

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. Contract Number DCAM-2010-B-0001	Page of Pages 1 1
2. Amendment/Modification Number DCAM-2010-B-0001-001	3. Effective Date October 29, 2009	4. Requisition/Purchase Request No.		5. Solicitation Caption Selective Demolition for Anacostia Gateway Government Center
6. Issued By: Diane Wooden, Contracting Officer Department of Real Estate Services Contracting and Procurement Division 2000 14th Street, NW, Fifth Floor Washington, DC 20009		7. Administered By (If other than line 6) Department of Real Estate Services Contracting and Procurement Division 2000 14th Street, NW, Fifth Floor Washington, DC 20009		
8. Name and Address of Contractor (No. Street, city, country, state and ZIP Code)		9A. Amendment of Solicitation No. DCAM-2010-B-0001		
		X 9B. Dated (See Item 11) 10/23/2009		
		10A. Modification of Contract/Order No.		
		10B. Dated (See Item 13)		
Code	Facility			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
X The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input checked="" type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning <u>1</u> copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or fax which includes a reference to the solicitation and amendment number. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or fax, provided each letter or telegram makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
12. Accounting and Appropriation Data (If Required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14				
A. This change order is issued pursuant to: (Specify Authority) The changes set forth in Item 14 are made in the contract/order no. in item 10A.				
B. The above numbered contract/order is modified to reflect the administrative changes (such as changes in paying office, appropriation date, etc.) set forth in item 14, pursuant to the authority of 27 DCMR, Chapter 36, Section 3601.2.				
C. This supplemental agreement is entered into pursuant to authority of:				
D. Other (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copy to the issuing office.				
14. Description of amendment/modification (Organized by UCF Section headings, including solicitation/contract subject matter where feasible.) The Subject solicitation is hereby amended as follows: 1. The Specifications, Attachment J.1.1 and the Plans, Attachment J.1.2 are no longer available for pick up at the Reeves Center Third Floor Bid Room. They are now available for pick up from Blueboy Printing, located at 214 L Street N.E. #311, Washington, DC, 20005 for a cost of \$25.00+ tax. Please call 202-265-0272 to order plans and specs before pick up. 2. Attachment A: Phase II Environmental Study. 3. Attachment B: Sign in sheet from site visit and pre bid conference held on October 28, 2009 at 11:00 a.m. 4. Attachment C: Items added to the Scope of Work as result of the site visit conducted on October 28, 2009 at 11:00 a.m..				
15A. Name and Title of Signer (Type or print)		16A. Name of Contracting Officer Diane Wooden		
15B. Name of Contractor (Signature of person authorized to sign)	15C. Date Signed	16B. District of Columbia Diane Wooden (Signature of Contracting Officer)	16C. Date Signed 10/30/09	

**ATTACHMENT A
PHASE II ENVIRONMENTAL STUDY**

PHASE II ENVIRONMENTAL SITE ASSESSMENT

**FORMER AMOCO SERVICE STATION
1234 GOOD HOPE ROAD, SE
WASHINGTON, DC**

Prepared for:

**DIVERSIFIED ENGINEERING, INC.
7600 Georgia Ave, NW, Suite 315
Washington, DC. 20012**

**Attn: Mr. Marion Thomas, P.E.
Project Manager**

Prepared by:



**THOMAS L. BROWN ASSOCIATES, PC.
1400 EYE STREET, NW
SUITE 440
Washington, DC 20005**

April 28, 2009



THOMAS L. BROWN ASSOCIATES, PC

1400 EYE STREET, SUITE 440
WASHINGTON, DC 20005
VOICE: (202) 387-0022
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*Subsurface Explorations &
Geotechnical Engineering Consultants*

THOMAS L. BROWN, CWD, P.E., President

April 28, 2009

Diversified Engineering, Inc.
7600 Georgia Avenue, NW, Suite 315
Washington, DC 20012

Attn: Mr. Marion Thomas, P.E.
Project Manager, President

Re: Phase II Environmental Site Assessment
Former Amoco Service Station
1234 Good Hope Road, SE
Washington, DC
TLB Project No. 09-009-PC

Dear Mr. Thomas:

Pursuant to your authorization, we have performed a Phase II Environmental Site Assessment in support of your design efforts at the referenced site. We understand that the type of development planned for this property is unknown as of to date, however, a temporary park is to be developed in the immediate future. The following report summarizes the results of our site assessment and presents conclusions and recommendations.

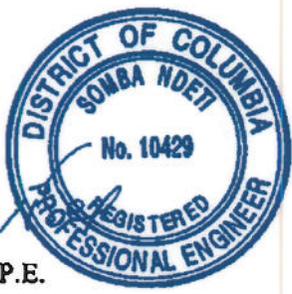
If you have any questions regarding this report or when we can be of further assistance on this or other projects, please do not hesitate to call us.

Yours very truly,

THOMAS L. BROWN ASSOCIATES, P.C.


Lauriston Lawrence
Staff Engineer


Somba Ndeti, P.E.
Project Manager



SN:11

C:\Users\Somba Ndeti\Documents\Diversified\Phase II ESA-1234 Good Hope Rd, SE, Wash., DC Doc

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- Drawing Number 1 - Site Location Plan
Drawing Number 2 - Site Exploration Plan

APPENDIX A - RECORDS OF SOIL EXPLORATION

APPENDIX B -- LABORATORY TEST RESULTS

CHEMICAL (ENVIRONMENTAL) TESTS

- Soil Samples - VOC's (BTEX, MTBE, Naphthalene, TPH), GRO & DRO.
- Water Samples - VOC's (BTEX, MTBE & Naphthalene).

1.0 INTRODUCTION

The proprietor desires to develop the parcel at 1234 Good Hope Road in the southeast quadrant of the Washington, DC Metropolis. The project site is located adjacent to and west of the inbound Ramp of the 11th Street Bridge, and is situated north of the busy Good Hope Road thoroughfare, just east of a recently constructed multi-story structure. The general site location is shown on the Site Location Plan presented as Drawing Number 1. Drawing Number 2 attached herein as Site Exploration Plan gives a more detailed layout of the site as it exists today.

Diversified Engineering, Inc (DEI), of Silver Spring, Maryland is coordinating the study for this project. As a sub-consultant to DEI, **Thomas L. Brown Associates, PC. (TLB)** of Washington, DC provided the requisite environmental services in support of their efforts. A limited Phase II Environmental Site Assessment was executed and included an environmental program developed by DEI and TLB, and executed by TLB.

1.1 Site History

The site is a former Amoco Service Station. It is reported that four (4) intact 10,000 gallon underground tanks (USTs) and associated distribution pipes and fuel dispensers were removed in March 2005. Environmental studies were conducted for BP Products North America, Inc. (BP) by in September 2003 and again in January 2006. Under agreement between BP and the District of Columbia, BP was released from the responsibility of further cleanup of the site.

1.2 Existing Conditions

At the time of this study, the site was occupied by the former gas station around which existed a concrete-paved yard. An unpaved area, however, which seemed to be the location of previous demolition, existed at the northeast area of the site. This area is understood to be the previous location of the underground storage tanks. Other unpaved areas at the site are understood to be the former alignments of pipes leading to and from the fuel dispensing pumps. Three monitoring wells as well as a few small manholes/valves were also observed at the site. The wells were damaged and groundwater depths could not be gauged.

1.3 Proposed Development

It is our understanding that most of the site's existing structures and infrastructure that include the building structure and surrounding concrete pavements will be demolished soon. Whereas some type of commercial development will be undertaken at the subject parcel in the future, it is unknown as to the type and size of the development. However, it is also understood that the exposed soils will be covered with top soil that will be hydro-seeded to create a temporary neighborhood park, pending development within about two years time.

1.4 Existing Grades

The immediate area surrounding the project site is characterized by a somewhat flat terrain, having existing grades that gently slope from approximately EL. 18.0± on the west to EL. 20.0±

on the east side. Within the northern/southern direction, existing grades vary from approximately EL. 19.0± on the north to EL. 20.0± on the south. Please refer to Drawing No. 2 that also shows the existing grades.

1.5 Scope of Services

DEI required a Phase II Environmental Site Assessment be performed. Soil and groundwater samples were to be taken from the subsurface at the proposed boring locations in an effort to evaluate pertinent environmental issues concerning design and construction at the site. This report includes a limited Phase II ESA survey of the site. TLB's scope of services comprised of:

- Mobilizing a truck-mounted drill rig to perform the field exploratory studies at the discrete locations shown in Drawing No. 2, and according to the As-drilled Schedule provided as Table 1, appearing on the following page.
- Performing field exploratory studies at three (3) locations designated by Borings B-01 through B-03 as shown on Drawing No. 2. The number of borings and their depths was provided by DEI.
- Performing visual classifications and determining the associated engineering characteristics of the retrieved soil samples during the field explorations.
- Screening the retrieved samples using a Photoionization Detector (PID).
- Performing laboratory chemical tests on select samples to determine if contaminants existed at the site.
- Analyzing subsurface conditions as they pertain to the proposed near-future development at the site.
- Preparation of this Phased II ESA report describing the conditions encountered and providing conclusions and recommendations.

The following paragraphs summarize the activities, conclusions, and recommendations resulting from TLB's efforts.

2.0 FIELD INVESTIGATION

2.1 Test Borings

TLB's field Explorations included:

- Coordination with DEI regarding the site access and stakeout of three (3) boring locations.
- Coordinating utility clearances with the relevant utility locators and confirming where the utilities were marked in the field prior to TLB's mobilization to the field to commence any intrusive explorations.

- > Preparing a Health and Safety Plan (HASP) containing the route to the nearest hospital, potential chemical and physical hazards, personnel protective equipment required, and personnel training requirements.
- > Mobilizing a truck-mounted drill rig to perform the planned field explorations.
- > Drilling three (3) test borings (i.e. B-01 through B-03) to 28-ft depths.
- > Performing standard penetration testing (SPT) in accordance with ASTM D 1586, at 2.5-foot intervals below existing grades to the explored depths for all three borings.
- > Determining depth to groundwater table during and upon completion of drilling, and after 24 hours following completion of drilling.

2.2 Photoionization detector (PID) Screening

All twelve SPT samples (from the just below the pavement to the termini of the boring) from each of the three boreholes were opened and screened with a Photo-Ionization Detector (PID) capable of detecting volatile organic compounds (VOCs). The readings were noted on the individual logs, and visual and/or olfactory evidence of hydrocarbons was noted on the boring logs. Soils for chemical analysis were collected from the sample having the highest field PID readings or other obvious evidence of contamination (olfactory, staining, oily sheen, etc.).

3.0 SUBSURFACE CONDITIONS

The sub-surface conditions observed in the three (3) borings may be generally described as follows:

Pavements: Approximately 6.0 inches of gravel existed as surface material at Boring B-01, while 4.0 to 5.0 inches of concrete was encountered at the surface of Borings B-02, and B-03.

Existing Fill Soils

Fills and/or disturbed materials existed beneath the pavements in all borings except Borings B-03. The fill consisted of sand and clay as the primary constituents and gravel and silt as minor constituents. The material extended to depths between 2.0 and 4.5 feet (EL. 18.0± and EL. 14.5±). The material between a depth of 4.5 and 12.0 feet at Boring B-01 was suspected to be fill material from the removal of the UST.

Sand: sand/clayey sand was the predominant material observed in the borings. The sands were encountered beneath the aforementioned fills in Borings B-01 and B-02, and beneath the pavement in Boring B-03. The material extended to depths between 14.5 and 27.0 feet (EL. 4.5± and EL. -7.0±) in Borings B-01 and B-02. The material extended to the explored depth in Boring B-03.

Silt/Clay: Clay, sandy Clay and Silt were observed in the borings. The material existed between the sand at a depth of 7.5 (EL. 11.5±) and 19.5 (EL. -1.5±) in Borings B-02 and B-03. The material extended to 10.5 (EL. 8.5±) and 24.5 (EL. -6.5±) respectively in both borings. The

material was encountered beneath the sand in Borings B-01 and B-02 and extended to the explored depths in both borings.

Groundwater was encountered during or after drilling at highest depths that varied from Elevation 7.0, 11.0, and 5.5 at Borings B-01, B-02 and B-03 respectively. 9.0 to 12.5 feet below ground surface. The groundwater appears to be flowing in a generally westerly direction toward the Anacostia River.

4.0 SOIL SAMPLING AND ANALYSIS

4.1 Sampling and Field Screening

The presence of total petroleum hydrocarbons (TPH) in soil was detected using a PID meter. A portion of the soil sample from each sampler that was collected at 2-ft intervals was placed in a plastic zip-lock bag and sealed. The sealed plastic bag containing the selected soil sample was placed in a warm location for a minimum of five minutes and the headspace in the bag was monitored with a PID. PID readings were noted on the boring log.

The readings varied widely from 0.0 to approximately 1210 parts per million (ppm) in the borings, with the highest reading recorded in Boring B-02. Readings varied from 0.0 to 1135 ppm in Boring B-01, between 0.0 and 1210 ppm in Boring B-02, and from 2.1 to 1167 ppm in Boring B-03. It was noticed, however, that VOC's were relatively low, ranging from approximately 0.0 and 7.2 ppm between grade and approximately 5.0 to 7.0 feet depths in the borings. Beyond that depth, however, VOC's ranged generally between 13.8 and 1210 ppm.

The sample from each boring that recorded the highest PID indication of TPH was transferred into laboratory-supplied glass containers and placed in a cooler with ice pending transportation to the laboratory for chemical analyses utilizing standard chain-of-custody (COC) procedures.

The sampling equipment was decontaminated between borings by washing with an Alconox and distilled water solution and triple-rinsing with distilled water to prevent cross-contamination of soil samples.

4.2 Laboratory Testing

Selected soil samples were collected from each of the boreholes at a depth of 13 feet. The three soil samples sent to an external laboratory for chemical tests that included:

- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX), Methyl Tertiary-Butyl Ether (MTBE), Naphthalene, and Gasoline Range Organics (GRO) using EPA Method 8021/8015.
- Total Petroleum Organics/Diesel-Range Organics (TPH/DRO) using EPA Method 8015B.

Groundwater samples were collected from each of Borings B-01, B-02 and B-03 from depths of 12, 9.0 and 12.5 feet respectively below ground surface. The groundwater samples were subjected to laboratory tests that included:

- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX), Methyl Tertiary-Butyl Ether (MTBE), and Naphthalene using EPA Method 8260.

Table No. 1: Chemical Laboratory Test Results						
Sample No.	B-01 S6		B-02 S6		B-03 S6	
Medium	<i>Soil</i>		<i>Soil</i>		<i>Soil</i>	
Units	ppb	Lab Flag	ppb	Lab Flag	ppb	Lab Flag
Volatile Organics						
Benzene	1090	U	4.4	U	284	U
Toluene	1140		5.6		284	U
Ethylbenzene	11000		199		384	
Xylenes	69600		30		568	U
Methyl-t-Butyl Ether	2170	U	8.9	U	568	U
Naphthalene	21400		17		568	U
Medium	<i>Soil</i>		<i>Soil</i>		<i>Soil</i>	
Units	ppm	Lab Flag	ppm	Lab Flag	ppm	Lab Flag
Gasoline Range Organics	870		8.42		87.8	
Diesel Range Organics	660		25		38	
Sample No.	B-01		B-02		B-03	
Medium	<i>Water</i>		<i>Water</i>		<i>Water</i>	
Units	ppb	Lab Flag	ppb	Lab Flag	ppb	Lab Flag
Volatile Organics						
Benzene	25	U	8.1	U	4.2	J
Ethylbenzene	158		5.0	U	22	
Methyl-t-Butyl Ether	779		21		27	
Naphthalene	117		5.0	U	89	
Toluene	33	U	5.0	U	5.0	U
o-Xylenes	250		5.0	U	3.0	J
m+p-Xylenes	725		5.0	U	8.0	
Lab Flags:						
U - Below reported quantitation level						
J - Estimated Value						

Appendix B presents a compilation of the chemical laboratory tests results that were completed during this study. The remaining soil samples are being temporarily stored in our Glen Burnie,

Maryland laboratory and are available for review. Forty-five (45) days following the submittal of this report, however, those samples may be discarded unless other arrangements are made.

5.0 CONCLUSIONS/RECOMMENDATIONS

Based on the information obtained during this Phase II Environmental Site Assessment that included limited sampling, TLB provides the following conclusions for the site:

The field exploratory services as well as the laboratory tests that were conducted on soil and water samples indicate some contamination, probably from tank leaks, exists within the project site. The laboratory test results for VOC, GRO and DRO were therefore checked against Soil and Groundwater Quality Standards per the District of Columbia Underground Storage Tank Regulations. The Ground Water Quality Standards require the following maximum concentrations in the ground water:

Benzene - 5 ppb, Toluene – 1,000 ppb, Ethylbenzene – 700 ppb, Total Xylenes – 10,000 ppb.

Therefore, the concentration for Benzene at 25 ppb in the water Sample B-01 (i.e. from Boring B-01) exceeds the maximum allowed.

Concerning soil, the Soil Quality Standard, the following maximum concentrations are stipulated:

100 ppm Total Petroleum Hydrocarbons (DRO or GRO); 10 ppm Total Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX), and 1 ppm Benzene. The concentrations for GRO and DRO are 870 and 660 ppm respectively; whereas concentration for BTEX was 81.4 ppm and for Benzene was 1.09 ppm. All these values obtained from the soil sample collected from Boring B-01 Sample S6 exceed the maximum concentrations allowed.

According to the District of Columbia's Municipal Regulations regarding Environment cleanup standards for soil and groundwater, the soil and water samples that were collected from Boring B-01 were determined to be contaminated as previously mentioned. Incidentally, these samples were collected from the location of the previous USTs. The concentrations for the soil and water samples from the other two borings (i.e. B-02 and B-03) were below the cleanup values. Contamination seemed to be isolated to the former USTs location, however, further studies may be needed to further define the extent of contamination.

Although soil and water samples from other depths were not tested in the laboratory, it is plausible to infer from the data collected that significant levels of contamination do exist below an approximate depth of 7.0 feet to at least the explored depths, especially in the vicinity of Boring B-01. This does not mean that there is no contamination in other locations of the site.

Pending ultimate development for the site, immediate plans call demolition of the existing structures including existing footing foundations and pavements, covering the exposed soils hydro-seed to create a temporary neighborhood park. We opine that based on the conditions observed, treatment of soils during the grading efforts for the neighborhood park will not be required provided excavations are not performed to depths below 7 feet.

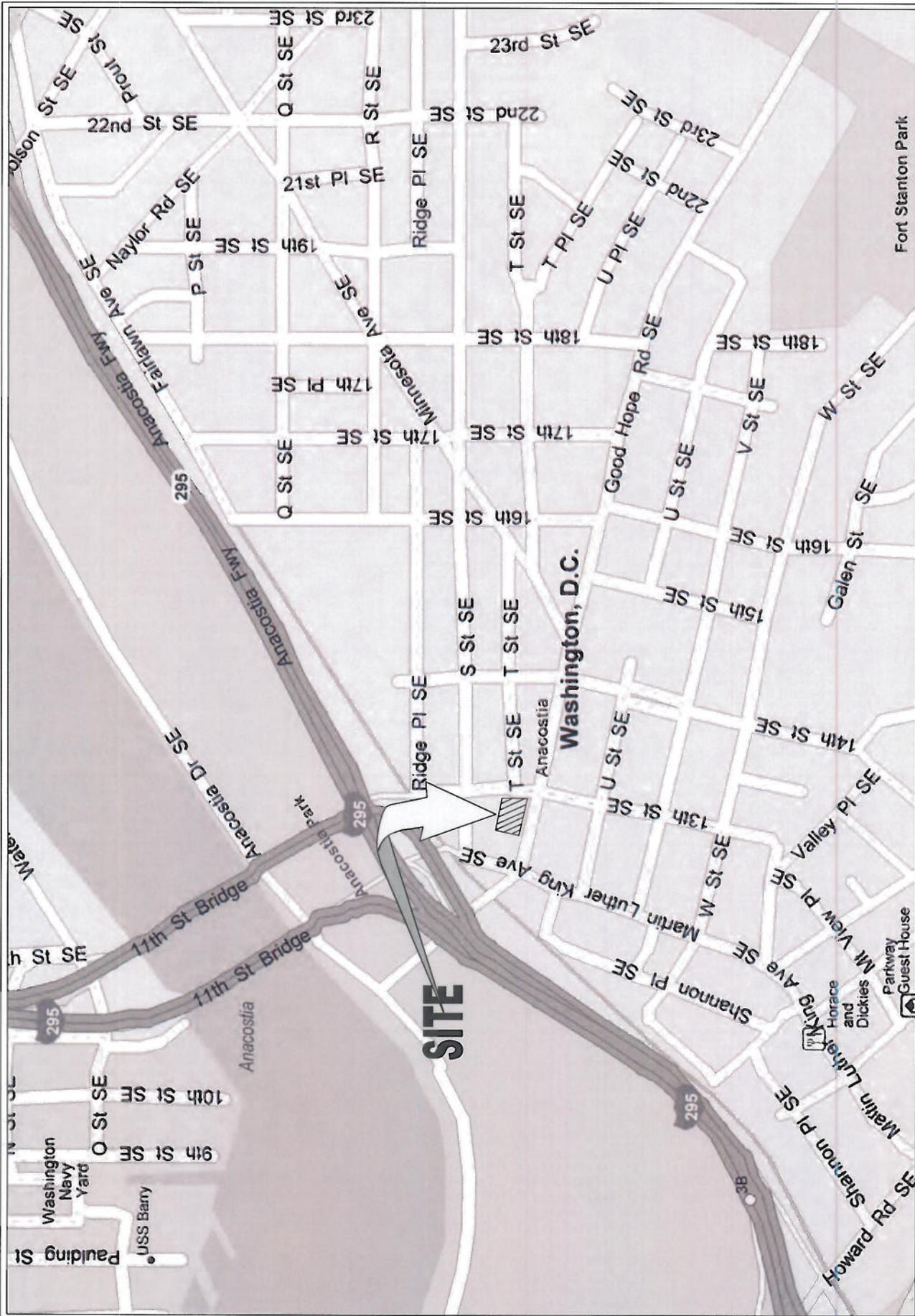
Conversely, the site's soil and groundwater will require treatment prior to disposal if excavations are taken to depths below 7 feet. Because of the potential contamination, treatment of groundwater from the dewatering shall be considered before the water is released into the area's rivers. Measures to protect workers during construction and to protect the occupants of future structures against exposure to the volatile organic compounds should be considered during design and construction of structures with excavations below 7 feet.

6.0 LIMITATIONS

This report has been prepared to aid in the evaluation of the site based on limited field soil and groundwater sampling and laboratory chemical testing. This report is intended for the exclusive use of Diversified Engineering, Inc. and/or the Owner of the parcel at 1234 Good Hope Road in Southeast Washington, DC. The report may not be relied upon by any other party without the express written permission of TLB. The conclusions are based on observation of existing site condition; our interpretation of site history and site usage information; and the results of a limited program of subsurface assessment, sample screening, and chemical testing. TLB did not assess areas other than those discussed in the report.

The water level observations and geologic descriptions presented on the accompanying logs have been made with reasonable care and accuracy, but must be considered only an approximate representation of subsurface conditions to be encountered beyond a particular exploratory location. The concentration of contaminants TLB 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 beneath structures are of the same quality as those sampled. Recognize, too, that contamination might exist in forms not indicated by the assessment TLB conducted. Changes in regulations, interpretations, and/or enforcement policies may occur at any time and such changes could affect the extent of remediation required. Any additional information about this site that becomes available should be provided to TLB for its review, so TLB can modify its recommendations as necessary.



NOTE: THIS DRAWING WAS PREPARED USING MICROSOFT STREETS & TRIPS

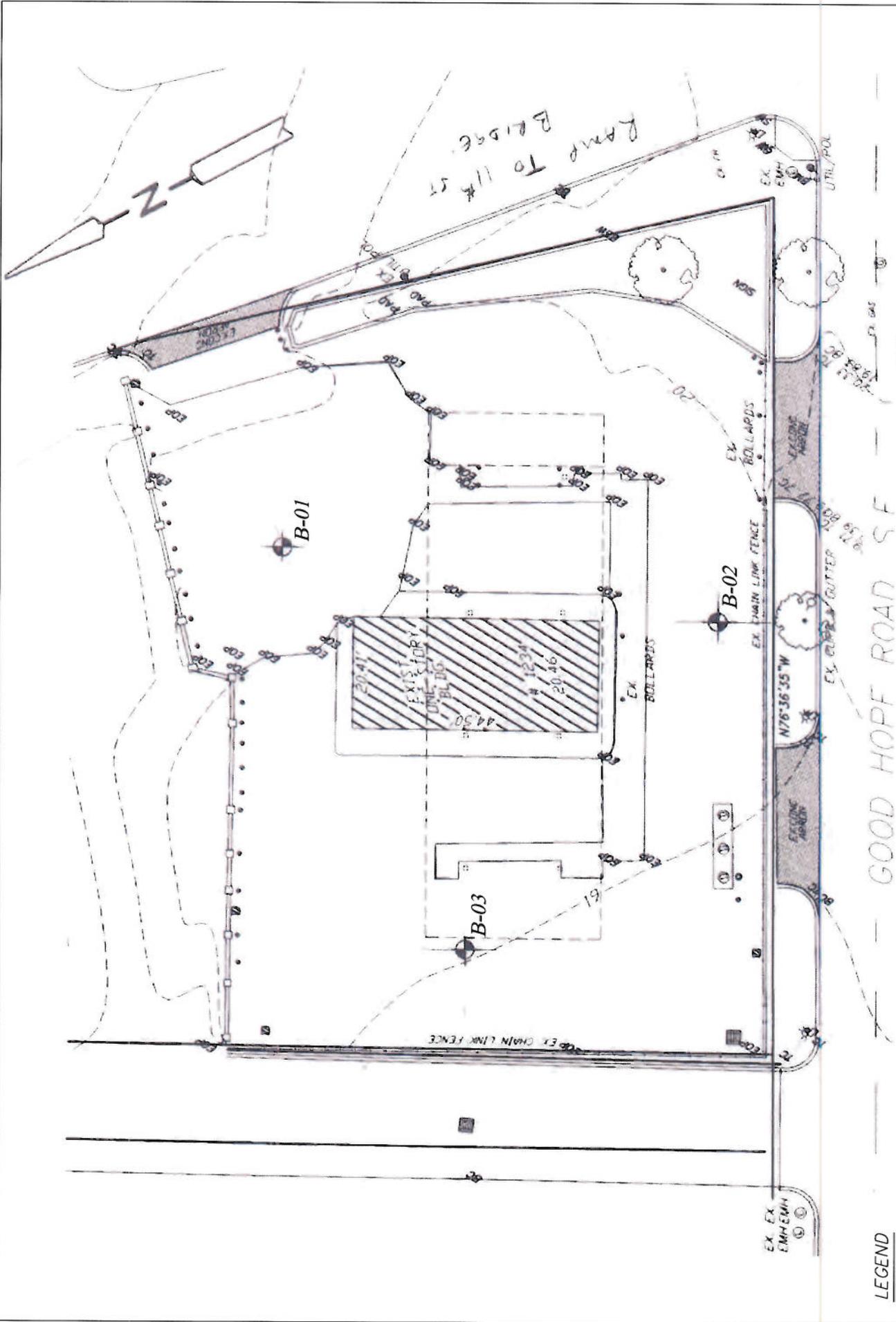


THOMAS L. BROWN ASSOCIATES, P.C.
WASHINGTON, DC.

FORMER AMOCO SERVICE STATION
1234 GOOD HOPE ROAD, SOUTHEAST,
WASHINGTON, DC.

SITE LOCATION PLAN

DATE: 04/13/09	DRAWN BY: LL	APPROVED BY: TLB
SCALE: N.T.S.	CHECKED BY: SN	DRAWING NO.: 1



NOTE: THIS DRAWING WAS PREPARED FROM A DRAWING PROVIDED BY DIVERSIFIED ENGINEERS, INC. OF WASHINGTON, DC.

SITE EXPLORATION PLAN

DATE: 04/13/09	DRAWN BY: LL	APPROVED BY: TLB
SCALE: N.T.S.	CHECKED BY: SN	DRAWING NO.: 2

FORMER AMOCO SERVICE STATION
 1234 GOOD HOPE ROAD, SOUTHEAST,
 WASHINGTON, DC.

LEGEND

LOCATION OF TEST BORINGS CONDUCTED BY THOMAS L. BROWN ASSOCIATES, P.C. OF WASHINGTON, DC DURING MARCH 2009.
 B-1



THOMAS L. BROWN ASSOCIATES, P.C.
 WASHINGTON, DC.

APPENDIX A
RECORDS OF SOIL EXPLORATION

GENERAL CLASSIFICATION SUMMARY FOR SOIL AND ROCK EXPLORATION

SOIL

<u>Particle Size Identification</u>		<u>Relative Proportions</u>	
Boulders	- 12 inch diameter or more	<u>Descriptive Term</u>	<u>Percent</u>
Cobbles	- 3 to 12 inch diameter	Trace	1 - 10
Gravel	- Coarse - 3/4 to 3 inches	Little	11 - 20
	- Fine - 4.75mm to 3/4 inch	Some	21 - 35
Sand	- Coarse - 2.00mm to 4.75 mm [Sieve #10 to #4]	Adjective	36 - 50
	- Medium - 0.4mm to 2.00mm [Sieve #40 to #10]	Noun	50 or more
	- Fine - 0.075mm to 0.4mm [Sieve #200 to #40]		
Silt/Clay	- less than 0.075mm (Cannot see particles)		
Silt	- Atterberg limits plot below "A" line		
Clay	- Atterberg limits plot above "A" line		

COHESIONLESS SOILS

<u>Density</u>	<u>N-Value</u>
Very loose	- 5 blows/ft. or less
Loose	- 6 to 10 blows/ft.
Medium Dense	- 11 to 30 blows/ft.
Dense	- 31 to 50 blows/ft.
Very Dense	- 51 blows/ft. or more

COHESIVE SOILS

<u>Consistency</u>	<u>N-Value</u>
Very Soft	- 3 blows/ft. or less
Soft	- 4 to 5 blows/ft.
Medium Stiff	- 6 to 10 blows/ft.
Stiff	- 11 to 15 blows/ft.
Very Stiff	- 16 to 30 blows/ft.
Hard	- 31 blows/ft. or more

Classifications on logs are made by visual inspection.

Standard Penetration Test - Driving a 2.0" O.D., 1 3/8" I.D., sampler a distance of 1.0 foot into undisturbed soil with a 140 pound hammer free falling a distance of 30.0 inches. It is customary for us to drive the spoon 6.0 inches of penetration to seat into undisturbed soil, and then perform the test. The number of hammer blows for seating the spoon and making the tests are recorded for each 6.0 inches of penetration on the drill log (Example: 6-8-9). The standard penetration test resistance or "N"-value can be obtained by adding the last two figures (i.e., 8 + 9 = 17 blows/ft.).

Strata Changes - In the column "Soil Descriptions" on the drill log, the horizontal lines represent estimated strata changes.

Groundwater observations were made at the times indicated. Porosity of soil strata, weather conditions, site topography, etc., may cause changes in the water levels indicated on the logs.

ROCK

Rock Quality Designation (RQD) - The sum of the lengths of pieces of recovered core which are greater than four inches in length, expressed as a percentage of the total length of the core run. If the core has been broken by the drilling process, it is considered to be intact provided the broken fragments are cumulatively greater than 4 inches in length. For this investigation, vertical separations which split the core have not been considered discontinuities when determining RQD.

Recovery (REC) - The total length of core recovered expressed as a percentage of the total length of that coring run.

ROCK CLASSIFICATION

Decomposed Rock
Weathered/Highly Jointed Rock
Moderately Jointed to Jointed
Relatively Sound to Sound

ROD

N/A
0 - 50
50 - 75
75 - 100

DRILLING METHOD

Rotary or Auger Drilling with SPT N-value > 100 blows/foot
Requires Diamond Core Drilling
Requires Diamond Core Drilling
Requires Diamond Core Drilling



RECORD OF SOIL / ROCK EXPLORATION

Contracted With Diversified Engineers, Inc. Boring # B-01
 Project Name Former Amoco Service Station Job # 09-009-PC
 Location 1234 Good Hope Road, SE, Washington, D.C.

SAMPLER

Datum _____ Hammer Wt. 140 lb Hole Diameter 4 in Foreman O. Gomez
 Surf. Elev. 19.0 ± ft Hammer Drop 30 in Rock Core Dia. N/A Inspector E. Assam
 Date Started 3/27/09 Spoon Size 2 in Boring Method HSA Date Completed 3/28/09

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE					BORING & SAMPLE NOTES
					Cond	Blows/6"	No.	Type	Rec (in)	
18.5	6" of GRAVEL Brown, moist, very dense, SAND, little gravel, trace silt, brick and organics, organic odor, (FILL)	0.5			I/D	40-37-32	1	DS	18	1. Water encountered at 19.0 ft. 2. VOC Readings (ppm): S-1: 4.5 S-2: 5.1 S-3: 1.2 S-4: 0.3 S-5: 0.0 S-6: 1135 S-7: 361 S-8: 66.4 S-9: 87.9 S-10: 28.3 S-11: 17.2 S-12: 0.2 3. Sample # 6 was sent to the Maryland Spectral Services laboratory for chemical testing based on highest level of volatile organic compound readings above. 4. Ground water sample was collected and sent to the Maryland Spectral Services laboratory for chemical testing on completion of drilling.
14.5	Brown, moist to wet, medium dense to loose, well-graded SAND, little clay and organics, (POSSIBLE FILL)	4.5			D	32-34-21	2	DS	14	
					D	8-6-7	3	DS	16	
					D	6-9-8	4	DS	12	
					D	5-4-4	5	DS	16	
7.0					12.0		I/D	9-10-18	6	
4.5	Gray and brown, moist to saturated, soft to medium stiff, CLAY, little fine sand, petroleum odor (USCS: CL)	14.5			I	9-3-3	7	DS	16	
					I	5-5-5	8	DS	18	
					I	3-2-2	9	DS	18	
					I	3-3-4	10	DS	18	
					I	2-3-5	11	DS	18	
-9.0					28.0		I	5-5-5	12	
	Bottom of Boring at 28.0 ft									

RECORD OF SOIL EXPLORATION BORING LOGS.GPJ PROJECT.GDT 4/20/09

SAMPLER TYPE	SAMPLE CONDITIONS	GROUNDWATER DEPTH	BORING METHOD
DS - DRIVEN SPLIT SPOON PT - PRESSED SHELBY TUBE CA - CONTINUOUS FLIGHT AUGER RC - ROCK CORE	D - DISINTEGRATED I - INTACT U - UNDISTURBED L - LOST	AT COMPLETION <u>dry</u> ft AFTER <u>24.0</u> HRS. <u>24.0</u> ft AFTER 24 HRS. <u>12.0</u> ft CAVED AT <u>26.0</u> ft	HSA - HOLLOW STEM AUGERS CFA - CONTINUOUS FLIGHT AUGERS DC - DRIVING CASING MD - MUD DRILLING
STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30": COUNT MADE AT 6" INTERVALS			



RECORD OF SOIL / ROCK EXPLORATION

Contracted With Diversified Engineers, Inc. Boring # B-02
 Project Name Former Amoco Service Station Job # 09-009-PC
 Location 1234 Good Hope Road, SE, Washington, D.C.

SAMPLER

Datum _____ Hammer Wt. 140 lb Hole Diameter 4 in Foreman O. Gomez
 Surf. Elev. 20.0 ± ft Hammer Drop 30 in Rock Core Dia. N/A Inspector E. Assam
 Date Started 3/27/09 Spoon Size 2 in Boring Method HSA Date Completed 3/28/09

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE					BORING & SAMPLE NOTES
					Cond	Blows/6"	No.	Type	Rec (in)	
19.7	4" of CONCRETE	0.3	X X X X							1. Water encountered at 9.0 ft. 2. VOC Readings (ppm): S-1: 0.0 S-2: 0.0 S-3: 0.0 S-4: 103 S-5: 45.7 S-6: 1210 S-7: 125 S-8: 71.4 S-9: 34.6 S-10: 11.3 3. Sample # 6 was sent to the Maryland Spectral Services laboratory for chemical testing based on highest level of volatile organic compound readings above. 4. Ground water sample was collected and sent to the Maryland Spectral Services laboratory for chemical testing on completion of drilling.
	3" of GRAVEL BASE	0.6	X X X X							
19.4	Reddish-brown, moist, very stiff, fine, sandy CLAY , trace brick, (FILL)	2.0	X X X X		I	5-9-9	1	DS	12	
18.0	Reddish-brown, moist, medium dense, clayey SAND , trace gravel		X X X X	5	I/D	9-10-12	2	DS	14	
			X X X X		D	12-12-11	3	DS	18	
12.5	Reddish-brown and gray, wet to saturated, very stiff, fine to medium, sandy SILT , trace gravel	7.5	X X X X	10	D	4-8-13	4	DS	16	
9.5	Brown and gray, wet, medium dense, well-graded SAND , and gravel, little clay	10.5	X X X X		D	9-16-13	5	DS	10	
6.0	Gray, saturated, loose, clayey SAND , trace gravel, strong petroleum odor	14.0	X X X X	15	I	20-6-4	6	DS	10	
			X X X X		D	2-4-6	7	DS	14	
0.5	Gray and reddish-brown, saturated, medium dense, clayey, fine SAND , little silt, strong petroleum odor (USCS: SM)	19.5	X X X X	20	D	4-5-10	8	DS	10	
			X X X X		D	5-6-8	9	DS	18	
-7.0	Gray, saturated, stiff, fine, sandy CLAY , petroleum odor	27.0	X X X X	25						
-8.0	Bottom of Boring at 28.0 ft	28.0	X X X X	30	I/D	4-3-6	10	DS	18	

RECORD OF SOIL EXPLORATION, BORING LOGS.GPJ PROJECT.GDT 4/20/09

SAMPLER TYPE	SAMPLE CONDITIONS	GROUNDWATER DEPTH	BORING METHOD
DS - DRIVEN SPLIT SPOON PT - PRESSED SHELBY TUBE CA - CONTINUOUS FLIGHT AUGER RC - ROCK CORE	D - DISINTEGRATED I - INTACT U - UNDISTURBED L - LOST	AT COMPLETION <u>21.0</u> ft AFTER _____ HRS. _____ ft AFTER 24 HRS. <u>24.0</u> ft CAVED AT <u>24.5</u> ft	HSA - HOLLOW STEM AUGERS CFA - CONTINUOUS FLIGHT AUGERS DC - DRIVING CASING MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30": COUNT MADE AT 6" INTERVALS



RECORD OF SOIL / ROCK EXPLORATION

Contracted With Diversified Engineers, Inc. Boring # B-03
 Project Name Former Amoco Service Station Job # 09-009-PC
 Location 1234 Good Hope Road, SE, Washington, D.C.

SAMPLER

Datum _____ Hammer Wt. 140 lb Hole Diameter 4 in Foreman O. Gomez
 Surf. Elev. 18.0 ± ft Hammer Drop 30 in Rock Core Dia. N/A Inspector E. Assam
 Date Started 3/27/09 Spoon Size 2 in Boring Method HSA Date Completed 3/28/09

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE					BORING & SAMPLE NOTES
					Cond	Blows/6"	No.	Type	Rec (in)	
17.6	5" of CONCRETE	0.4								1. Water encountered at 23.0 ft. 2. VOC Readings (ppm): S-1: 7.2 S-2: 4.7 S-3: 2.1 S-4: 13.8 S-5: 37.9 S-6: 1167 S-7: 570 S-8: 189 S-9: 36.5 S-10: 12.9 S-11: 4.5 S-12: 5.2 3. Sample # 6 was sent to the Maryland Spectral Services laboratory for chemical testing based on highest level of volatile organic compound readings above. 4. Ground water sample was collected and sent to the Maryland Spectral Services laboratory for chemical testing on completion of drilling.
17.4	2' of GRAVEL Dark gray and brown, moist, medium dense to loose, silty, clayey, fine to medium SAND , trace gravel, little organics (USCS: SC-SM)	0.6			D	4-6-6	1	DS	14	
					D	6-7-7	2	DS	12	
				5	D	3-2-3	3	DS	10	
11.0	Reddish-brown, moist to wet, loose to medium dense, fine, SAND , little clay, very strong petroleum odor	7.0			D	7-4-5	4	DS	18	
				10	D	6-7-6	5	DS	16	
					D	5-6-11	6	DS	16	
3.5	Brown and green, wet, medium dense, clayey, fine SAND , trace mica, petroleum odor	14.5			D	9-10-10	7	DS	2	
				15	D	4-5-6	8	DS	10	
-1.5	Brown, saturated, medium stiff, CLAY , little fine sand, trace gravel, petroleum odor	19.5			I/D	3-3-5	9	DS	18	
				20	I/D	2-1-6	10	DS	18	
-6.5	Reddish-brown, wet, loose to medium dense, clayey, fine SAND , trace mica, petroleum odor	24.5			D	4-6-6	11	DS	18	
				25	D	4-4-4	12	DS	18	
-10.0	Bottom of Boring at 28.0 ft	28.0								
				30						

RECORD OF SOIL EXPLORATION BORING LOGS.GPJ PROJECT.GDT 4/20/09

SAMPLER TYPE	SAMPLE CONDITIONS	GROUNDWATER DEPTH	BORING METHOD
DS - DRIVEN SPLIT SPOON PT - PRESSED SHELBY TUBE CA - CONTINUOUS FLIGHT AUGER RC - ROCK CORE	D - DISINTEGRATED I - INTACT U - UNDISTURBED L - LOST	AT COMPLETION <u>dry</u> ft AFTER <u>24</u> HRS. <u> </u> ft AFTER 24 HRS. <u>12.5</u> ft CAVED AT <u>26.0</u> ft	HSA - HOLLOW STEM AUGERS CFA - CONTINUOUS FLIGHT AUGERS DC - DRIVING CASING MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30": COUNT MADE AT 6" INTERVALS

APPENDIX B
LABORATORY TEST RESULTS

MARYLAND SPECTRAL SERVICES, INC.
 1500 Caton Center Drive Baltimore, MD 21227

VOLATILE AROMATICS BY EPA METHODS 5030/8021

CLIENT SAMPLE ID:	B-01 S6	B-02 S6	B-03 S6	BBLK0330E1M	BBLK0401D1
	MLK JR AVE	MLK JR AVE	MLK JR AVE		
LAB SAMPLE ID:	09033011	09033012	09033013	METHOD BLANK	METHOD BLANK
SAMPLE DATE:	03/27/09	03/01/27	03/27/09		
RECEIVED DATE:	03/30/09	03/30/09	03/30/09		
ANALYSIS DATE:	03/30/09	04/01/09	03/30/09	03/30/09	04/01/09
FILE NAME:	033011MD	033012DR	033013M	0330BBLKE1	0401BBLKD1
INSTRUMENT ID:	GC-E	GC-D	GC-E	GC-E	GC-D
% MOISTURE:	8	10	12	N/A	N/A
MATRIX:	MEDIUM SOIL	SOIL	MEDIUM SOIL	MEDIUM SOIL	SOIL
UNITS:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
DILUTION FACTOR:	4.0	2.0	1.0	1.0	1.0

VOLATILE COMPOUNDS (Results reported on a dry-weight basis)

Benzene	1090 U	4.4 U	284 U	250 U	2.0 U
Toluene	1140	5.6	284 U	250 U	2.0 U
Ethylbenzene	11000	199	384	250 U	2.0 U
Xylenes (total)	69600	30	568 U	500 U	4.0 U
Methyl-t-Butyl Ether	2170 U	8.9 U	568 U	500 U	4.0 U
Naphthalene	21400	17	568 U	500 U	4.0 U

B - Detected in lab blank U - Below reported quantitation level J - Estimated value
 ug/kg = Microgram per kilogram (parts per billion)

MARYLAND SPECTRAL SERVICES, INC.
 1500 Caton Center Drive Baltimore, MD 21227

GASOLINE RANGE ORGANICS (API) BY EPA METHODS 5030/8015

CLIENT SAMPLE ID:	B-01 S6	B-02 S6	B-03 S6	BBLK0330E1M	BBLK0401D1
	MLK JR AVE	MLK JR AVE	MLK JR AVE		
LAB SAMPLE ID:	09033011	09033012	09033013	METHOD BLANK	METHOD BLANK
SAMPLE DATE:	03/27/09	03/01/27	03/27/09		
RECEIVED DATE:	03/30/09	03/30/09	03/30/09		
ANALYSIS DATE:	03/30/09	04/01/09	03/30/09	03/30/09	04/01/09
FILE NAME:	033011MD	033012DR	033013M	0330BBLKE1	0401BBLKD1
INSTRUMENT ID:	GC-E	GC-D	GC-E	GC-E	GC-D
% MOISTURE:	8	10	12	N/A	N/A
MATRIX:	MEDIUM SOIL	SOIL	MEDIUM SOIL	MEDIUM SOIL	SOIL
UNITS:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DILUTION FACTOR:	4.0	2.0	1.0	1.0	1.0
PARAMETER	(Results reported on a dry-weight basis)				

Gasoline Range Organics (API)	<u>870</u>	<u>8.42</u>	<u>87.8</u>	12.5 U	0.100 U

B - Detected in lab blank U - Below reported quantitation level J - Estimated value
 mg/kg = Milligram per kilogram (parts per million)

MARYLAND SPECTRAL SERVICES, INC.
 1500 Caton Center Drive, Baltimore MD 21227

DIESEL-RANGE ORGANICS (DRO) BY METHODS 3540/8015 (GC/FID)

CLIENT SAMPLE ID:	B-01 S6	B-02 S6	B-03 S6	090330SBLK
	MLK JR AVE	MLK JR AVE	MLK JR AVE	
LAB SAMPLE ID:	09033011D	09033012	09033013	METHOD BLANK
SAMPLE DATE:	03/27/09	03/27/09	03/27/09	
RECEIVED DATE:	03/30/09	03/30/09	03/30/09	
EXTRACTION DATE:	03/30/09	03/30/09	03/30/09	03/30/09
ANALYSIS DATE:	03/31/09	03/31/09	03/31/09	03/31/09
INSTRUMENT ID:	GC-B	GC-B	GC-B	GC-B
% MOISTURE:	8	10	12	N/A
MATRIX:	SOIL	SOIL	SOIL	SOIL
UNITS:	mg/kg	mg/kg	mg/kg	mg/kg
DILUTION FACTOR:	10	1.0	1.0	1.0
PARAMETER	(Results reported on a dry-weight basis)			

Diesel-Range Organics (API)	660	25	38	10 U

Surrogate Recovery				
o-Terphenyl	94%	67%	85%	91%

mg/kg - Milligrams per kilogram (parts per million)
 U - Less than reported quantitation limit
 DL - Surrogate diluted out

The above analyses were performed as described in the American Petroleum Institute's "Method for Determination of Diesel Range Organics (1990)"

MARYLAND SPECTRAL SERVICES, INC.
 1500 Caton Center Drive Baltimore, MD 21227

VOLATILE ORGANICS BY EPA GC/MS METHOD 8260

CLIENT SAMPLE ID:	B-01	B-02	B-03	VBLK033001
	MLK JR AVE	MLK JR AVE	MLK JR AVE	
LAB SAMPLE ID:	09033014	09033015	09033016	METHOD BLANK
SAMPLE DATE:	03/28/09	03/27/09	03/27/09	
RECEIVED DATE:	03/30/09	03/30/09	03/30/09	
ANALYSIS DATE:	03/30/09	03/30/09	03/30/09	03/30/09
FILE NAME:	033014D	033015	033016	0330VBLK01
INSTRUMENT ID:	MSD	MSD	MSD	MSD
MATRIX:	WATER	WATER	WATER	WATER
UNITS:	ug/L	ug/L	ug/L	ug/L
DILUTION FACTOR:	5.0	1.0	1.0	1.0

VOLATILE COMPOUNDS

Benzene	<u>25</u> U	<u>8.1</u>	<u>4.2</u> J	5.0 U
Ethylbenzene	<u>158</u>	5.0 U	<u>22</u>	5.0 U
Methyl-t-Butyl Ether (MTBE)	<u>779</u>	<u>21</u>	<u>27</u>	5.0 U
Naphthalene	<u>117</u>	5.0 U	<u>89</u>	5.0 U
Toluene	<u>33</u>	5.0 U	5.0 U	5.0 U
o-Xylene	<u>250</u>	5.0 U	<u>3.0</u> J	5.0 U
m+p-Xylenes	<u>725</u>	5.0 U	<u>8.0</u>	5.0 U

B - Detected in lab blank U - Below reported quantitation level J - Estimated value
 ug/L = Microgram per liter (parts per billion)

ATTACHMENT B
SITE VISIT SIGN IN SHEET

MEETING ATTENDEES - Project: Anacostia Government Center

Date: 10/28/09

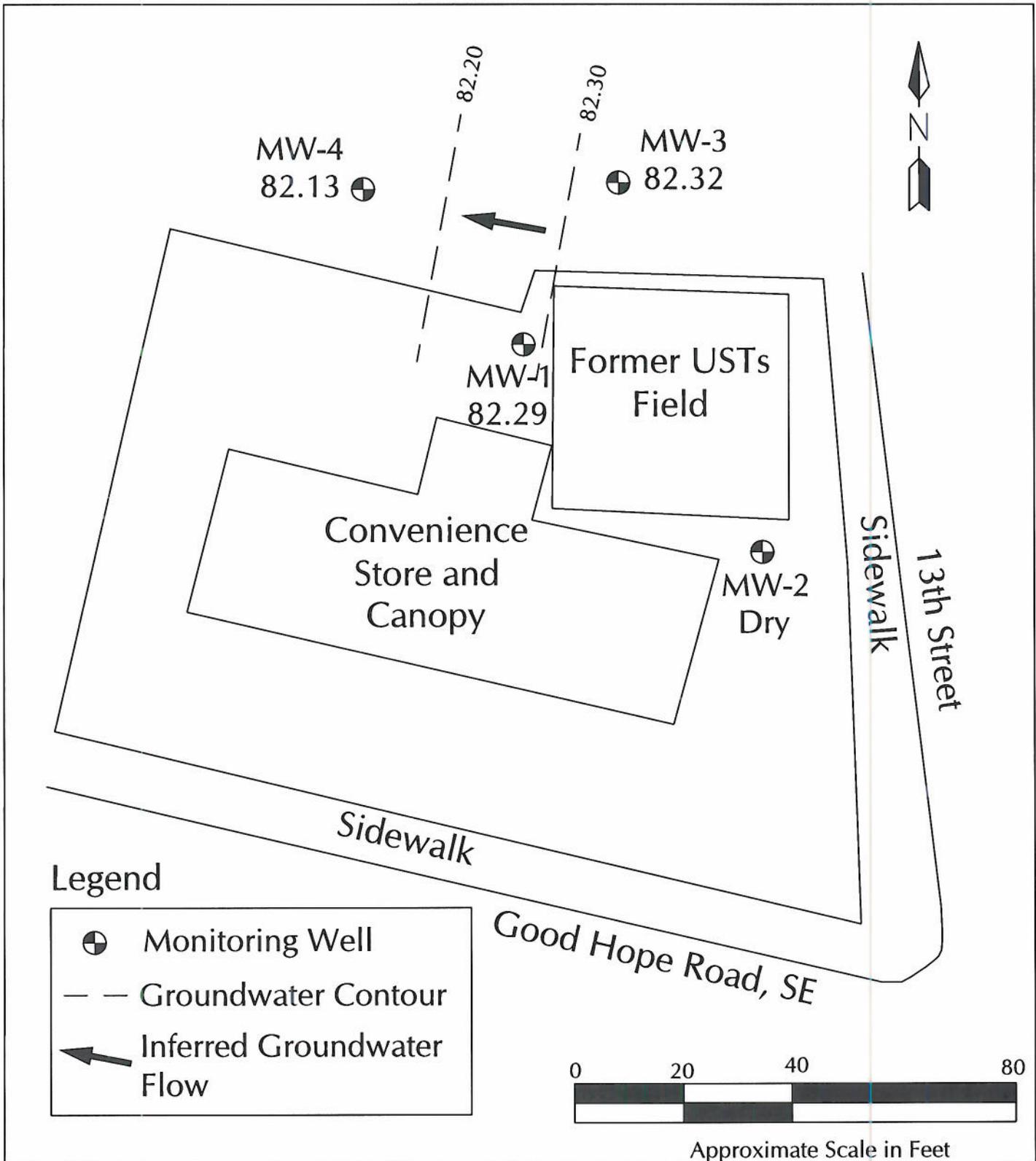
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Silvia Silverman	DRES C&P	Silvia.Silverman@dres.gov	202-671-1359

ATTACHMENT C

Items included as a result of Site Visit on 10/28/09

Section C.1.2 Scope of Work Insert the following

- F. Remove all brick walls at the perimeter of the subject property.
- G. Cap waterlines at the Street. The Contractor shall be responsible for obtaining the necessary WASA permits.
- H. Remove all concrete curb located just outside the existing chain link fence.
- I. Provide a chain link fence with one vehicle access gate to the site along Good Hope Road.
- J. Existing tree on site requires removal; the Contractor shall be responsible for obtaining the associated permit for removal.
- K. All existing environmental monitoring wells shall be protected and preserved during the project. Please see attached Figure 2 for the locations of the wells.



Apex Companies, LLC
 15850 Crabbs Branch Way
 Suite 200
 Rockville, MD 20855
 (301) 417-0200
 (301) 975-0169 (FAX)

Figure 2 Groundwater Contour Map

1234 Good Hope Road, SE
 Washington DC.

Date: 10/15/09	Drawn By: MJO	Project Number: 12288.001
Cad File: FIG_2	Scale: As Shown	Client: DC DRES