0.0008	**0.001 J**	**0.0068**	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001
	1/16/2014	**0.095**	**0.046**	**0.084**	<0.0004	**0.17**	**0.00068 J**	<0.0005	<0.0005	**0.033**	**0.00073 J**	**0.00063 J**	**0.0032 J**	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/21/2014	**0.074**	**0.05**	**0.086**	<0.0004	**0.16**	**0.0011 J**	<0.0005	<0.0005	**0.027**	**0.00096 J**	**0.00067 J**	**0.0024 J**	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/13/2014	**0.075**	**0.04**	**0.062**	<0.0004	**0.11**	<0.0004	<0.0005	<0.0005	**0.017**	<0.0006	<0.0006	**0.0012 J**	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/19/2015	**0.0375**	**0.0232**	**0.0341**	<0.000269	**0.0595**	<0.000292	<0.000213	<0.000461	**0.00985**	<0.000207	<0.000286	**0.00068 J**	<0.000253	<0.000204	<0.000268	<0.000221	<0.000149	<0.00122	<0.00132	**0.0062 J**	<0.000927
	11/3/2015	**0.039**	**0.014**	**0.018**	<0.0004	**0.042**	<0.0004	<0.0005	<0.0005	**0.0049 J**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/11/2016	**0.02**	**0.0078**	**0.01**	<0.0004	**0.022**	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
MW-21	4/18/2008	**0.037**	<0.0005	<0.0005	-	**0.094**	<0.0005	<0.0005	<0.0005	-	-	-	-	-	-	<0.0005	-	-	-	-	-	<0.0005
	5/6/2008	**0.036**	<0.0005	<0.0005	-	**0.1**	<0.0005	<0.0005	<0.0005	-	-	-	-	-	-	<0.0005	-	-	-	-	-	<0.0005
	4/21/2009	**0.016**	<0.0001	<0.0002	<0.0003	**0.042**	<0.0004	<0.0001	<0.0001	**0.00078 J**	-	-	<0.0001	<0.0003	<0.0001	<0.0001	<0.0002	<0.0003	<0.0001	-	<0.001	<0.0001
	11/11/2009	**0.05**	<0.0005	<0.0005	<0.0005	**0.11**	<0.0005	<0.0005	<0.0005	**0.0023 J**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	12/8/2009	**0.038**	<0.0005	<0.0005	<0.0005	**0.083**	<0.0005	<0.0005	<0.0005	**0.002 J**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	12/22/2009	**0.029**	<0.0005	<0.0005	<0.0005	**0.06**	<0.0005	<0.0005	<0.0005	**0.0014 J**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	1/21/2010	**0.024**	<0.0005	<0.0005	<0.0005	**0.053**	<0.0005	<0.0005	<0.0005	**0.0016 J**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	3/2/2010	**0.035**	<0.0005	<0.0005	<0.0005	**0.078**	<0.0005	<0.0005	<0.0005	**0.0021 J**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	3/31/2010	**0.022**	<0.0005	<0.0005	<0.0005	**0.05**	<0.0005	<0.0005	<0.0005	**0.0017 J**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	5/27/2010	**0.064**	<0.0005	<0.0005	<0.0005	**0.13**	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	-	<0.001	<0.0005
	12/6/2010	**0.0044 J**	<0.0005	<0.0005	<0.0005	**0.018**	<0.0005	<0.0005	<0.0005	**0.002 J**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/24/2011	**0.023**	<0.0011	<0.0025	<0.001	**0.05**	<0.001	<0.0013	<0.0008	**0.0037 J**	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	12/15/2011	**0.021**	<0.0011	<0.0025	<0.001	**0.048**	<0.001	<0.0013	<0.0008	**0.0033 J**	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/16/2013	**0.022**	**0.0052**	<0.001	<0.001	**0.032**	<0.0005	<0.0005	<0.0005	**0.0032 J**	<0.0008	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001

Table E2-1
Summary of Volatile Organic Compounds in Groundwater - First GWBU
Quest Chemical
12255 FM 529, Houston, Texas 77041
VCP No. 2091

		Chlorinated Solvents													Fuel Related Compounds					Lab Contaminants		
		Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	Chlorobenzene	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes,Total	Methyl tert-butyl ether	2-Butanone	Acetone	Methylene chloride
Sample ID	**Sample Date**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**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**	**0.007**	**0.002**	**0.2**	**0.005**	**4.888**	**0.07**	**0.6**	**0.1**	**9.777**	**0.005**	**1**	**0.7**	**10**	**0.244**	**14.665**	**21.998**	**0.005**
Residential	$^{GW}GW_{Inh-V}$	498.45	23.66	1228.86	768.29	1665.98	3.81	40520.41	80.04	43046.86	156.09	1158.14	1157.63	115981.12	179.89	63590.09	29732.43	10225.41	4038.83	1000000	1000000	21349.18
MW-21 Continued	1/17/2014	**0.0057**	**0.0021 J**	<0.0006	<0.0004	**0.0082**	<0.0004	<0.0005	<0.0005	**0.0011 J**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/19/2014	**0.0014 J**	<0.0005	<0.0006	<0.0004	**0.00066 J**	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/12/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/14/2015	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/10/2016	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
MW-21A	7/16/2013	**0.0067**	<0.001	<0.001	<0.001	**0.0048 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0008	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001
	1/17/2014	**0.0036 J**	<0.0005	<0.0006	<0.0004	**0.0019 J**	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/19/2014	**0.0031 J**	**0.0015 J**	<0.0006	<0.0004	**0.0057**	<0.0004	<0.0005	<0.0005	**0.0013 J**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/12/2014	**0.0027 J**	**0.001 J**	<0.0006	<0.0004	**0.006**	<0.0004	<0.0005	<0.0005	**0.00042 J**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/14/2015	**0.0023 J**	**0.00085 J**	<0.0006	<0.0004	**0.0043 J**	<0.0004	<0.0005	<0.0005	**0.00067 J**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/3/2015	**0.0027 J**	**0.00068 J**	<0.0006	<0.0004	**0.0021 J**	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/10/2016	**0.0018 J**	**0.00061 J**	<0.0006	<0.0004	**0.0025 J**	<0.0004	<0.0005	<0.0005	**0.00055 J**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
MW-22	7/16/2008	<0.0006	<0.0005	<0.0005	-	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-	-	-	-	**0.00068 J**	-	-	-	-	-	<0.0005
	4/21/2009	<0.0003	<0.0001	<0.0002	<0.0003	<0.0002	<0.0004	<0.0001	<0.0001	<0.0002	-	-	<0.0001	<0.0003	<0.0001	<0.0001	<0.0002	<0.0003	<0.0001	-	<0.001	<0.0001
	11/11/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	5/26/2010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**0.00053 J**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	-	<0.001	<0.0005
	12/3/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/23/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	12/15/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/16/2013	<0.001	<0.001	<0.001	<0.001	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0008	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001
	1/17/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/19/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/13/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/14/2015	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/3/2015	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/10/2016	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
MW-23	7/16/2008	<0.0006	<0.0005	<0.0005	-	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-	-	-	-	<0.0005	-	-	-	-	-	<0.0005
	4/21/2009	<0.0003	<0.0001	<0.0002	<0.0003	<0.0002	<0.0004	<0.0001	<0.0001	<0.0002	-	-	<0.0001	<0.0003	<0.0001	<0.0001	<0.0002	<0.0003	<0.0001	-	<0.001	<0.0001
	11/11/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	5/25/2010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	-	<0.001	<0.0005
	12/6/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/23/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	12/15/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/16/2013	<0.001	<0.001	<0.001	<0.001	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0008	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001
	1/17/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/20/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/12/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/14/2015	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/5/2015	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/10/2016	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001

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Quest Chemical
12255 FM 529, Houston, Texas 77041
VCP No. 2091

		Chlorinated Solvents													Fuel Related Compounds					Lab Contaminants		
		Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	Chlorobenzene	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes,Total	Methyl tert-butyl ether	2-Butanone	Acetone	Methylene chloride
Sample ID	**Sample Date**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**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**	**0.007**	**0.002**	**0.2**	**0.005**	**4.888**	**0.07**	**0.6**	**0.1**	**9.777**	**0.005**	**1**	**0.7**	**10**	**0.244**	**14.665**	**21.998**	**0.005**
Residential	$^{GW}GW_{Inh-V}$	498.45	23.66	1228.86	768.29	1665.98	3.81	40520.41	80.04	43046.86	156.09	1158.14	1157.63	115981.12	179.89	63590.09	29732.43	10225.41	4038.83	1000000	1000000	21349.18
MW-24	7/16/2008	<0.0006	<0.0005	<0.0005	-	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-	-	-	-	**0.0032 J**	-	-	-	-	-	<0.0005
	5/22/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	11/11/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	5/25/2010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	-	<0.001	<0.0005
	12/6/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/23/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	12/15/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/17/2013	<0.001	<0.001	<0.001	<0.001	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0008	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001
	1/17/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/20/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/12/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/14/2015	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/5/2015	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/11/2016	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
MW-25	7/16/2008	<0.0006	<0.0005	<0.0005	-	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-	-	-	-	**0.0085**	-	-	-	-	-	<0.0005
	4/21/2009	<0.0003	<0.0001	<0.0002	<0.0003	<0.0002	<0.0004	<0.0001	<0.0001	<0.0002	-	-	<0.0001	<0.0003	<0.0001	<0.0001	<0.0002	<0.0003	<0.0001	-	**0.0011 J**	<0.0001
	11/11/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	5/25/2010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	-	<0.001	<0.0005
	12/6/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/23/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	12/15/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.0013	<0.001	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/16/2013	<0.001	<0.001	<0.001	<0.001	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0008	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001
	1/17/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/20/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/12/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/14/2015	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/5/2015	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/10/2016	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
MW-26	6/4/2009	<0.0006	<0.0005	**0.0062**	<0.0005	**0.016**	**0.015**	<0.0005	<0.0005	**0.06**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	11/10/2009	**0.027**	**0.33**	**0.41**	**0.05**	**0.008**	**0.066**	<0.0005	<0.0005	**0.075**	-	-	<0.0005	**0.0023 J**	<0.0005	**0.024**	**0.007**	**0.04**	<0.0005	<0.001	**0.17**	<0.0005
	5/27/2010	<0.0006	**0.026**	**1.4**	**0.092**	**0.32**	**3**	**0.1**	<0.0005	**0.65**	-	-	<0.0005	**0.0023 J**	**0.0012 J**	**0.33**	**0.11**	**0.39**	<0.0005	-	**1.3**	**0.009 J**
	12/1/2010	<0.003	**0.05**	**5.3**	**0.093**	**0.46**	**5**	**0.11**	<0.0025	**1.7**	-	-	<0.0025	**0.059**	<0.0025	**0.56**	**0.081**	**0.38**	<0.0025	**0.18**	**3.9**	**0.012 J**
	6/21/2011	<0.0017	**0.015**	**0.027**	**0.011**	**0.0031 J**	**0.18**	**0.0018 J**	<0.0008	**0.47**	-	-	<0.0057	**0.28**	<0.001	**0.18**	**0.048**	**0.16**	<0.0012	-	**0.017**	**0.0041 J**
	12/14/2011	**0.0019 J**	**0.025**	**0.17**	**0.0023 J**	**0.013**	**0.56**	<0.0013	<0.0008	**0.45**	-	-	**0.0095**	<0.0015	<0.001	**0.095**	**0.016**	**0.048**	<0.0012	-	<0.004	<0.0013
	7/17/2013	<0.01	<0.01	**1**	**0.011 J**	**0.14**	**4**	<0.005	<0.005	**1.1**	<0.008	**0.21**	<0.005	**0.22**	<0.005	**0.56**	**0.069**	**0.33**	<0.01	**0.18**	**4**	**0.064 J**
	1/16/2014	<0.003	<0.0025	**0.02 J**	**0.0036 J**	**0.0047 J**	**1.2**	<0.0025	<0.0025	**0.47**	<0.003	**0.13**	<0.002	**0.17**	<0.003	**0.23**	**0.035**	**0.12**	<0.003	**0.071**	**0.68**	**0.0094 J**
	5/21/2014	<0.006	**0.044 J**	**4**	<0.04	**0.33**	**5.5**	<0.005	<0.005	**0.81**	<0.006	**0.24**	<0.004	**0.28**	<0.006	**0.47**	**0.064**	**0.28**	<0.006	<0.01	**2.6**	**0.01 J**
	11/13/2014	<0.006	**0.014 J**	**4.4**	<0.04	**0.4**	**7.9**	**0.076**	<0.005	**1.1**	<0.006	**0.3**	<0.004	<0.005	<0.006	**0.71**	**0.086**	**0.34**	<0.006	<0.01	**1.9**	<0.01
	5/15/2015	<0.006	**0.019 J**	**2.3**	**0.11 J**	**0.19**	**2.8**	**0.037 J**	<0.005	**1.1**	<0.006	**0.33**	<0.004	<0.005	<0.006	**0.42**	**0.079**	**0.28**	<0.006	<0.01	**1.5**	<0.01
	11/5/2015	**0.0031 J**	**0.0021 J**	**0.15**	**0.032**	**0.019**	**0.51**	**0.0089**	<0.0005	**0.88**	<0.0006	**0.2**	<0.0004	**0.066**	<0.0006	**0.27**	**0.093**	**0.43**	<0.0006	**0.18**	**0.79**	<0.001
	2/11/2016	<0.0006	**0.0048 J**	**0.86**	**0.041 J**	**0.057**	**0.29**	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	**0.072**	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001

Table E2-1
Summary of Volatile Organic Compounds in Groundwater - First GWBU
Quest Chemical
12255 FM 529, Houston, Texas 77041
VCP No. 2091

		Chlorinated Solvents													Fuel Related Compounds					Lab Contaminants		
		Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	Chlorobenzene	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes,Total	Methyl tert-butyl ether	2-Butanone	Acetone	Methylene chloride
Sample ID	**Sample Date**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**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**	**0.007**	**0.002**	**0.2**	**0.005**	**4.888**	**0.07**	**0.6**	**0.1**	**9.777**	**0.005**	**1**	**0.7**	**10**	**0.244**	**14.665**	**21.998**	**0.005**
Residential	$^{GW}GW_{Inh-V}$	498.45	23.66	1228.86	768.29	1665.98	3.81	40520.41	80.04	43046.86	156.09	1158.14	1157.63	115981.12	179.89	63590.09	29732.43	10225.41	4038.83	1000000	1000000	21349.18
MW-27/27R	6/4/2009	**0.0025 J**	**0.24**	**39**	**0.042**	**1.8**	**8**	**0.022**	**0.0038 J**	**2.1**	-	-	**0.0013 J**	<0.0005	**0.0007 J**	**0.78**	**0.13**	**0.39**	**0.0045 J**	<0.001	<0.001	**0.001 J**
	11/10/2009	<0.006	**0.096**	**10**	**0.019 J**	**4.6**	**1.3**	**0.87**	<0.005	**0.92**	-	-	<0.005	<0.005	<0.005	**0.81**	**0.077**	**0.43**	<0.005	<0.01	**0.038 J**	<0.005
	5/27/2010	**0.018**	**0.36**	**3.2**	**0.13**	**1.7**	**1.2**	**0.14**	<0.0005	**0.55**	-	-	**0.0021 J**	<0.005	**0.00081 J**	**0.026**	<0.0005	**0.14**	**0.002 J**	-	<0.001	<0.005
	12/1/2010	**0.024 J**	**1.0**	**2.4**	**0.005 J**	**0.55**	**0.55**	**0.017 J**	<0.0025	**0.22**	-	-	<0.0025	<0.0025	<0.0025	**0.0056 J**	<0.0025	**0.021 J**	<0.0025	<0.005	<0.005	<0.0025
	6/21/2011	**0.034**	**1.9**	**0.85**	**0.012 J**	**0.13**	**0.26**	<0.0065	<0.004	**0.078**	-	-	<0.005	<0.0075	<0.005	<0.005	<0.0055	<0.016	<0.006	-	<0.02	<0.0065
	12/14/2011	<0.0085	**1.2**	**0.61**	<0.005	**0.05**	**0.22**	<0.0065	<0.004	**0.045**	-	-	<0.005	<0.0075	<0.005	<0.005	<0.0055	<0.016	<0.006	-	<0.02	<0.0065
	7/17/2013	**0.011**	**1.7**	**0.47**	<0.025	**0.1**	**0.19**	<0.0005	<0.0005	**0.057**	<0.0008	**0.0082**	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	**0.0021 J**	<0.001	<0.002	<0.01	<0.001
	1/16/2014	**0.022 J**	**1.5**	**0.69**	**0.018 J**	**0.18**	**0.25**	<0.005	<0.005	**0.12**	<0.006	**0.017 J**	<0.004	<0.005	<0.006	<0.005	<0.005	<0.015	<0.006	<0.01	<0.02	<0.01
	5/21/2014	**0.013**	**0.65**	**0.29**	<0.004	**0.11**	**0.36**	<0.0005	<0.0005	**0.042**	<0.0006	**0.0061**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/13/2014	**0.0051**	**0.23**	**0.16**	<0.0004	**0.068**	**0.11**	<0.0005	<0.0005	**0.027**	<0.0006	**0.0032 J**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/21/2015	**<0.006**	**11**	**1.6**	<0.004	**0.021 J**	**0.096**	<0.005	<0.005	**0.011 J**	<0.006	<0.006	<0.004	<0.005	<0.006	<0.005	<0.005	<0.015	<0.006	<0.01	<0.02	<0.01
	11/5/2015	**0.0032 J**	**1.5**	**1.9**	<0.01	**0.031**	**0.19**	<0.0005	<0.0005	**0.033**	<0.0006	**0.002 J**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/11/2016	**0.00078 J**	**0.24**	**0.31**	<0.002	**0.063**	**0.19**	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
MW-28	6/4/2009	**0.15**	**0.082**	**0.14**	<0.0005	**0.095**	**0.022**	<0.0005	<0.0005	**0.052**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	**0.0012 J**
	11/10/2009	**0.16**	**0.12**	**0.4**	**0.00052 J**	**0.27**	**0.11**	<0.0005	<0.0005	**0.14**	-	-	<0.0005	<0.0005	<0.0005	**0.00081 J**	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	5/28/2010	**0.029**	**0.055**	**2.7**	**0.0036 J**	**0.6**	**1.1**	**0.014**	<0.0005	**0.94**	-	-	<0.0005	<0.0005	<0.0005	**0.045**	**0.0073**	**0.059**	<0.0005	-	<0.001	<0.0005
	12/2/2010	**0.011**	**0.044**	**2.7**	**0.002 J**	**0.63**	**0.78**	**0.014**	<0.0005	**0.7**	-	-	<0.0005	<0.0005	<0.0005	**0.016**	**0.00085 J**	**0.014 J**	<0.0005	<0.001	<0.001	**0.00083 J**
	6/24/2011	**0.013**	**0.12**	**3.3**	**0.0039 J**	**0.65**	**0.45**	**0.026**	<0.0008	**0.42**	-	-	<0.001	<0.0015	<0.001	**0.012**	<0.0011	**0.014 J**	<0.0012	-	<0.004	<0.0013
	12/14/2011	**0.0052**	**0.5**	**2.4**	**0.025**	**0.55**	**0.15**	**0.028**	<0.0008	**0.19**	-	-	<0.001	<0.0015	<0.001	**0.0012 J**	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/19/2013	<0.001	**0.071**	**0.23**	<0.005	**0.064**	**0.0046**	<0.0005	<0.0005	**0.028**	<0.0008	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001
	1/16/2014	**0.0011 J**	**0.036**	**0.13**	<0.0004	**0.037**	**0.002**	<0.0005	<0.0005	**0.017**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/20/2014	**0.00083 J**	**0.027**	**0.12**	<0.0004	**0.031**	**0.0045**	<0.0005	<0.0005	**0.014**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/13/2014	**0.00076 J**	**0.026**	**0.085**	<0.0004	**0.023**	**0.0038**	<0.0005	<0.0005	**0.011**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/21/2015	**0.00099 J**	**0.029**	**0.1**	<0.0004	**0.026**	**0.0083**	<0.0005	<0.0005	**0.016**	<0.0006	**0.00095 J**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	**0.0091 J**	<0.001
	11/4/2015	**0.0035 J**	**0.14**	**0.14**	<0.0004	**0.052**	**0.013**	<0.0005	<0.0005	**0.024**	<0.0006	**0.002 J**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/11/2016	**0.0018 J**	**0.12**	**0.12**	<0.0004	**0.049**	**0.0036**	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
MW-29 (35')	2/8/2010	**4.4**	**0.65**	**0.24**	<0.0005	**2.5**	**0.0085**	**0.0085**	**0.0014 J**	**0.2**	-	-	<0.0005	<0.0005	<0.0005	**0.0043 J**	<0.0005	**0.094**	<0.0005	<0.001	<0.001	**0.006 J**
	5/26/2010	**8.7**	**1.5**	**0.64**	<0.0005	**5.4**	**0.02**	**0.014**	**0.0029 J**	**0.49**	-	-	<0.0005	<0.0005	<0.0005	**0.01**	**0.0012 J**	**0.096**	<0.0005	-	<0.001	**0.0017 J**
	12/3/2010	**4.9**	**1.1**	**0.71**	<0.005	**3.6**	**0.0095 J**	<0.005	<0.005	**0.37**	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	**0.019 J**	<0.005	<0.01	<0.01	<0.005
	6/27/2011	**2.8**	**0.62**	**0.42**	<0.01	**1.7**	<0.01	<0.013	<0.008	**0.19**	-	-	<0.01	<0.015	<0.01	<0.01	<0.011	<0.031	<0.012	-	<0.04	<0.013
	12/16/2011	**4**	**1.1**	**1**	<0.01	**2.9**	<0.01	<0.013	<0.008	**0.3**	-	-	<0.01	<0.015	<0.01	<0.01	<0.011	<0.031	<0.012	-	<0.04	<0.013
	7/17/2013	**2.6**	**0.38**	**0.29**	<0.005	**1.3**	**0.013**	<0.0025	<0.0025	**0.11**	<0.004	**0.09**	<0.0025	<0.005	<0.0025	<0.0025	<0.0025	<0.0075	<0.005	<0.01	<0.05	**0.0094 J**
	1/16/2014	**2.1**	**0.31**	**0.22**	<0.004	**0.99**	**0.0048 J**	<0.005	<0.005	**0.085**	<0.006	**0.079**	<0.004	<0.005	<0.006	<0.005	<0.005	<0.015	<0.006	<0.01	<0.02	<0.01
	5/20/2014	**1.4**	**0.15**	**0.087**	<0.002	**0.71**	**0.0044 J**	<0.0025	<0.0025	**0.048**	<0.003	**0.042**	<0.002	<0.0025	<0.003	<0.0025	<0.0025	<0.0075	<0.003	<0.005	<0.01	**0.0085 J**
	11/12/2014	**0.88**	**0.086**	**0.055**	<0.002	**0.42**	**0.0049 J**	<0.0025	<0.0025	**0.037**	<0.003	**0.036**	<0.002	<0.0025	<0.003	<0.0025	<0.0025	<0.0075	<0.003	<0.005	<0.01	<0.005
	5/19/2015	**0.644**	**0.0539**	**0.0324**	<0.000539	**0.233**	**0.00328 J**	<0.000426	<0.000922	**0.031**	<0.000414	**0.0194**	<0.000447	<0.000506	<0.000407	<0.000537	<0.000442	<0.000298	<0.00244	<0.00264	**0.0304 BJ**	<0.001
	11/3/2015	**0.62**	**0.078**	**0.048**	<0.0004	**0.31**	**0.0053**	<0.0005	<0.0005	**0.037**	<0.0006	**0.023**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/10/2016	**0.78**	**0.17**	**0.12**	**0.00057 J**	**0.45**	**0.021**	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001

Table E2-1
Summary of Volatile Organic Compounds in Groundwater - First GWBU
Quest Chemical
12255 FM 529, Houston, Texas 77041
VCP No. 2091

		Chlorinated Solvents													Fuel Related Compounds					Lab Contaminants		
		Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	Chlorobenzene	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes,Total	Methyl tert-butyl ether	2-Butanone	Acetone	Methylene chloride
Sample ID	**Sample Date**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**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**	**0.007**	**0.002**	**0.2**	**0.005**	**4.888**	**0.07**	**0.6**	**0.1**	**9.777**	**0.005**	**1**	**0.7**	**10**	**0.244**	**14.665**	**21.998**	**0.005**
Residential	$^{GW}GW_{Inh-V}$	498.45	23.66	1228.86	768.29	1665.98	3.81	40520.41	80.04	43046.86	156.09	1158.14	1157.63	115981.12	179.89	63590.09	29732.43	10225.41	4038.83	1000000	1000000	21349.18
MW-30	2/8/2010	**0.0058**	**0.00064 J**	**0.0013 J**	<0.0005	**0.022**	<0.0005	<0.0005	<0.0005	**0.0066**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	5/26/2010	**0.0018 J**	<0.0005	**0.0014 J**	<0.0005	**0.026**	<0.0005	<0.0005	<0.0005	**0.007**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	-	<0.001	<0.0005
	12/3/2010	**0.0027 J**	<0.0005	**0.002 J**	<0.0005	**0.029**	<0.0005	<0.0005	<0.0005	**0.0085**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/27/2011	**0.005**	**0.0013 J**	<0.0025	<0.001	**0.025**	<0.001	<0.0013	<0.0008	**0.0088**	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	12/16/2011	**0.0019 J**	**0.0072**	**0.0049 J**	<0.001	**0.027**	<0.001	<0.0013	<0.0008	**0.0097**	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/17/2013	**0.0088**	**0.22**	**0.18**	<0.001	**0.17**	**0.0061**	<0.0005	<0.0005	**0.054**	<0.0008	**0.0017 J**	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001
	1/16/2014	**0.0078**	**0.19**	**0.14**	<0.0004	**0.14**	**0.0043**	<0.0005	<0.0005	**0.051**	<0.0006	**0.0011 J**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/20/2014	**0.019**	**0.64**	**0.45**	**0.003 J**	**0.26**	**0.018**	<0.0005	<0.0005	**0.11**	<0.0006	**0.0036 J**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/12/2014	**0.03**	**1.3**	**0.86**	<0.004	**0.4**	**0.031**	<0.0005	<0.0005	**0.18**	<0.0006	**0.005 J**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/19/2015	**0.0361**	**2.34**	**1.53**	**0.00365 J**	**0.453**	**0.0424**	<0.00106	<0.00231	**0.234**	<0.00104	**0.00545 J**	<0.00112	<0.00127	<0.00102	<0.00134	<0.00111	**0.001 J**	<0.00609	<0.0066	**0.105 BJ**	<0.00464
	11/5/2015	**0.05**	**3.8**	**2.6**	<0.01	**0.65**	**0.099**	<0.0005	<0.0005	**0.26**	<0.0006	**0.0084**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	**0.008 J**	**0.0016 J**	<0.001	<0.002	<0.001
	2/10/2016	**0.043**	**3.4**	**3**	<0.008	**0.6**	**0.11**	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
MW-31	2/8/2010	**0.0045 J**	**0.00063 J**	**0.0025 J**	<0.0005	**0.06**	<0.0005	<0.0005	<0.0005	**0.013**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	5/26/2010	**0.002 J**	<0.0005	**0.0017 J**	<0.0005	**0.032**	<0.0005	<0.0005	<0.0005	**0.0087**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	-	<0.001	<0.0005
	12/3/2010	**0.00064 J**	<0.0005	<0.0005	<0.0005	**0.013**	<0.0005	<0.0005	<0.0005	**0.0032 J**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/23/2011	<0.0017	<0.0011	<0.0025	<0.001	**0.015**	<0.001	<0.0013	<0.0008	**0.006**	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	12/15/2011	**0.0028 J**	<0.0011	<0.0025	<0.001	**0.035**	<0.001	<0.0013	<0.0008	**0.015**	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/17/2013	**0.0084**	**0.1**	**0.068**	<0.001	**0.14**	**0.001 J**	<0.0005	<0.0005	**0.043**	<0.0008	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001
	1/16/2014	**0.013**	**0.25**	**0.17**	<0.0004	**0.22**	**0.0022**	<0.0005	<0.0005	**0.1**	<0.0006	**0.0022 J**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/20/2014	**0.016**	**0.54**	**0.29**	**0.0038 J**	**0.3**	**0.0091**	<0.0005	<0.0005	**0.11**	<0.0006	**0.0033 J**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/12/2014	**0.019**	**0.69**	**0.35**	<0.004	**0.33**	**0.013**	<0.0005	<0.0005	**0.13**	<0.0006	**0.0033 J**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/19/2015	**0.0204**	**1.29**	**0.551**	**0.00106 J**	**0.288**	**0.0193**	<0.000426	<0.000922	**0.143**	<0.000414	**0.00438 J**	<0.000447	<0.000506	<0.000407	<0.000537	<0.000442	**0.0006 J**	<0.00244	<0.00264	**0.0238 BJ**	<0.00185
	11/3/2015	**0.023 J**	**1.4**	**0.55**	<0.002	**0.31**	**0.024**	<0.0025	<0.0025	**0.11**	<0.003	<0.003	<0.002	<0.0025	<0.003	<0.0025	<0.0025	<0.0075	<0.003	<0.005	<0.01	<0.005
	2/11/2016	**0.029**	**2.1**	**1.1**	<0.01	**0.51**	**0.04**	<0.0005	<0.0005	**0.15**	<0.0006	**0.0062**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
MW-XN	11/10/2009	**0.014**	**0.034**	**0.089**	**0.0019 J**	**0.0039 J**	**0.011**	<0.0005	<0.0005	**0.016**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	5/27/2010	**0.8**	**0.83**	**0.18**	<0.0005	**0.026**	**0.041**	<0.0005	<0.0005	**0.019**	-	-	<0.0005	<0.0005	<0.0005	**0.0039 J**	<0.0005	**0.0015 J**	<0.0005	-	<0.001	<0.0005
	12/1/2010	**0.78**	**5.7**	**1.4**	**0.003 J**	**0.016**	**0.097**	<0.0005	<0.0005	**0.018**	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	6/21/2011	**0.022 J**	**6.3**	**1.5**	**0.0071 J**	**0.018 J**	**0.12**	<0.0065	<0.004	**0.014 J**	-	-	<0.005	<0.0075	<0.005	<0.005	<0.0055	<0.016	<0.006	-	<0.02	<0.0065
	12/14/2011	**0.022 J**	**1.8**	**1.1**	<0.005	**0.14**	**0.083**	<0.0065	<0.004	**0.015 J**	-	-	<0.005	<0.0075	<0.005	<0.005	<0.0055	<0.016	<0.006	-	<0.02	<0.0065
	7/17/2013	**0.24**	**6.7**	**2.4**	<0.1	**0.025 J**	**0.24**	<0.005	<0.005	**0.013 J**	<0.008	**0.014 J**	<0.005	<0.01	<0.005	<0.005	<0.005	<0.015	<0.01	<0.02	<0.1	<0.01
	1/16/2014	**0.18**	**6.9**	**2.6**	<0.01	**0.029 J**	**0.29**	<0.012	<0.012	**0.013 J**	<0.015	<0.015	<0.01	<0.012	<0.015	<0.012	<0.012	<0.038	<0.015	<0.025	<0.05	<0.025
	5/21/2014	**0.75**	**2.8**	**2.9**	<0.02	**0.16**	**0.18**	**0.11**	<0.005	**0.02 J**	<0.006	**0.045 J**	<0.004	<0.005	<0.006	<0.005	<0.005	<0.015	<0.006	<0.01	<0.02	<0.01
	11/13/2014	**0.18**	**0.83**	**1.7**	**0.0043 J**	**0.1**	**0.056**	**0.049**	<0.0005	**0.013**	<0.0006	**0.036**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	**0.0021 J**	<0.0006	<0.001	<0.002	<0.001
	5/15/2015	**0.0015 J**	**0.0088**	**0.0098**	<0.0004	<0.0005	**0.00043 J**	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/5/2015	<0.0006	**0.0026 J**	**0.004 J**	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/12/2016	<0.0006	**0.0026 J**	**0.0042 J**	<0.0004	<0.0005	<0.0004	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001

Table E2-1
Summary of Volatile Organic Compounds in Groundwater - First GWBU
Quest Chemical
12255 FM 529, Houston, Texas 77041
VCP No. 2091

		Chlorinated Solvents													Fuel Related Compounds					Lab Contaminants		
		Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	Chlorobenzene	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes,Total	Methyl tert-butyl ether	2-Butanone	Acetone	Methylene chloride
Sample ID	**Sample Date**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**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**	**0.007**	**0.002**	**0.2**	**0.005**	**4.888**	**0.07**	**0.6**	**0.1**	**9.777**	**0.005**	**1**	**0.7**	**10**	**0.244**	**14.665**	**21.998**	**0.005**
Residential	$^{GW}GW_{Inh-V}$	498.45	23.66	1228.86	768.29	1665.98	3.81	40520.41	80.04	43046.86	156.09	1158.14	1157.63	115981.12	179.89	63590.09	29732.43	10225.41	4038.83	1000000	1000000	21349.18
MW-XS	4/22/2009	<0.015	<0.0005	**23**	**0.038 J**	**0.26**	**4.9**	<0.0005	<0.0005	**0.38**	-	-	**0.041 J**	<0.015	<0.005	**0.24**	**0.093**	**0.34**	**0.0085 J**	-	**0.067 J**	<0.005
	5/22/2009	<0.0006	**0.0066**	**33**	<0.0005	**0.42**	**5.4**	<0.0005	**0.0055**	**0.56**	-	-	**0.045**	**0.0051**	**0.0012 J**	**0.34**	**0.11**	**0.41**	**0.0071**	-	<0.001	<0.0005
	11/10/2009	<0.006	<0.005	**4.4**	**0.021 J**	**0.63**	**3.4**	**0.085**	<0.005	**0.69**	-	-	<0.005	<0.005	<0.005	**0.36**	**0.048 J**	**0.2**	<0.005	<0.01	**0.069 J**	<0.005
	5/27/2010	**0.0039 J**	**0.024**	**5.9**	**0.074**	**4.2**	**3**	**1.2**	<0.0005	**0.8**	-	-	<0.0005	<0.0005	**0.001 J**	**1.7**	**0.16**	**0.71 J**	**0.0009 J**	-	**0.26**	<0.0005
	12/1/2010	<0.006	**0.029 J**	**4.6**	**0.012 J**	**3.7**	**1.6**	**0.44**	<0.005	**0.48**	-	-	<0.005	<0.005	<0.005	**1.5**	**0.11**	**0.62**	<0.005	<0.01	<0.01	<0.005
	6/21/2011	<0.0017	**0.0024 J**	**0.43**	**0.0068**	**0.19**	**0.94**	**0.0088**	<0.0008	**0.12**	-	-	<0.001	<0.0015	<0.001	**0.18**	**0.027**	**0.072**	<0.0012	-	<0.004	<0.0013
	12/14/2011	<0.0017	<0.0011	**0.02**	<0.001	**0.011**	**0.16**	<0.0013	<0.0008	**0.032**	-	-	<0.001	<0.0015	<0.001	**0.0051**	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/17/2013	<0.001	**0.19**	**1**	**0.016 J**	**0.063**	**0.79**	<0.0005	**0.00088 J**	**0.061**	<0.0008	**0.013**	<0.0005	<0.001	<0.0005	**0.0026 J**	<0.0005	**0.0029 J**	<0.001	<0.002	<0.01	<0.001
	1/16/2014	<0.0006	**0.0012 J**	**0.0018 J**	**0.0004 J**	<0.0005	**0.018**	<0.0005	<0.0005	**0.0021 J**	<0.0006	**0.0011 J**	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/21/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0005	**0.0022**	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/13/2014	<0.0006	**0.0021 J**	**0.93**	**0.0072 J**	**0.034**	**0.36**	<0.0005	<0.0005	**0.026**	<0.0006	**0.038**	<0.0004	<0.0005	<0.0006	**0.057**	**0.032**	**0.038**	<0.0006	<0.001	<0.002	<0.001
	5/21/2015	**0.015**	**0.001 J**	**0.18**	**0.0035 J**	**0.064**	**0.066**	**0.025**	<0.0005	**0.0083**	<0.0006	**0.0083**	<0.0004	<0.0005	<0.0006	**0.033**	**0.0069**	**0.015 J**	<0.0006	<0.001	<0.002	<0.001
	11/5/2015	**0.014 J**	**0.003 J**	**1.6**	**0.015 J**	**0.53**	**0.17**	**0.25**	<0.0025	**0.06**	<0.003	**0.041**	<0.002	<0.0025	<0.003	**0.27**	**0.035**	**0.14**	<0.003	<0.005	<0.01	<0.005
	2/12/2016	**0.012**	**0.0034 J**	**1.7**	**0.027 J**	**0.5**	**0.16**	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	**0.52**	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001

Notes: J: Analyte detected below the quantitation limit.
<: Analyted detected below the laboratory detection limit.
0.0055 Analyte detected above Critical Tier 1 PCL

Table E2-2
Summary of Summary of Volatile Organic Compounds in Groundwater - Second GW BU
Quest Chemical
12255 FM 529, Houston, Texas 77041
VCP No. 2091

		Chlorinated Solvents													Fuel Related Compounds					Lab Contaminants		
		Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride	1,1-Dichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	Chlorobenzene	Chloroethane	Benzene	Toluene	Ethylbenzene	Xylenes,Total	Methyl tert-butyl ether	2-Butanone	Acetone	Methylene chloride
Sample ID	**Sample Date**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Residential	$^{GW}GW_{Class3}$	0.5	0.5	7	10	0.2	0.7	20	0.5	488.839	7	60	10	977.679	0.5	100	70	1000	24.442	1466.518	2199.777	0.5
Residential	$^{Air}GW_{Inh-V}$	498.445	23.659	1228.856	768.285	3.809	1665.979	40520.413	80.044	43046.861	156.093	1158.14	1157.625	115981.115	179.885	63590.093	29732.429	10225.407	4038.827	1000000	1000000	21349.178
Toxicity Level		–	0.5	–	–	0.7	0.2	–	–	–	–	–	–	–	0.5	–	–	–	–	–	–	–
MW-15	11/16/2007	<0.0005	<0.0007	<0.0005	-	<0.0006	<0.0006	<0.0006	<0.0005	-	-	-	-	-	-	<0.0005	-	-	-	-	-	<0.0006
	11/11/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	12/6/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	12/16/2011	<0.0017	<0.0011	<0.0025	<0.001	<0.001	<0.0013	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/19/2013	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0006	<0.0005	<0.0005	<0.0005	<0.0008	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001
	1/15/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/20/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	**0.0078 J**	<0.001
	11/13/2014	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/20/2015	<0.000229	<0.000383	<0.000447	<0.000269	<0.000292	<0.000272	<0.000213	<0.000461	<0.000158	<0.000207	<0.000286	<0.000223	<0.000253	<0.000204	<0.000268	<0.000221	<0.000149	<0.00122	<0.00132	**0.00681 BJ**	<0.000927
MW-15R	11/4/2015	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/10/2016	<0.0006	<0.0005	<0.0006	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
MW-16	11/16/2007	**0.0023 J**	<0.0007	<0.0005	-	<0.0006	**0.0026 J**	<0.0006	<0.0005	-	-	-	-	-	-	<0.0005	-	-	-	-	-	<0.0006
	11/10/2009	**0.00073 J**	**0.00084 J**	<0.0005	<0.0005	<0.0005	**0.009**	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	12/7/2010	**0.0026 J**	<0.0005	<0.0005	<0.0005	<0.0005	**0.013**	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	**0.058**	**0.0088**	**0.00061 J**	**0.0014 J**	<0.0005	<0.001	<0.001	<0.0005
	1/7/2011	**0.0041 J**	<0.0005	<0.0005	<0.0005	<0.0005	**0.02**	<0.0005	<0.0005	<0.0005	-	-	<0.0005	<0.0005	**0.0031 J**	**0.00059 J**	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.0005
	12/16/2011	**0.0091**	**0.0019 J**	<0.0025	<0.001	<0.001	**0.048**	<0.0013	<0.0008	<0.0011	-	-	<0.001	<0.0015	<0.001	<0.001	<0.0011	<0.0031	<0.0012	-	<0.004	<0.0013
	7/19/2013	**0.042**	**0.0019 J**	<0.001	<0.001	<0.0005	**0.099**	<0.0005	<0.0005	**0.0023 J**	<0.0008	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0015	<0.001	<0.002	<0.01	<0.001
	1/15/2014	**0.038**	**0.0032 J**	<0.0006	<0.0004	<0.0004	**0.12**	<0.0005	<0.0005	**0.003 J**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/20/2014	**0.042**	**0.0093**	**0.001 J**	<0.0004	<0.0004	**0.13**	<0.0005	<0.0005	**0.0044 J**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/13/2014	**0.034**	**0.0072**	**0.0013 J**	<0.0004	<0.0004	**0.089**	<0.0005	<0.0005	**0.0041 J**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	5/21/2015	**0.041**	**0.0049 J**	**0.019**	<0.0004	**0.0024**	**0.13**	<0.0005	<0.0005	**0.0047 J**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	11/4/2015	**0.044**	**0.0051**	**0.0095**	<0.0004	**0.0048**	**0.16**	<0.0005	<0.0005	**0.0055**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/10/2016	**0.039**	**0.004 J**	**0.0031 J**	<0.0004	**0.0013 J**	**0.13**	<0.0005	<0.0005	**0.0034 J**	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
MW-32	5/20/2015	**0.00521**	**0.00087 J**	**0.00228 J**	<0.000269	<0.000292	**0.00134 J**	<0.000213	<0.000461	**0.00182 J**	<0.000207	<0.000286	<0.000223	<0.000253	<0.000204	<0.000268	<0.000221	<0.000149	<0.00122	<0.00132	**0.00399 BJ**	<0.000927
	11/4/2015	**0.0023 J**	<0.0005	**0.0037 J**	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	<0.002	<0.001
	2/10/2016	<0.0006	<0.0005	**0.0012 J**	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0004	<0.0006	<0.0006	<0.0004	<0.0005	<0.0006	<0.0005	<0.0005	<0.0015	<0.0006	<0.001	**0.0028 J**	<0.001

Notes:
<: Analyte was not detected at or above the reported sample detection limit
B: Analyte was detected in the method blank
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 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.

Shallow groundwater was affected by dissolved phase chemicals including tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), vinyl chloride, and 1,1-dichlorothene (1,1-DCE). The area of affected groundwater is depicted on **Figure C3-1** through **Figure C3-6**. Based on the results of the most recent groundwater monitoring and sampling event conducted in May 2015, the area of affected groundwater extends off-site in the downgradient direction.

The 2007 Affected Property Assessment Report (APAR) indicates property owners to the southwest (downgradient) were provided notice in accordance with 30 TAC §350.55 (see Section 13 of the APAR). At TCEQ's request, one additional downgradient property owner was notified in or about 2012.

None of the off-site, affected properties were contacted regarding the status of this MSD application.

InControl Technologies is currently seeking access to sample several domestic water wells located within the southern plume area. These results will be reported in a supplemental report to the City of Houston along with the August 2015 groundwater monitoring data.

Appendix G

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

According to the Quest Chemical and the initial reporting to the TCEQ, a vessel containing 1,1,1-TCA had a release of this product at the northwest corner of the property upgradient of MW-XN. The facility also packaged two other solvents, tetrachloroethylene and trichloroethylene. An investigation conducted on the southern portion of the site within the former packaging plant for Quest identified elevated level of these two compounds along with other non-chlorinated solvents like acetone and toluene. Cis-1,2-DCE, 1,1-DCE and vinyl chloride are breakdown products from the PCE/TCE solvents. TCE is also a breakdown product of PCE. 1,1-DCE can also be a breakdown product from 1,1,1-TCA and is the most probable source of the 1,1-DCE in the groundwater. The later are not primary chemicals of concern, but are a result of ongoing natural attenuation.

Shallow groundwater was affected by dissolved phase chemicals including PCE, TCE, cis-1,2-DCE, vinyl chloride, and 1,1-DCE. These chemicals are believed to be associated with the historic operations conducted on Tract 1 (within the proposed MSD boundary), and these chemicals are no longer used. These chemicals tend to move rapidly in the sub-surface environment and quickly reach equilibrium as long as there is no ongoing contributing mass source. Several soil samples collected from the onsite property did not report COCs at concentrations greater than the lowest PCLs ($^{GW}Soil_{Ing}$) for residential use (**Table E1**). There is not believed to be a significant contributing source of mass to groundwater. Quest Chemicals conducted a large scale soil excavation and treatment process to remediate soil impacted with TCE and PCE. Almost 3,500 cubic yards of soil were excavated and treated with lime and other chemical oxidants to physically destroy the compounds in the soil matrix. Once the soil was treated, it was placed back into the excavation. Groundwater exposed during the treatment process was also treated with potassium permanganate and lime. This process caused a substantial mass reduction in the source area. It also increased the permeability within this are which allowed for a greater surface water infiltration within this area. The addition of potassium permanganate to soil was done to help prevent and additional mass contribution to groundwater.

The lateral extent of groundwater impact in the shallow groundwater bearing unit is delineated. According to the most recent groundwater data, the concentrations of COCs within the plume appear to be stable to declining (**Table E2**). Groundwater data suggests a significant amount of natural attenuation, including bioattenuation, has occurred. The presence of the breakdown compounds (TCE, cis-1,2-DCE, and VC) indicate strong bioattenuation. The initial source was a spill of 1,1,1-TCA on Tract 1 (within the proposed MSD boundary) in the late 1980s. The concentrations of 1,1,1-TCA have decreased over time and at present, there are no reported concentrations of 1,1,1-TCA above the Tier 1 PCLs. **Figure C3-1** through **Figure C3-5** depicts the COC plume in shallow groundwater. However, a significant drought in 2014 followed by substantial rains which occurred between November 2014 and May 2015 and again in 2016 have caused cyclic trend in the data; however, the more recent data indicates that the concentration of target chemicals of concern are trending down again to pre-drought conditions.

The primary chemicals of concern are tetrachloroethylene (PCE) and its breakdown products (trichloroethylene [TCE], cis-1,2-dichloroethylene [DCE], and vinyl chloride), 1,1,1-trichloroethane [TCA], and 1,1-DCE (**Tables E1-1, E1-2, E2-1 and E2-2**). These compounds are relatively resistant to natural degradation and often remain in the environment for a very long time. Based on the provided information, some limited groundwater treatment was conducted in the vicinity of two groundwater monitoring wells (MW-12 and MW-21) with apparently limited effect. Other compounds were detected in groundwater but to a significantly lesser degree. These compounds include the fuel related compounds benzene, toluene, ethylbenzene and xylene.

The previous groundwater monitoring events were completed in December 2010/January 2011, June/July 2011 and December 2011. Since July 2013, the groundwater has been sampled on a semi-annual basis. The groundwater monitoring data collected since 2007 appears to indicate that the plume is relatively stable with evidence of attenuation, especially in the perimeter groundwater monitoring wells. The attenuation includes a generally shrinking plume along with transformation. For example, MW-1 originally reported PCE at 4.4 mg/L. Through biotransformation, the PCE has attenuated to TCE then to cis-1,2-DCE and 1,1-DCE and eventually vinyl chloride. The vinyl chloride is not accumulating within the well. Because of the biotransformation/attenuation, the concentration of PCE today is 0.095 mg/L. Therefore, the transformation is continuing onto ethane and methane gases. A similar response was observed for 1,1,1-TCA. The initial concentration of 1,1,1-TCA was 31.0 mg/L. Today, 1,1,1-TCA is not detected in the well. Similar attenuation was also observed with the fuel related compound toluene. **Figure C4-2** depicts the locations of the groundwater sampling points.

Some cyclic concentrations were observed in the past year and a half. We believe the small rise and fall in concentration mirrors the drought period from 2014 followed by more abundant rains in 2015 and 2016. For example, the concentration of PCE in MW-2 in November 2014 was 0.024 mg/L. The concentration rose to 0.150 mg/L in May 2015 and has now dropped back to 0.060 mg/L in February 2016. Similar results were also observed for the breakdown products TCE, cis-1,2-DCE, 1,1-DCE and vinyl chloride. While the results indicate a cyclic cycle associated with the 2014 drought, the results also indicate strong bioattenuation. The delayed presence of vinyl chloride showing up and then attenuating away supports the ongoing attenuation within the plume.

While there has been fluctuation in concentrations observed across the groundwater monitoring network, the total mass within the system along with the aerial extent appears to be declining over time. This is evident by the fact that since groundwater monitoring began, four (4) groundwater monitoring wells (MW-3, MW-21, MW-21A and MW-XN) that once reported concentrations above protective concentration levels (PCLs) are now below the PCL. All these wells are on the perimeter of the plume. This would suggest that the overall aerial extent of the plume is declining. More importantly, the source area well (MW-1 originally reported 9 compounds above the PCL. This well now only reports one compound (PCE) above the PCL. As mentioned above, the concentration of PCE in MW-1 has declined significantly since its initial reading in 2004. The current concentration of PCE in MW-1 has fluctuated between 0.050 mg/L and 0.100 mg/L. The degradation products are present and not accumulating within this well indication that degradation is slow yet complete.

This same phenomenon was observed in four groundwater monitoring wells (MW-3, MW-27, MW-28 and MW-XS. As discussed above, MW-3 was once impacted but now reports all compounds of concern below the PCL. MW-26 originally reported six compounds above the PCL and now only reports three compounds above the PCL. Furthermore, the concentration of TCE, the primary source chemical in this well has decreased from 0.330 mg/L to 0.0048 mg/L. Its breakdown products (cis-1,2-DCE and vinyl chloride) have also seen substantial reductions in concentration. Cis-1,2-DCE declined from 5.3 mg/L to 0.86 mg/L and vinyl chloride has declined from 7.9 mg/L to 0.29 mg/L. The concentration of TCE in MW-27 also showed a significant decline from 11.0 mg/L to the current reading of 0.24 mg/L. During this same time period, cis-1,2-DCE declined from 1.60 mg/L to 0.310 mg/L while vinyl chloride relatively stable at 0.190 mg/L. This suggests that active attenuation is occurring within this well. The TCE is transforming to cis-1,2-DCE and 1,1-DCE. These compounds are in turn are transforming to vinyl chloride. The over decrease in mass of the parent compounds without the substantial increase in the final daughter compound supports a very active bioattenuation process.

MW-2 and MW-4 are also two downgradient wells in the northern plume. While the concentration of the target chemicals of concern have fluctuated over time, the general trend within these wells is down since the initial sampling in October 2004. More recent, as a result of the recent drought, there was a small spike in concentration. However, since May of 2015, the overall concentration mass trend has continued to decline. The initial concentration of PCE, TCE and cis-1,2-DCE in MW-2 was 0.95 mg/L, 0.22 mg/L and 0.24 mg/L respectively. The current concentration of these compounds is 0.060 mg/L, 0.053 mg/L and 0.18 mg/L respectively. The concentration of these compounds has indicated a decreasing trend in concentration since May 2015. The same was observed in MW-4. The initial concentration of PCE, TCE and cis-1,2-DCE in MW-4 was 0.52 mg/L, 1.4 mg/L and 2.5 mg/L respectively. The current concentration of these compounds is 0.012 mg/L, 0.290 mg/L and 0.0044 mg/L respectively. Likewise, the concentration of these compounds has indicated a decreasing trend in concentration since May 2015.

As has been discussed in the past, the site has two distinct plume areas. The northern plume area is believed to be associated with the former Quest Chemical operations and is present generally north of the line drawn between MW-5, MW-10 and MW-28. The chemical mass and the nature of the chlorinated solvents within this plume exhibit a different chlorinated solvent finger print. The presence of 1,1,1 TCA and fuel related compounds such as toluene become a signature marker for the plume. The absence of these compounds along with markedly different ratios of the daughter products, suggests that the southern plume originates from some other source. In addition, given the age of the facility imposed by the length of the plume would also support two different source areas. A release that occurred on the day the Quest Chemical facility opened could not have migrated as far south as MW-21. The groundwater velocity necessary to carry the contaminant plume that far is not likely within this groundwater regime. There are a number of other industrial operations that occur south of the facility that could reasonably be sources.

While this plume is distinct and different from the northern plume, active attenuation is also present in this well. MW-21 and MW-21A were the groundwater monitoring wells at the leading edge of the southern plume. Both wells historically reported PCE above the PCL. Neither well has reported PCE above the PCL since January 2014. Starting in May 2010, the concentration of PCE and 1,1-DCE have steadily

declined. This would suggest that the leading edge of the plume is shrinking over time. The lack of accumulation of daughter products suggests that active attenuation is successfully attenuating all compounds.

MW-5 and MW-28 are along the dividing plane between the northern and southern plumes. MW-5 originally reported five compounds above the PCL. There is now only one compound (TCE) that reports a concentration above the PCL. The concentration of TCE has declined from a high of 2.8 mg/L in December 2011 to a concentration of 0.0064 mg/L in February 2016. The concentration of PCE, cis-1,2-DCE, 1,1-DCE and vinyl chloride have all attenuated away and are now less than the reported detection limit. This would suggest that the northern and southern plumes are shrinking in size. MW-28 has seen similar results. There were originally five compounds exceeding a PCL and now there are four compounds. The concentration of PCE has declined from 0.160 mg/L to 0.0018 mg/L. However, the concentration of TCE has remained relatively stable over time fluctuating from 0.030 mg/L to 0.120 mg/L. The cycle in concentration appears to mimic the drought cycles observed in this area. While TCE has not materially declined in concentration over time, cis-1,2-DCE, 1,1-DCE and vinyl chloride have declined over time. The concentration of these compounds in May 2010 was 2.7 mg/L, 0.60 mg/L and 1.10 mg/L respectively. The most recent readings were 0.120 mg/L, 0.049 mg/L and 0.0036 mg/L respectively. Based on this data, it is clear that the plume is actively attenuating and total mass is significantly declining over time.

MW-12 and MW-29 appear to be near source area wells. The concentration of chlorinated solvents in MW-29 would suggest a localized source near this area. This source does not appear to be ongoing as the concentration of the target compounds within this well have declined significantly over time. The concentration of the two primary chlorinated solvents (PCE and TCE) in MW-12 have declined from a high of 12.0 mg/L and 2.2 mg/L respectively to the current readings of 0.180 mg/L and 0.094 mg/L, respectively. The concentration of the daughter compounds 1,2-DCE and 1,1-DCE have also shown significant decreases in concentration over time decreasing from 1.2 mg/L and 8.1 mg/L respectively to 0.21 mg/L and 0.16 mg/L respectively. The significant decrease in the daughter products resulted in a temporary increase in vinyl chloride. The concentration of vinyl chloride started at 0.012 mg/L and rose to 4.6 mg/L in July 2013. Since that time, the concentration of vinyl chloride has declined significantly to 0.0036 mg/L. The overall mass reduction in MW-12 is mimicking what was observed in in the upgradient wells MW-5 and MW-28. This again would suggest that the total mass in the southern plume is decreasing over time.

MW-29 observed similar reductions over time. The maximum concentration of PCE (8.7 mg/L) and TCE (1.5 mg/L) were observed in May 2010. Since this time, the concentration of these two compounds has continually declined to the current concentrations of 0.78 mg/L and 0.17 mg/L respectively. The daughter products (cis-1,2-DCE and 1,1-DCE) have also decline from their maximum concentration of 1.0 mg/L and 5.4 mg/L respectively to the current readings of 0.12 mg/L and 0.45 mg/L. Vinyl chloride in this well has fluctuated over time flowing the reductive dechlorination process of the parent compounds. The concentration of vinyl chloride has ranged from just above the PCL at 0.003 mg/L to 0.020 mg/L. There does not appear to be any significant accumulation of vinyl chloride. These fluctuations are similar to what was observed in MW-12.

The overall reduction in contaminant mass in MW-12 and MW-29 suggest that the source of PCE/TCE has been eliminated. Furthermore, the data suggests that the contaminant mass within this area is undergoing substantial attenuation and the total mass has declined significantly over time. MW-18, MW-20 and MW-21 are the edge of plume wells for the southern plume. No chemicals of concern were detected in MW-18 since the wells were installed in 2007. MW-20 reported a maximum concentration of PCE (0.230 mg/L) and TCE (0.120 mg/L) in July 2013. Since July 2013, the concentration of these two compounds has declined to 0.020 mg/L and 0.0078 mg/L respectively. The daughter products cis-1,2-DCE and 1,1-DCE have also declined during this period decreasing from 0.150 mg/L and 0.330 mg/L respectively to 0.010 mg/L and 0.022 mg/L respectively. Vinyl chloride has never exceeded a PCL and shows no sign of accumulation within this well. MW-21 was discussed above and shows signs the plume is shrinking in size.

Based on the data from the upgradient, downgradient and cross gradient groundwater monitoring wells, the aerial extent of the plume is decreasing over time. Furthermore, the reduction in total mass in MW-12 and MW-29 support the conclusion that the plume is decreasing in mass over time. This data, combined with the northern plume data suggest that both plumes are actively attenuating over time and are seeing a substantial reduction in total mass. The soil excavation conducted on the former Quest Chemical and the apparent elimination of the primary source for the southern plume appear to be contributing to the overall mass reduction over time.

Appendix H

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

On the Designated Property

As described in **Appendix D**, PCE, TCE, cis-1,2-DCE, vinyl chloride, and 1,1-DCE were reported at concentrations that exceeded the Texas Risk Reduction Program (TRRP) residential assessment levels without a municipal setting designation ($^{GW}GW_{Ing}$) in several groundwater monitoring wells. Groundwater samples collected from groundwater monitoring wells within the proposed MSD boundary reported one or more COCs (PCE, TCE, cis-1,2-DCE, vinyl chloride, and 1,1-DCE) at concentrations greater than the TRRP residential ingestion exceedance level without a municipal setting designation ($^{GW}GW_{Ing}$) (**Figure C3**, **Table E2**). A review of the most recent groundwater sampling data within the proposed MSD boundary confirms these findings.

Off the Designated Property

Groundwater samples collected from off-site groundwater monitoring points indicate that the area of impacted groundwater has extended beyond the limits of the proposed MSD boundary in the downgradient direction. The off-site extent of impacted groundwater is delineated to the residential assessment level without a MSD.

The plume is delineated in all directions. The upgradient groundwater monitoring wells are MW-7 and MW-13. The cross gradient groundwater monitoring wells are MW-9 on the northwest side of the plume and MW-3, MW-10, MW-11 and MW-18 on the southeast side of the plume. The southwest end (i.e., downgradient edge) of the southern plume delineated with MW-18, MW-19, MW-21, MW-22, MW-23, and MW-24. Based on the data, the plume centered on MW-29, MW-30 and MW-31 are characteristically different from the Quest Chemical Plume. Therefore, we have concluded that this plume is an offsite plume unrelated to the source from the Quest Chemical site. Lastly, the groundwater monitoring wells upgradient from MW-20 (MW-5 and MW-9) are clean except for TCE in MW-5 (0.006 mg/L) which is just slightly above the PCL for TCE (0.005 mg/L). The chemical of concern in MW-20 is PCE. Again, we believe that this is either sourced from the neighboring machine shop or from the site where MW-29 is located.