PHASE II
ENVIRONMENTAL SITE ASSESSMENT
FULTON ST. PAVING: TIDWELL TO PARKER RD.
WBS NO. N-000542-0003-3
CITY OF HOUSTON
HOUSTON, HARRIS COUNTY, TEXAS

PREPARED FOR:
HNTB CORPORATION
2950 NORTH LOOP WEST, SUITE 900
HOUSTON, TEXAS 77092

PREPARED BY
HVJ ASSOCIATES, INC.
HOUSTON, TEXAS
NOVEMBER 2, 2010

REPORT NO. HE0614604-2
KEY MAP 413 X AND 453 B

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November 2, 2010

Mr. Gregory D. Denby
HNTB Corporation
2950 North Loop West, Suite 900
Houston, Texas 77092

Re: Phase II Environmental Site Assessment (ESA)
Fulton Street Paving: Tidwell to Parker Road Project
WBS No. N-000542-0003-3
Owner: City of Houston
HVJ Project No. HE0614604-2

Dear Mr. Denby:

Presented herein is our final Phase II Environmental Site Assessment Report for the above referenced project. The study was performed in general accordance with our Proposal No. HE0614604-2 dated September 18, 2007 (revised June 1, 2010) and ASTM Standard Practice E-1903.

This report presents HVJ Associates' understanding of the project's scope, the methodology we employed in executing the work, and the conclusions we reached subject to the limitations discussed in Section 6 of the report. It has been a pleasure to work with you on this project, and we appreciate the opportunity to be of service. Please read the entire report and notify us if there are questions or comments or if we may be of further assistance.

Sincerely,

HVJ ASSOCIATES, INC.

STATE OF TEXAS
EDWARD F. HAWKINSON
Geology
45
LICENSED
PROFESSIONAL GEOSCIENTIST

Edward Hawkinson, PG
Project Environmental Scientist

EH:pc

Copies submitted: 4 final

The following lists the pages which complete this report:	
• Main Text – 12 pages	• Appendix B – 7 pages
• Plates – 5 pages	• Appendix C – 15 pages
• Appendix A – 25 pages	• Appendix D – 4 pages

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EXECUTIVE SUMMARY

HVJ Associates, Inc. has completed a Phase II ESA for the proposed Fulton Street project area that extends along Fulton from near the intersection of Airline Drive and Parker Road on the north to Tidwell on the south (referred to as the Subject Property Alignment in this report). The project will include acquiring rights-of-way, engineering and construction for the widening of approximately one mile of two-lane roadway with deep roadway side ditches to two 24-foot wide concrete roadways with curbs, sidewalks and necessary underground utilities and will connect to an already improved roadway approximately 500 ft. north of the Tidwell intersection. The Subject Property Alignment is in a mixed residential and commercial area with commercial development concentrated near major intersections along the alignment.

The purpose of this study was to determine if soil and/or groundwater contamination from three former leaking petroleum storage tank sites might impact the design and reconstruction of the proposed Subject Project Alignment. This study was performed in general accordance with our proposal number HE0614604-2 dated September 18, 2007 (revised June 1, 2010) and ASTM Standard Practice E-1903.

Six borings were installed at three locations using direct push (Geoprobe) track mounting drilling rig. The borings were drilled between the subject sites of environmental concern and the Subject Project Alignment along Fulton. The subsurface soils collected consists of fill materials with gravel, shell base and concrete overlying (in general) brown sandy clay with ferruginous nodules, some fine sand and small gravel. One soil sample from each boring was obtained for laboratory analysis of chemicals of concern (COCs) petroleum hydrocarbons benzene, toluene, ethylbenzene, and total xylene (BTEX) and total petroleum hydrocarbons (TPH). Groundwater was encountered and sampled at one location along the Subject Property Alignment. No levels of BTEX or TPH above the analytical method detection limit were found in soil and groundwater samples collected for this study.

It is unlikely that soil excavated during project construction will require special handling. Potential impacts (although unlikely) may include dealing with contaminated soil from excavations, additional sampling and disposal, pre-treatment of groundwater produced from dewatering and vapor monitoring in excavations.

Based on the results of this study, we recommend no further soil testing in the Subject Project Alignment area. This executive summary does not fully summarize our findings and opinions. Those findings and opinions are related through the full report only.

1. INTRODUCTION

1.1 Project Objective

HVJ Associates ESA report HE0614604-1 dated April 1, 2010 identified three sites of environmental concern along the Subject Project Alignment (see Plate 1 Site Vicinity Plan for project location). The locations, type of concern, etc. was provided in our ESA report. The City of Houston (COH) Geo-Environmental Services Branch reviewed the ESA report for the project and in correspondence dated May 12, 2010 from Maher Tanbouz stated that "HVJ has recommended subsurface investigations (ESA II) along the Subject Project Alignment (northern terminus) at the following three (3) sites of environmental concern:

1. Kees/Kim's Grocery located at 9812 Fulton (a Leaking Petroleum Storage Tank (LPST) site);
2. Former El Timone Café located at 6656 Airline Drive (a LPST site); and
3. Annie's Stop N Shop located at 6402 Airline Drive (a LPST site).

Based on the information provided in the report, we concur with HVJ's recommendations." A copy of this letter is provided in Appendix A. These sites are listed in Table 1 with type of concern, maximum depth of construction and recommended analysis:

Table 1
Fulton Street Paving: Tidwell to Parker Road Project Environmental Issues

Location of Concern	Type of Concern	Max. Depth of Construction (ft.)	Recommended Analysis
9812 Fulton	PST/LPST site	16	BTEX and TPH
6402 Airline	PST/LPST site	16	BTEX and TPH
6656 Airline	PST/LPST site	16	BTEX and TPH

The objective of the investigation is to determine the nature of possible environmental contamination associated with these "possible high impact" locations of potential concern and their effect on the design, construction and operation of the proposed facilities. It has been determined that impacts (if any) to the Subject Project Alignment can be assessed with six borings (three at the Fulton/Luetta Street location and three split between the two locations on Fulton near the intersection of Airline Drive). Based on our experience in the Subject Project Alignment area, it was estimated that two of these borings would be converted to temporary monitoring wells for groundwater sampling; however, only one instance of groundwater (boring EB05 near the north end of the Subject Property Alignment) was encountered in sufficient quantity for sampling.

The project was conducted in general accordance with HVJ Associates Proposal and Scope of Work for assessment services (HVJ Proposal No. HE0614604-1) dated September 18, 2007 (revised June 1, 2010) and ASTM Standard Practice E-1903. Plate 2 shows an aerial view of the Subject Property Alignment north of downtown Houston along north to south trending Fulton from near the intersection of Airline Drive and Parker Road on the north to Tidwell on the south.

1.2 Project Scope

The following tasks were performed:

1. Obtained environmental drilling permits from the City of Houston Department of Public Works and Engineering.

2. Prepared a site-specific health and safety plan per 29 CFR 1910.120.

3. Drilled six borings to 16 ft. below ground surface (bgs) using a direct push (Geoprobe) track rig, performing field screening with an organic vapor meter (OVM) and obtained samples for laboratory analyses (the boring depth was based on client supplied depth of construction information).

4. Laboratory analysis on soil samples from borings for the appropriate COCs. Table 1 (above) lists boring location/number and other information for the three sites with recognized environmental conditions (RECs).

5. This report was prepared summarizing our findings, conclusions and recommendations.

1.3 Basis of Report

Although this study has been a reasonably thorough attempt to identify soil and groundwater contamination at the proposed locations, there is a possibility that contamination may have escaped detection due to the limitations of this study, or the presence of undetected and unreported environmental releases. HVJ Associates reserves the right to alter our conclusions and recommendations based on our review of any information obtained after the date of this report.

Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar conditions, by environmental consultants practicing in this or similar localities. No warranty, express or implied, is made as to the professional information included in this report.

1.4 Qualifications of Personnel

The primary investigator for this Phase II ESA is Mr. Edward Hawkinson, P.G. Mr. Hawkinson holds BS and MS degrees in geology from The Ohio State University and the University of Cincinnati respectively. Mr. Hawkinson is a registered professional geologist in Arkansas, Tennessee and Texas. His career encompasses a period exceeding 26 years involving environmental investigations, hydrogeology, water resource evaluations and energy exploration.

2. BACKGROUND INFORMATION

2.1 Results of Previous Environmental Studies

An HVJ Associates Phase I ESA "Fulton Street Paving: Tidwell to Parker Road Project" report dated April 1, 2010. The objective of this study was to identify current or previous land use activities that may have created an environmental concern to the Subject Project Alignment. HVJ Associates identified several sites with RECs along the Subject Property Alignment (Table 1 of this report lists these site locations). The available information for this project is summarized below:

1. Historical data, maps and aerial photographs revealed that the Subject Project Alignment area was developed prior to 1944 with isolated residential structures and dirt roads. By the late 1960's, the Subject Project Alignment area was developed with commercial facilities and single-family residences with streets in roughly their present day configuration.

2. According to the ASTM Standards and the City of Houston ECRE guidelines designated search radii, regulatory data indicate that 43 regulated environmental sites are within or near the general project area. Previously, 36 regulated environmental sites were found with the search area. An open records request was made with the City of Houston Hazardous Materials Response Team (HMRT) of the Houston Fire department to determine if there have been any hazardous materials incidents. Information from HMRT indicates that there have been no recent significant spills in the Subject Project Alignment area (see Appendix B for the HMRT search information).

3. Our review of historical data, maps, reconnaissance, and the Texas Commission on Environmental Quality (TCEQ) online files and files review at their Houston office found

LPST sites at 9812 Fulton Street, 6402 Airline Drive and 6656 Airline Drive that may impact the Subject Project Alignment.

4. The Subject Project Alignment area is underlain by clayey soils associated with the Beaumont Formation. Groundwater for domestic and municipal uses occurs at depths ranging from about 400 to 600 feet in the Chicot and Evangeline Aquifers, respectively. Shallow groundwater may also be present and is expected to be about 10 to 20 feet below ground surface.

Based on the information contained in the Phase I ESA report for the Subject Property Alignment, HVJ Associates found that there is a potential for environmental contamination to impact the Subject Project Alignment from three LPST sites. We recommended this Phase II Environmental Site Assessment to determine the extent of contamination at these sites and its impact (if any) to the Subject Property Alignment.

2.2 Planned Construction Description

We understand that the project will include acquiring rights-of-way, engineering and construction for the widening of approximately one mile of two-lane roadway with deep roadway side ditches to two 24-foot wide concrete roadways with curbs, sidewalks and necessary underground utilities. The project will connect to an already improved roadway approximately 500 ft. north of the Tidwell intersection.

2.3 Physical Setting

Site Topography. From a review of the 1995 Settegast and Houston Heights, Texas 7.5-minute United States Geological Survey (USGS) topographic quadrangle maps, the Subject Project Alignment lies at an elevation of approximately 65 feet above mean sea level. The regional slope is to the southwest toward White Oak Bayou adjoining the Subject Project Alignment area to the southwest. Surface runoff drains into storm sewers and drainage ditches, which eventually empty into White Oak Bayou.

Municipal water districts, subdivisions, industrial sites, and local residents along the Subject Project Alignment draw groundwater for domestic, municipal, commercial and industrial usage. Large withdrawal of water in the greater Houston area over the last 94 years has resulted in regional and localized land-surface subsidence. This has resulted in the lowering of elevations in the area by approximately 6 feet since 1906 when subsidence data began being recorded. The primary effects of this have been the alteration of natural drainage patterns in the area and revisions to floodplain and floodway designations.

Geology and Wetlands. A review of the Bureau of Economic Geology 1992 Geologic Atlas of Texas, Houston Sheet indicates that the uppermost geologic formation underlying the Subject Project Alignment is the Pleistocene Beaumont Formation. The Beaumont Formation's sediments consist primarily of clays, silts and sands that were deposited in fluvial (river derived) and deltaic environments during the Pleistocene Epoch. Mapped soils in the Subject Project Alignment area include the Addicks-Urban Land complex, Bernard-Urban Land complex, Clodine-Urban Land complex and the Gessner-Urban Land complex.

Over 200 active faults are known in the greater Houston area. While the activity rate of these faults is slow, damage is common when facilities are constructed on the fault zone. Based on our review of available geologic literature, the Eureka Heights Fault system terminates at Little White Oak Bayou west of the Subject Project Alignment.

3. INVESTIGATIVE METHODOLOGY

3.1 Soil Boring and Soil/Groundwater Sampling Activities

Prior to commencing field activities, Environmental Test Boring permits were obtained from the City of Houston for six borings along the Subject Project Alignment. Copies of City of Houston Environmental Facility Permits Nos. MW-10-07-11, MW-10-07-12, MW-10-07-13, MW-10-07-14, MW-10-07-15 and MW-10-07-16 are provided in Appendix A. City of Houston Environmental Facility Permit application documents are also provided in Appendix A.

Prior to mobilization, a site-specific health and safety plan was prepared in accordance with 29 CFR 1910.120. Prior to drilling and sample screening, all sampling equipment was thoroughly cleaned to prevent cross contamination. All environmental soil borings were conducted using direct push techniques. A track-mounted, Geoprobe Sampling System provided by driller Total Support was used to advance the soil probe apparatus.

The locations of the soil borings/probes are shown on Plan of Borings (Plates 3 and 4) and described below. All soil borings were advanced to 16 ft. bgs. Soil samples obtained were continuously examined for impact using visual and olfactory methods. Samples were also screened for organic vapors with an Organic Vapor Meter (OVM). Descriptions of the materials encountered are presented on the Boring Logs (Appendix B).

Soil samples were placed in airtight containers (sealable plastic bags) and held for approximately twenty minutes to allow the volatilization of organic vapors. At the end of this period, the air inside the container was monitored with the OVM. Following OVM screening, one soil sample from each borehole was selected for laboratory analyses (OVM readings are presented on the boring logs). Samples were selected for analysis based on criteria contained in the project proposal as follows: 1) zone of the highest OVM readings; 2) if there are no OVM readings (above background), a soil sample will be obtained from the top of the water table, 3) if no groundwater is encountered, the soil samples will be obtained from four to eight feet bgs (final selection of the samples will also include visual evidence of impact). The samples selected were placed into laboratory-supplies jars and shipped to Anacon Laboratory for analysis.

Groundwater in sufficient quantity for sampling was encountered in borings EB-5. A groundwater sample was collected at this location from a one-inch diameter temporary monitoring well using a clean bailer and submitted for analysis in laboratory supplied glass vials and jars. Subsequent to the drilling and sampling activities, each borehole was plugged from total depth to the surface using bentonite plugging material in accordance with standard drilling practice.

3.2 Laboratory Analysis Performed

Anacon Laboratory performed the following analyses on selected soil and groundwater samples from the environmental borings installed along the alignments as follows:

- TPH using TCEQ Method 1005; and
- BTEX using U.S. EPA Method 8260B.

Copies of laboratory reports by Anacon as well as the chain-of-custody documentation prepared by HVJ Associates are included in Appendix C.

3.3 Waste Management

Investigation derived wastes (primarily soil cuttings) were generated in a small amount. Approximately five kilograms of soil cuttings were generated per boring. These materials were analyzed, containerized and transported under manifest to the State approved McCarty Road Landfill Texas LP #261A at 11013 Old Beaumont Highway in Houston, Texas by an agent of USA Environment. A copy of the project Republic Services Special Waste Profile with a Special Waste

Profile Change form and Allied Waste Non-Hazardous Waste Manifest disposal documentation dated August 26, 2010 with manifest number 0145017 is provided in Appendix D.

4. ASSESSMENT RESULTS

4.1 Site Specific Soil Conditions

The subsurface soils collected consist of fill materials with gravel, shell base and concrete overlying (in general) brown sandy clay with ferruginous nodules, some fine sand and small gravel. No petroleum odors were detected by olfactory methods during the installation of the borings. This information was documented on our boring logs. Specific soil descriptions and field observations for the soil borings are included on the soil boring logs contained in Appendix B. Soil classifications presented on the boring logs are based on visual field classification and have not been verified by geotechnical laboratory tests. Actual soil conditions may differ from those presented on the boring logs.

4.2 Analytical Findings – Soil

The table below provides results of our laboratory analysis for all soil samples collected:

Table 2
Soil Analytical Results and Class II Non-Hazardous Waste Limits and TCEQ Action Levels
(results in parts per million or ppm)

Parameter	BORING NUMBER AND DEPTH OF SAMPLE						Class II Non-Hazardous Waste Limit	TCEQ Action Level[1]
	EB01 (4-8)	EB02 (4-8)	EB03 (4-8)	EB04 (4-8)	EB05 (4-8)	EB06 (4-8)		
VOLATILES BY GS/MS FOR SOLIDS								
Benzene	ND[3]	ND	ND	ND	ND	ND	<0.5 (TCLP)	0.026
Toluene	ND	ND	ND	ND	ND	ND	1000.0	8.2
Ethylbenzene	ND	ND	ND	ND	ND	ND	400.0	7.6
Total Xylene	ND	ND	ND	ND	ND	ND	7000.0	120.0
TPH FOR SOLIDS								
TPH (C6-C35)	ND	ND	ND	ND	ND	ND	<1,500	See Note 2) below
TPH (C6-C12)	ND	ND	ND	ND	ND	ND	<1,500	65.0
TPH (C12-C35)	ND	ND	ND	ND	ND	ND	<1,500	200.0

Notes:

Table Notes:

1) Levels from TRRP Table 1 Tier 1 Residential Soil PCLs for a 0.5 source area ($^{Gw}Soil_{ing}$ column for surface soil) last revised March 31, 2010.
2) No level listed in TRRP Table 1 Tier 1 Residential Soil PCLs for a 0.5 source area for the TPH range C6-C35.
3) ND = not detected above the analytical method detection limit.

The results are presented in mg/kg (or ppm) for soil.

No levels of BTEX or TPH above the analytical method detection limit were found in soil samples collected for this study. No levels of BTEX or TPH above the analytical method detection limit were found in the groundwater sample collected for this study.

It is unlikely that groundwater produced and soil excavated during Subject Project Alignment construction will require special handling. Potential impacts (although unlikely) may include dealing

with contaminated soil from excavations, additional sampling and disposal, pre-treatment of groundwater produced from dewatering and vapor monitoring in excavations. Based on the results of this study, we recommend no further soil testing along the Subject Project Alignment.

4.3 Regulatory Criteria

The TCEQ has established regulatory criteria for petroleum storage tanks in Title 30 Texas Administrative Code (30 TAC), Chapter 334, and PST Division guidance documents. These rules include guidance for responding to releases from underground and above ground storage tanks, and known LPST sites. "Action Levels" for the disposal of soils associated with spills from LPST and other sites are detailed in the TCEQ TRRP Tables for Protective Concentration Levels (PCLs). Levels are as follows:

Table 3
Soil Class II Non-Hazardous Waste Limits, TCEQ
Action Levels and Highest Results

Compound	Class II Non-Hazardous Waste Limit (ppm)	TCEQ Action Level (ppm)	Highest Results from this Study (ppm)
Benzene	< 0.5 ppm (TCLP*)	0.026	ND
Toluene	1,000	8.2	ND
Ethylbenzene	400	7.6	ND
Xylenes	7,000	120.0	ND
TPH	<1,500	Varies	ND

5. SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

5.1 Summary and Conclusions

The subsurface soils collected consist of fill materials with gravel, shell base and concrete overlying (in general) brown sandy clay with ferruginous nodules, some fine sand and small gravel. We conclude that no levels of petroleum hydrocarbons are present at the boring locations and there should be no impact to Subject Project Alignment construction from the three LPST sites along the Subject Project Alignment assessed in this study. We do not anticipate that petroleum hydrocarbon impacted groundwater will be present at any of the boring locations above 16 ft. below ground surface. It should be noted that the groundwater table may fluctuate due to seasonal variations in rainfall and local stratigraphic and/or underground (manmade) features and groundwater may be present at this location at other times in the year or at nearby locations.

5.2 Impact on Planned Construction

Based on the results of our study and distance from the former LPST locations along Fulton, it is unlikely that contamination is present in a quantity sufficient to impact construction activities along the Subject Property Alignment. Based on concentrations of the parameters analyzed in this study, excavated soils would be classified as non-hazardous. Potential impacts to construction are unlikely but may include the following tasks:

- Segregation of impacted soil that are excavated during construction;
- Sampling and testing of impacted soils prior to disposal;
- Disposal of impacted soils at a landfill compatible with the waste classification;
- Pretreatment of groundwater pumped during dewatering operations; and
- Vapor monitoring of open excavations.

Based on data contained in this study, all soils discussed above can be handled as normal spoils associated with the construction. No stockpiling or additional soil sampling should be required.

5.3 Recommendations

Based on a comparison of analytical results detailed in this report with TCEQ action levels and other information, we recommend no further environmental studies adjacent to or near the Subject Project Alignment. Action levels are used by the TCEQ as a guide to determine if further assessments are necessary. We recommend no environmental protocols for the construction. In the unlikely event that environmental contamination is found during construction, we recommend sampling of construction spoils, stockpiling of waste materials, disposal at a landfill, and the use of proper health and safety procedures as outlined in the City of Houston Specifications 02105 and 02120. We anticipate that the majority of construction spoils generated requiring disposal, can be classified as ordinary construction waste and disposed as such.

6. LIMITATIONS

This report is an instrument of service of HVJ Associates, Inc. The report was prepared for and is intended for the exclusive use of the City of Houston (COH) and HNTB. The report's contents may not be relied upon by any other party without the express written permission of HVJ Associates. With the written permission of HNTB, HVJ Associates will meet with a third party to help identify the additional services required, if any, to permit such third party to rely on the information contained in this report, but only to the same extent of HNTB reliance, and subject to the same contractual, technological, and other limitations to which HNTB has agreed.

The report's findings are based on conditions that existed on the date of HVJ Associates site visit and field investigations and should not be relied upon to precisely represent conditions at any other time. The scope of service executed for this project is not equivalent to the scope of service needed to provide the information to completely establish the quantities and distribution of the petroleum hydrocarbon and other compounds affected soils present at the site. HVJ Associates has based the conclusions included in this report on its observation of existing site conditions, its interpretation of site history, its interpretation of the site usage information it was able to access, and the results of a limited program of subsurface exploration, sample screening, and chemical analysis. The concentration of contaminants HVJ Associates measured may not be representative of conditions between locations sampled. Be aware that conditions may change at any sampled or unsampled location as a function of time, in response to natural conditions, chemical reactions, and/or other events.

Conclusions about site conditions under no circumstances comprise a warranty that conditions in all areas within the site and study area (and below existing grade) are of the same quality as the area sampled. Recognize, too, that contamination might exist in forms not indicated by the limited exploration HVJ Associates conducted.

The scope of service HVJ Associates implemented was based, in part, on the rules and regulations for former gas stations and LPST locations as promulgated by the TCEQ. The rules, regulations and guidelines by which this investigation was conducted were understood to be current or expected at the time HVJ Associates developed its proposal. Changes in regulations, rules, guidelines, interpretations, and/or enforcement policies may occur at any time and such changes could affect the extent of remediation required for the adjacent LPST sites as well as the dry cleaners sites.

Any additional information about this site that becomes available should be provided to HVJ Associates for its review, so HVJ Associates can modify its recommendations as necessary.

7. REFERENCES

The following references were used to compile this report:

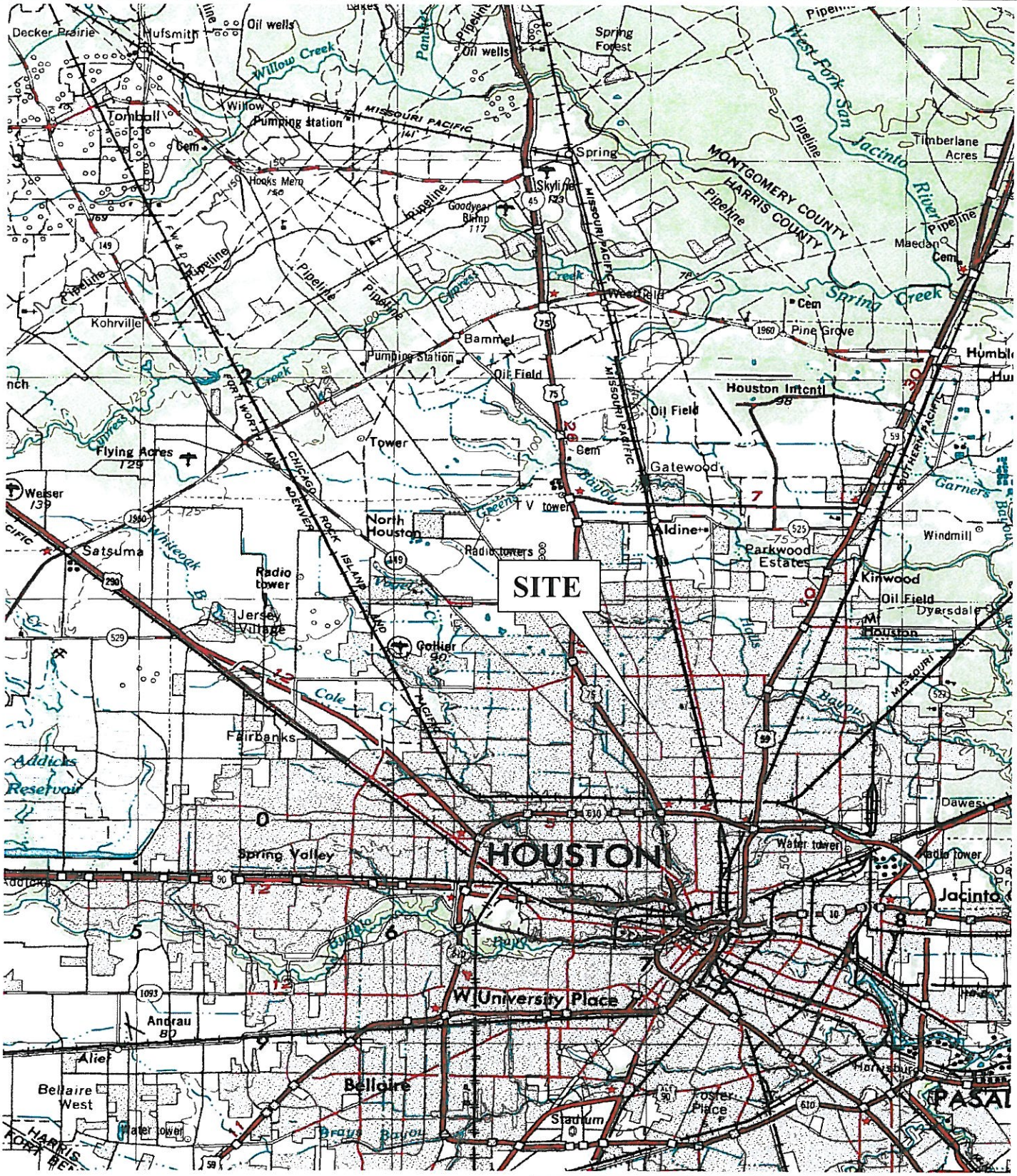
1. Bureau of Economic Geology, 1982. Geologic Atlas of Texas, Houston Sheet, University of Texas at Austin.

2. USDA Soil Conservation Service (Natural Resources Conservation Service), 1976. Soil Survey of Harris County, Texas.

3. HVJ Associates ESA Report, Site Assessment Update, Fulton St. Paving: Tidwell to Parker Rd. (WBS NO. N-000542-0003-3), April 1, 2010.

4. Texas Commission on Environmental Quality (TCEQ) Remediation Division Tier 1 PCL "TRRP" tables and related documents.

PLATES



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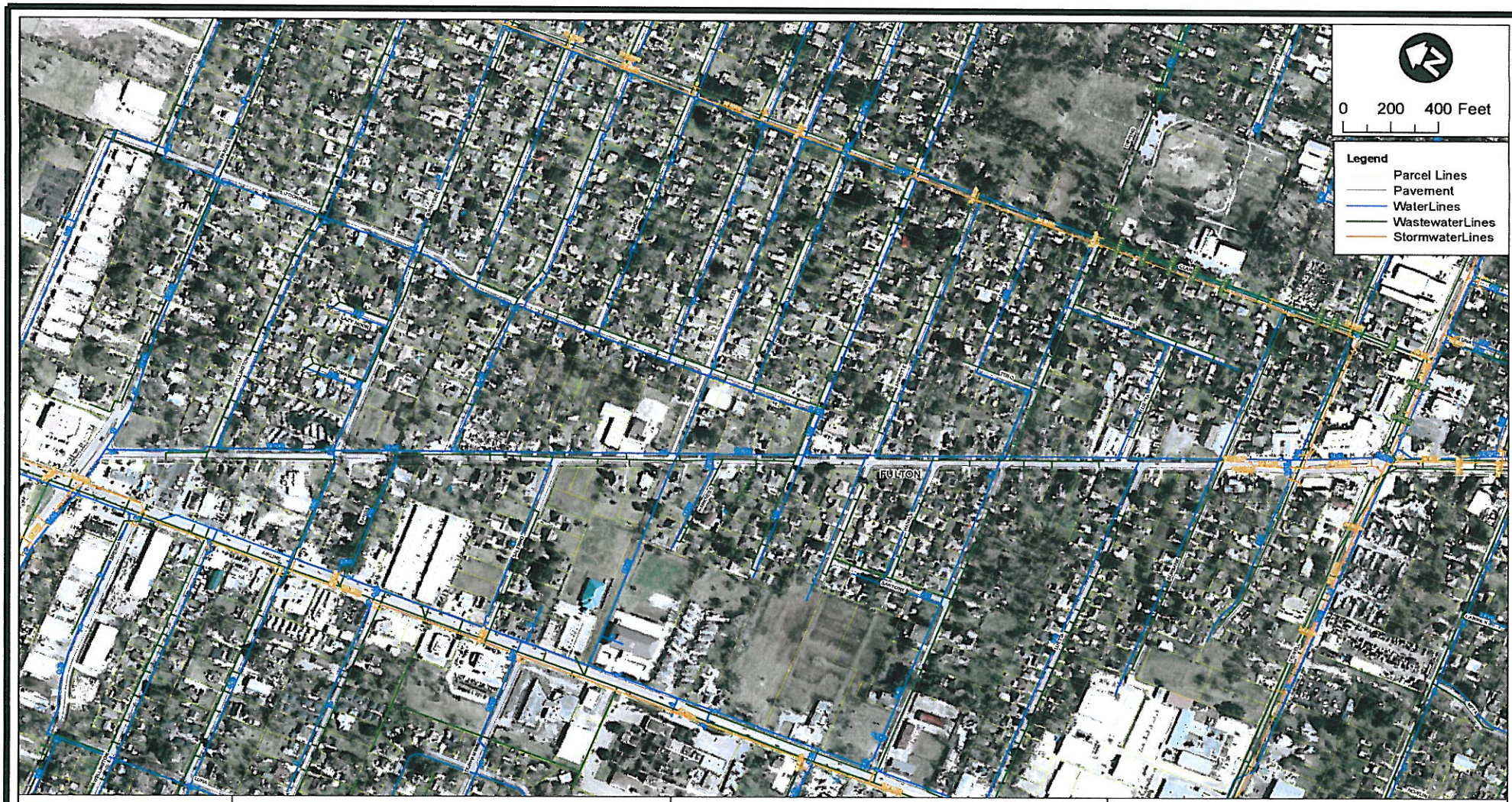
SITE VICINITY PLAN
FULTON ROAD: TIDWELL ROAD TO PARKER ROAD

PROJECT NO.:	DRAWING NO.:
HE0614604	PLATE 1



HNTB		2006-2010 Capital Improvement Plan CIP Number N-0542	**Exhibit A** **Fulton Road:** **Tidwell to Parker Road**

Page 1 of 1

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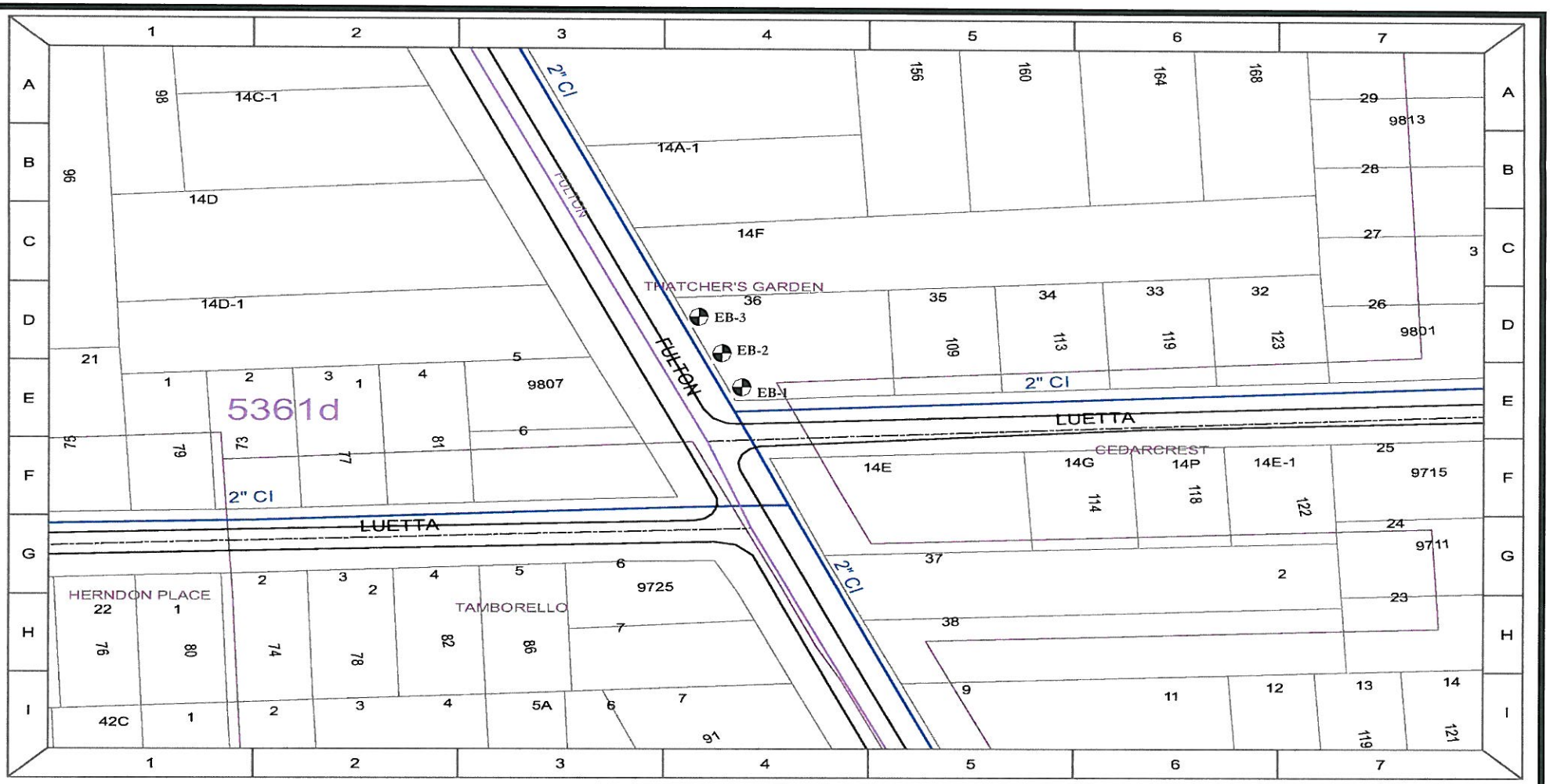
FULTON ROAD:
TIDWELL TO PARKER ROAD

PROJECT NO.:	DRAWING NO.:
HE0614604	PLATE 2



1 inch equals 99 feet

0 7 142128

Feet

CITY OF HOUSTON

Department of Public Works & Engineering

Geographic Information & Management System (GIMS)

DISCLAIMER: THIS MAP REPRESENTS THE BEST INFORMATION AVAILABLE TO THE CITY THE CITY DOES NOT WARRANT ITS ACCURACY OR COMPLETENESS FIELD VERIFICATIONS SHOULD BE DONE AS NECESSARY

LEGEND:

⊕ APPROXIMATE BORING LOCATIONS

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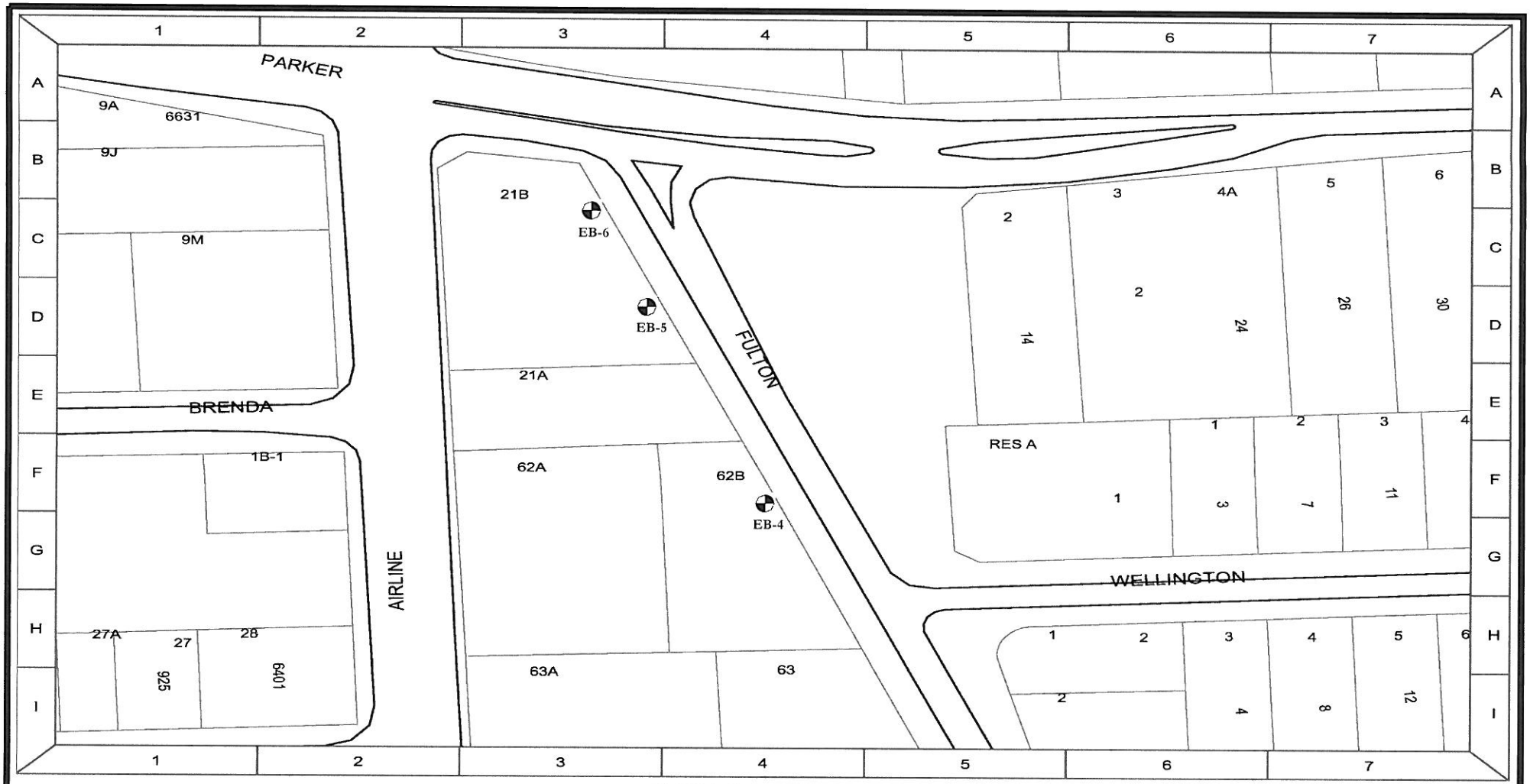
PLAN OF BORINGS
FULTON ROAD AT LUETTA STREET

PROJECT NO.:	DRAWING NO.:
HE0614604	PLATE 3



CITY OF HOUSTON
Department of Public Works & Engineering
Geographic Information & Management System (GIMS)

DISCLAIMER: THIS MAP REPRESENTS THE BEST INFORMATION AVAILABLE TO THE CITY THE CITY DOES NOT WARRANT ITS ACCURACY OR COMPLETENESS FIELD VERIFICATIONS SHOULD BE DONE AS NECESSARY

LEGEND:

⊕ APPROXIMATE BORING LOCATIONS

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PLAN OF BORINGS
FULTON ROAD AT E. PARKER ROAD

PROJECT NO.:	DRAWING NO.:
HE0614604	PLATE 4

APPENDIX A

CITY OF HOUSTON CORRESPONDENCE,

ENVIRONMENTAL BORING FACILITY PERMITS AND PERMIT APPLICATION

CITY OF HOUSTON

Public Works and Engineering Department

Interoffice

Correspondence

To: John H. Kuo, P.E.
Assistant Director
Engineering Branch
Engineering and Construction Division

From: Supervising Engineer
Geo-Environmental Services Branch
Engineering and Construction Division

Date: May 12, 2010

Attn: John Moning, Jr., P.E.

Subject: **PHASE I ENVIRONMENTAL SITE ASSESSMENT (ESA I) UPDATE REPORT REVIEW FOR FULTON STREET FROM TIDWELL ROAD TO PARKER ROAD WBS NO. N-000542-0003-3**

In response to your request on May 10, 2010, we have reviewed the Phase I Environmental Site Assessment (ESA I) Update Report (Attachment) prepared by HVJ Associates, Inc. (HVJ) for HNTB Corporation, the City's design consultant for the subject project.

We understand that the project involves widening of about 1.0 mile (between Tidwell and Parker Roads) of Fulton Street from a two-lane roadway to two 24-foot wide concrete roadways with curbs and sidewalks. This project also includes replacement of some underground utilities along the project alignment.

HVJ has recommended subsurface investigations (ESA II) along the project alignment (northern terminus) at the following three (3) sites of environmental concern:

1. Kees/Kims Grocery Store located at 9812 Fulton Street [a Leaking Petroleum Storage Tank (LPST) site];
2. Former El Timone Café located at 6656 Airline Drive (a LPST site); and
3. Annie's Stop N Shop located at 6402 Airline Drive (a LPST site).

Based on the information provided in the report, we concur with HVJ's recommendation. If we can be of further assistance, please call me at 832-395-2260 or Chad Samani, P.E. at 832-395-2259.

Maher Tanbouz, P.E.

MCS JC

MT:MCS:jc

Z:\constr\A-ENV-SB\Environmental\ETS_&_ESA_Memos\2010\(N-000542-0003-3)_(ESA_I_Rpt_for_Fulton_St_From_Tidwell_Rd_to_Parker_Rd).doc

Attachment: ESA I Update Report No. HE0614604-1, dated April 1, 2010

ec: Daniel R. Menendez P.E.
Ravi Kaleyatodi, P.E., CPM
MP Mike Pezeshki, P.E.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: **MW-10-07-11**

PERMIT DATE: Exempt
EXPIRATION DATE: Exempt
THIS PERMIT MUST BE RENEWED, OR THIS FACILITY MUST BE REMOVED, CLOSED AND RESTORED NO LATER THAN THE PERMIT EXPIRATION DATE.

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the required annual permit fee having been paid in full; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ Associates, Inc., Permittee,
for the placement of:

Monitoring well/device; or

X Environmental test bore

at the following location:

ROW, (EB-01) as indicated on permit application for Phase II Fulton Street from Tidwell Road to Parker Road Project (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.

Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

Note to Permittee:

1. The Permittee shall contact the Utility Coordinating Committee at 713-223-4567 or 1-800-245-4545 a minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact Traffic Management and Maintenance Branch at 713-837-7280 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Geo-Environmental Services Branch at (832) 395-2250 a minimum of (48) hours prior to drilling or plugging to arrange for an inspection of the process.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: **MW-10-07-12**

PERMIT DATE: Exempt
EXPIRATION DATE: Exempt
THIS PERMIT MUST BE RENEWED, OR THIS FACILITY MUST BE REMOVED, CLOSED AND RESTORED NO LATER THAN THE PERMIT EXPIRATION DATE.

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the required annual permit fee having been paid in full; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ Associates, Inc., Permittee,
for the placement of:

Monitoring well/device; or

X Environmental test bore

at the following location:

ROW, (EB-02) as indicated on permit application for Phase II Fulton Street from Tidwell Road to Parker Road Project (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.

Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

Note to Permittee:

1. The Permittee shall contact the Utility Coordinating Committee at 713-223-4567 or 1-800-245-4545 a minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact Traffic Management and Maintenance Branch at 713-837-7280 for lane closure permits.
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4. The Permittee shall notify the Geo-Environmental Services Branch at (832) 395-2250 a minimum of (48) hours prior to drilling or plugging to arrange for an inspection of the process.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: **MW-10-07-13**

PERMIT DATE: Exempt
EXPIRATION DATE: Exempt
THIS PERMIT MUST BE RENEWED, OR THIS FACILITY MUST BE REMOVED, CLOSED AND RESTORED NO LATER THAN THE PERMIT EXPIRATION DATE.

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the required annual permit fee having been paid in full; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ Associates, Inc., Permittee,
for the placement of:

Monitoring well/device; or

X Environmental test bore

at the following location:

ROW, (EB-03) as indicated on permit application for Phase II Fulton Street from Tidwell Road to Parker Road Project (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.

Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

Note to Permittee:

1. The Permittee shall contact the Utility Coordinating Committee at 713-223-4567 or 1-800-245-4545 a minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact Traffic Management and Maintenance Branch at 713-837-7280 for lane closure permits.
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4. The Permittee shall notify the Geo-Environmental Services Branch at (832) 395-2250 a minimum of (48) hours prior to drilling or plugging to arrange for an inspection of the process.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: **MW-10-07-14**

PERMIT DATE: Exempt
EXPIRATION DATE: Exempt
THIS PERMIT MUST BE RENEWED, OR THIS FACILITY MUST BE REMOVED, CLOSED AND RESTORED NO LATER THAN THE PERMIT EXPIRATION DATE.

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the required annual permit fee having been paid in full; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ Associates, Inc., Permittee,
for the placement of:

Monitoring well/device; or

X Environmental test bore

at the following location:

ROW, (EB-04) as indicated on permit application for Phase II Fulton Street from Tidwell Road to Parker Road Project (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.

Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

Note to Permittee:

1. The Permittee shall contact the Utility Coordinating Committee at 713-223-4567 or 1-800-245-4545 a minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact Traffic Management and Maintenance Branch at 713-837-7280 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Geo-Environmental Services Branch at (832) 395-2250 a minimum of (48) hours prior to drilling or plugging to arrange for an inspection of the process.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: **MW-10-07-15**

PERMIT DATE: Exempt
EXPIRATION DATE: Exempt
THIS PERMIT MUST BE RENEWED, OR THIS FACILITY MUST BE REMOVED, CLOSED AND RESTORED NO LATER THAN THE PERMIT EXPIRATION DATE.

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the required annual permit fee having been paid in full; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ Associates, Inc., Permittee,
for the placement of:

Monitoring well/device; or

X Environmental test bore

at the following location:

ROW, (EB-05) as indicated on permit application for Phase II Fulton Street from Tidwell Road to Parker Road Project (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.

Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

Note to Permittee:

1. The Permittee shall contact the Utility Coordinating Committee at 713-223-4567 or 1-800-245-4545 a minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact Traffic Management and Maintenance Branch at 713-837-7280 for lane closure permits.
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4. The Permittee shall notify the Geo-Environmental Services Branch at (832) 395-2250 a minimum of (48) hours prior to drilling or plugging to arrange for an inspection of the process.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: **MW-10-07-16**

PERMIT DATE: Exempt
EXPIRATION DATE: Exempt
THIS PERMIT MUST BE RENEWED, OR THIS FACILITY MUST BE REMOVED, CLOSED AND RESTORED NO LATER THAN THE PERMIT EXPIRATION DATE.

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the required annual permit fee having been paid in full; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ Associates, Inc., Permittee,
for the placement of:

Monitoring well/device; or

X Environmental test bore

at the following location:

ROW, (EB-06) as indicated on permit application for Phase II Fulton Street from Tidwell Road to Parker Road Project (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.

Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

Note to Permittee:

1. The Permittee shall contact the Utility Coordinating Committee at 713-223-4567 or 1-800-245-4545 a minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact Traffic Management and Maintenance Branch at 713-837-7280 for lane closure permits.
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4. The Permittee shall notify the Geo-Environmental Services Branch at (832) 395-2250 a minimum of (48) hours prior to drilling or plugging to arrange for an inspection of the process.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: **MW-10-07-17**

PERMIT DATE: Exempt
EXPIRATION DATE: Exempt
THIS PERMIT MUST BE RENEWED, OR THIS FACILITY MUST BE REMOVED, CLOSED AND RESTORED NO LATER THAN THE PERMIT EXPIRATION DATE.

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the required annual permit fee having been paid in full; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ Associates, Inc., Permittee,
for the placement of:

Monitoring well/device; or

X Environmental test bore

at the following location:

ROW, (EB-07) as indicated on permit application for Phase II Fulton Street from Tidwell Road to Parker Road Project (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.

Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

Note to Permittee:

1. The Permittee shall contact the Utility Coordinating Committee at 713-223-4567 or 1-800-245-4545 a minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact Traffic Management and Maintenance Branch at 713-837-7280 for lane closure permits.
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4. The Permittee shall notify the Geo-Environmental Services Branch at (832) 395-2250 a minimum of (48) hours prior to drilling or plugging to arrange for an inspection of the process.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: **MW-10-07-18**

PERMIT DATE: Exempt
EXPIRATION DATE: Exempt
THIS PERMIT MUST BE RENEWED, OR THIS FACILITY MUST BE REMOVED, CLOSED AND RESTORED NO LATER THAN THE PERMIT EXPIRATION DATE.

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the required annual permit fee having been paid in full; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ Associates, Inc., Permittee,
for the placement of:

Monitoring well/device; or

X Environmental test bore

at the following location:

ROW, (EB-08) as indicated on permit application for Phase II Fulton Street from Tidwell Road to Parker Road Project (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.

Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

Note to Permittee:

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2. The Permittee shall contact Traffic Management and Maintenance Branch at 713-837-7280 for lane closure permits.
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4. The Permittee shall notify the Geo-Environmental Services Branch at (832) 395-2250 a minimum of (48) hours prior to drilling or plugging to arrange for an inspection of the process.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: **MW-10-07-19**

PERMIT DATE: Exempt
EXPIRATION DATE: Exempt
THIS PERMIT MUST BE RENEWED, OR THIS FACILITY MUST BE REMOVED, CLOSED AND RESTORED NO LATER THAN THE PERMIT EXPIRATION DATE.

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the required annual permit fee having been paid in full; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ Associates, Inc., Permittee,
for the placement of:

Monitoring well/device; or

X Environmental test bore

at the following location:

ROW, (EB-09) as indicated on permit application for Phase II Fulton Street from Tidwell Road to Parker Road Project (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.

Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

Note to Permittee:

1. The Permittee shall contact the Utility Coordinating Committee at 713-223-4567 or 1-800-245-4545 a minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact Traffic Management and Maintenance Branch at 713-837-7280 for lane closure permits.
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4. The Permittee shall notify the Geo-Environmental Services Branch at (832) 395-2250 a minimum of (48) hours prior to drilling or plugging to arrange for an inspection of the process.

HVJ ASSOCIATES

Houston
Austin
Dallas
San Antonio

6120 S. Dairy Ashford Rd.
Houston, TX 77072-1010
281.933.7388 Ph
281.933.7293 Fax
www.hvj.com

July 13, 2010

Mr. Robert Lemley
Community Services Inspector
City of Houston Department of Public Works & Engineering
611 Walker, 14th Floor
Houston, Texas 77002

Re: Fulton Street from Tidwell Road to Parker Road
Phase II Environmental Site Assessment (ESA)
Owner: City of Houston
WBS No. N-000542-0003-3
HVJ Project No. HE0614604

Dear Mr. Lemley:

Please find attached an "Application for Monitoring Well/Boring Permit" for environmental borings we propose to install within the City of Houston (COH) right of way in three locations along Fulton/Airline Drive from East Parker Road on the north to Luetta on the south in north Houston. The proposed boring locations are annotated on the attached GIMS map.

We understand that because this is a COH project (WBS No. N-000542-0003-3), there will be no permit costs for the permit we are requesting. If you have any questions or require additional information, please contact Edward Hawkinson at (281) 983-8829.

Sincerely,

HVJ ASSOCIATES, INC.

Edward Hawkinson, PG
Project Environmental Scientist

Attachments

EH:abm

Approved Legal 03/05

CITY OF HOUSTON, TEXAS
Public Works & Engineering Department

Application for Monitoring Well/Boring Permit

ARTICLE XII, CHAPTER 40, CITY OF HOUSTON CODE OF ORDINANCES
ALL PERMITS SHALL BE EFFECTIVE ONE (1) YEAR FROM DATE OF ISSUANCE

I: APPLICANT INFORMATION

Today's Date : July 13, 2010

Permit Status:

Are you obtaining this permit for a City project? Yes ☒ No ☐

If yes, what is the CIP/GFS number of this project? WBS No. N-000542-0003-3 and CIP No. N-0542

Who is the City's Project Manager for this project? Maher Tanbouz, PE

Is this a renewal application? Yes ☐ No ☒

Applicant:

Name of Owner/Operator: HVJ Associates, Inc.

Telephone Number: 281.983.8829 Fax: 281.933.7293

Street Address: 6120 S. Dairy Ashford Road

Houston, Texas 77072-1010

E-mail Address (If applicable): ehawkinson@hvj.com

If the applicant is a corporation, partnership, or association, then the applicant shall provide evidence of its existence, of its authority to maintain the facility, and of the authority of the person signing the application to act on behalf of the entity.

Person authorized to file application:

Name: Edward F. Hawkinson Title: Project Environmental Scientist

Phone Number: 281.983.8829

E-mail Address (If applicable): ehawkinson@hvj.com

Type of Business Entity:

Corporation

(i.e. corporation, partnership, association, sole proprietorship). Organization documents of business entity should be attached. (certificate of incorporation, assumed name certificate, etc.)

Corporate Registered Agent (If applicable):

Name: Herbert V. Johnson Title: President

Address: 6120 S. Dairy Ashford Rd., Houston, TX 77072

Phone Number: 281.933.7388

E-mail Address (If applicable): hjohnson@hvj.com

Approved Legal 03/05

CITY OF HOUSTON, TEXAS
Public Works & Engineering Department

Application for Monitoring Well/Boring Permit

Emergency Contact Information:
List two(2) persons

Name:	Edward F. Hawkinson	Mobile Telephone:	281.804.5766
Business Address:	6120 S. Dairy Ashford Rd., Houston, TX 77072-1010	Business Telephone:	281.983.8829
Home Address:	1415 Welch Street, Houston, TX 77006	Home Telephone:	713.520.1116
Name:	Hossam Esmail	Mobile Telephone:	281.415.7723
Business Address:	6120 S. Dairy Ashford Rd., Houston, TX 77072-1010	Business Telephone:	281.933.7388
Home Address:	22535 Holly Lake Drive, Katy, TX 77450	Home Telephone:	281.395.9762

Agents, Contractors, Engineers:

List every agent, contractor, or engineer that will perform work in the installation, monitoring and removal of the facility. (Additional information may be attached). A copy of the Driller's State license for drilling monitoring well facilities must also be attached.

Name:	Total Support Services (tentative - reserve the right to employ an alternate driller)	Telephone:	(800) 259-7174
Address:	P.O. Box 81621 Austin, TX 78708		
Work Performed:	boring installation using Geoprobe		

Name:	Telephone:
Address:	
Work Performed:	

II: MONITORING WELL / BORING INFORMATION

Applying for multiple facilities? Yes ☒ No ☐

(Identify the type of each facility.)

Number of Facilities: 2 Monitoring Well or other Device(s)

7 Environmental Test Boring(s)

9 *TOTAL*

Approved Legal 03/05

CITY OF HOUSTON, TEXAS
Public Works & Engineering Department

Application for Monitoring Well/Boring Permit

Detailed Facility Location Description: *SEE ATTACHED LIST AND MAPS*

Attach additional descriptions for multiple locations if necessary.

Key Map: 413 X and 453 B

Location on GIMS map must be attached

There must be minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained

Attach plan(s,) showing design, dimension and depth of the facility, the manner in which it will be placed, and the process that will be used for its removal and closure.(Information is required for both monitoring wells and borings)

Registered Engineer/Surveyor: *HNTB Corporation*

Address: *2950 North Loop West, Suite 900, Houston, TX 77092* Telephone: *(713) 354-1500*

Plan Number:

III. PERMIT INFORMATION

NOTE: ALL PERMIT FEES ARE WAIVED FOR THOSE APPLICANTS APPLYING FOR A PERMIT FOR A CITY PROJECT.

PERMIT TYPE	APPLICATION FEES		CALCULATIONS
ORIGINAL	***$ 200**** *(1st facility)* + ***$25**** *(each additional facility if applicable)*	→	$
RENEWAL	***$25**** *for each facility*	→	$
	$5* *Administrative fee to process all applications*	→	$ 5.00

TOTAL FEE: $ *0 (City Project)*

Make a Certified or Cashier's Check payable to "City of Houston."

*** ALL FEES ARE NON-REFUNDABLE**

IV. INSURANCE AND BOND INFORMATION

NO PERMIT WILL BE ISSUED WITHOUT AN INSURANCE AND BOND CERTIFICATE

Restoration Bond No. (Original Bond Attached): N/A *Restoration Bond Sum: N/A*

Bond Surety Name: *Telephone:*

Address:

Contact Person:

E-mail Address(If applicable):

Approved Legal 03/05

CITY OF HOUSTON, TEXAS
Public Works & Engineering Department

Application for Monitoring Well/Boring Permit

Liability Insurance Policy No: *61UUNIT2215- (EFFECTIVE FROM 12/15/2009TO 12/15/2010)*

Bodily injury $300,000.00 per occurrence, property damage $100,000.00 per occurrence.

Insurer: USI Southwest

Contact Person: Rinny Chadwick : Telephone: 713.490.4600

Address: 840 Gessner, Suite 600

Houston, Texas 77024

E-mail Address (If applicable): [rinny.chadwick@usi.biz]

V. ACKNOWLEDGMENT & AFFIDAVIT:

The undersigned Applicant acknowledges, and agrees to observe all provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, with all subsequent revisions, that are applicable to the work herein described and will perform work in accordance with the above plans and specifications. Applicant further swears under penalty of law that the information provided herein is true and correct to the best of Applicant's knowledge.

Applicant: HVJ Associates, Inc.

Agent Name: Edward F. Hawkinson Title: Project Environmental Scientist

Agent Signature:

SWORN AND SUBSCRIBED before me the undersigned authority by the above named person on this

14th day of July, 2010

PAMELA ANN CAMPBELL
MY COMMISSION EXPIRES
April 24, 2014

Pamela A. Campbell
Notary Public in and for the State of Texas

Pamela A. Campbell
(Print Name)

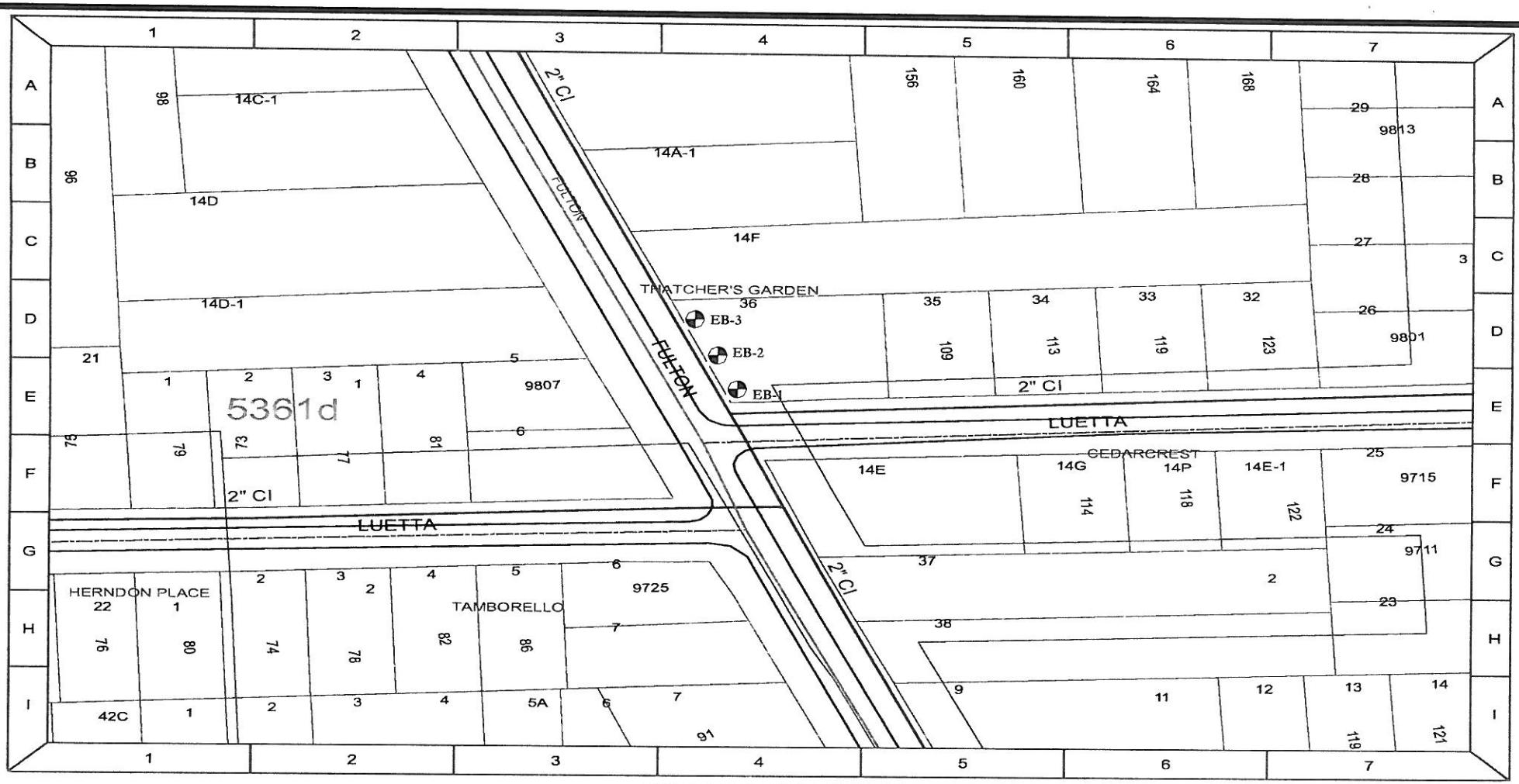
My Commission Expires: 4/24/2014

PERMIT APPROVED:
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS & ENGINEERING

_____ Director

STATEMENT REGARDING THE REQUIREMENT TO **"Attach plan(s) showing design, dimension and depth of the facility, the manner in which it will be placed, and the process that will be used for its removal and closure."**

No more than nine borings will be installed at three locations in the Fulton/Airline Drive area between East Parker Road on the north and Luetta Street on the south to 12 feet below ground surface (bgs) or the immediately below the groundwater interface. These borings are adjacent to three LPST sites identified as areas of recognized environmental concern during a 2007 environmental site assessment (ESA) along the project alignment. Some of the proposed locations may require pavement cores because the borings may be drilled in the street. The borings will be advanced using direct push (Geoprobe) techniques and will be continuously sampled from the surface to the boring total depth bgs. Soil samples will be screened for evidence of impacts in the field using an organic vapor meter (OVM). One soil sample will be collected from each boring and submitted for laboratory analysis. Should groundwater be encountered, a temporary monitoring well will be installed and water sampled for laboratory analysis. No more than one monitoring well will be installed at each of two locations to save costs. Subsequent to the drilling and sampling activities (the same day or the next day), the temporary monitoring well screen and riser pipe will be removed and each borehole will be plugged from boring total depth to the surface using excess soil cuttings/bentonite slurry and the surface repaired with either topsoil, asphalt patch or concrete as appropriate.



1 inch equals 99 feet

0 7 142128

Feet

CITY OF HOUSTON

Department of Public Works & Engineering

Geographic Information & Management System (GIMS)

DISCLAIMER: THIS MAP REPRESENTS THE BEST INFORMATION AVAILABLE TO THE CITY THE CITY DOES NOT WARRANT ITS ACCURACY OR COMPLETENESS FIELD VERIFICATIONS SHOULD BE DONE AS NECESSARY.

N

CITY OF HOUSTON TEXAS

LEGEND:

⊕ **APPROXIMATE BORING LOCATIONS**

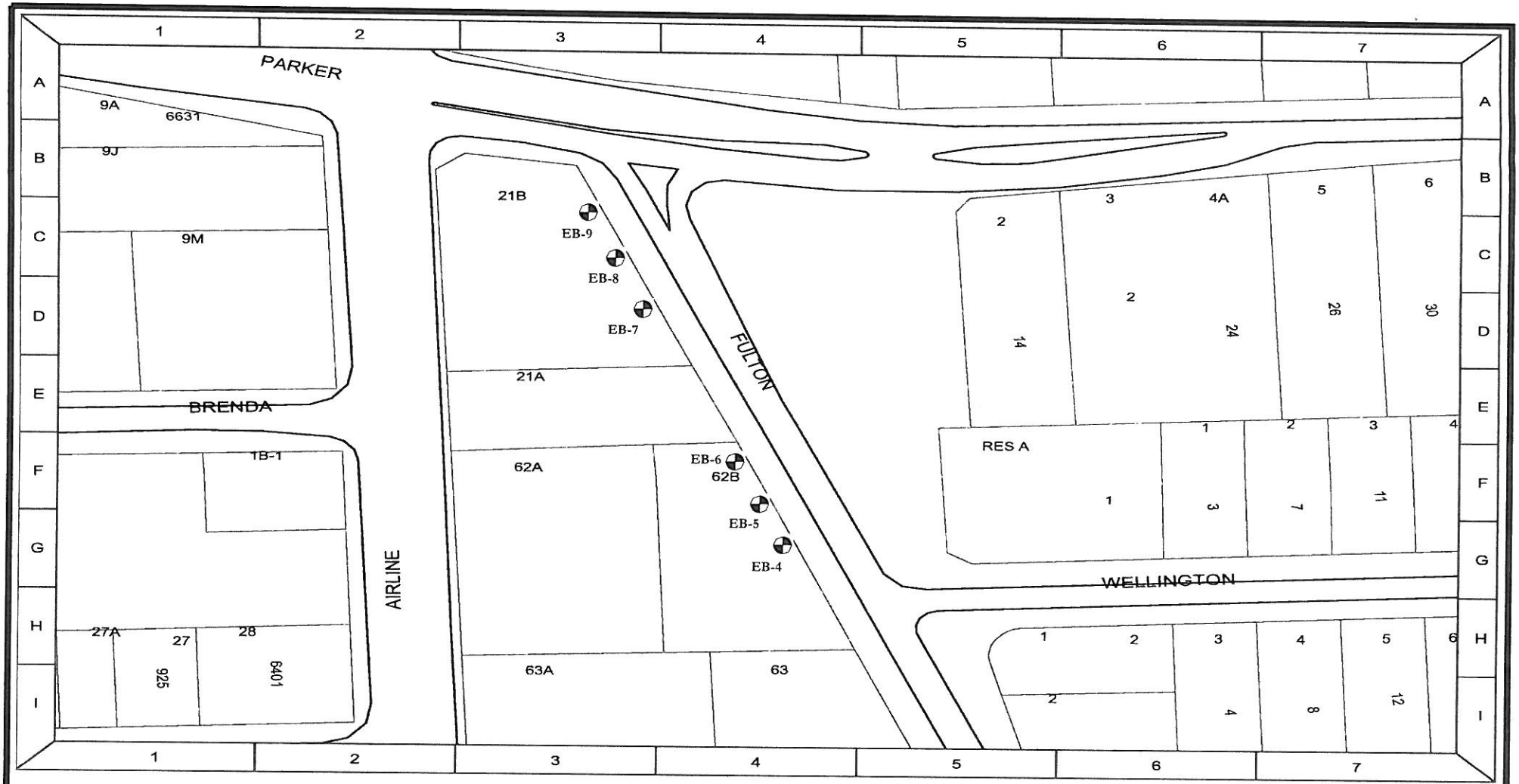
HVJ ASSOCIATES

6120 S. Dairy Ashford Road
Houston, Texas 77072-1010
281.933.7388 Ph
281.933.7293 Fax

DATE: 03/01/2010	APPROVED BY: EH	PREPARED BY: NL

PLAN OF BORINGS
FULTON ROAD AT LUETTA STREET

PROJECT NO.:	DRAWING NO.:
HE0614604	PLATE I



CITY OF HOUSTON

Department of Public Works & Engineering

Geographic Information & Management System (GIMS)

DISCLAIMER: THIS MAP REPRESENTS THE BEST INFORMATION AVAILABLE TO THE CITY THE CITY DOES NOT WARRANT ITS ACCURACY OR COMPLETENESS FIELD VERIFICATION SHOULD BE DONE AS NECESSARY

LEGEND:

⊕ APPROXIMATE BORING LOCATIONS

HVJ ASSOCIATES
6120 S. Dairy Ashford Road
Houston, Texas 77072-1010
281.933.7388 Ph
281.933.7293 Fax

DATE: 03/01/2010	APPROVED BY: EH	PREPARED BY: NL

PLAN OF BORINGS
FULTON ROAD AT E. PARKER ROAD

PROJECT NO.:	DRAWING NO.:
HE0614604	PLATE 2

The State of Texas

Secretary of State

CERTIFICATE OF AMENDMENT

FOR

HVJ ASSOCIATES, INC.
CHARTER NUMBER 00751720

THE UNDERSIGNED, AS SECRETARY OF STATE OF THE STATE OF TEXAS, HEREBY CERTIFIES THAT THE ATTACHED ARTICLES OF AMENDMENT FOR THE ABOVE NAMED ENTITY HAVE BEEN RECEIVED IN THIS OFFICE AND ARE FOUND TO CONFORM TO LAW.

ACCORDINGLY THE UNDERSIGNED, AS SECRETARY OF STATE, AND BY VIRTUE OF THE AUTHORITY VESTED IN THE SECRETARY BY LAW, HEREBY ISSUES THIS CERTIFICATE OF AMENDMENT.

DATED JAN. 14, 1999

EFFECTIVE JAN. 14, 1999

Secretary of State

ARTICLES OF AMENDMENT
TO
THE ARTICLES OF INCORPORATION
OF
HVJ ASSOCIATES, INC.

FILED
In the Office of the
Secretary of State of Texas
JAN 14 1999
Corporations Section

Pursuant to applicable provisions of the Texas Business Corporation Act and the Bylaws of HVJ Associates, Inc. (the "Corporation"), the Corporation hereby adopts the following Articles of Amendment to the Articles of Incorporation:

ARTICLE I

The name of the Corporation is HVJ Associates, Inc.

ARTICLE II

The Amendment to the Articles of Incorporation of the Corporation changes Article Four of the original Articles of Incorporation, and the full text of such amended Article Four is as follows:

"ARTICLE FOUR

Amount of Capital Stock

The total number of shares into which the authorizing capital stock of the Corporation is divided is one-hundred thousand (100,000) shares, consisting of one-hundred thousand (100,000) shares of no par value.

ARTICLE III

The Amendment to the Articles of Incorporation of the Corporation was adopted by a Unanimous Consent Resolution in lieu of a Special Meeting of Shareholders, said resolution having been adopted on January 4, 1999, by written consent of all shareholders in accordance with Article 9.10 of the Texas Business Corporation Act, and any written notice required by such article has been given.

ARTICLE IV

The number of shares of the Corporation outstanding and entitled to vote at a meeting of shareholders or by resolution are nine-thousand (9,000) shares consisting of no par value. There are no shares of the Corporation entitled to vote by class or series

Dated: January 12, 1999

HVJ Associates, Inc.

By: Herbert V. Johnson JMC

Herbert V. Johnson, Sole Director and Sole Shareholder /MC

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 4/6/2010

PRODUCER
Phone: 713-490-4600 Fax: 713-490-4700
USI Southwest
840 Gessner Suite 600
Three Memorial City
Houston TX 77024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED
H V J Associates Inc.
6120 S. Dairy Ashford
Houston TX 77072

INSURERS AFFORDING COVERAGE	NAIC #
INSURER A: Hudson Insurance Company	25054
INSURER B: Hartford Accident & Indemnity	22357
INSURER C: Hartford Underwriters Insuran	30104
INSURER D: Hartford Casualty Insurance C	29424
INSURER E: Twin City Fire Insurance Comp	29459

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	ADD'L INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
C		GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY [X] PRO-JECT [ ] LOC	61UUNIT2215	12/15/2009	12/15/2010	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$1,000,000 $300,000 $10,000 $1,000,000 $2,000,000 $2,000,000
B		AUTOMOBILE LIABILITY X ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS	61UUNIT2215	12/15/2009	12/15/2010	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$1,000,000 $ $ $
		GARAGE LIABILITY ANY AUTO				AUTO ONLY - EA ACCIDENT OTHER THAN AUTO ONLY: EA ACC AGG	$ $ $
D		EXCESS/UMBRELLA LIABILITY X OCCUR CLAIMS MADE DEDUCTIBLE X RETENTION $10,000	61XHUIT0937	12/15/2009	12/15/2010	EACH OCCURRENCE AGGREGATE	$10,000,000 $10,000,000 $ $
E		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below	61WBIO0214	12/15/2009	12/15/2010	X WC STATU-TORY LIMITS [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ $1,000,000 $1,000,000 $1,000,000
A		OTHER Professional Liability	AEE7204003	4/6/2010	4/6/2011	Per Claim Annual Aggregate	$1,000,000 $2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

Blanket Waiver of Subrogation (all policies) and Blanket Additional Insured (all policies except Workers Compensation & Professional Liability) is issued in favor of the Certificate Holder as required by written contract, but limited to the operations of the Named Insured. The General Liability policy is primary and non-contributory to the insurance available to the Additional Insured as required by written contract.

CERTIFICATE HOLDER

HVJ Associates, Inc.
6120 South Dairy Ashford Road
Houston TX 77072

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

ACORD 25 (2001/08)

©ACORD CORPORATION 1988

IMPORTANT

If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

DISCLAIMER

The Certificate of Insurance on the reverse side of this form does not constitute a contract between the issuing insurer(s), authorized representative or producer, and the certificate holder, nor does it affirmatively or negatively amend, extend or alter the coverage afforded by the policies listed thereon.

Texas Department of Licensing and Regulation

The umbrella licensing agency of the State of Texas

Texas Department of Licensing and Regulation

Result Listing

Name and Location	Other Information
SPAUST, RYAN 4647 BRASS WAY DALLAS TX 75236 County: DALLAS	**Water Well Driller and Pump Installer Apprentice** License #: 57817 Expiration Date: 08/11/2010 Type: N/A Phone: (972) 243-7174

Driller Designation:

(W) - water well;

(M) - monitoring well;

(C) - closed loop geothermal well;

(N) - injection well;

(D) - dewatering well;

(A) - master well driller which includes all designations previously listed.

Pump Installer Designations:

(L) - windmills, hand pumps, and pump jacks;

(P) - single phase pumps;

(K) - three phase pumps;

(T) - line-shaft turbine pumps;

(K) - three phase pumps;

(I) - master water well pump installer which includes all designations previously listed.

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Texas Online | TRAIL Search | Texas Homeland Security | Links | Where the Money Goes

APPENDIX B

BORING LOGS

HVJ Associates Inc.

Telephone:
Fax:

Client: HNTB Corporation		Job No.: HE0614604-2	Boring/Well: EB1
Project: Fulton Road Phase II ESA		Well Construction Data	
Date Started: 7/28/10	Date Completed: 7/28/10	Screen:	From: - To:
Logged By: SAJJAD NAQVI	Checked By: EFH	Pack:	From: - To:
Drilling Co.: TOTAL SUPPORT	Driller:	Seal:	From: - To:
Method: Geoprobe	Equipment:	Grout:	From: - To:
Boring Depth: 16.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level:	GW Level: Time/Date:	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0							0	
						Topsoil and fill		
				0.0		Brown sandy clay with ferruginous nodules and shells		
				0.0			NO HYDROCARBON ODOR	
				0.0				
				0.0		Brown sandy clay with ferruginous nodules		
5				0.0			5	
				0.0			NO HYDROCARBON ODOR (sample from 4-8 ft. sent to lab)	
				0.0				
				0.0				
				0.0				
				0.0				
10				0.0			10	
				0.0			NO HYDROCARBON ODOR	
				0.0		Brown yellow sandy clay with ferruginous nodules		
				0.0				
				0.0				
				0.0			NO HYDROCARBON ODOR	
15				0.0		Tan brown sandy clay with ferruginous nodules	15	
				0.0			BORING TERMINATED AT 16 FT. BGS	

LAEWNL03 HNTB CORPORATION FULTON ROAD.GPJ LAEWNL03.GDT 11/1/10

HVJ Associates Inc.

Telephone:
Fax:

Client: HNTB Corporation		Job No.: HE0614604-2	Boring/Well: EB1
Project: Fulton Road Phase II ESA		Well Construction Data	
Date Started: 7/28/10	Date Completed: 7/28/10	Screen:	From: - To:
Logged By: SAJJAD NAQVI	Checked By: EFH	Pack:	From: - To:
Drilling Co.: TOTAL SUPPORT	Driller:	Seal:	From: - To:
Method: Geoprobe	Equipment:	Grout:	From: - To:
Boring Depth: 16.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: ▽	GW Level: ▼ Time/Date:	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0								
				0.0		Topsoil and fill		
				0.0		Brown sandy clay with ferruginous nodules and shells	NO HYDROCARBON ODOR	
				0.0				
				0.0		Brown sandy clay with ferruginous nodules		
5				0.0			NO HYDROCARBON ODOR (sample from 4-8 ft. sent to lab)	
				0.0				
				0.0				
				0.0				
				0.0				
10				0.0			NO HYDROCARBON ODOR	
				0.0				
				0.0		Brown yellow sandy clay with ferruginous nodules		
				0.0				
				0.0			NO HYDROCARBON ODOR	
15				0.0		Tan brown sandy clay with ferruginous nodules		
				0.0			BORING TERMINATED AT 16 FT. BGS	

LAEWNL03 HNTB CORPORATION FULTON ROAD.GPJ LAEWNL03.GDT 8/19/10

HVJ Associates Inc.

Telephone:
Fax:

Client: HNTB Corporation		Job No.: HE0614604-2	Boring/Well: EB2
Project: Fulton Road Phase II ESA		Well Construction Data	
Date Started: 7/28/10	Date Completed: 7/28/10	Screen: From: - To:	
Logged By: SAJJAD NAQVI	Checked By: EFH	Pack: From: - To:	
Drilling Co.: TOTAL SUPPORT	Driller:	Seal: From: - To:	
Method: Geoprobe	Equipment:	Grout: From: - To:	
Boring Depth: 16.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: ▽	GW Level: ▼ Time/Date:	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0								
				0.0		Shell base		
				0.0		Crushed concrete		
				0.0		Dark brown to black sandy clay with ferruginous nodules	NO HYDROCARBON ODOR	
				0.0				
5				0.0		Yellow brown sandy clay with ferruginous nodules	NO HYDROCARBON ODOR (sample from 4-8 ft. bgs sent to lab)	
				0.0				
				0.0				
				0.0				
				0.0				
10				0.0			NO HYDROCARBON ODOR	
				0.0				
				0.0		Yellow brown sand with clay		
				0.0				
				0.0		Yellow brown sandy clay with ferruginous nodules	NO HYDROCARBON ODOR	
15				0.0				
							BORING TERMINATED AT 16 FT. BGS	

LAEWNL03 HNTB CORPORATION FULTON ROAD.GPJ LAEWNL03.GDT 8/19/10

HVJ Associates Inc.

Telephone:
Fax:

Client: HNTB Corporation		Job No.: HE0614604-2	Boring/Well: EB3
Project: Fulton Road Phase II ESA		Well Construction Data	
Date Started: 7/28/10	Date Completed: 7/28/10	Screen: From: - To:	
Logged By: SAJJAD NAQVI	Checked By: EFH	Pack: From: - To:	
Drilling Co.: TOTAL SUPPORT	Driller:	Seal: From: - To:	
Method: Geoprobe	Equipment:	Grout: From: - To:	
Boring Depth: 16.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: ▽	GW Level: ▼ Time/Date:	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0								
						Crushed concrete		
				0.0		Dark brown sandy clay with gravel		
				0.0			NO HYDROCARBON ODOR	
				0.0				
				0.0		Dark brown to yellow sandy clay with gravel		
5				0.2				
				0.2			NO HYDROCARBON ODOR (sample from 4-8 ft. bgs sent to lab)	
				0.2				
				0.2		Yellow brown sandy clay with ferruginous nodules and organics (wood)		
				0.2				
10				0.2			NO HYDROCARBON ODOR	
				0.2				
				0.2		Yellow brown sandy clay with ferruginous nodules		
				0.2				
				0.2		Tan to Yellow brown sandy clay with ferruginous nodules		
15				0.2			NO HYDROCARBON ODOR	
				0.2			BORING TERMINATED AT 16 FT. BGS	

LAEWNL03 HNTB CORPORATION FULTON ROAD.GPJ LAEWNL03.GDT 8/19/10

HVJ Associates Inc.

Telephone:
Fax:

Client: HNTB Corporation		Job No.: HE0614604-2	Boring/Well: EB4
Project: Fulton Road Phase II ESA		Well Construction Data	
Date Started: 7/28/10	Date Completed: 7/28/10	Screen: From: - To:	
Logged By: SAJJAD NAQVI	Checked By: EFH	Pack: From: - To:	
Drilling Co.: TOTAL SUPPORT	Driller:	Seal: From: - To:	
Method: Geoprobe	Equipment:	Grout: From: - To:	
Boring Depth: 16.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: ▽	GW Level: ▼ Time/Date:	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0								
						Shell base		
				0.0		Dark brown sandy clay with gravel		
				0.0			NO HYDROCARBON ODOR	
				0.0				
				0.0				
5						Brown sandy clay with ferruginous nodules		
				0.0				
				0.0				
				0.0		Yellow tan to brown sandy clay with ferruginous nodules and gravel	NO HYDROCARBON ODOR (sample from 4-8 ft. bgs sent to lab)	
				0.0		Dark brown fine sand		
				0.0		Yellow tan to brown sandy clay with ferruginous nodules		
10				0.0			NO HYDROCARBON ODOR	
				0.0				
				0.0				
				0.0		Dark brown sandy clay with ferruginous nodules		
				0.0				
				0.0				
15				0.0			NO HYDROCARBON ODOR	
				0.0			BORING TERMINATED AT 16 FT. BGS	

LAEWNL03 HNTB CORPORATION FULTON ROAD.GPJ LAEWNL03.GDT 8/19/10

HVJ Associates Inc.

Telephone:
Fax:

Client: HNTB Corporation		Job No.: HE0614604-2	Boring/Well: EB5
Project: Fulton Road Phase II ESA		Well Construction Data	
Date Started: 7/28/10	Date Completed: 7/28/10	Screen: From: - To:	
Logged By: SAJJAD NAQVI	Checked By: EFH	Pack: From: - To:	
Drilling Co.: TOTAL SUPPORT	Driller:	Seal: From: - To:	
Method: Geoprobe	Equipment:	Grout: From: - To:	
Boring Depth: 16.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: ▽	GW Level: ▼ Time/Date:	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0				0.0		Shell base	0	
				0.0		Dark brown sandy clay	NO HYDROCARBON ODOR	
				0.0				
				0.0				
5				0.0			5	
				0.0				
				0.0		Dark brown to gray sandy clay with calc. and ferruginous nodules	NO HYDROCARBON ODOR (sample from 4-8 ft. bgs sent to lab) GROUNDWATER AT 7.5 FT. BGS	
				0.0				
				0.0		Dark brown to yellow brown sandy clay with ferruginous nodules		
10				0.0			10	
				0.0			NO HYDROCARBON ODOR	
				0.0		Brown sandy clay with shells		
				0.0		Yellow tan to brown gray sandy clay with ferruginous nodules		
15				0.0			NO HYDROCARBON ODOR 15	
				0.0			BORING TERMINATED AT 16 FT. BGS	

HVJ Associates Inc.

Telephone:
Fax:

Client: HNTB Corporation		Job No.: HE0614604-2	Boring/Well: EB6
Project: Fulton Road Phase II ESA		Well Construction Data	
Date Started: 7/28/10	Date Completed: 7/28/10	Screen: From: - To:	
Logged By: SAJJAD NAQVI	Checked By: EFH	Pack: From: - To:	
Drilling Co.: TOTAL SUPPORT	Driller:	Seal: From: - To:	
Method: Geoprobe	Equipment:	Grout: From: - To:	
Boring Depth: 16.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: ▽	GW Level: ▼ Time/Date:	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0				0.0		Fill		
				0.0		Dark gray/brown sandy clay with organics (roots)	NO HYDROCARBON ODOR	
				0.0				
				0.0				
5				0.0		Dark brown sandy clay with ferruginours nodules		
				0.0				
				0.0		Yellow brown/gray sandy clay with ferruginours nodules	NO HYDROCARBON ODOR (sample from 4-8 ft. bgs sent to lab)	
				0.0				
				0.0		Dark brown to yellow sandy clay with ferruginous nodules		
10				0.0		Brown yellow to tan gray sandy clay with ferruginous nodules	NO HYDROCARBON ODOR	
				0.0				
				0.0		Yellow-dark brown sandy clay		
				0.0				
				0.0		Dark brown fine sand	NO HYDROCARBON ODOR	
15				0.0		Red yellow to dark brown/gray sandy clay with ferruginous nodules		
				0.0			BORING TERMINATED AT 16 FT. BGS	

LAEWNL03 HNTB CORPORATION FULTON ROAD.GPJ LAEWNL03.GDT 8/19/10

APPENDIX C

ANALYTICAL LAB REPORT/CHAIN OF CUSTODY DOCUMENTATION

Anacon, Inc.

Date: *02-Aug-10*

CLIENT:	HVJ Associates	**Client Sample ID:**	EB1 (4-8)
Lab Order:	1007239	**Collection Date:**	7/28/2010 9:10:00 AM
Project:	PO# 10-230		
Lab ID:	1007239-001	**Matrix:**	SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS FOR SOLIDS		**SW8260B**				Analyst: **KK**
Benzene	ND	25.0		µg/Kg	5	7/30/2010 7:52:00 PM
Ethylbenzene	ND	25.0		µg/Kg	5	7/30/2010 7:52:00 PM
Toluene	ND	25.0		µg/Kg	5	7/30/2010 7:52:00 PM
Xylenes, Total	ND	75.0		µg/Kg	5	7/30/2010 7:52:00 PM
Surr: 1,2-Dichloroethane-d4	100	65-127		%REC	5	7/30/2010 7:52:00 PM
Surr: 4-Bromofluorobenzene	102	67-118		%REC	5	7/30/2010 7:52:00 PM
Surr: Dibromofluoromethane	107	68-124		%REC	5	7/30/2010 7:52:00 PM
Surr: Toluene-d8	143	45-148		%REC	5	7/30/2010 7:52:00 PM
TPH FOR SOLIDS		**TX1005**				Analyst: **JL**
TPH (C6 - C35)	ND	50.0		mg/Kg	1	7/29/2010
TPH (C6 - C12)	ND	50.0		mg/Kg	1	7/29/2010
TPH (C12 - C35)	ND	50.0		mg/Kg	1	7/29/2010

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

002

Anacon, Inc.

Date: *02-Aug-10*

CLIENT: HVJ Associates
Lab Order: 1007239
Project: PO# 10-230
Lab ID: 1007239-002

Client Sample ID: EB2 (4-8)
Collection Date: 7/28/2010 9:45:00 AM
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS FOR SOLIDS		**SW8260B**				Analyst: **KK**
Benzene	ND	25.0		µg/Kg	5	7/30/2010 8:22:00 PM
Ethylbenzene	ND	25.0		µg/Kg	5	7/30/2010 8:22:00 PM
Toluene	ND	25.0		µg/Kg	5	7/30/2010 8:22:00 PM
Xylenes, Total	ND	75.0		µg/Kg	5	7/30/2010 8:22:00 PM
Surr: 1,2-Dichloroethane-d4	90.0	65-127		%REC	5	7/30/2010 8:22:00 PM
Surr: 4-Bromofluorobenzene	99.3	67-118		%REC	5	7/30/2010 8:22:00 PM
Surr: Dibromofluoromethane	121	68-124		%REC	5	7/30/2010 8:22:00 PM
Surr: Toluene-d8	146	45-148		%REC	5	7/30/2010 8:22:00 PM
TPH FOR SOLIDS		**TX1005**				Analyst: **JL**
TPH (C6 - C35)	ND	50.0		mg/Kg	1	7/29/2010
TPH (C6 - C12)	ND	50.0		mg/Kg	1	7/29/2010
TPH (C12 - C35)	ND	50.0		mg/Kg	1	7/29/2010

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

003

Anacon, Inc.

Date: *02-Aug-10*

CLIENT:	HVJ Associates	**Client Sample ID:**	EB3 (4-8)
Lab Order:	1007239	**Collection Date:**	7/28/2010 10:02:00 AM
Project:	PO# 10-230		
Lab ID:	1007239-003	**Matrix:**	SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS FOR SOLIDS		**SW8260B**				Analyst: **KK**
Benzene	ND	25.0		µg/Kg	5	7/30/2010 8:51:00 PM
Ethylbenzene	ND	25.0		µg/Kg	5	7/30/2010 8:51:00 PM
Toluene	ND	25.0		µg/Kg	5	7/30/2010 8:51:00 PM
Xylenes, Total	ND	75.0		µg/Kg	5	7/30/2010 8:51:00 PM
Surr: 1,2-Dichloroethane-d4	121	65-127		%REC	5	7/30/2010 8:51:00 PM
Surr: 4-Bromofluorobenzene	91.4	67-118		%REC	5	7/30/2010 8:51:00 PM
Surr: Dibromofluoromethane	108	68-124		%REC	5	7/30/2010 8:51:00 PM
Surr: Toluene-d8	141	45-148		%REC	5	7/30/2010 8:51:00 PM
TPH FOR SOLIDS		**TX1005**				Analyst: **JL**
TPH (C6 - C35)	ND	50.0		mg/Kg	1	7/29/2010
TPH (C6 - C12)	ND	50.0		mg/Kg	1	7/29/2010
TPH (C12 - C35)	ND	50.0		mg/Kg	1	7/29/2010

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

004

Anacon, Inc.

Date: *02-Aug-10*

CLIENT:	HVJ Associates	**Client Sample ID:**	EB4 (4-8)
Lab Order:	1007239	**Collection Date:**	7/28/2010 10:51:00 AM
Project:	PO# 10-230		
Lab ID:	1007239-004	**Matrix:**	SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS FOR SOLIDS		**SW8260B**				Analyst: **KK**
Benzene	ND	25.0		µg/Kg	5	7/30/2010 9:21:00 PM
Ethylbenzene	ND	25.0		µg/Kg	5	7/30/2010 9:21:00 PM
Toluene	ND	25.0		µg/Kg	5	7/30/2010 9:21:00 PM
Xylenes, Total	ND	75.0		µg/Kg	5	7/30/2010 9:21:00 PM
Surr: 1,2-Dichloroethane-d4	115	65-127		%REC	5	7/30/2010 9:21:00 PM
Surr: 4-Bromofluorobenzene	105	67-118		%REC	5	7/30/2010 9:21:00 PM
Surr: Dibromofluoromethane	110	68-124		%REC	5	7/30/2010 9:21:00 PM
Surr: Toluene-d8	121	45-148		%REC	5	7/30/2010 9:21:00 PM
TPH FOR SOLIDS		**TX1005**				Analyst: **JL**
TPH (C6 - C35)	ND	50.0		mg/Kg	1	7/29/2010
TPH (C6 - C12)	ND	50.0		mg/Kg	1	7/29/2010
TPH (C12 - C35)	ND	50.0		mg/Kg	1	7/29/2010

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

005

Anacon, Inc.

Date: *02-Aug-10*

CLIENT: HVJ Associates
Lab Order: 1007239
Project: PO# 10-230
Lab ID: 1007239-005

Client Sample ID: EB5 (4-8)
Collection Date: 7/28/2010 11:40:00 AM
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS FOR SOLIDS		**SW8260B**				Analyst: **KK**
Benzene	ND	25.0		µg/Kg	5	7/30/2010 9:50:00 PM
Ethylbenzene	ND	25.0		µg/Kg	5	7/30/2010 9:50:00 PM
Toluene	ND	25.0		µg/Kg	5	7/30/2010 9:50:00 PM
Xylenes, Total	ND	75.0		µg/Kg	5	7/30/2010 9:50:00 PM
Surr: 1,2-Dichloroethane-d4	96.0	65-127		%REC	5	7/30/2010 9:50:00 PM
Surr: 4-Bromofluorobenzene	104	67-118		%REC	5	7/30/2010 9:50:00 PM
Surr: Dibromofluoromethane	101	68-124		%REC	5	7/30/2010 9:50:00 PM
Surr: Toluene-d8	141	45-148		%REC	5	7/30/2010 9:50:00 PM
TPH FOR SOLIDS		**TX1005**				Analyst: **JL**
TPH (C6 - C35)	ND	50.0		mg/Kg	1	7/29/2010
TPH (C6 - C12)	ND	50.0		mg/Kg	1	7/29/2010
TPH (C12 - C35)	ND	50.0		mg/Kg	1	7/29/2010

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Anacon, Inc.

Date: *02-Aug-10*

CLIENT: HVJ Associates
Lab Order: 1007239
Project: PO# 10-230
Lab ID: 1007239-006

Client Sample ID: EB6 (4-8)
Collection Date: 7/28/2010 12:37:00 PM
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS FOR SOLIDS		**SW8260B**				Analyst: **KK**
Benzene	ND	25.0		µg/Kg	5	7/30/2010 10:19:00 PM
Ethylbenzene	ND	25.0		µg/Kg	5	7/30/2010 10:19:00 PM
Toluene	ND	25.0		µg/Kg	5	7/30/2010 10:19:00 PM
Xylenes, Total	ND	75.0		µg/Kg	5	7/30/2010 10:19:00 PM
Surr: 1,2-Dichloroethane-d4	86.7	65-127		%REC	5	7/30/2010 10:19:00 PM
Surr: 4-Bromofluorobenzene	113	67-118		%REC	5	7/30/2010 10:19:00 PM
Surr: Dibromofluoromethane	118	68-124		%REC	5	7/30/2010 10:19:00 PM
Surr: Toluene-d8	125	45-148		%REC	5	7/30/2010 10:19:00 PM
TPH FOR SOLIDS		**TX1005**				Analyst: **JL**
TPH (C6 - C35)	ND	50.0		mg/Kg	1	7/29/2010
TPH (C6 - C12)	ND	50.0		mg/Kg	1	7/29/2010
TPH (C12 - C35)	ND	50.0		mg/Kg	1	7/29/2010

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Anacon, Inc.

Date: *02-Aug-10*

CLIENT:	HVJ Associates	**Client Sample ID:**	EB5
Lab Order:	1007239	**Collection Date:**	7/28/2010 1:23:00 PM
Project:	PO# 10-230		
Lab ID:	1007239-007	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS IN WATER BY		**SW8260B**				Analyst: **KK**
Benzene	ND	2.00		µg/L	1	7/31/2010 4:38:00 AM
Ethylbenzene	ND	2.00		µg/L	1	7/31/2010 4:38:00 AM
m,p-Xylene	ND	4.00		µg/L	1	7/31/2010 4:38:00 AM
o-Xylene	ND	2.00		µg/L	1	7/31/2010 4:38:00 AM
Toluene	ND	2.00		µg/L	1	7/31/2010 4:38:00 AM
Surr: 1,2-Dichloroethane-d4	129	60-135		%REC	1	7/31/2010 4:38:00 AM
Surr: 4-Bromofluorobenzene	105	69-130		%REC	1	7/31/2010 4:38:00 AM
Surr: Dibromofluoromethane	114	62-130		%REC	1	7/31/2010 4:38:00 AM
Surr: Toluene-d8	104	62-135		%REC	1	7/31/2010 4:38:00 AM
TPH FOR WATER		**TX1005**				Analyst: **JL**
TPH (C6 - C35)	ND	5.00		mg/L	1	7/29/2010
TPH (C6 - C12)	ND	5.00		mg/L	1	7/29/2010
TPH (C12 - C35)	ND	5.00		mg/L	1	7/29/2010

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

008

Anacon, Inc.

Date: *03-Aug-10*

CLIENT: HVJ Associates
Work Order: 1007239
Project: PO# 10-230

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_s

609

Sample ID: **BLANK** SampType: **mblk** TestCode: **8260_s** Units: **µg/Kg** Prep Date: Run ID: **MS-VOA-1_100730A**
Client ID: **ZZZZZ** Batch ID: **R26737** TestNo: **SW8260B** Analysis **7/30/2010** SeqNo: **328681**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	5.00									
Ethylbenzene	ND	5.00									
m,p-Xylene	ND	5.00									
o-Xylene	ND	5.00									
Toluene	ND	5.00									
Xylenes, Total	ND	15.0									
Surr: 1,2-Dichloroethane-d4	10.41	20.1	10	0	104	65	127	0	0		
Surr: 4-Bromofluorobenzene	10.76	7.21	10	0	108	67	118	0	0		
Surr: Dibromofluoromethane	10.57	11.1	10	0	106	68	124	0	0		
Surr: Toluene-d8	10.3	2.44	10	0	103	45	148	0	0		

Sample ID: **LCS** SampType: **lcs** TestCode: **8260_s** Units: **µg/Kg** Prep Date: Run ID: **MS-VOA-1_100730A**
Client ID: **ZZZZZ** Batch ID: **R26737** TestNo: **SW8260B** Analysis **7/30/2010** SeqNo: **328680**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	58.43	5.00	50	0	117	35	150	0	0		
Toluene	53.01	5.00	50	0	106	42	138	0	0		
Surr: 1,2-Dichloroethane-d4	12.49	20.1	10	0	125	65	127	0	0		
Surr: 4-Bromofluorobenzene	10.04	7.21	10	0	100	67	118	0	0		
Surr: Dibromofluoromethane	11.76	11.1	10	0	118	68	124	0	0		
Surr: Toluene-d8	9.85	2.44	10	0	98.5	45	148	0	0		

Sample ID: **1007239-007a** SampType: **ms** TestCode: **8260_s** Units: **µg/Kg** Prep Date: Run ID: **MS-VOA-1_100730A**
Client ID: **EB5** Batch ID: **R26737** TestNo: **SW8260B** Analysis **7/31/2010** SeqNo: **328701**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	55.15	5.00	50	0	110	35	150	0	0		
Toluene	47.1	5.00	50	0	94.2	42	138	0	0		
Surr: 1,2-Dichloroethane-d4	8.66	20.1	10	0	86.6	65	127	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method

CLIENT: HVJ Associates
Work Order: 1007239
Project: PO# 10-230

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_s

010

Sample ID: **1007239-007a** SampType: **ms** TestCode: **8260_s** Units: **µg/Kg** Prep Date: Run ID: **MS-VOA-1_100730A**
Client ID: **EB5** Batch ID: **R26737** TestNo: **SW8260B** Analysis **7/31/2010** SeqNo: **328701**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	10.48	7.21	10	0	105	67	118	0	0		
Surr: Dibromofluoromethane	8.85	11.1	10	0	88.5	68	124	0	0		
Surr: Toluene-d8	10.17	2.44	10	0	102	45	148	0	0		

Sample ID: **1007239-007a** SampType: **msd** TestCode: **8260_s** Units: **µg/Kg** Prep Date: Run ID: **MS-VOA-1_100730A**
Client ID: **EB5** Batch ID: **R26737** TestNo: **SW8260B** Analysis **7/31/2010** SeqNo: **328702**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	56.35	5.00	50	0	113	35	150	55.15	2.15	20	
Toluene	49.84	5.00	50	0	99.7	42	138	47.1	5.65	20	
Surr: 1,2-Dichloroethane-d4	9.11	20.1	10	0	91.1	65	127	0	0	0	
Surr: 4-Bromofluorobenzene	10.54	7.21	10	0	105	67	118	0	0	0	
Surr: Dibromofluoromethane	9.76	11.1	10	0	97.6	68	124	0	0	0	
Surr: Toluene-d8	10.59	2.44	10	0	106	45	148	0	0	0	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method

CLIENT: HVJ Associates
Work Order: 1007239
Project: PO# 10-230

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_w

011

Sample ID: **BLANK** SampType: **mblk** TestCode: **8260_w** Units: **µg/L** Prep Date: Run ID: **MS-VOA-1_100730A**
Client ID: **ZZZZZ** Batch ID: **R26737** TestNo: **SW8260B** Analysis **7/30/2010** SeqNo: **328707**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	2.00									
Ethylbenzene	ND	2.00									
m,p-Xylene	ND	4.00									
o-Xylene	ND	2.00									
Toluene	ND	2.00									
Surr: 1,2-Dichloroethane-d4	10.41	6.33	10	0	104	60	135	0	0		
Surr: 4-Bromofluorobenzene	10.76	7.40	10	0	108	69	130	0	0		
Surr: Dibromofluoromethane	10.57	3.41	10	0	106	62	130	0	0		
Surr: Toluene-d8	10.3	3.90	10	0	103	62	135	0	0		

Sample ID: **LCS** SampType: **lcs** TestCode: **8260_w** Units: **µg/L** Prep Date: Run ID: **MS-VOA-1_100730A**
Client ID: **ZZZZZ** Batch ID: **R26737** TestNo: **SW8260B** Analysis **7/30/2010** SeqNo: **328706**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	58.43	2.00	50	0	117	45	150	0	0		
Toluene	53.01	2.00	50	0	106	45	160	0	0		
Surr: 1,2-Dichloroethane-d4	12.49	6.33	10	0	125	60	135	0	0		
Surr: 4-Bromofluorobenzene	10.04	7.40	10	0	100	69	130	0	0		
Surr: Dibromofluoromethane	11.76	3.41	10	0	118	62	130	0	0		
Surr: Toluene-d8	9.85	3.90	10	0	98.5	62	135	0	0		

Sample ID: **1007239-007a** SampType: **ms** TestCode: **8260_w** Units: **µg/L** Prep Date: Run ID: **MS-VOA-1_100730A**
Client ID: **EB5** Batch ID: **R26737** TestNo: **SW8260B** Analysis **7/31/2010** SeqNo: **328709**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	55.15	2.00	50	0	110	45	150	0	0		
Ethylbenzene	49.59	2.00	50	0	99.2	45	156	0	0		
m,p-Xylene	97.01	4.00	100	0	97.0	50	150	0	0		
o-Xylene	47.82	2.00	50	0	95.6	50	150	0	0		
Toluene	47.1	2.00	50	0	94.2	45	160	0	0		
Surr: 1,2-Dichloroethane-d4	8.66	6.33	10	0	86.6	60	135	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method

CLIENT: HVJ Associates
Work Order: 1007239
Project: PO# 10-230

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_w

Sample ID: **1007239-007a** SampType: **ms** TestCode: **8260_w** Units: **µg/L** Prep Date: Run ID: **MS-VOA-1_100730A**
Client ID: **EB5** Batch ID: **R26737** TestNo: **SW8260B** Analysis **7/31/2010** SeqNo: **328709**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	10.48	7.40	10	0	105	69	130	0	0		
Surr: Dibromofluoromethane	8.85	3.41	10	0	88.5	62	130	0	0		
Surr: Toluene-d8	10.17	3.90	10	0	102	62	135	0	0		

Sample ID: **1007239-007a** SampType: **msd** TestCode: **8260_w** Units: **µg/L** Prep Date: Run ID: **MS-VOA-1_100730A**
Client ID: **EB5** Batch ID: **R26737** TestNo: **SW8260B** Analysis **7/31/2010** SeqNo: **328710**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	56.35	2.00	50	0	113	45	150	55.15	2.15	20	
Ethylbenzene	53.29	2.00	50	0	107	45	156	49.59	7.19	20	
m,p-Xylene	103.1	4.00	100	0	103	50	150	97.01	6.08	20	
o-Xylene	50.36	2.00	50	0	101	50	150	47.82	5.17	20	
Toluene	49.84	2.00	50	0	99.7	45	160	47.1	5.65	20	
Surr: 1,2-Dichloroethane-d4	9.11	6.33	10	0	91.1	60	135	0	0	20	
Surr: 4-Bromofluorobenzene	10.54	7.40	10	0	105	69	130	0	0	20	
Surr: Dibromofluoromethane	9.76	3.41	10	0	97.6	62	130	0	0	20	
Surr: Toluene-d8	10.59	3.90	10	0	106	62	135	0	0	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method

Anacon, Inc.
730 FM 1959
Houston, TX 77034

QA/QC REPORT - LCS

Sample ID:	**LCS**	**Matrix:**	**Solid**
Anacon Number:	**7225, 33, 34, 38, 40, 51, 53, 60, 62**	**Units**	**mg/kg**

Analyte / Method Number	Blk Value	Spike Conc.	LCS Conc.	% Recovery		Recovery Limits
TPH-GRO - 1005	< 50	500	570	114		75-125
TPH-DRO - 1005	< 50	500	577	115		75-125

LCS Advisory Limits

RPD: 0 out of 2 outside of QC limits

*Matrix interference
**Sample too concentrated to spike

QA/QC Manager MKJ

Anacon, Inc.
730 FM 1959
Houston, TX 77034

QA/QC REPORT - MS/MSD

Sample ID: MS/MSD **Matrix:** Solid
Anacon Number: 7225, 33, 34, 38, 40, 51, 53, 60, 62 **Units** mg/kg

Analyte/Method Number	DL	Sample	Spike Level	MS	% REC	MSD	% REC	RPD	QC LIMITS RPD	QC LIMITS % REC
TPH-GRO - 1005	< 50	< 50	500	567	113	578	116	1.9	20	75-125
TPH-DRO - 1005	< 50	< 50	500	582	116	583	117	0.2	20	75-125

*Matrix Interference
**Sample too Concentrated for spiked amount

MS/MSD Advisory Limits

RPD: 0 out of 2 outside of QC limits
REC: 0 out of 4 oustide of QC limits

* Matrix Interference
** Sample too concentrated to spike

QA/QC Manager _____

FULTON

ANACON, INC.

730 FM 1959
HOUSTON, TX 77034
(281) 922-7000 Tel.
(281) 481-0089 Fax

Chain of Custody Record

Shaded Areas for Lab Use Only.

Page 1 of 1

ORIGINAL

Client: HVJ ASSOCIATES FOR HNTB
Address: 6120 S. DAIRY ASHFORD
HOUSTON, TX 77072
PO# 10-230

Contact Person: ED HAWKINSON
Phone Number: 281 983-8829
Fax Number: 281 933-7293
E-mail Address:

Anacon Log Number: 100729-1
Turn Around Time: 2 WEEKS
Sample Location: FULTON

Delivered By: RUSH COURIER
Custody Seal (Y/N): N
Temperature: ON ICE 6.0°C

Sampled By: SAJJAD NOORI
Please Print

Log Number	Sample Matrix	Date Collected	Time Collected	# of Containers	Type of Container	Pres.	Client Sample ID	Analysis Requested: BTEX	Analysis Requested: TPH	Remarks
01A	S	7-28-10	9:10 AM	1	G	N/A	EB1 (4'-8')	X	X	
02A	S	7-28-10	9:45 AM	1	G	N/A	EB2 (4'-8')	X	X	
03A	S	7-28-10	10:02 AM	1	G	N/A	EB3 (4'-8')	X	X	
04A	S	7-28-10	10:51	1	G	N/A	EB4 (4'-8')	X	X	
05A	S	7-28-10	11:40	1	G	N/A	EB5 (4'-8')	X	X	
06A	S	7-28-10	12:37	1	G	N/A	EB6 (4'-8')	X	X	
07AB	W	7-28-10	1:23	2	G	HCL	EB5 A-BTEX B-TPH	X	X	

Relinquished By: SAJJAD	Date: 7-28-10	Time: 3:PM	
Accepted By: Natasha Warren	Date: 7/28/10	Time: 3:16 PM	
Relinquished By: Natasha Warren	Date: 7/29/10	Time: 8:30 AM	
Accepted By: Derek Cunningham	Date: 7-29-10	Time: 8:30 AM	
Relinquished by:	Date:	Time:	
Accepted By: A. Cupe	Date: 7-29-10	Time: 1040	

Preservation Code		Matrix Code		Containers	Notes
1=HNO3	6=Other	S=Solid	EFF=Effluent	P=Plastic	
2=H2SO4		W=Water		G=Glass	
3=NaOH		Sldg=Sludge		V=Voa	
4=HCL		O=Oil		B=Bacterial	
5=None		INF=Influent			

APPENDIX D

WASTE DISPOSAL DOCUMENTATION

REPUBLIC SERVICES — SPECIAL WASTE PROFILE

Requested Disposal Facility: 5115 Gulfwest LF TX

Waste Profile #
Sales Rep #.

Saveable fill in form. Restricted printing until all required (yellow) fields are completed.

I. Generator Information

Generator Name: HVJ and Associates			
Generator Site Address: Along Elgin and Fulton			
City: Houston	County: Harris	State: Texas	Zip: 77004
State ID/Reg No: NA	State Approval/Waste Code: CESQ3191 (if applicable)		NAICS # : NA
Generator Mailing Address (if different): 6120 S. Dairy Ashford			
City: Houston	County: Harris	State: Texas	Zip: 77072
Generator Contact Name: Ed Hawkinson		Email: Ehawkinson@@HVJ.com	
Phone Number: (281) 983-8829	Ext:	Fax Number: (281) 933-7293	

IIa. Transporter Information

Transporter Name: USA Environment, L.P.		Contact Name: Debbie Jorgensen	
Transporter Address: 10234 Lucore Street			
City: Houston	County: Harris	State: Texas	Zip: 77017
Phone Number: (713) 335-97[illegible]	Fax Number: (713) 425-6956	State Transportation Number: 87242	

IIb. Billing Information

Bill To: USA Environment, L.P. 2067-TD-H011		Contact Name: Debbie Jorgensen	
Billing Address: 10234 Lucore Street		Email: djorgensen@usaenviro.com	
City: Houston	State: Texas	Zip: 77017	Phone: (713) 335-9750

III. Waste Stream Information

Name of Waste: Preconstruction investigative sampling of soils for City of Houston
Process Generating Waste: Used a geoprobe to take samples of the soil at multiple locations along Elgin and Fulton Streets in Houston, Texas to determine if there are any contaminated areas prior to construction activities by the City of Houston.
Physical State: ☑ SOLID ☐ SEMI-SOLID ☐ POWDER ☐ LIQUID
Method of Shipment: ☐ BULK ☑ DRUM ☐ BAGGED ☐ OTHER:
Estimated Annual Volume: 2 Drums
Frequency: ☑ ONE TIME ☐ ANNUAL
Disposal Consideration: ☑ LANDFILL ☐ SOLIDIFICATION ☐ BIOREMEDIATION

IV. Representative Sample Certification

☐ NO SAMPLE TAKEN

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	☑ YES or ☐ NO
Sample Date: 7/27 & 7/28/10	Type of Sample: ☑ COMPOSITE SAMPLE ☐ GRAB SAMPLE
Sample ID Numbers:)01A-012A and O1A-MAB	

©Republic Services, May 2009

Waste Profile #

V. Physical Characteristics of Waste

Characteristic Components	% by Weight (range)
1. Soil	100.000
2.	
3.	
4.	
5.	

Color	Odor (describe)	Does Waste Contain Free Liquids?	% Solids	pH:	Flash Point
Brown	none	☐ Yes or ☑ No	100.00	NA	>200 °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and it epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ Yes or ☑ No
Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]?	☐ Yes or ☑ No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ Yes or ☑ No
Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ Yes or ☑ No
Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	☐ Yes or ☑ No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?	☐ Yes or ☑ No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ Yes or ☑ No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ Yes or ☑ No
Is this waste a reactive or heat generating waste?	☐ Yes or ☑ No
Does the waste contain sulfur or sulfur by-products?	☐ Yes or ☑ No
Is this waste generated at a Federal Superfund Clean Up Site?	☐ Yes or ☑ No
Is this waste from a TSD facility, TSD-like facility or waste consolidator?	☐ Yes or ☑ No

VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither I nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

Ed Hawkinson/Project Manager	HVJ and Associates
Authorized Representative Name/Title (Type or Print)	Company Name
Authorized Representative Signature	08/18/2010
	Date

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REPUBLIC SERVICES, INC.

SPECIAL WASTE PROFILE - CHANGE

I. Generator Information

This form may be used to request changes to an existing Special Waste Profile.			
Generator Name:	HVJ and Associates		
Name of Waste:	Preconstruction investigative sampling of soil for City of Houston	Waste Profile #	1012811

II. Purpose of Change

Description of Change Requested and Reason for Change: (Provide detailed explanation of why the change is requested following the appropriate checked box below).
☐ Volume Increase By:
☐ Extend Expiration Date:
☒ Change or Add Landfill: McCarty
☐ Add Additional Laboratory Reports: **Complete Representative Sample Certification, Section III, below.**
☐ Add MSDS:
☐ Generator Name Change:
☒ Other: WAste Code CESQ3192

III. Representative Sample Certification

☒ No Sample Taken

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	☐ YES or ☐ NO
Sample Date:	Type of Sample: ☐ COMPOSITE SAMPLE ☐ GRAB SAMPLE
Sample ID Numbers:	

IV. Certification

I hereby certify that the waste and the process generating the waste are unchanged and are accurately represented in the original profile.

Ed Hawkinson/Project Manager	HVJ and Associates
Authorized Representative Name and Title (Printed)	Company Name
Authorized Representative Signature	August 26, 2010
	Date

ALLIED WASTE

NON-HAZARDOUS WASTE MANIFEST

0145017

1. Generator's US EPA ID Number	Manifest Document Number	2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address	5. Generating Location (if different)
HVJ and Associates Along Elgin and Fulton Houston, TX 77004 4. Phone ( ) 281-983-6990	SAME 6. Phone ( )

7. Transporter #1 Company Name	8. US EPA ID Number	9. Transporter #1's Phone
USA Environmental Services	TXR000054437	713 475 8950
10. Transporter #2 Company Name	11. US EPA ID Number	12. Transporter #2's Phone
13. Designated T/S/D Facility Name and Site Address MC CARTY ROAD LF TX, LP #261A 11013 OLD BEAUMONT HWY HOUSTON, TX 77078	14. US EPA ID Number	15. Facility's Phone 713 671-1550

	16. Waste Shipping Name and Description	17. Allied Waste Approval # and Exp. Dale	18. Containers No.	18. Containers Type	19. Total Quantity	20. Unit Wt/Vol
a.	SOIL CUTTINGS		2	DM	200	P
b.						
c.						
d.						

21. Additional Descriptions for Materials Listed Above

USA JOB/PO # 2067-TD-H011 Waste code CESQ3102

22. Special Handling Instructions and Additional Information

23. **GENERATOR'S CERTIFICATION:** I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
		1	21	12

TRANSPORTER

24. **Transporter #1:** Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Alone Hatch		1	21	12

25. **Transporter #2:** Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

T/S/D FACILITY

26. Discrepancy Indication Space

27. **Facility Owner or Operator:** Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

COM000033

REV 08/09