

UST-61

24-Hour Release and UST Leak Reporting Form.

For Releases in NC

This form should be completed and submitted to the UST Section's regional office following a known or suspected release from an underground storage tank (UST) system. This form is required to be submitted within 24 hours of discovery of a known or suspected release

(DWM USE ONLY)
Incident # _____ Risk (H,I,L,U) _____
Received On _____ Received By _____
Reported by (circle one): Phone, Fax or Report Region _____

Suspected Contamination? (Y/N) Y
Confirmed GW Contamination? (Y/N) Y
Confirmed Soil Contamination? (Y/N) Y
Samples Taken? (Y/N) Y
Free Product? (Y/N) N If Yes, State Greatest Thickness _____

Facility ID Number _____
Date Leak Discovered 12/10/13
Comm/Non-Commercial? Comm
Reg/Non-regulated? Non-regulated

INCIDENT DESCRIPTION

Incident Name: Charlotte NCW-703

Address: 1100 West Trade Street

County: Mecklenberg

City/Town: Charlotte

Zip Code: 28202

Regional Office (circle one): Asheville, Mooreville, Fayetteville, Raleigh, Washington, Wilmington, Winston-Salem

Latitude (decimal degrees): 35.2356

Longitude (decimal degrees) : -80.8539

Briefly describe suspected or confirmed release: (including but not limited to: nature of release, date of release, amount of release, amount of free product present and recovery efforts, initial responses conducted, impacts to receptors)

Site is a 1.27-acre parcel of vacant land. Tetra Tech, Inc. performed a site assessment on

November 15, 2013. Six borings were advanced to refusal. A single exceedance for C9-C10

aromatics was detected in soil boring SB-1 and a single exceedance for EPH in groundwater

was detected in SB-6. Table with analytical results and a figure showing the boring locations

is attached.

Obtained by:

- GPS
 Topographic map
 GIS Address matching
 Other
 Unknown

Describe location:

HOW RELEASE WAS DISCOVERED (Release Code)

(Check one)

- | | | |
|---|--|---|
| <input type="checkbox"/> Release Detection Equipment or Methods | <input type="checkbox"/> Visual/Odor | <input type="checkbox"/> Groundwater Contamination |
| <input type="checkbox"/> During UST Closure/Removal | <input type="checkbox"/> Water in Tank | <input type="checkbox"/> Surface Water Contamination |
| <input type="checkbox"/> Property Transfer | <input type="checkbox"/> Water Supply Well Contamination | <input checked="" type="checkbox"/> Other (specify) <u>Due diligence of property condition.</u> |

SOURCE OF CONTAMINATION

Source of Release

(Check one to indicate primary source)

- Tank
 Piping
 Dispenser
 Submersible Turbine Pump
 Delivery Problem
 Other
 Unknown

Definitions presented on reverse

Cause of Release

(Check one to indicate primary cause)

- Spill
 Overfill
 Corrosion
 Physical or Mechanical Damage
 Install Problem
 Other
 Unknown

Definitions presented on reverse

Type of Release

(Check one)

- Petroleum
 Non-Petroleum
 Both

Location

(Check one)

- Facility
 Residence
 Other

Product Type Released

(Check one to indicate primary product type released)

- | | |
|--|--|
| <input type="checkbox"/> Gasoline/ Diesel/ Kerosene | <input type="checkbox"/> Diesel/Veg. Oil Blend |
| <input type="checkbox"/> Heating Oil | <input type="checkbox"/> Vegetable Oil 100% |
| <input checked="" type="checkbox"/> Other Petroleum Products | <input type="checkbox"/> E10 - E20 |
| <input type="checkbox"/> Metals | <input type="checkbox"/> E21 - E84 |
| <input type="checkbox"/> Other Inorganics | <input type="checkbox"/> E85 - E99 |
| <input type="checkbox"/> Other Organics | <input type="checkbox"/> Ethanol 100% |
| | <input type="checkbox"/> E01 - E09 |

Ownership

1. Municipal 2. Military 3. Unknown 4. Private 5. Federal 6. County 7. State

Operation Type

1. Public Service 2. Agricultural 3. Residential 4. Education/Relig. 5. Industrial 6. Commercial 7. Mining vacant parcel

IMPACT ON DRINKING WATER SUPPLIES

Water Supply Wells Affected? 1. Yes 2. No 3. Unknown

Number of Water Supply Wells Affected _____

Water Supply Wells Contaminated: *(Include Users Names, Addresses and Phone Numbers. Attach additional sheet if necessary)*

1.
2.
3.

UST SYSTEM OWNER

UST Owner/Company _____

Point of Contact	Address
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City	State	Zip Code	Telephone Number
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UST SYSTEM OPERATOR

UST Operator/Company	Address
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City	State	Zip Code	Telephone Number
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LANDOWNER AT LOCATION OF UST INCIDENT

Landowner Bank of America Corporate Workplace	Address 1020 N. French Street
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City Wilmington	State DE	Zip Code 19884	Telephone Number 302-420-8131
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Draw Sketch of Area (showing two major road intersections) or Attach Map

Figure attached

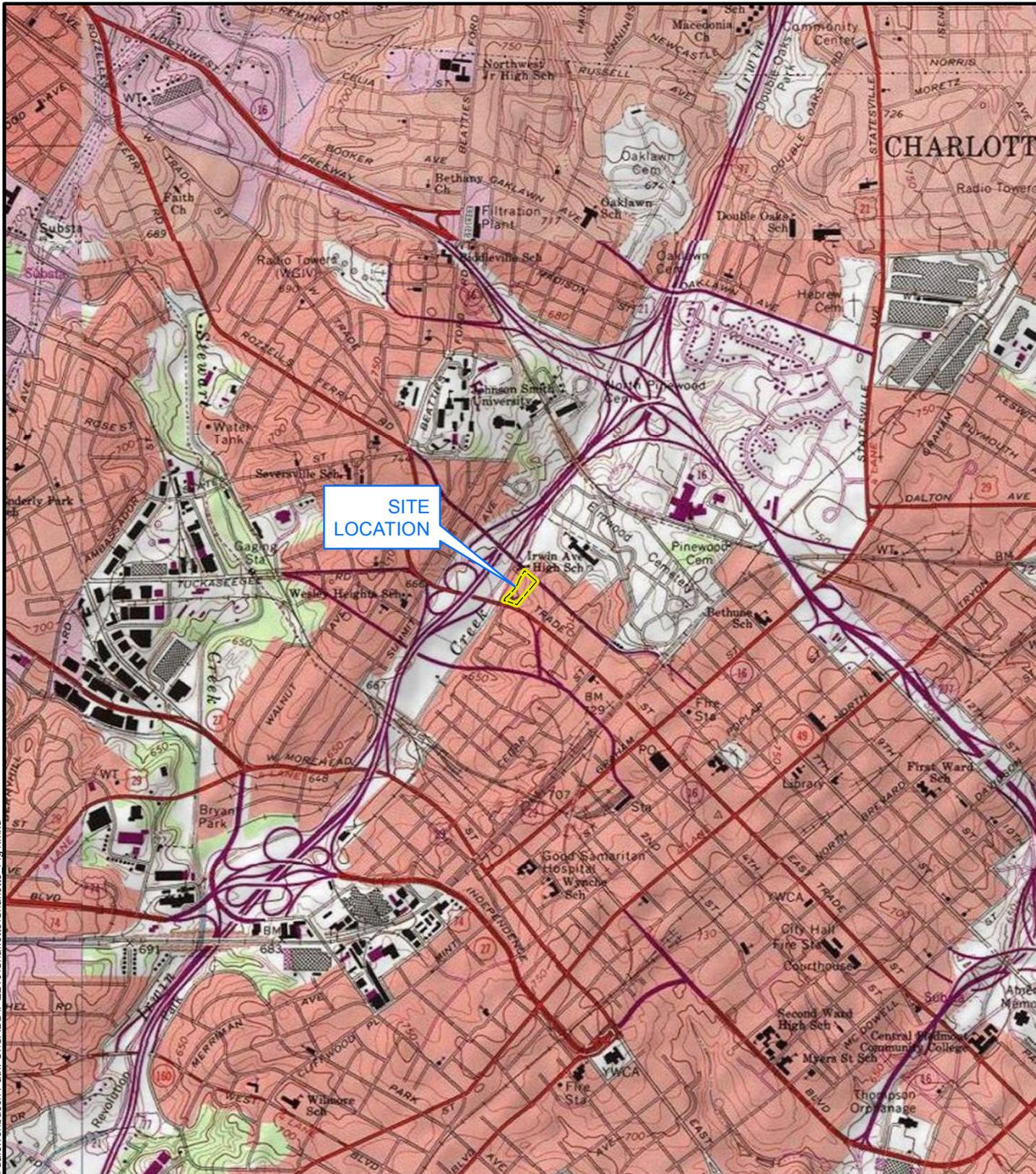
Person Reporting Incident Ron Grover	Company Tetra Tech, Inc.	Telephone Number 615-347-4763
Title Operations Manager	Address 712 Melrose Ave., Nashville, TN 37211	Date December 11, 2013

Definitions of Sources

- Tank: means the tank that stores the product and is part of the underground storage tank system
- Piping: means the piping and connectors running from the tank or submersible turbine pump to the dispenser or other end-use equipment (Vent, vapor recovery, or fill lines are excluded.)
- Dispenser: includes the dispenser and the equipment used to connect the dispenser to the piping (e.g., a release from a suction pump or from components located above the shear valve)
- Submersible Turbine Pump (STP) Area includes the submersible turbine pump head (typically located in the tank sump), the line leak detector, and the piping that connects the submersible turbine pump to the tank
- Delivery Problem: identifies releases that occurred during product delivery to the tank. (Typical causes associated with this source are spills and overfills.)
- Other: serves as the option to use when the release source is known but does not fit into one of the preceding categories (e.g., for releases from vent lines, vapor recovery lines, and fill lines)
- Unknown: identifies releases for which the source has not been determined

Definitions of Causes

- Spill: use this cause when a spill occurs (e.g., when the delivery hose is disconnected from the tank fill pipe or when the nozzle is removed from the dispenser)
- Overfill: use when an overfill occurs (e.g., overfills may occur from the fill pipe at the tank or when the nozzle fails to shut off at the dispenser)
- Physical or Mechanical Damage: use for all types of physical or mechanical damage, except corrosion (e.g., puncture of tank or piping, loose fittings, broken components, and components that have changed dimension)
- Corrosion: use when a metal tank, piping, or other component has a release due to corrosion (e.g., for steel, corrosion takes the form of rust)
- Installation Problem: use when the problem is determined to have occurred specifically because the UST system was not installed properly
- Other: use this option when the cause is known but does not fit into one of the preceding categories (e.g., putting regulated substances into monitoring wells)
- Unknown: use when the cause has not been determined



SITE
LOCATION

 Property Boundary



0 1,000 2,000
Feet

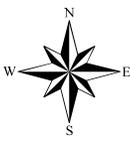
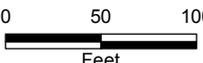
CHARLOTTE - NCW-703
1100 WEST TRADE STREET
CHARLOTTE, NORTH CAROLINA

FIGURE 1
SITE LOCATION MAP



Date Saved: 12/9/2013 11:03:38 AM User: date.vonbusch Path: C:\CADD\IP2210\Charlotte\Charlotte Borings.mxd



	Property Boundary		Direction of Groundwater Flow
	Former Tank Area	 	
	Former Soil Stockpiles		
	Soil Boring Location		

<p>CHARLOTTE - NCW-703 1100 WEST TRADE STREET CHARLOTTE, NORTH CAROLINA</p>
<p>FIGURE 2 BORING LOCATION MAP</p>


SOURCE: MODIFIED FROM BING MAPS HYBRID, 2011-2012.

TABLE 1: SOIL BORING SUMMARY AND ANALYTICAL RESULTS

Soil Boring ID	SB-1	SB-1	SB-2	SB-3	SB-3	SB-4	SB-4	SB-5	SB-5	SB-6	Regulatory Limits ¹		
PID (mg/kg)	503	17.1	0.1	0.3	0.2	0.2	2.5	0.0	0.0	0.1	Residential Soil Cleanup Levels (mg/kg)	Industrial/ Commercial Soil Cleanup Levels (mg/kg)	
Sample Depth (ft)	15-17	21-23	7-9	10-12	5-7	10-12	17-19	10-12	12-14	12-14			
Chemicals of Concern(mg/kg) ²													
Analytical Method	Detected Constituent												
VOCs (EPA 8260B)	Acetone	ND	0.0277 J	ND	0.0757	0.0349 J	0.118	0.0360 J	ND	0.0796	ND	14,000	360,000
	Benzene	ND	0.0018 J	ND	ND	ND	0.0045 J	ND	ND	ND	ND	18.0	164
	n-Butylbenzene	17.90	0.0055	ND	ND	ND	ND	ND	ND	ND	ND	626	16,350
	sec-Butylbenzene	6.56	0.0031 J	ND	ND	ND	ND	ND	ND	ND	ND	626	16,350
	Ethylbenzene	33.50	0.176	ND	ND	ND	ND	ND	ND	ND	ND	1,560	40,000
	Isopropylbenzene	11.70	0.0151	ND	ND	ND	ND	ND	ND	ND	ND	1,564	40,880
	p-Isopropyltoluene	3.47	0.0019 J	ND	ND	ND	ND	ND	ND	ND	ND	100	4,000
	Methyl Tert Butyl Ether	0.252 J	0.207	ND	ND	ND	0.0234	ND	ND	ND	ND	350	3,100
	Naphthalene	39.90	0.0995	ND	ND	ND	ND	ND	ND	ND	ND	313	8,176
	n-Propylbenzene	55.40	0.053	ND	ND	ND	ND	ND	ND	ND	ND	626	16,350
	1,2,4-Trimethylbenzene	323.00	0.158 J	ND	ND	ND	ND	ND	ND	ND	ND	782	20,440
	1,3,5-Trimethylbenzene	97.80	0.104	ND	ND	ND	ND	ND	ND	ND	ND	782	20,440
	Toluene	0.0812 J	0.0017 J	ND	ND	ND	ND	ND	ND	ND	ND	1,200	3,200
	Xylene (total)	235.00	0.296 J	ND	ND	ND	ND	ND	ND	ND	ND	3,129	81,760
	m,p-Xylene	184.00	0.219 J	ND	ND	ND	ND	ND	ND	ND	ND	-	-
o-Xylene	51.90	0.21	ND	ND	ND	ND	ND	ND	ND	ND	-	-	
SVOCs (EPA 8270D)	Benzo(a)anthracene	0.0244 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8800	8.00
	Chrysene	0.0237 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	88.0	780
	Fluoranthene	0.0507 J	ND	ND	ND	ND	ND	ND	ND	0.0262 J	ND	620	16,400
	Fluorene	0.0335 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	620	16,400
	1-Methylnaphthalene	2.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.0	100
	2-Methylnaphthalene	6.84	ND	ND	ND	ND	ND	ND	ND	ND	ND	63.0	1,635
	Naphthalene	5.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	313	8,176
	Phenanthrene	0.0638 J	ND	ND	ND	ND	0.0212 J	ND	ND	ND	ND	469	12,264
	Pyrene	0.0475 J	ND	ND	ND	ND	ND	ND	ND	0.0265 J	ND	469	12,264
	Benzo(e)pyrene	ND	ND	ND	ND	ND	0.0834	ND	ND	ND	ND	18.0	164
GC Volatiles (MADEP VPH REV 1.1)	Benzene	ND	0.314	ND	ND	ND	ND	ND	ND	ND	1,560	40,000	
	Ethylbenzene	17.0	0.309	ND	ND	ND	ND	0.155	ND	ND	350	3,100	
	Methyl Tert Butyl Ether	ND	0.309	ND	ND	ND	ND	0.155	ND	ND	350	3,100	
	Naphthalene	24.2	ND	ND	ND	ND	ND	ND	ND	ND	313	8,176	
	Toluene	ND	ND	ND	ND	0.0669 J	ND	ND	ND	ND	1,200	3,200	
	m,p-Xylene	62.9	1.49	ND	ND	ND	0.208 J	ND	ND	ND	-	-	
	o-Xylene	46.9	0.427	ND	ND	ND	0.178	ND	ND	ND	-	-	
	C5- C8 Aliphatics (Unadj.)	ND	ND	ND	ND	ND	4.440 J	ND	ND	ND	ND	939	24,528
	C9- C12 Aliphatics (Unadj.)	389.0	2,310 J	ND	ND	ND	ND	ND	ND	ND	ND	1,900	40,000
	C9- C10 Aromatics (Unadj.)	814.0	2,370 J	ND	ND	ND	ND	ND	ND	ND	ND	469	12,264
GC Semi-volatiles (MADEP EPH REV 1.1)	Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	0.156 J	ND	ND	469	12,264
	2-Methylnaphthalene	9.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	63.0	1,635
	Naphthalene	13.80	0.154 JB	0.177 JB	0.169 J	0.151 JB	0.172 J	0.205 JB	0.205 JB	0.210 J	0.207 JB	313	8,176
	C11-C22 Aromatics (Unadj.)	ND	ND	ND	11,100 JB ^b	ND	10,800 JB ^b	ND	ND	12,100 B ^b	ND	469	12,264
	C11-C22 Aromatics	ND	ND	ND	11,000 JB ^b	ND	10,600 JB ^b	ND	ND	11,900 B ^b	ND	469	12,264
	C9-C18 Aliphatics	914	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,500	40,000
	Chromium	6.3	10	2.3	3.4	13.1 ^c	25.3 ^c	10.5 ^c	29.7 ^c	41.3	91.2	47.0	1,226
Lead	15.7	4.7	2.9	3.4	9.1	36.1	6.1	7.0	11.8	5.0	400	400	

Shaded results indicate a detection above the laboratory MDL; a shaded and bolded detection indicates an exceedence of the applicable MSCC.

Notes:

- ¹ Regulatory values obtained from the North Carolina Department of Environment and Natural Resources, Division of Waste Management, Underground Storage Tank Section, *Guidelines for Assessment and Corrective Action for UST Releases*, Table 1 Maximum Soil Contaminant Concentration Levels (MSCCs), revised April 16, 2012.
- ² Only chemicals detected above the laboratory MDL are presented in this table.
- ^a Result is from run number 2
- ^b Result is from run number 3
- ^c Associated BS recover outside control limits

Acronyms:

- B - Analyte found in associated method blank
- EPA - U.S. Environmental Protection Agency
- EPH - Extractable petroleum hydrocarbons
- ft - Feet
- GC - Gross Contaminant
- ID - Identification
- J - Estimated value
- MDL - Method Detection Limit
- mg/kg - milligrams per kilogram
- MSCC - Maximum Soil Contaminant Concentration
- ND - Not detected above the MDL
- PAH - Polyaromatic hydrocarbons
- PID - Photoionization detector
- RCRA - Resource Conservation Recovery Act
- REV - Revision
- MADEP - Massachusetts Department of Environmental Protection
- SB - Soil boring
- SVOCs - Semi-volatile organic compounds
- Unadj. - Unadjusted
- VOCs - Volatile organic compounds
- VPH - Volatile petroleum hydrocarbons
- - Regulatory Limits Not Established

TABLE 2: GROUNDWATER ANALYTICAL RESULTS

Soil Boring ID (<i>Sample ID</i>)		SB-6 (<i>SB-6</i>)	Regulatory Limits ¹
Total Temporary Well Depth (ft)		35.0	GC Levels for Groundwater (µg/L)
Chemicals of Concern(µg/L) ²			
Analytical Method	Detected Constituent		
GC Semi-volatiles (MADEP EPH REV 1.1)	2-Methylnaphthalene	3.6 J	
	C11-C22 Aromatics (Unadj.)	588	
	C11-C22 Aromatics	583	
			12,500
			31.0
			31.0

Shaded results indicate a detection above the laboratory MDL; a shaded and bolded detection indicates an exceedence of the applicable GC Level.

Notes:

¹ Regulatory values obtained from the North Carolina Department of Environment and Natural Resources, Division of Waste Management, Underground Storage Tank Section, *Guidelines for Assessment and Corrective Action for UST Releases*, Table 2 Gross Contamination Levels for Groundwater, revised April 16, 2012.

² Only chemicals detected above the laboratory MDL are presented in this table.

Acronyms:

EPH - Extractable petroleum hydrocarbons
 ft - Feet
 GC - Gross Contaminant
 ID - Identification
 J - Estimated value
 MDL - Method Detection Limit
 µg/L - Micrograms per Liter
 REV - Revision
 MADEP - Massachusetts Department of Environmental Protection
 SB - Soil boring
 Unadj. - Unadjusted

Technical Report for

Tetra Tech, Inc

Bank of America; 1100 W Trade St, Charlotte, NC

103P221049

Accutest Job Number: FA10093

Sampling Date: 11/15/13

Report to:

**Tetra Tech, Inc
712 Melrose Ave
Nashville, TN 37211
ron.grover@tetrattech.com**

ATTN: Ron Grover

Total number of pages in report: 198



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.


Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001)
DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), PA (68-03573), VA (460177),
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Test results relate only to samples analyzed.