



# LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

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## Montrose Area and Midtown Drainage and Pavement Sub-Project II

**WBS No. M-000290-002-3**  
**City of Houston**

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Project 136524  
December 20, 2013

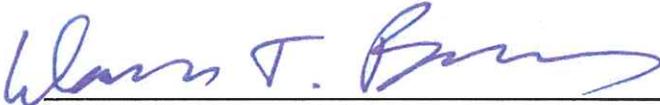
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**LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT**  
**Montrose Area and Midtown Drainage and Pavement Sub-Project II**  
WBS No. M-000290-002-3  
City of Houston

Kleinfelder Project No. 136524  
December 20, 2013

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# TABLE OF CONTENTS

SECTION	PAGE
<b>1 EXECUTIVE SUMMARY .....</b>	<b>1</b>
<b>2 INTRODUCTION.....</b>	<b>2</b>
2.1 SCOPE-OF-SERVICES .....	2
2.2 MODIFICATIONS TO THE SCOPE OF WORK.....	3
2.3 SITE DESCRIPTION.....	3
2.4 LIMITATIONS AND EXCEPTIONS .....	4
2.5 SPECIAL TERMS AND CONDITIONS.....	5
<b>3 PREVIOUS ENVIRONMENTAL INVESTIGATIONS.....</b>	<b>6</b>
<b>4 SITE GEOLOGY/HYDROGEOLOGY .....</b>	<b>8</b>
<b>5 FIELD INVESTIGATION.....</b>	<b>9</b>
5.1 SOIL ASSESSMENT.....	9
5.2 GROUNDWATER ASSESSMENT .....	11
<b>6 INVESTIGATIVE RESULTS .....</b>	<b>12</b>
6.1 SOIL ANALYTICAL RESULTS.....	12
6.2 GROUNDWATER ANALYTICAL RESULTS .....	12
<b>7 CONCLUSIONS AND RECOMMENDATIONS .....</b>	<b>14</b>
7.1 SUMMARY OF INVESTIGATION RESULTS.....	14
7.2 IMPACTS ON PLANNED CONSTRUCTION .....	14
7.3 RECOMMENDATIONS .....	16
<b>8 REFERENCES.....</b>	<b>18</b>

## TABLES

1	Soil Analytical Results for TPH and BTEX
2	Groundwater Analytical Results for TPH and BTEX
3	Soil Analytical Results for Metals
4	Groundwater Analytical Results for Metals
5	Summary of Analytical Results for Additional VOCs
6	Summary of Analytical Results for PCBs

## FIGURES

1	Project Area Map
2	Boring Location Map 1
3	Boring Location Map 2
4	Boring Location Map 3
5	Boring Location Map 4

## **APPENDICES**

- A Proposal, Agreement, and Qualifications
- B Well Permits
- C Site Vicinity Map
- D Boring Logs and State of Texas Well Reports
- E Laboratory Analytical and QA/QC Reports
- F Waste Disposal Documentation

**DRAFT LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT**  
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**1 EXECUTIVE SUMMARY**

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A Limited Phase II Environmental Site Assessment (ESA) was performed for HR Green (client) for the two street corridors made up of nine street segments in the Montrose and Midtown areas of the City of Houston. (See Figure 1.) This Limited Phase II ESA was performed in accordance with the ASTM Practice E 1903 and the City of Houston Department of Public Works & Engineering Design Manual, Chapter 11. Any exceptions to, or deletions from, this practice are described in this report.

A total of 49 borings were completed at locations that were selected to further assess the recognized environmental conditions (RECs) that were identified in the Phase I ESA and potential impacts to the drainage improvement project. Two borings encountered refusal and could not be completed to their proposed depths. One soil sample was collected from each of the other borings and was analyzed for all or some of the following constituents depending on the concerns of each specific REC: TPH, BTEX, VOCs, PCBs, and metals. Ten of these borings were converted to temporary monitoring wells and a groundwater sample was collected from nine of the wells. The groundwater samples were analyzed for the same constituents as the soil samples, as determined by the concerns of each specific REC.

In summary, Kleinfelder's investigation revealed the presence of contamination associated with several of the RECs that were identified in the Phase I ESA for this Project Area. The evident soil and groundwater contamination in the project area could impact proposed construction activity for the proposed drainage. Six separate areas within the Project Area are recommended to be designated as potential contaminated areas (PCAs); further details about these areas can be found on pages 15 and 16.

Conclusions and recommendations are presented in Section 7. This report is subject to the limitations in Section 2.4.

## 2 INTRODUCTION

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Kleinfelder conducted a Phase II ESA of the subject site. Kleinfelder understands this report will assist the Client in understanding environmental conditions associated with the subject site's past and current use. The report is a summary of work performed using the guidelines set forth in the ASTM International Standard E-1903, *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process* (ASTM Standard) and the City of Houston Department of Public Works & Engineering Design Manual, Chapter 11. This report was prepared in general conformance with the ASTM Standard's suggested table of contents. Minor format modifications have been made to aid the presentation of our findings. The subject property is hereafter referred to as the "Project Area."

### 2.1 SCOPE-OF-SERVICES

The scope of work and limitations for this ESA were specified in Kleinfelder's proposal dated August 19, 2013, which was approved by HR Green, Inc. (HR Green) on August 21, 2013 (see Appendix A).

The scope of services for this Limited Phase II ESA was developed based on the factors listed below.

- Recommendations in the Phase I ESA report to conduct a Phase II ESA including particular sites within the project area,
- Review of preliminary engineering information, including the projected locations and depths of construction which was provided by HR Green, and
- Information contained in the Design Manual prepared by the City of Houston, Department of Public Works & Engineering for Phase II ESAs.

Pertinent documentation regarding the subject site is included in appendices of this report.

## **2.2 MODIFICATIONS TO THE SCOPE OF WORK**

During drilling activities, refusal was encountered in two borings at less than 5 feet below ground surface (bgs). At the location of B-2, a gravel layer was encountered at approximately 4 feet bgs and would collapse into the hole when drilling to deeper depths. The location was offset 25 feet south and drilled again, where the same layer was encountered - therefore, this boring was not completed or sampled. At the location of B-35, the surface concrete was cored to a depth of 8 inches. The boring was then drilled using a direct push drill rig to a depth of 4 feet, where a very hard object or structure was encountered that appeared to be made of concrete. The location of this boring had already been adjusted due to the nearby presence of multiple underground utilities at this location. In both of these cases, the field activities at borings near these locations yielded no observed evidence of contamination.

## **2.3 SITE DESCRIPTION**

The Project Area consists of two street corridors made up of nine street segments in the Montrose and Midtown areas of the City of Houston (see Figure 1). The northern corridor begins north of Allen Parkway adjacent to Buffalo Bayou, and extends south along Gillette Street to West Dallas Street (west) to Genesee Street (south) to Tuam Avenue (southeast), and ends at the intersection of Louisiana Street and Tuam Street. The southern corridor begins at the intersection of Drew Street and Smith Street. The southern corridor crosses Tuam Street and the northern corridor and continues southwest along Smith Street to Elgin Avenue. The corridor includes the section of Elgin Street that extends northwest from the intersection of Elgin Street and Smith Street to Brazos Street (one city block). The southern corridor continues along Elgin Street to the southeast and the intersection of Elgin Street and Milam Street. The southern corridor terminates at the intersection of Milam Street and West Alabama Street near Highway 527. The total of both corridors total approximately 12,700 feet in length. A vicinity map with street segment descriptions was provided by the Client, HR Green, and is included in Appendix C.

## 2.4 LIMITATIONS AND EXCEPTIONS

This Limited Phase II ESA was performed in accordance with current industry standards including ASTM E 1903 as modified by the City of Houston Design Manual, Chapter 11. This Limited Phase II ESA was performed by Kleinfelder Central, Inc. (Kleinfelder), a registered Professional Engineering firm in Texas. In addition, this project was completed by and under the responsible charge of individuals who are licensed as Professional Geoscientists in the State of Texas. Copies of registrations and licenses are included in Appendix A - Professional Qualifications. This work was performed in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided. This report may be used only by the City of Houston and the registered design professional in responsible charge and only for the purposes stated for this specific engagement within a reasonable time from its issuance, but in no event later than two (2) years from the date of the report.

This Limited Phase II ESA is intended to reduce, but not eliminate, the uncertainty for RECs in connection with current and/or historic uses of the project area. Sample locations and analytical parameters were selected based on the RECs and their locations as identified in the Phase I ESA and were approved by the City of Houston. Only limited sampling and analysis to assess the potential presence of hazardous substances or petroleum products was included in the scope of work for this Limited Phase II ESA, and there is no guarantee that not finding indicators of hazardous substances or petroleum products means that these materials do not exist in the project area. The scope of work for this assessment was designed to assess the potential presence of contaminated media, but was not designed to completely establish the quantities or distribution of contaminated media or to satisfy the level of inquiry that may be necessary to support remedial solutions.

The report is based on the information obtained and the regulations in effect at the time of the assessment. Our conclusions, opinions, and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no other representation, guarantee, or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

## **2.5 SPECIAL TERMS AND CONDITIONS**

At times our scope of work requires that our services be performed in a confidential manner and that our efforts to obtain information and records be limited to contacting those parties with knowledge of this effort, knowledge of a potential impending sale, or parties specifically provided as contacts for this work. All interaction with public employees, regulatory entities, or other parties can be limited by this confidentiality request to minimize disclosure of information related to the assessment or its purposes.

### 3 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

A Phase I ESA was conducted in the project area by Kleinfelder in the Spring of 2013. Recommendations were included in the Phase I ESA report to conduct a Phase II ESA including particular sites within the project area. Upon the availability of preliminary engineering information including the projected locations and depths of construction for the drainage line replacement, these recommendations were reviewed and modified. As a result of this process, the following sites were selected for inclusion in this Limited Phase II ESA. Locations of RECs are displayed in Figure 1.

Site Location	Recognized Environmental Conditions	Number of Borings	Number of Temporary Monitoring Wells	Analytical Program
1 - 801 Gillette	Two closed LPST sites; VCP site with documented metals impacts in soil & groundwater	8	2	TPH, BTEX, MTBE, RCRA Metals
2 - 1801 Allen Parkway	Closed LPST site; Two listings as IOP site with LNAPL, TPH, BTEX & MTBE impacts in groundwater			
10 - 711 Gillette	Former auto mechanic shop and fleet management facility			
6 - 1712 West Dallas	Auto repair shop, former gasoline station, UST site	3	1	TPH, BTEX, MTBE
13 - 244 West Gray	Former dry cleaners	6	2	TPH, VOCs
12 - 240 West Gray	Former gasoline station, former auto repair shop			
3 - 255 West Gray	UST Facility			
11 - 225 – 237 West Gray	Former auto repair facility, former dry cleaners			
7 - 1601 West Webster	Former industrial laundry	3	1	VOCs
21 - 221 Tuam	Auto repair shop	9	3	TPH, VOCs
5 - 305 Tuam	Former gasoline station, closed LPST site			
22 - 312 Tuam	Former dry cleaners			
23 - 401 Tuam	Auto repair shop			
14 - 502 Elgin	Former auto repair shop	7	2	TPH, VOCs
8 - 514 Elgin	IOP site with documented VOC impacts to soil and groundwater			
15 - 602 Elgin	Former gasoline station			
16 - 616 Elgin	Former dry cleaners			
9 - 3102 Milam	Former electric company facility,	3	1	TPH, BTEX,

	former gasoline station			MTBE, PCBs
<b>4</b> - 3315 Milam	Closed LPST site; former auto repair shop	4	1	TPH, BTEX, MTBE
<b>17</b> - 3309 Milam	Former auto repair shop			
<b>18</b> - 3316 Milam	Former gasoline station			
<b>19</b> - 3508 Milam	Former auto repair shop	3	1	TPH, BTEX
<b>20</b> - 3715 Milam	Former gasoline station	3	1	TPH, BTEX, MTBE
Totals:		49	15	

## 4 SITE GEOLOGY/HYDROGEOLOGY

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Based on review of the United States Geological Survey (USGS) and information from the Texas Bureau of Economic Geology, the Project Area is situated at an elevation of approximately 50 feet above mean sea level (MSL). The Project Area is underlain by the Beaumont formation, a Quaternary-age alluvium consisting predominantly of clay and mud, with interbedded silts and sands, as well as zones containing calcareous and ferruginous nodules.

Based on data collected during this subsurface assessment, the near-surface stratigraphy in the Project Area consists of clays, silty clays, clayey sands and silty sands to an approximate depth of at least 35 feet below ground surface (bgs), the total depth of the exploration.

Groundwater was encountered in 23 borings at depths ranging from 13 to 32 feet below ground surface, in either a clayey silt, clayey sand, or sand layer. Twenty-four borings were drilled to 35 or 36 feet (or until refusal) and did not encounter groundwater. Two borings were terminated at four feet below ground surface because obstructions were encountered.

## 5 FIELD INVESTIGATION

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### 5.1 SOIL ASSESSMENT

Initially, utility locating services including the Texas Excavation Safety System (DigTESS) were notified to identify any underground utility lines in the area of the assessment. A Kleinfelder environmental professional then met with utility company representatives at the Project Area on September 18, 2013 to observe the locations of identified underground utility lines relative to the proposed soil boring locations and to determine if adjustments in the proposed soil boring locations were needed. The Kleinfelder environmental professional also conducted a site reconnaissance to become familiar with the Project Area and identify any areas that would require special considerations because of overhead power lines, other physical obstructions or traffic control issues. Facility Permits were obtained from the City of Houston. Copies of the Facility Permits are included in Appendix B – Facility Permits. A site-specific Health and Safety Plan was prepared and reviewed prior to the field mobilizations.

On September 19, 2013 Kleinfelder mobilized to the Project Area in order to install the soil borings and temporary monitoring wells, as well as conduct soil and groundwater sampling. Envirotech Drilling Services (Envirotech), a State of Texas-licensed water well driller (#58171), provided drilling services using a truck-mounted direct push drill rig. Continuous soil cores were collected. The cores were logged using visual-manual procedures and qualitative field descriptions, and were completed by a Kleinfelder geologist based on the Unified Soil Classification System (USCS) in accordance with Chapter 11 (Section 11.28, Item 4C) of the City of Houston's Department of Public Works and Engineering Infrastructure Design Manual (July 2011). Soil boring logs and State of Texas Well Reports are contained in Appendix D – Boring Logs and State of Texas Well Reports.

A total of 49 soil borings were completed at locations that were selected to further assess RECs identified in the Phase I ESA and potential impacts to the drainage construction area. Boring locations were selected based on the location of RECs and their proximity to one another, as well as recommendations included in City of Houston

Department of Public Works & Engineering Design Manual, Chapter 11. Boring locations are shown in Figures 2 through 5.

During drilling activities, refusal was encountered in two borings at less than 5 feet below ground surface (bgs). At the location of B-2, a gravel layer was encountered at approximately 4 feet bgs and would collapse into the hole when drilling to deeper depths. The location was offset 25 feet south and drilled again, where the same layer was encountered. Therefore, this boring was not completed or sampled. At the location of B-35, the surface concrete was cored to a depth of 8 inches. The boring was then drilled using a direct push drill rig to a depth of 4 feet, where a very hard object or structure was encountered that appeared to be made of concrete. The location of this boring had already been adjusted due to the nearby presence of multiple underground utilities at this location. In both of these cases, the field activities at borings near these locations yielded no observed evidence of contamination.

Soil samples were field-screened using a photo-ionization detector (PID) to assess the presence of volatile organic compounds. One soil sample was collected from each boring for laboratory analysis. These samples were selected from the depth interval with the highest PID reading. Sampling equipment was decontaminated prior to each sample collection to prevent cross contamination. The soil samples were collected in clean, laboratory-provided containers and placed in a chilled cooler. Samples were collected on September 19-20, 23-27, and October 1-2 and were transported daily to ALS Laboratories in Houston, Texas with a completed chain-of-custody form.

The soil analytical results for volatile organic compounds (VOCs), benzene, toluene, ethylbenzene, xylenes (BTEX), total petroleum hydrocarbons (TPH), and total (11) metals were compared to the Texas Risk Reduction Program (TRRP) Tier 1 Residential Protective Concentration Levels (PCLs) for a 0.5-acre source area. In particular, the PCLs for the Soil-to-Groundwater ingestion ( $^{GW}Soil_{Ing}$ ) and direct exposure of individuals to soil via dermal contact, ingestion and inhalation ( $^{Tot}Soil_{Comb}$ ) exposure pathways were used for comparison. These PCLs have been developed by the Texas Commission on Environmental Quality (TCEQ) and represent the lowest applicable health-based or groundwater-protective soil PCLs for each Chemical of Concern (COC). Results for total metals were also compared to the Texas-Specific Soil Background Concentrations as defined in Chapter 350 of TRRP.

## 5.2 GROUNDWATER ASSESSMENT

Groundwater was encountered in 23 borings at depths ranging from 13 to 32 feet below ground surface, in either a clayey silt, clayey sand, or sand layer. Twenty-four borings were drilled to 35 or 36 feet (or until refusal) and did not encounter groundwater. Ten borings were converted to temporary monitoring wells. Temporary well locations were selected to include one well near the location of each REC where groundwater was observed. The temporary monitoring wells were constructed of one-inch diameter SCH 40 PVC casing and well screen (0.01 inch slot). After installation, each well was developed by purging with a peristaltic pump until the water was clear. Each well was allowed to recover completely before collecting a groundwater sample. A total of nine groundwater samples were collected in clean, laboratory-provided containers and placed in a chilled cooler and submitted to ALS laboratories in Houston, Texas with a completed chain-of-custody form. The groundwater in B-17 was not sampled because it produced an insufficient amount of water.

The groundwater analytical results for volatile organic compounds (VOCs), benzene, toluene, ethylbenzene, xylenes (BTEX), total petroleum hydrocarbons (TPH), and total (11) metals were compared to the Texas Risk Reduction Program (TRRP) Tier 1 Residential Protective Concentration Levels (PCLs) for Class 1 groundwater. In particular, the PCLs for the groundwater ingestion pathway ( $^{GW}GW_{Ing}$ ) were used for comparison. These PCLs have been developed by the Texas Commission on Environmental Quality (TCEQ) and represent the lowest applicable health-based or groundwater-protective PCLs for each Chemical of Concern (COC).

Although groundwater was not encountered in 24 borings, it is possible that groundwater could enter an excavation in these areas if a discontinuous water-bearing zone is encountered or if an excavation remains open for an extended period of time.

## 6 INVESTIGATIVE RESULTS

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### 6.1 SOIL ANALYTICAL RESULTS

TPH was detected in seven soil samples above laboratory reporting limits. Samples B-5 (30-32), B-24 (24-26), B-26 (34-36), B-41 (32-34), and B-42 (12-14) contained concentrations of TPH (C6-C12) above the  $^{GW}Soil_{Ing}$  PCL of 65 mg/kg. TPH was detected below applicable PCLs in samples B-25 (34-36) and B-14 (26-28). TPH was not detected in any other soil samples above the laboratory reporting limit. BTEX was detected in soil samples B-5 (30-32), B-14 (26-28), B-24 (24-26), B-25 (34-36), B-26 (34-36), B-41 (32-34) and B-42 (12-14) at concentrations above Tier 1  $^{GW}Soil_{Ing}$  PCLs. BTEX was detected in B-18 (8-10) but at concentrations below Tier 1 PCLs. BTEX was not detected in any other soil samples above the laboratory reporting limit. Samples analyzed for VOCs by EPA method 8260 showed a detection of acetone in soil sample B-23 (34-36) above the laboratory reporting limits, but acetone was not detected in any other soil samples. Cyclohexane, isopropylbenzene and methylcyclohexane were detected at concentrations above laboratory reporting limits but below PCLs in soil samples B-14 (26-28), B-24 (24-26), B-25 (34-36) and B-26 (34-36). Additional VOCs were not detected above laboratory reporting limits in any of the soil samples collected. Selenium was detected above the Texas Specific Background in soil samples B-6 (10-12), B-7 (16-18), and B-8 (18-20), but not above applicable PCLs. None of the metals that were analyzed were detected at concentrations above PCLs in any of the other soil samples. PCBs were not detected at concentrations above laboratory reporting limits in any of the soil samples that were analyzed. No soil samples that were analyzed contained concentrations of any of the COCs above the Tier 1  $^{Tot}Soil_{Comb}$  PCLs. Summaries of soil analytical results can be found in Tables 1, 3, 5 and 6.

### 6.2 GROUNDWATER ANALYTICAL RESULTS

In the groundwater samples collected from B-18 and B-48, benzene was detected at concentrations of 0.0072 mg/L and 0.13 mg/L respectively, which are above the  $^{GW}GW_{Ing}$  PCL of 0.005 mg/L. BTEX was also detected in the groundwater sample from B-43, but at concentrations below the  $^{GW}GW_{Ing}$  PCLs. BTEX was not detected in any other groundwater sample above the laboratory reporting limits. TPH was not detected in any groundwater sample above laboratory reporting limits. The groundwater sample

from B-6 contained concentrations of arsenic, barium, chromium, lead and mercury above the <sup>GW</sup>GW<sub>Ing</sub> PCLs. The groundwater sample from B-3 was the only other groundwater sample analyzed for metals, and it did not contain metals concentrations above applicable PCLs. PCBs were not detected above laboratory reporting limits in any of the groundwater samples that were analyzed. Summaries of groundwater analytical results can be found in Tables 2, 4, 5 and 6.

## 7 CONCLUSIONS AND RECOMMENDATIONS

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### 7.1 SUMMARY OF INVESTIGATION RESULTS

Forty-nine soil borings were completed to assess 23 sites within the Midtown/Montrose Areas. The borings were drilled to total depths of 35 or 36 feet deep, except borings that were terminated when refusal or groundwater was encountered to avoid providing a potential vertical migration pathway for any contamination that may be present. Boring depths ranged from 16 to 36 feet below ground surface. One soil sample was collected from each soil boring and analyzed for VOCs or BTEX, TPH, total Metals and PCBs based on the RECs identified in the Phase I ESA. Based on the analytical results, TPH was detected in five soil samples above the  $^{GW}Soil_{Ing}$  PCL, but below the  $^{Tot}Soil_{Comb}$  PCL. BTEX was detected in six soil samples at concentrations above Tier 1  $^{GW}Soil_{Ing}$  PCLs, but below the  $^{Tot}Soil_{Comb}$  PCL. Additional VOCs, PCBs and metals were not detected in any of the soil samples that were analyzed above applicable PCLs.

Ten temporary monitoring wells were installed within the Midtown/Montrose Areas and nine were sampled. One groundwater sample was collected from each well (with the exception of B-17) and analyzed for VOCs or BTEX, TPH, total Metals and PCBs based on the RECs identified in the Phase I ESA. Based on the analytical results, TPH was not detected in any of the groundwater samples. Benzene was detected in the groundwater samples from B-18 and B-48 at concentrations above the  $^{GW}GW_{Ing}$  PCL. The groundwater sample from B-6 contained concentrations of arsenic, barium, chromium, lead and mercury above the  $^{GW}GW_{Ing}$  PCLs. No other concentrations for any of the COCs in any of the groundwater samples exceeded applicable PCLs for class 1 groundwater.

### 7.2 IMPACTS ON PLANNED CONSTRUCTION

Based on the results of this Limited Phase II ESA, the following conclusions are presented concerning potential impacts on planned construction.

- Concentrations of TPH and BTEX were detected in the soil sample collected from boring B-5 and the groundwater sample from B-6 contained concentrations of

several metals above <sup>GW</sup>GW<sub>ing</sub> PCLs, and could be harmful if ingested by construction workers. Therefore, the planned construction areas around B-5 and B-6 (extending north 250 feet from the intersection of Gillette St and Hopson St, and extending south 100 feet from the same intersection) should be designated as potential contaminated areas or potential petroleum contaminated areas (PCAs or PPCAs).

- Concentrations of TPH and BTEX were detected in the soil sample collected from boring B-14 located along Genesee Street including concentrations greater than the Tier 1 PCLs established by the TCEQ. Therefore, the planned construction area around B-14 (extending north from B-14 60 feet, and extending south from B-14 50 feet) should be designated as a PPCA.

- Concentrations of TPH and BTEX were detected in the groundwater sample collected from B-18 located along Genesee Street including concentrations greater than the Tier 1 PCLs established by the TCEQ. Therefore, the planned construction area around B-18 (Genesee St, STA 15+00 to STA 15+50) should be designated as a PPCA.

- Concentrations of TPH and BTEX were detected in soil samples collected from borings B-24, B-25, and B-26 located along Tuam Street including concentrations greater than the Tier 1 PCLs established by the TCEQ. Therefore, the planned construction area including B-24, B-25 and B-26 (Tuam St., STA 10+85 to STA 15+00) should be designated as a PPCA.

- Concentrations of TPH and BTEX were detected in soil samples collected from borings B-41 and B-42 located along Milam Street including concentrations greater than the Tier 1 PCLs established by the TCEQ. Therefore, the planned construction area between B-41 and B-42 (beginning 75 feet southwest of the intersection of Milam St. and Stuart St., extending southwest 100 feet along Milam St.) should be designated as a PPCA. According to H.R. Green, a survey of this portion of the project area was not available at the time of this report.

- Concentrations of TPH and BTEX were detected in the groundwater sample collected from B-48 located along Milam Street including concentrations greater than the Tier 1 PCLs established by the TCEQ. Therefore, the planned construction area around B-48 (beginning at the intersection of Milam St. and Alabama St., extending

northeast 135 feet along Milam St.) should be designated as a PPCA. According to H.R. Green, a survey of this portion of the project area was not available at the time of this report.

The approximate extents of all PPCAs are shown in Figures 2 - 5.

### **7.3 RECOMMENDATIONS**

Based on the information obtained during this Limited Phase II Environmental Site Assessment, Kleinfelder provides the following recommendations.

- Appropriate measures, such as the use of sealing materials, should be employed in design and construction of the storm drain within the PPCAs along Genesee Street, Tuam Street and Milam Street to prevent possible infiltration of contaminants into the proposed storm drain, in accordance with applicable requirements and standards.
- If hydrocarbon odors or other evidence of contamination are noted during construction within the PPCAs, the design consultant should be notified immediately so that appropriate action can be taken to ensure the safety of construction workers.
- If groundwater is encountered during construction activities within the PPCAs and in the area of B-6, we recommend that procedures be implemented to prevent ingestion of groundwater by workers. In particular, we recommend training workers and implementing work practices to ensure that workers do not touch or contact the groundwater within the PPCAs or in the area of B-6.
- Any soil removed from the PPCAs should be replaced in the excavation or should be properly characterized to ensure disposal at an authorized facility in accordance with applicable regulations.
- Based on the benzene concentration detected in the groundwater samples from soil borings B-6, B-18 and B-48, groundwater in these areas may not meet the requirements for discharge to the City of Houston sanitary sewer system without treatment. If dewatering is conducted during construction within the PPCAs or in the areas around B-6, B-18 and B-48, we recommend coordination with the City of Houston

Industrial Wastewater Service to verify acceptable concentrations. A permit can then be obtained so that extracted groundwater can be managed by discharging it, after treatment if necessary, to the sanitary sewer in accordance with the City of Houston Industrial Waste Ordinance, Chapter 47, Article V.

## 8 REFERENCES

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Kleinfelder, 2013, Phase I Environmental Site Assessment, Montrose Area and Midtown Drainage and Pavement Sub-Project II, WBS No. M-000290-002-3 City of Houston June 13.

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



# **TABLES**

TABLE 1  
 Limited Phase II ESA  
 Montrose Area and Midtown Drainage and  
 Pavement Sub-Project II  
 WBS No. M-000290-002-3  
 Soil Analytical Results for TPH and BTEX (mg/kg)

Sample	Tier 1	Tier 1	B-1 (28-30)	B-3 (24-26)	B-4 (12-14)	B-5 (30-32)	B-6 (10-12)	B-7 (16-18)	B-8 (8-10)	B-9 (12-14)
	Tot Soil <sub>comb</sub> PCL	Soil <sub>ing</sub> PCL	19-Sep-2013	19-Sep-2013	19-Sep-2013	19-Sep-2013	19-Sep-2013	20-Sep-2013	20-Sep-2013	23-Sep-2013
<b>Analyte</b>										
TPH (C6-C12)	1585	65	<10	<9.9	<10	<b>970</b>	<10	<9.9	<9.9	<50
TPH (C12-C28)	2264	200	<10	<9.9	<10	63	<10	<9.9	<9.9	<50
TPH (C28-C35)	2265	200	<10	<9.9	<10	<9.9	<10	<9.9	<9.9	<50
Total TPH 1005	NE	NE	<10	<9.9	<10	1,030	<10	<9.9	<9.9	<50
Benzene	116	0.026	<0.0006	<0.0006	<0.0006	<b>1.5 J</b>	<0.0006	<0.0006	<0.0006	<0.005
Toluene	5934	8.2	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.005
Ethylbenzene	6395	7.6	<0.0009	<0.0009	<0.0009	<b>37</b>	<0.0009	<0.0009	<0.0009	<0.005
Xylene (total)	5958	120	<0.0017	<0.0017	<0.0017	78	<0.0017	<0.0017	<0.0017	<0.01
MTBE (methyl tert-butyl ether)	805	0.62	<0.0019	<0.0019	<0.0019	<0.019	<0.0019	<0.0019	<0.0019	<0.005
Additional VOCs	Various	Various	NA	NA	NA	NA	NA	NA	NA	NA

Sample	Tier 1	Tier 1	B-10 (34-36)	B-11 (26-28)	B-12 (14-16)	B-13 (4-6)	B-14 (26-28)	B-15 (16-18)	B-16 (24-26)	B-17 (18-20)
	Tot Soil <sub>comb</sub> PCL	Soil <sub>ing</sub> PCL	23-Sep-2013	23-Sep-2013	23-Sep-2013	23-Sep-2013	23-Sep-2013	24-Sep-2013	24-Sep-2013	24-Sep-2013
<b>Analyte</b>										
TPH (C6-C12)	1585	65	<50	<50	<50	<50	62	<50	<50	<50
TPH (C12-C28)	2264	200	<50	<50	<50	<50	<50	<50	<50	<50
TPH (C28-C35)	2265	200	<50	<50	<50	<50	<50	<50	<50	<50
Total TPH 1005	NE	NE	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	116	0.026	<0.005	<0.005	<0.005	<0.005	<b>0.063</b>	<0.005	<0.005	<0.005
Toluene	5934	8.2	<0.005	<0.005	<0.005	<0.005	0.058	<0.005	<0.005	<0.005
Ethylbenzene	6395	7.6	<0.005	<0.005	<0.005	<0.005	0.58	<0.005	<0.005	<0.005
Xylene (total)	5958	120	<0.01	<0.01	<0.01	<0.01	1.9	<0.01	<0.01	<0.01
MTBE (methyl tert-butyl ether)	805	0.62	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Additional VOCs	Various	Various	NA	NA	BRL	BRL	See Table 5	NA	NA	NA

Note:

mg/kg = milligrams per kilogram or parts per million

BRL = Below Reporting Limit

NE = None established

NA = Not Analyzed

J -Estimated: The analyte was detected and identified; the associated numerical value is the approximate concentration of the analyte in the

TABLE 1  
 Limited Phase II ESA  
 Montrose Area and Midtown Drainage and  
 Pavement Sub-Project II  
 WBS No. M-000290-002-3  
 Soil Analytical Results for TPH and BTEX (mg/kg)

Sample	Tier 1	Tier 1	B-18 (8-10)	B-19 (20-22)	B-20 (2-4)	B-21 (18-20)	B-22 (26-28)	B-23 (34-36)	B-24 (24-26)	B-25 (34-36)
	Tot <sup>s</sup> Soil <sub>comb</sub> PCL	Soil <sub>ing</sub> PCL <sup>GW</sup>	24-Sep-2013	24-Sep-2013	24-Sep-2013	24-Sep-2013	25-Sep-2013	25-Sep-2013	25-Sep-2013	25-Sep-2013
<b>Analyte</b>										
TPH (C6-C12)	1585	65	NA	NA	NA	<50	<50	<50	<b>130</b>	21 J
TPH (C12-C28)	2264	200	NA	NA	NA	<50	<50	<50	<50	<50
TPH (C28-C35)	2265	200	NA	NA	NA	<50	<50	<50	<50	<50
Total TPH 1005	NE	NE	NA	NA	NA	<50	<50	<50	130	21 J
Benzene	116	0.026	0.0071	<0.005	<0.005	<0.005	<0.005	<0.0006	<b>0.68</b>	<b>1.9</b>
Toluene	5934	8.2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0009	<b>74</b>	<b>110</b>
Ethylbenzene	6395	7.6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0017	12	<b>8.4</b>
Xylene (total)	5958	120	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0017	53	41
MTBE (methyl tert-butyl ether)	805	0.62	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0019	<0.05	<0.05
Additional VOCs	Various	Various	BRL	BRL	BRL	BRL	BRL	See Table 5	See Table 5	See Table 5

Sample	Tier 1	Tier 1	B-26 (34-36)	B-27 (30-32)	B-28 (16-18)	B-29 (20-22)	B-30 (20-22)	B-31 (18-20)	B-32 (14-16)	B-33 (20-22)
	Tot <sup>s</sup> Soil <sub>comb</sub> PCL	Soil <sub>ing</sub> PCL <sup>GW</sup>	25-Sep-2013	25-Sep-2013	26-Sep-2013	25-Sep-2013	26-Sep-2013	26-Sep-2013	26-Sep-2013	26-Sep-2013
<b>Analyte</b>										
TPH (C6-C12)	1585	65	<b>240</b>	<50	<50	<50	<50	<50	<50	<50
TPH (C12-C28)	2264	200	<50	<50	<50	<50	<50	<50	<50	<50
TPH (C28-C35)	2265	200	<50	<50	<50	<50	<50	<50	<50	<50
Total TPH 1005	NE	NE	240	<50	<50	<50	<50	<50	<50	<50
Benzene	116	0.026	<b>0.3</b>	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	5934	8.2	<b>27</b>	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	6395	7.6	2.7	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylene (total)	5958	120	13	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MTBE (methyl tert-butyl ether)	805	0.62	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Additional VOCs	Various	Various	See Table 5	NA	BRL	BRL	BRL	NA	NA	NA

Note:  
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TABLE 1  
 Limited Phase II ESA  
 Montrose Area and Midtown Drainage and  
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 WBS No. M-000290-002-3  
 Soil Analytical Results for TPH and BTEX (mg/kg)

Sample	Tier 1	Tier 1	B-34 (24-26)	B-36 (20-22)	B-37 (14-16)	B-38 (20-22)	B-39 (12-14)	B-40 (12-14)	B-41 (32-34)	B-42 (12-14)
	Tot <sup>s</sup> Soil <sub>Comb</sub> PCL	Soil <sub>Ing</sub> PCL <sup>GW</sup>	27-Sep-2013	27-Sep-2013	27-Sep-2013	27-Sep-2013	27-Sep-2013	1-Oct-2013	1-Oct-2013	1-Oct-2013
<b>Analyte</b>										
TPH (C6-C12)	1585	65	<50	<50	<50	<50	<50	<50	490	2800 J
TPH (C12-C28)	2264	200	<50	<50	<50	<50	<50	<50	<50	<50
TPH (C28-C35)	2265	200	<50	<50	<50	<50	<50	<50	<50	<50
Total TPH 1005	NE	NE	<50	<50	<50	<50	<50	<50	490	2,800
Benzene	116	0.026	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	6.3
Toluene	5934	8.2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	41
Ethylbenzene	6395	7.6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	22	17
Xylene (total)	5958	120	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	18	75
MTBE (methyl tert-butyl ether)	805	0.62	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
Additional VOCs	Various	Various	BRL	BRL	NA	NA	NA	NA	NA	NA

Sample	Tier 1	Tier 1	B-43 (4-6)	B-44 (32-34)	B-45 (22-24)	B-46 (6-8)	B-47 (4-6)	B-48 (10-12)	B-49 (18-20)
	Tot <sup>s</sup> Soil <sub>Comb</sub> PCL	Soil <sub>Ing</sub> PCL <sup>GW</sup>	1-Oct-2013	1-Oct-2013	1-Oct-2013	1-Oct-2013	1-Oct-2013	2-Oct-2013	2-Oct-2013
<b>Analyte</b>									
TPH (C6-C12)	1585	65	<50	<50	<50	<50	<50	<50	<50
TPH (C12-C28)	2264	200	<50	<50	<50	<50	<50	<50	<50
TPH (C28-C35)	2265	200	<50	<50	<50	<50	<50	<50	<50
Total TPH 1005	NE	NE	<50	<50	<50	<50	<50	<50	<50
Benzene	116	0.026	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001
Toluene	5934	8.2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001
Ethylbenzene	6395	7.6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001
Xylene (total)	5958	120	<0.01	<0.01	<0.01	<0.01	<0.01	<0.003	<0.003
MTBE (methyl tert-butyl ether)	805	0.62	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Additional VOCs	Various	Various	NA	NA	NA	NA	NA	NA	NA

Note:  
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 BRL = Below Reporting Limit  
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TABLE 2  
 Limited Phase II ESA  
 Montrose Area and Midtown Drainage and  
 Pavement Sub-Project II  
 WBS No. M-000290-002-3  
 Groundwater Analytical Results for TPH and BTEX (mg/L)

Sample	Tier 1 GW GW <sub>ing</sub> PCL	B-3	B-6	B-12	B-18	B-34	B-38	B-43	B-46	B-48	
		19-Sep-2013	19-Sep-2013	23-Sep-2013	24-Sep-2013	27-Sep-2013	27-Sep-2013	1-Oct-2013	2-Oct-2013	2-Oct-2013	
<b>Analyte</b>											
TPH (C6-C12)		0.98	<0.19	<0.2	<0.48	NA	<0.47	<0.47	<0.47	<0.49	<0.48
TPH (C12-C28)		0.98	<0.19	<0.2	<0.48	NA	<0.47	<0.47	<0.47	<0.49	<0.48
TPH (C28-C35)		0.98	<0.19	<0.2	<0.48	NA	<0.47	<0.47	<0.47	<0.49	<0.48
Total TPH 1005		NE	<0.19	<0.2	<0.48	NA	<0.47	<0.47	<0.47	<0.49	<0.48
Benzene		0.005	<0.0005	<0.0005	<0.005	<b>0.0072</b>	<0.005	<0.005	<0.001	<0.001	<b>0.13</b>
Toluene		1	<0.0005	<0.0005	<0.005	<0.005	<0.005	<0.005	0.0015	<0.001	0.096
Ethylbenzene		0.7	<0.0005	<0.0005	<0.005	<0.005	<0.005	<0.005	0.00094 J	<0.001	0.003
Xylene (total)		10	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.003	<0.003	<0.003
MTBE (methyl tert-butyl ether)		0.244	0.015	0.0017 J	<0.005	0.072	<0.005	<0.005	NA	NA	<0.005
All other VOCs		Various	NA	NA	BRL	See Table 5	BRL	BRL	NA	NA	NA
PCBs		Various	NA	NA	NA	NA	NA	BRL	NA	NA	NA

Note:

**Bold print** = concentration above PCLs

mg/L = milligrams per liter or parts per million

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NA = Not Analyzed

J -Estimated: The analyte was detected and identified; the associated numerical value is the approximate concentration of the analyte in the sample.

TABLE 3  
 Limited Phase II ESA  
 Montrose Area and Midtown Drainage and  
 Pavement Sub-Project II  
 WBS No. M-000290-002-3  
 Soil Analytical Results for Metals (mg/kg)

Sample	Tier 1	Texas Specific Background	B-1 (28-30)	B-3 (24-26)	B-4 (12-14)	B-5 (30-32)	B-6 (10-12)	B-7 (16-18)	B-8 (18-20)
	<sup>Tot</sup> Soil <sub>Comb</sub> PCL		19-Sep-2013	19-Sep-2013	19-Sep-2013	19-Sep-2013	19-Sep-2013	20-Sep-2013	20-Sep-2013
<b>Analyte</b>									
Arsenic	24.1	5.9	2.37	1.05	2	1.17	2.09	0.604	2.12
Barium	8100	300	16.4	20.2	35.7	21.8	66.8	42.9	34.8
Cadmium	52.4	NE	<0.0495	<0.0493	<0.0488	<0.0484	<0.046	<0.0656	<0.0408
Chromium	32,600	30	13.8	10.8	6.28	4.8	4.94	4.09	8.51
Lead	500	15	15.2	2.32	5.93	5.55	3.44	5.27	4.7
Selenium	310	0.3	0.278 J	0.285 J	0.225 J	0.299 J	0.516	0.369 J	0.852
Silver	97	NE	<0.0792	<0.0789	<0.0781	<0.0774	<0.0735	<0.0656	<0.0652
Mercury	3.6	0.04	0.000838 J	0.00162 J	0.00152 J	0.00209 J	<0.00354	0.00178 J	0.00565

Note:

**Bold print** = concentration above PCLs

mg/kg = milligrams per kilogram or parts per million

*BRL* = Below Reporting Limit

NE = None established

TABLE 4  
 Limited Phase II ESA  
 Montrose Area and Midtown Drainage and  
 Pavement Sub-Project II  
 WBS No. M-000290-002-3  
 Groundwater Analytical Results for Metals (mg/L)

Sample	Tier 1	B-3	B-6
	<sup>GW</sup> GW <sub>ing</sub> PCL	19-Sep-2013	19-Sep-2013
<b>Analyte</b>			
Arsenic	0.01	0.0165	<b>0.108</b>
Barium	2	0.291	<b>5.81</b>
Cadmium	0.005	<0.0008	0.00398
Chromium	0.1	0.026	<b>0.411</b>
Lead	0.015	0.026	<b>2.47</b>
Selenium	0.05	<0.001	0.0205
Silver	0.12	<0.0008	0.00454 J
Mercury	0.002	<0.00004	<b>0.00234</b>

Note:

**Bold print** = concentration above PCLs

mg/L = milligrams per liter or parts per million

*BRL* = Below Reporting Limit

NE = None established

J -Estimated: The analyte was detected and identified; the associated numerical value is the approximate

TABLE 5  
 Limited Phase II ESA  
 Montrose Area and Midtown Drainage and  
 Pavement Sub-Project II  
 WBS No. M-000290-002-3  
 Additional VOCs Analytical Results

### Soil Results (mg/kg)

Sample	Tier 1	Tier 1	B-14 (26-28)	B-23 (34-36)	B-24 (24-26)	B-25 (34-36)	B-26 (34-36)
	<sup>Tot</sup> Soil <sub>Comb</sub> PCL	<sup>GW</sup> Soil <sub>Ing</sub> PCL	23-Sep-2013	25-Sep-2013	25-Sep-2013	25-Sep-2013	25-Sep-2013
<b>Analyte</b>							
Acetone	66,000	43	<0.2	0.047	<0.2	<0.2	<0.2
Cyclohexane	75,200	5,900	16	<0.005	0.14	0.75	0.16
Isopropylbenzene	NE	NE	0.31	<0.005	0.32	1.3	0.41
Methylcyclohexane	41,400	15,550	27	<0.005	0.58	1.8	0.45
All other VOCs	Various	Various	BRL	BRL	BRL	BRL	BRL

### Groundwater Results (mg/L)

Sample	Tier 1	B-18
	<sup>GW</sup> GW <sub>Ing</sub> PCL	24-Sep-2013
<b>Analyte</b>		
Acetone	22	0.0067 J
Cyclohexane	122	0.015
Isopropylbenzene	NE	0.00073 J
Methylcyclohexane	122	0.014
All other VOCs	Various	BRL

Note:

**Bold print** = concentration above PCLs  
 mg/kg = milligrams per kilogram  
 mg/L = milligrams per liter or parts per million  
*BRL* = Below Reporting Limit  
 NE = None established  
 J -Estimated: The analyte was detected and identified; the associated numerical value

TABLE 6  
 Limited Phase II ESA  
 Montrose Area and Midtown Drainage and  
 Pavement Sub-Project II  
 WBS No. M-000290-002-3  
 PCB Analytical Results

### Soil Results (mg/kg)

Sample	Tier 1	Tier 1	B-37 (14-16)	B-38 (20-22)	B-39 (12-14)
	<sup>Tot</sup> Soil <sub>Comb</sub> PCL	<sup>GW</sup> Soil <sub>Ing</sub> PCL			
Date			27-Sep-2013	27-Sep-2013	27-Sep-2013
<b>Analyte</b>					
Aroclor 1016	7.7	1.1	<0.017	<0.017	<0.017
Aroclor 1221	7.7	1.1	<0.017	<0.017	<0.017
Aroclor 1232	7.7	1.1	<0.017	<0.017	<0.017
Aroclor 1242	7.7	1.1	<0.017	<0.017	<0.017
Aroclor 1248	7.7	1.1	<0.017	<0.017	<0.017
Aroclor 1254	7.7	1.1	<0.017	<0.017	<0.017
Aroclor 1260	7.7	1.1	<0.017	<0.017	<0.017

### Groundwater Results (mg/L)

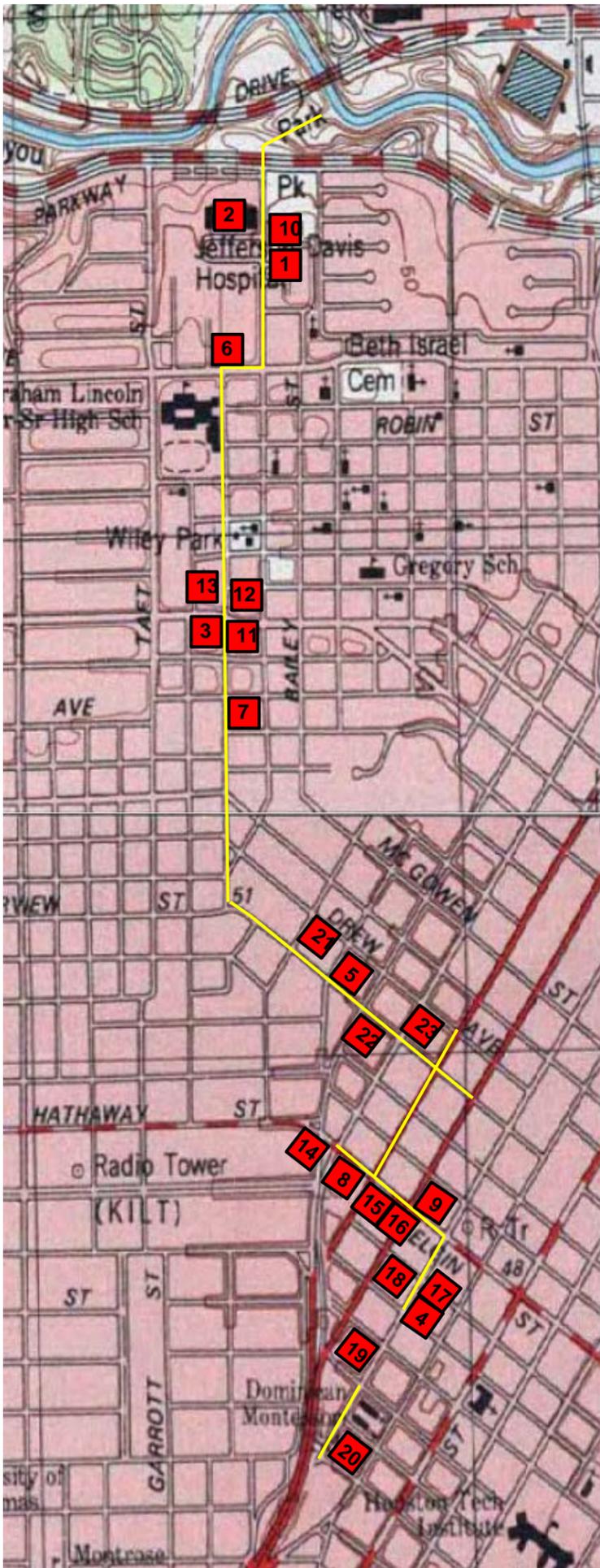
Sample	Tier 1	B-38
	<sup>GW</sup> GW <sub>Ing</sub> PCL	
Date		27-Sep-2013
<b>Analyte</b>		
Aroclor 1016	0.0005	<0.0005
Aroclor 1221	0.0005	<0.0005
Aroclor 1232	0.0005	<0.0005
Aroclor 1242	0.0005	<0.0005
Aroclor 1248	0.0005	<0.0005
Aroclor 1254	0.0005	<0.0005
Aroclor 1260	0.0005	<0.0005

Note:

**Bold print** = concentration above PCLs  
 mg/kg = milligrams per kilogram  
 mg/L = milligrams per liter or parts per million  
*BRL* = Below Reporting Limit  
 NE = None established  
 J - Estimated: The analyte was detected and identified; the associated numerical



# FIGURES



- 1) Fmr. COH PWE Facility- 801 Gillette
- 2) Fmr. Jefferson Davis Hospital- 1801 Allen Pkwy
- 3) Frederick Scaffold- 255 West Gray
- 4) H A Franz Co.- 3315 Milam
- 5) Stop N Go 2822- 305 Tuam
- 6) Aquilina Tire and Supply- 1712 West Dallas
- 7) International Laundry Machinery Inc.- 1601 West Webster
- 8) 514 Elgin Interests, LTD- 514 Elgin
- 9) Centel- 3102 Milam
- 10) Historical Auto Mechanic Shop- 711 Gillette
- 11) Historical Auto Repair Shop and Dry Cleaners with "Solvent Tank"- 225-237 West Gray
- 12) Historical Gas Station and Auto Mechanic Shop- 240 West Gray
- 13) Historical Dry Cleaner- 244 West Gray
- 14) Historical Auto Mechanic Shop- 502 Elgin
- 15) Historical Gas Station- 602 Elgin
- 16) Historical Dry Cleaners- 616 Elgin
- 17) Historical Auto Mechanic Shop- 3309 Milam
- 18) Historical Gas Station- 3316 Milam
- 19) Historical Auto Mechanic Shop- 3508 Milam
- 20) Historical Gas Station- 3715 Milam
- 21) Auto Mechanic Shop- 221 Tuam
- 22) Historical Dry Cleaners with "Solvent Tank"- 312 Tuam
- 23) Historical Auto Mechanic Shop- 401 Tuam



Site Recommended for Phase II ESA



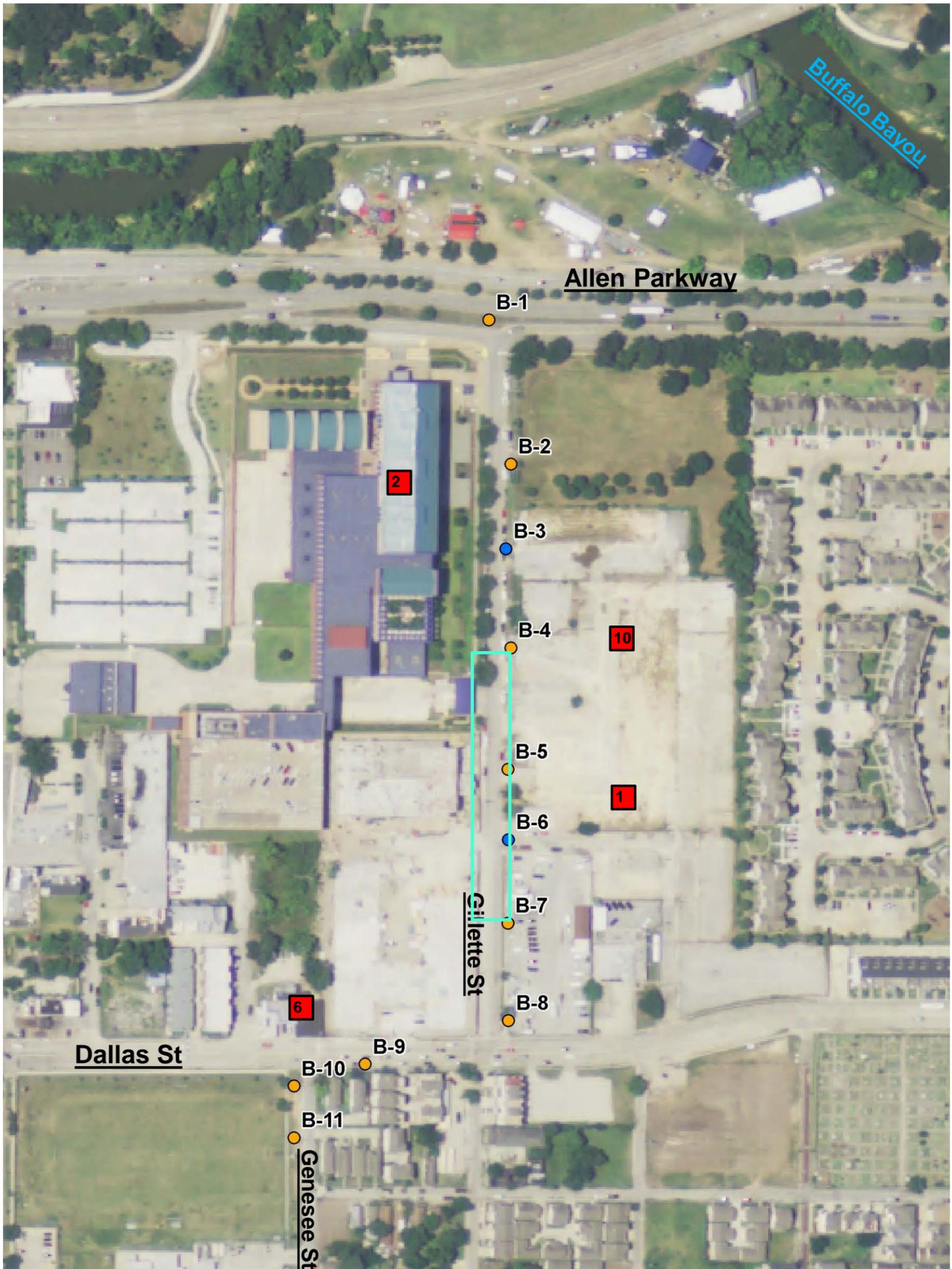
Project Area (Does not represent side of road)

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USGS 7.5' Topographic Quadrangles  
Houston Heights, Texas. 1995;  
Bellaire, Texas. 1995  
Scale: 1:24,000  
Source: GeoSearch



Project Area Map	<b>Montrose Area and Midtown Drainage and Pavement Sub-Project II</b>
Date: 11/13	
Figure 1	<b>WBS No: M-000290-002-3</b>
	



1 inch is approximately 175 feet

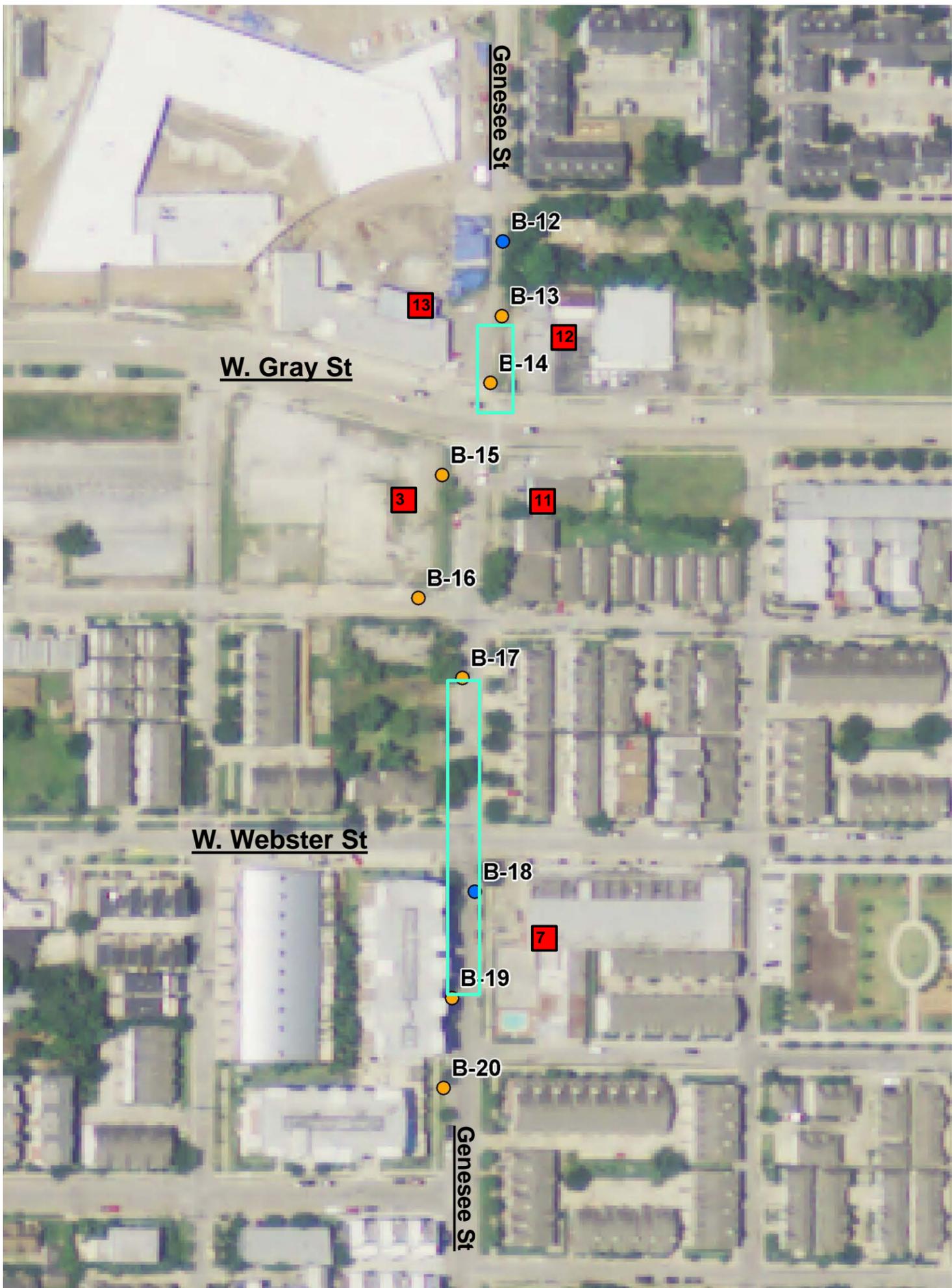
- 10 Site Recommended for Phase II ESA
- Soil Boring Location
- Temporary Monitoring Well Locations
- Approximate PPCA or PCA Area

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Boring Location Map	<b>Montrose Area and Midtown Drainage and Pavement Sub-Project II</b>
Date: 11/13	
Figure 2	<b>WBS No: M-000290-002-3</b>



1 inch is approximately 80 feet

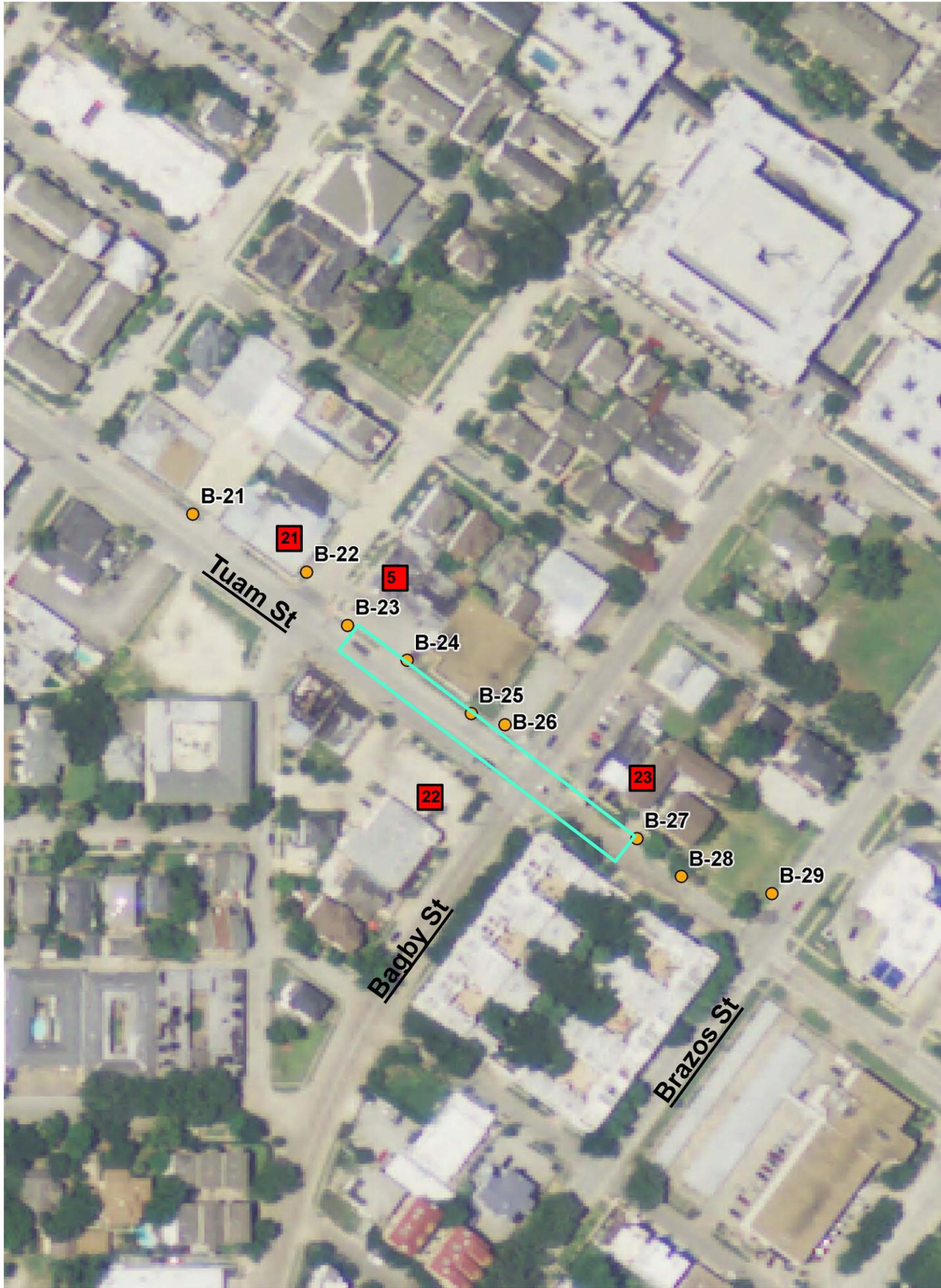
- 10 Site Recommended for Phase II ESA
- Soil Boring Location
- Temporary Monitoring Well Locations
- Approximate PPCA or PCA Area

*The information included on this graphic representation has been compiled from a variety of sources and is subject to change without notice. Kleinfelder makes no representations or warranties, express or implied, as to the accuracy, completeness, timeliness, or rights to the use of such information. This document is not intended for use as a land survey product nor is it designed or intended as a construction design document. The use or misuse of the information contained on this graphic representation is at the sole risk of the party using or misusing the information.*

Image Source:  
National Agriculture Imagery Program 2012



Boring Location Map	<b>Montrose Area and Midtown Drainage and Pavement Sub-Project II WBS No: M-000290-002-3</b>
Date: 11/13	
Figure 3	



1 inch is approximately 90 feet

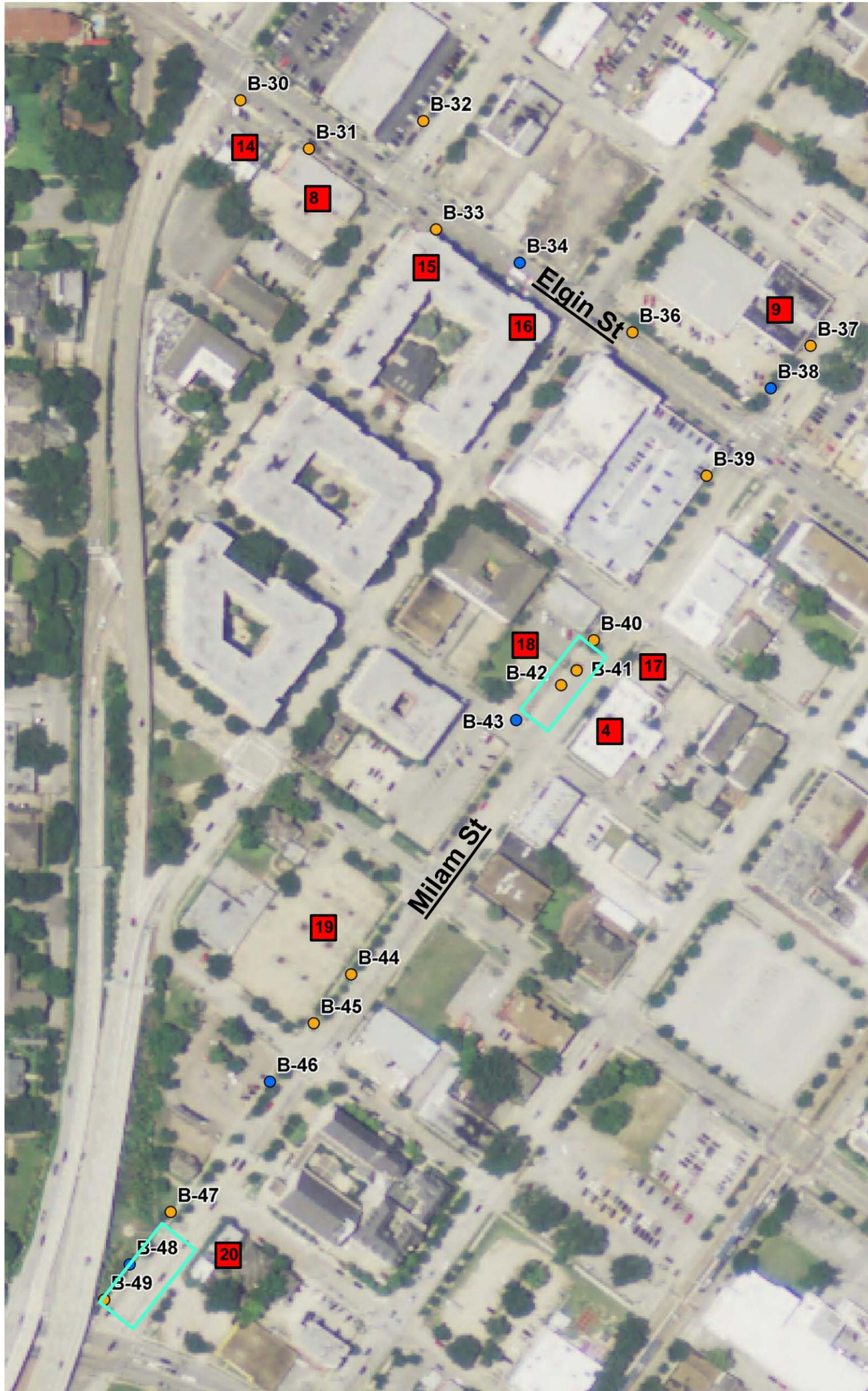
- 10 Site Recommended for Phase II ESA
- Soil Boring Location
- Temporary Monitoring Well Locations
- Approximate PPCA or PCA Area

*The information included on this graphic representation has been compiled from a variety of sources and is subject to change without notice. Kleinfelder makes no representations or warranties, express or implied, as to the accuracy, completeness, timeliness, or rights to the use of such information. This document is not intended for use as a land survey product nor is it designed or intended as a construction design document. The use or misuse of the information contained on this graphic representation is at the sole risk of the party using or misusing the information.*

Image Source:  
National Agriculture Imagery Program 2012



Boring Location Map	<b>Montrose Area and Midtown Drainage and Pavement Sub-Project II WBS No: M-000290-002-3</b>
Date: 11/13	
Figure 4	



1 inch is approximately 150 feet

- 10 Site Recommended for Phase II ESA
- Soil Boring Location
- Temporary Monitoring Well Locations
- Approximate PPCA or PCA Area

*The information included on this graphic representation has been compiled from a variety of sources and is subject to change without notice. Kleinfelder makes no representations or warranties, express or implied, as to the accuracy, completeness, timeliness, or rights to the use of such information. This document is not intended for use as a land survey product nor is it designed or intended as a construction design document. The use or misuse of the information contained on this graphic representation is at the sole risk of the party using or misusing the information.*

Image Source:  
National Agriculture Imagery Program 2012



Boring Location Map	<b>Montrose Area and Midtown Drainage and Pavement Sub-Project II WBS No: M-000290-002-3</b>
Date: 11/13	
Figure 5	



# **APPENDIX A**

Proposal, Agreement, and Qualifications



Texas Board of Professional Engineers  
*Engineering For A Better Texas*

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1 results

Results for Firm Search

Firm	Name and Address	Certified	Expires
5592	Kleinfelder Central Inc DBA Kleinfelder 7805 Mesquite Bend Drive Suite 100 Irving, TX 75063 972-868-5923	11/18/2002	11/30/2014

***Our mission is to protect the health, safety, and welfare of the people in Texas by regulating the practice of engineering through licensure of qualified individuals and compliance with the laws and rules.***

1917 S Interstate 35, Austin, TX 78741 | Phone: 512-440-7723 |  
Fax: 512-442-1414 | [info@engineers.texas.gov](mailto:info@engineers.texas.gov)

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August 19, 2013  
Proposal No.: 135090

Mr. Stephen Sparks, P.E.  
H.R. Green, Inc.  
1101 Richmond Avenue, Suite 375  
Houston, Texas 77042

**Subject: Limited Phase II Environmental Site Assessment  
Montrose Area and Midtown Drainage and  
Pavement Sub-Project II  
WBS No. M-000290-002-3  
Houston, Texas**

Dear Mr. Sparks:

Kleinfelder Central, Inc. (Kleinfelder) appreciates the opportunity to propose our professional environmental consulting services to H.R. Green, Inc. to conduct a Limited Phase II Environmental Site Assessment (ESA) of the property included in the area of the Montrose Area and Midtown Drainage and Pavement Sub-Project II (Project Area). We have previously completed a Phase I ESA for this area. We understand that the City of Houston wishes to conduct a Phase II ESA in accordance with ASTM E 1903 and the guidelines for Phase II ESAs included in the City of Houston Department of Public Works and Engineering, Infrastructure Design Manual (City Design Manual, latest revision) to further assess recognized environmental conditions (RECs) that were identified during the Phase I ESA.

Based on information obtained during the Phase I ESA, we have developed a scope of work for this Limited Phase II ESA. The scope of work is described below along with the projected schedule and the estimated cost.

### **SCOPE OF WORK**

During the Phase I ESA, a total of 23 sites were identified in the Project Area for inclusion in the Phase II ESA. Figure 3 from the Phase 1 ESA is attached, showing the locations of the REC sites. This scope of work was developed in accordance with the City of Houston Design Manual, including the following specific provisions:

- Three or more borings drilled along the proposed excavation at each REC location.
- Borings spaced approximately 100 feet apart.
- Borings drilled to a maximum of five feet below the planned excavation.
- One temporary monitoring well to be completed and a groundwater sample collected at each REC location, if groundwater is encountered.

Several of the sites listed as RECs are located near other sites, and in some cases borings can assess potential impacts from more than one site. Therefore, the sites have been grouped as shown in the table below.

The sites at which the proposed Limited Phase II ESA will be conducted are listed in the table below, along with the associated recognized environmental conditions (RECs), the proposed number of borings and the proposed analytical program.

Site Location	Recognized Environmental Conditions	Number of Borings	Number of Temporary Monitoring Wells	Analytical Program
1 - 801 Gillette	Two closed LPST sites; VCP site with documented metals impacts in soil & groundwater	8	2	TPH, BTEX, MTBE, RCRA Metals
2 - 1801 Allen Parkway	Closed LPST site; Two listings as IOP site with LNAPL, TPH, BTEX & MTBE impacts in groundwater			
10 - 711 Gillette	Former auto mechanic shop and fleet management facility			
6 - 1712 West Dallas	Auto repair shop, former gasoline station, UST site	3	1	TPH, BTEX, MTBE
13 - 244 West Gray	Former dry cleaners	6	2	TPH, VOCs
12 - 240 West Gray	Former gasoline station, former auto repair shop			
3 - 255 West Gray	UST Facility			
11 - 225 – 237 West Gray	Former auto repair facility, former dry cleaners			
7 - 1601 West Webster	Former industrial laundry	3	1	VOCs
21 - 221 Tuam	Auto repair shop	9	3	TPH, VOCs
5 - 305 Tuam	Former gasoline station, closed LPST site			
22 - 312 Tuam	Former dry cleaners			
23 - 401 Tuam	Auto repair shop			
14 - 502 Elgin	Former auto repair shop	7	2	TPH, VOCs
8 - 514 Elgin	IOP site with documented VOC impacts to soil and groundwater			
15 - 602 Elgin	Former gasoline station			

16 - 616 Elgin	Former dry cleaners			
9 - 3102 Milam	Former electric company facility, former gasoline station	3	1	TPH, BTEX, MTBE, PCBs
4 - 3315 Milam	Closed LPST site; former auto repair shop	4	1	TPH, BTEX, MTBE
17 - 3309 Milam	Former auto repair shop			
18 - 3316 Milam	Former gasoline station			
19 - 3508 Milam	Former auto repair shop	3	1	TPH, BTEX
20 - 3715 Milam	Former gasoline station	3	1	TPH, BTEX, MTBE
Totals:		49	15	

### Task 1: Preparation and Permitting

H.R. Green, Inc. has provided information concerning the depth of the proposed construction throughout the Project Area. Most of the depth information provided indicates that the depth of excavation for installation of the storm sewer line will be approximately 30 feet below ground surface (bgs). In addition, we will request detailed maps showing the boundaries of the City-owned right-of-way within the project area, along with the locations and depths of the proposed construction and the locations of known underground utility lines and other site features. Because of the potential for numerous underground utility lines to be present in the project area and the safety concern posed by those lines, we will review maps provided by H. R. Green, Inc. and will utilize a utility locating service to identify the locations of known utilities. Our representative will visit the project area along with utility company representatives to identify and mark feasible locations for drilling that will achieve the project objectives. All locations will be within the City-owned right-of-way

After identifying and marking the proposed boring locations, we will submit permit applications to the appropriate City of Houston offices. Permits will be obtained as required, but we understand that the permit fees will be waived because this is a City of Houston project. The required permits may include:

- Facility Permits for completion of borings on City-owned property,
- Roadway Obstruction Permits for any partial or complete closure of one or more lanes of traffic, and
- Street Cut Permits for any drilling locations within a City street

Facility Permits will be required for all drilling locations. Roadway Obstruction Permits are anticipated for some drilling locations, with the exact locations to be determined after the drilling locations are finalized. Street Cut Permits are not anticipated unless no other locations are feasible in order to assess a particular REC.

According to the City of Houston, PWE/Traffic and Transportation Division, Permits Section, no traffic control plan will be required unless more than one lane of a roadway is closed to traffic. It is expected that closure of no more than one lane will be required to safely complete the drilling

activities within the project area. Therefore, neither development nor implementation of a traffic control plan is included in the scope of work in this proposal. However, rental and placement of traffic control equipment is included. Information will be provided to the Traffic and Transportation Division to demonstrate that this project is being completed on behalf of the City of Houston, thereby avoiding the fees for the required permits.

Before mobilizing to the site, we will prepare a site-specific Health and Safety Plan that will outline the safety procedures to be followed by our employees. We will also coordinate the schedule for field activities with H.R. Green, Inc., the subcontracted drilling company, the analytical laboratory, and the various City of Houston offices that require notification.

## Task 2: Drilling and Sampling Activities

We will mobilize to the project area with a truck-mounted direct push drill rig operated by a State of Texas licensed driller. For the purpose of this proposal, it is projected that the drilling and sampling activities can be completed within seven working days.

### Soil Assessment

Due to the lengthy history of development in the project area and the possibility of unrecorded and unmarked utility lines, the first five feet of each boring will be hand augered.

Based on available information, the depth to groundwater in the project area ranges from approximately 17 to 35 feet below ground surface. Each soil boring will be drilled to a depth of five feet below the planned excavation depth, as described in the City of Houston Design Manual. However, in the event that groundwater is encountered in a boring before the projected total depth is reached, drilling of that boring will be discontinued unless that boring will be converted to a temporary monitoring well for collection of a groundwater sample, as described below.

If an obstruction is encountered before the projected total depth of the boring is reached, we will conduct up to two attempts to complete the boring in nearby locations, subject to the availability of feasible alternate locations based on the locations of underground utilities and aboveground obstructions. For the purpose of this proposal, it is projected that the 5 northernmost temporary monitoring wells within the corridor will be completed at a total depth of 25 feet and the remaining 10 temporary monitoring wells will be completed at a total depth of 35 feet.

Drilling and sampling equipment will be decontaminated prior to each boring to prevent cross-contamination. Continuous soil core will be collected from the ground surface to the total depth of each boring. A Kleinfelder geologist will log and describe the soils using the Unified Soil Classification System and screen the soil core for contaminant vapors using a photo-ionization detector (PID). GPS coordinates will be obtained for each boring location. We anticipate that the drilling and sampling activities can be completed within eight days.

One soil sample will be selected from each boring based on field screening readings and field observations and submitted for analysis at a laboratory that is certified through the National Environmental Laboratory Accreditation Conference (NELAC). The analytical parameters for each sample were determined based on the following system:

Concern at the Site

Analytical Parameters

Service station, underground storage

TPH by Texas Method TX1005

Tank (UST) site

BTEX & MTBE by EPA Method 8021

Auto repair facility

TPH, BTEX

Current or former dry cleaner site

Volatile organic compounds (VOCs) by EPA Method 8260

Electric company facility

Polychlorinated biphenyls (PCBs) by EPA Method 8082

The samples selected for laboratory analysis will be placed in clean, laboratory-provided sample containers, and labeled with a unique sample identification number, the requested analysis, and the initials of the sample collector. The samples will be preserved on ice for transportation to the laboratory with a completed chain-of-custody form.

Groundwater Assessment

Based on available information, groundwater in the project area is present at approximately 17 – 35 feet below ground surface (bgs). Therefore, it is considered likely that groundwater will be encountered in some or all of the borings completed for this project. If groundwater is encountered, selected borings will be converted to temporary monitoring wells to allow collection of groundwater samples. The groundwater samples will be submitted to the laboratory for analysis for the same parameters as the soil samples from that site or group of sites. For the purpose of this proposal, it is assumed that groundwater will be encountered at each of the sites and that 15 groundwater samples will be collected for analysis. If groundwater is encountered in a boring, drilling of that boring will be discontinued after penetrating to a sufficient depth to allow completion of a temporary monitoring well and collection of a groundwater sample. Borings not converted to temporary monitoring wells will be discontinued upon encountering groundwater.

Each sample will be collected using the standard industry practice of low-flow purging. These procedures were established by the TCEQ in a guidance document Groundwater Sampling-Filtering, Low Flow Purging, dated January 5, 1998. This sampling procedure is also referenced in the Texas Risk Reduction Program – Affected Property Assessment Report form. One of the primary purposes of this sampling method is to collect groundwater samples that are representative of groundwater within the groundwater-bearing unit and to avoid impacts to groundwater samples due to highly turbid samples from aggressive agitation of the water column in the monitoring well which can occur with bail-purge sampling methods.

The temporary monitoring wells will be sampled in accordance with this guidance and Kleinfelder’s technical procedures for groundwater sampling. Our field staff will monitor several field parameters during low-flow purging to determine when purged groundwater is representative of groundwater within the groundwater-bearing unit.

A groundwater sample will be collected once field parameters have stabilized in accordance with the TCEQ guidance. The samples will be collected in clean, laboratory-provided sample containers, labeled, and immediately preserved on ice in a cooler. Kleinfelder will prepare a chain-of-custody that documents the analytical requirements for the samples.

Upon completion of the sampling activities, the boreholes will be plugged by grouting the borings up to ground surface and restoring the surface cover. Investigation-derived waste (IDW), including soil cuttings and decontamination water, will be generated and will be containerized in 55-gallon drums. The containerized IDW will be removed from the project area as soon as possible after completion of the field activities. One composite soil sample and one composite water sample will be collected and analyzed for TPH, VOCs, and total (11) metals (EPA Methods 6020/7470). Upon receipt of the analytical results, the IDW will be transported for off-site disposal or recycling at an authorized facility. Copies of disposal manifests and other disposal documentation will be obtained for inclusion in the report.

### Task 3: Report Preparation

Upon receiving the analytical results, we will review the laboratory reports to ensure that proper quality assurance/quality control procedures were followed by the laboratory. However, the stringent and complex criteria of the Texas Risk Reduction Program will **not** be implemented for this project.

Upon completion of the sampling activities and receipt of the results from the laboratory, a Limited Phase II ESA Report will be prepared. The report will be prepared in accordance with the Section 11.28C of the latest City of Houston Infrastructure Design Manual. The report will include a description of the project, a summary of the results, comparison of the results to applicable regulatory standards, conclusions and recommendations, and appendices containing documentation of the project. The report will include site maps showing sample locations and data tables containing tabulated analytical results. Documentation contained in the appendices will include boring logs, copies of laboratory reports, selected site photographs, copies of field notes, and copies of waste disposal documentation.

One draft copy of the report will be submitted for review and comment. After receiving any comments, we will revise the report if necessary and will provide two hard copies and one electronic copy of the final report.

### **SCHEDULE AND COST**

Kleinfelder Central, Inc. is prepared to begin work on this project within two weeks of receipt of written authorization from H. R. Green, Inc. The work can be completed and the draft report submitted to H. R. Green, Inc. within 8 to 10 weeks. The estimated not-to-exceed cost to complete this project is included in the attached cost summary. Monthly invoices will be provided and remittance will be due within 30 days of each invoice date.

The estimated cost is based on each of the soil borings and temporary monitoring wells being completed to a depth of five feet greater than the projected depth of excavation. It is considered likely that groundwater will be encountered at somewhat shallower depths at some locations and drilling terminated at those shallower depths, which may result in a reduction of the costs associated with drilling.

### **LIMITATIONS**

The performance of an ESA is intended to reduce, but not eliminate, the uncertainty for recognized environmental conditions in connection with the Property. Only limited sampling and analysis to assess the potential presence of hazardous substances or petroleum products is

included in the scope of work for this ESA, and there is no guarantee that not finding indicators of hazardous substances or petroleum products means that these materials do not exist on the Property. This scope of work was developed to assess the release of hazardous substances or petroleum products, but is not intended to fully delineate subsurface releases or to satisfy the level of inquiry that may be necessary to support remedial solutions, if required. This scope of work was developed, in part, based on information obtained from commercial sources during the completion of the Phase I ESAs. The information obtained from these sources was assumed to be accurate and complete and was not further verified during the development of the scope of work for this project. This Limited Phase II ESA will be performed in accordance with current industry standards including ASTM E 1903. The report will be based on the information obtained and the regulations in effect at the time of the assessment.

Kleinfelder offers various levels of investigative and engineering services to suit the varying needs of different clients. It should be recognized that definition and evaluation of geologic and environmental conditions are a difficult and inexact science. Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the subsurface conditions present. Although risk can never be eliminated, more-detailed and extensive studies yield more information, which may help understand and manage the level of risk. Since detailed study and analysis involves greater expense, our clients participate in determining levels of service that provide adequate information for their purposes at acceptable levels of risk. More extensive studies, including subsurface studies or field tests, should be performed, if the Client wishes to reduce uncertainties. Acceptance of this proposal will indicate that the Client has reviewed the document and determined that it does not need or want a greater level of service than provided. It is the Client's obligation to contact Kleinfelder if it desires an explanation of any of the services offered and the risks associated therewith. Any exceptions should be noted and may result in higher fees.

During the course of the performance of Kleinfelder's services, hazardous materials may be discovered. Kleinfelder will assume no responsibility or liability whatsoever for any expense, claim, loss of property value, damage, or injury that results from or in any way connected with pre-existing hazardous materials being encountered or present on the project site, or from the discovery of such hazardous materials. Notwithstanding anything contained in this proposal to the contrary, Kleinfelder shall not assume the status of an owner, operator, generator, or person who arranges for disposal, transport, storage, or treatment of hazardous materials within the meaning of any governmental statute, regulation, or order.

Our work will be performed in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided. Our conclusions, opinions, and recommendations will be based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

This scope of work is designed to assess the immediate area of the proposed excavation and does not include the surrounding area. The scope of work does not include assessment of any potential impacts to the surrounding area that could affect the proposed excavation or construction, such as impacted groundwater that could migrate into the excavation area during dewatering.

This proposal is valid for a period of 45 days from the date of this proposal. This proposal was prepared specifically for H.R. Green, Inc. and its designated representatives and may not be provided to others without Kleinfelder's express permission.

We appreciate this opportunity to propose our services on this project and look forward to working with you. If there are any questions, please feel free to call us at 281-922-4766.

Sincerely,

**KLEINFELDER CENTRAL, INC.**

Texas Registered Engineering Firm F-5592



Roxie L. Voran, P.G.  
Senior Project Manager



Gilbert M. Long, P.E.  
Principal Professional

Attachment:

Time and materials cost breakdown



Montrose Area and Midtown Drainage & Pavement Sub-Project II				Kleinfelder Central, Inc.										
WBS No. M-000290-002-3														
Department of Public Works and Engineering				Senior Associate	Senior Geologist	Project Geologist	Field Geologist	Drafts person	Word Processor	Traffic Control	Unit of Measure	Estimated Quantity	Rate	Subtotal (Cost \$)
Proposal Breakdown														
Date: August 16, 2013														
Task No.	Task Description			Billing Rate per Hour										
				\$140.00	\$125.00	\$85.00	\$75.00	\$50.00	\$15.00	\$30.00				
<b>Environmental Site Assessment, (ESA II) * LEVEL OF EFFORT</b>														
<b>Field Exploration</b>														
1	Drilling Rig Mobilization / Demobilization									LS	1	\$400.00	\$400.00	
2	Drilling and Sampling (Geoprobe)									DAY	7	\$1,500.00	\$10,500.00	
3	Sampling Supplies									DAY	7	\$25.00	\$175.00	
4	Temporary Well Materials									FT	475	\$5.00	\$2,375.00	
5	Waste Disposal-Storage, Disposal, Transportation									EA	1	\$1,125.00	\$1,125.00	
6	Equipment Rental-PID,Pump,GPS,Traffic Control									DAY	7	\$375.00	\$2,625.00	
<b>Laboratory Testing</b>														
7	TPH - (46 Soil, 14 Water)									EA	60	\$60.00	\$3,600.00	
8	BTEX/MTBE - (21 Soil, 6 Water)									EA	31	\$55.00	\$1,705.00	
9	VOCs -(25 Soil, 8 Water)									EA	33	\$115.00	\$3,795.00	
10	RCRA Metals - (8 Soil, 2 Water)									EA	10	\$95.00	\$950.00	
11	PCBs - (3 Soil, 1Water)									EA	4	\$70.00	\$280.00	
12	TPH - IDW									EA	2	\$60.00	\$120.00	
13	VOCs - IDW									EA	2	\$115.00	\$230.00	
14	Total 11 Metals - IDW									EA	2	\$120.00	\$240.00	
<b>Traffic Control</b>														
15	Flagman									0			\$0.00	
16	Peace Officer									32			\$960.00	
<b>Engineering and Management</b>														
17	City Permits, Utility Clearance, Health & Safety Plan			2	1	16	6		2					\$2,315.00
18	Site Visit, Travel, Field Work, Waste Management					70	20							\$7,450.00
19	QA/QC			2										\$280.00
20	Report, Draft and Final				2	32		8	6					\$3,870.00
	<b>Sub-total Hours</b>			4	3	118	26	8	8					\$13,915.00
<b>** Reimbursable Expenses</b>														
<b>Details</b>														
21	Travel Expenses (mileage)													\$226.00
22	Postage / Courier													\$50.00
													<b>Total:</b>	<b>\$43,271.00</b>

\* Level of Effort should be ordinary, realistic and reasonable  
 \*\* Copy of actual receipts will be required for reimbursable expenses at the time of invoicing

# LETTER OF TRANSMITTAL



**HRGreen**

11011 Richmond Avenue, Suite 375  
Houston, TX 77042  
713.965.9996

Date:	September 4, 2013
HRG Job No.	85110005
Attn:	Roxie L. Voran, P.G.
Re:	Montrose Area and Midtown Drainage and Pavement Sub-Project II; WBS No. M-000290-0002-3

To: Kleinfelder Central, Inc.  
12000 Aerospace Avenue, Suite 450  
Houston, Texas 77034

We are sending you the following items:

- Attached
- Under Separate Cover
- Via USPS

- Plans
- Contract
- Submittals
- Addendum
- Specifications
- Invoice
- Change Order
- Authorization to Proceed (ATP)

Remarks:

*Received*

SEP 09 2013

*Kleinfelder-Houston*

No. of Copies	Date	Description
1	8/21/2013	Authorization to Proceed – Limited Phase II Environmental Site Assessment for Montrose Area and Midtown Drainage and Pavement Sub-Project II

- For Approval
- For Processing
- Resubmit \_\_\_\_\_ Copies for approval
- For Your Use
- For Filing
- Submit \_\_\_\_\_ Copies for distribution
- As Requested
- Returned for corrections
- Return \_\_\_\_\_ Corrected copies
- For Review
- Plans Returned After Loan To Us
- For Bids Due \_\_\_\_\_

Copies to: \_\_\_\_\_ Signed: \_\_\_\_\_  
Susan Nguyen, Administrative Assistant  
On Behalf of Stephen A. Sparks, PE



# CITY OF HOUSTON

Department of Public Works and Engineering

Annise D. Parker

Mayor

Daniel W. Krueger, P.E.  
Director  
P.O. Box 1562  
Houston, Texas 77251-1562

T. 832-395-2500  
F. 832-395-2342  
www.houstontx.gov

August 21, 2013

Mr. Stephen Sparks, P.E.  
Project Manager  
H.R. Green, Inc.  
11011 Richmond Avenue, Suite 375  
Houston, Texas 77042

Re: Authorization to Proceed with Phase II –Additional Services  
for Montrose Area and Midtown Drainage and Pavement Sub-Project II  
WBS No. M-000290-0002-3; Ord. No. 2011-0561; Contract No. 4600010969

Dear Mr. Sparks:

This letter shall serve as your notice to proceed with the following services:

**BASIC SERVICES**

None authorized at this time.

**ADDITIONAL SERVICES**

Phase II Environmental \$  
Site Assessment

Total \$.

The Basic and Additional Services Fee authorized herein is a not-to-exceed agreed upon amount of \$ . The Basic Services authorized are payable in accordance with Article 3.2, Phase 1 - Preliminary Design of your contract. The Additional Services authorized are payable in accordance with Article 3.3 of your contract.

Please submit an updated Exhibit "B" project schedule within ten (10) days of this notice to proceed The milestone for completion of these services will be established in the proposed project schedule.

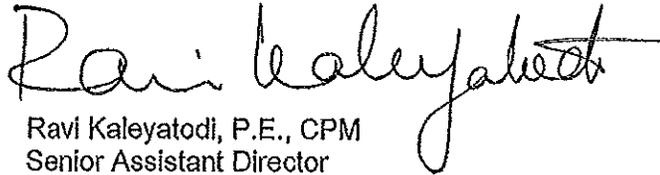
Mr. Stephen Sparks, P.E.  
August 21, 2013  
Page 2 of 2

Authorization from the City must be obtained prior to proceeding with any future Basic and Additional Services and/or making any changes to the agreed project schedule.

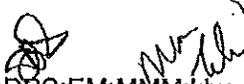
Please include the WBS Number(s), Contract Number(s), and the type of services on all future invoices, correspondence and reports.

If you have any questions regarding this authorization, please contact the Storm Water Engineering Section: Dane P. Schneider, P.E., Managing Engineer at (832)395-2288 or Melissa M. Meyer, P.E., Project Manager, at (832) 395-2424.

Sincerely,



Ravi Kaleyatodi, P.E., CPM  
Senior Assistant Director  
Engineering Branch  
Engineering and Construction Division



RK:DPS:EM:MMM:kiw

H:\design\STORM WATER ENGINEERING\SECTION00 - PROJECTS\Wentosa Area + Midform (M-0290-2) - D11\_C013.0 FINAL DESIGN (Ph 2)\3.1 Authorizations\L-AUT HR Green Ph2 ADS M-0290-2 08212013.doc

Enclosure: Proposal dated August 19, 2013 from Mr. Sparks to Mr. Dane Schneider

c: Daniel R. Menendez, P.E.  
File Copy: WBS No. M-000290-0002-3 (AUT 2.1)



# CITY OF HOUSTON

Public Works and Engineering  
Department

## Interoffice

Correspondence

To: Dane P. Schneider, P.E.  
Managing Engineer  
Engineering Branch  
Engineering and Construction  
Division

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

Date: August 20, 2013

Attn: Melissa Meyer, P.E.

Subject: PHASE II ENVIRONMENTAL SITE  
ASSESSMENT (ESA II) REVISED 2  
PROPOSAL REVIEW FOR MONTROSE AREA  
AND MIDTOWN DRAINAGE AND PAVEMENT-  
SUBPROJECT 2  
WBS No. M-000290-0002-3

In response to your request on August 20, 2013, we have reviewed the ESA II Revised 2 Proposal (Attachment) prepared by Kleinfelder Central, Inc. (Kleinfelder) for H.R. Green, Inc., the City's design consultant for the subject project.

Kleinfelder's ESA II Revised 2 proposed amount (\$) is close to our estimation range. To expedite the progress of the project, Kleinfelder should be allowed to proceed with the ESA II of the project alignment according to the scope of work specified in the proposal.

The geotechnical investigation of this project should be conducted prior to this ESA II. Contaminants encountered during geotechnical investigation, if any, will be delineated during the ESA II. It should be noted that drilling geotechnical borings near the sites of Recognized Environmental Conditions (REC), as identified in the Phase I Environmental Site Assessment (ESA I) of the project alignment, should be avoided.

Kleinfelder must notify the City's Geo-Environmental Services Branch Inspector (Glenn Boggan at 832-395-2270) forty-eight (48) hours prior to drilling operation.

We look forward to reviewing Kleinfelder's ESA II Draft Report in the near future. If you have any questions, please call Maher Tanbouz, P.E. at 832-395-2260 or Chad Samani, P.E. at 832-395-2259.

Mike Pozeshki, P.E.

MCS jc

MP:MT:MCS:jc

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Attachment: Kleinfelder's ESA II Revised 2 Proposal No. 135090, dated August 19, 2013

cc: Daniel R. Menendez, P.E.  
Ravi Kaleyatodi, P.E., CPM

## PROJECT STAFF RÉSUMÉS

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**ROXIE VORAN**  
**Senior Project Manager**

*Summary of Experience*

Mr. Voran has more than 20 years of experience in project management, site investigations, and removal/remedial actions at hazardous waste sites. He has managed multi-site task order contracts including consulting services contracts for the Texas Department of Transportation from 1995 through 2012, Railroad Commission of Texas from 2004 through 2012, and previously with the City of Houston, Houston METRO, and other governmental agencies. He routinely manages staff and project schedules to ensure that client schedules are achieved. He directs work on leaking petroleum storage tank (LPST) sites and non-LPST sites, including site assessments, site investigations, risk assessments, establishment of site-specific cleanup standards, corrective action activities, contractor oversight, soil and groundwater remediation, and site closures.

He has conducted and managed Phase I and Phase II environmental site assessments (ESAs) and closure projects for infrastructure construction projects, industrial facilities and single parcel property acquisitions utilizing the Texas Risk Reduction Program (TRRP), LPST program, Texas Railroad Commission standards, and Voluntary Cleanup Program (VCP). He has managed hazardous waste site investigation and corrective action projects for industrial clients and established clean-up standards using risk-based procedures. He has provided litigation support consulting on more than 10 cases, testifying as an expert witness on two occasions and as a fact witness on another case. These cases have involved migration of contamination onto neighboring property and the discovery of environmental liabilities from previous site activities.

PROJECT MANAGER: Mr. Voran has over 30 years of experience, including 21 years as an environmental consultant with previous experience working as a petroleum geologist. He has managed multi-site contracts for local and state governmental agencies including previous City of Houston contracts, as well as contracts with Harris County, Houston METRO, TxDOT, Texas Railroad Commission, and federal agencies. These contracts involved Phase I and II ESAs for property acquisition; compliance and permitting; site investigations under Texas Risk Reduction Program (TRRP) and LPST regulations; spill response; remedial system design; bid documents and construction specifications; and remedial action cleanups for a wide variety of sites.

He has achieved a high degree of client satisfaction and has been complimented by his clients for his diligence in resolving problems and his ability to accommodate their needs on a daily basis. One of his strengths is obtaining closure of sites using the regulatory framework for risk assessments and risk-based closures.

*Education*

MBA, Business. University of Houston, Clear Lake, Texas, 1991  
MS, Geology. Kansas State University, Kansas, 1977  
BS, Geology. Kansas State University, Kansas, 1975

## ***Registrations***

Professional Geologist (P.G.), No.1788, TX,

## ***Project Experience***

The following is a representative selection of Roxie Voran's project experience.

### *Harris County - Downtown Fueling Center LPST Site - From 2008 To 2012*

Managed accelerated assessment activities at this site that had been designated as a leaking petroleum storage tank site in the early 1990s. Previous consultants had installed monitoring wells and removed light non-aqueous phase liquid (LNAPL) by hand bailing and placement of absorbents in wells. Cone penetrometer was used together with the rapid optical screening tool (ROST) to obtain a detailed stratigraphic framework for the site and to define areas with maximum remaining LNAPL. Additional monitoring wells were installed after obtaining permits for well installation in public rights-of-way. A 72-hour mobile dual phase extraction (MDPE) event was conducted and monitored to determine the optimal duration of future events, if needed.

### *Texas Army National Guard - Statewide LPST Assessments - From 1996 To 2001*

Mr. Voran managed projects to conduct assessment activities at more than 20 underground storage tank (UST) sites located at facilities across the state to verify previous reports of releases and to characterize the nature and extent of soil and groundwater impacts. The assessments included surface and subsurface oil and groundwater sample collection where additional was needed to follow up UST removals and make accurate determinations concerning possible releases. Monitoring wells were installed at two sites with documented groundwater contamination. Due to the presence of light non-aqueous phase liquid (LNAPL) at one site, a product skimming system was designed and installed to remove the LNAPL.

### *Aldine Independent School District - LPST Assessment and Closure - From 2008 To 2011*

Managed the assessment and groundwater monitoring for a leaking petroleum storage tank site at a school district bus and fleet fueling facility. A release was documented at the site during UST removal. Groundwater contamination was confirmed and monitoring wells were installed to delineate the groundwater impact. A Drinking Water Survey was conducted and identified more than 70 private water wells within one-half mile of the site. As a result, installation of two additional monitoring wells was required. Groundwater monitoring was conducted to demonstrate stability of the contamination plume and the TCEQ approved closure of the site.

### *City of Houston - Former Holmes Road Incinerator Site - From 2001 To 2005*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Served as Project Manager for the assessment to identify and characterize the nature and extent of chemicals of concern in soil and groundwater at a former incinerator site where incinerator ash had been buried on a portion of the site. More than 25 soil borings were completed on the site to assess the extent of Protective Concentration Level Exceedance

(PCLE) Zones in native soil and fill material. Installation of monitoring wells verified that the impacts were limited to surface and subsurface soil. Mr. Voran negotiated with the TCEQ to divide the site into two Partial Response Action Areas (PRAAs). Remediation of several small areas of soil by excavation was completed in one of the PRAAs resulting in approval of closure for that area. The other PRAA included more than two acres where incinerator ash had been buried and elevated lead concentrations were documented. A Response Action Plan (RAP) was completed for the second PRAA including the use of a proposed parking lot as an engineering control to function as a cap over the area and prevent exposure. The RAP was approved by the TCEQ, but not implemented pending resolution of funding issues. A Screening Level Ecological Risk Assessment (SLERA) was also completed for the site.

*Texas Department of Transportation - FM 681 Phase II ESA - From 2011 To 2011*

Mr. Voran directed a Phase II Environmental Site Assessment for a 5-mile segment of Farm-to-Market Road 681 in Hidalgo County, Texas. The project was completed in support of planned roadway and utility improvements. Five areas of concern had been identified within or adjacent to the right-of-way including four existing or former underground storage tank (UST) facilities and one industrial facility with petroleum products stored in aboveground tanks. Soil borings and temporary monitoring wells were completed at each of the five areas.

*Chiang, Patel & Yerby - Oak Estates Water Line Replacement - From 2011 To 2011*

Mr. Voran managed a Phase II environmental site assessment (ESA) in support of a City of Houston water line replacement project in an area of southwest Houston. The Phase II ESA assessed 12 areas of concern that had been identified during the Phase I ESA. These included current and former dry cleaners, a former dry cleaner site with documented off-site contamination, UST facilities, and automotive repair facilities. Utility clearance was completed and permits were obtained as required for drilling on City of Houston property. Soil borings were completed as near as possible to the areas of proposed water line replacement and in accordance with City of Houston guidelines. The soil samples were collected and analyzed and a report was prepared to document the results.

*Parsons Brinckerhoff - Kelly Parkway Corridor Study - From 2000 To 2003*

Mr. Voran managed a hazardous materials transaction screen of a corridor study area located adjacent to the former Kelly Air Force Base in San Antonio, Texas, on behalf of the Texas Department of Transportation. Preliminary historical research and field surveys were conducted to identify the presence of hazardous substances and petroleum products and obvious evidence of past spills and releases within the corridor study area and adjoining properties. Environmental issues involved hazardous materials sites including the Kelly Air Force Base, a large rail yard, several industrial facilities, and more than 60 commercial facilities such as gas stations, drycleaners, junk yards, auto body shops and landfills. The project also included attending public meetings and providing assistance to staff a public information office.

*Texas Department of Transportation - South Loop Drive Property - From 2011 To 2011*

Mr. Voran managed a Phase II environmental site assessment (ESA) of a property adjacent to a TxDOT facility in Waco, Texas, that was being considered for acquisition to facilitate possible expansion. The property was formerly used as an auto salvage facility and an underground storage tank (UST) facility. Soil borings and temporary monitoring wells were completed in areas of previous site activities considered likely to have possibly caused a release. IN addition, records were reviewed for a hazardous materials incident related to a fire at the former auto salvage yard. Soil borings were also completed in that area to assess potential impacts.

*Texas Department of Transportation - Business Highway 146 at Goose Creek - From 2010 To 2010*

Mr. Voran managed a subsurface investigation investigation and preparation of a Soil and Groundwater Management Plan for a bridge replacement project. The site was located within the Goose Creek Oil Field where oil production had been established since before 1915. Evidence of hydrocarbon contamination was noted in geotechnical borings that were completed within Goose Creek prior to the placement of bridge support structures within the Creek. Soil borings were then completed in the locations of all support structures that were planned for the replacement bridge. The borings were completed from a floating platform using Vibracore drilling technology. The Management Plan was prepared based on the analytical results from samples collected from the Vibracore borings. The Management Plan was then implemented by the contractor during construction of the replacement bridge.

*Parker Systems - Harrisburg Property - From 2007 To 2010*

Mr. Voran managed a soil and groundwater investigation of a former small manufacturing facility in east Houston. Soil borings were completed in the area of a loading dock where metals had been detected during a previous assessment. Additionally, monitoring wells were installed to assess chlorinated solvent contamination that had previously been detected in groundwater. Tetrachloroethylene and degradation products were detected in groundwater samples from wells installed near a floor drain and in the downgradient direction from the drain. Wells were also installed on the upgradient area of the property to assess possible impacts from former dry cleaner facilities that were formerly located across the street from the property. Mr. Voran also provided support to the client, working with the client's attorney, during negotiations for sale of the property.

*Buffalo Lakes, Ltd. - Phase II Environmental Site Assessment - From 2008 To 2009*

Mr. Voran managed a Phase II environmental site assessment (ESA) for a proposed roadway in a newly developed subdivision. The developer was working in conjunction with the City of Houston and the ESA was conducted in accordance with the City's guidelines. The proposed roadway was located within the area of the Pierce Junction Oil Field, in which oil production was established before 1920. Three former oil well sites were identified within the footprint of the roadway. Soil borings and temporary monitoring wells were completed to assess possible soil and groundwater impacts.

**GILBERT LONG**  
**Principal Professional**

***Summary of Experience***

Mr. Long has over 40 years of experience in the chemical and environmental engineering field, including 24 years of experience in remediation system evaluation and design and remedial construction management. His experience includes a broad background in evaluating many different remedial technologies from air sparging to bioremediation; designing remedial systems for soil and groundwater remediation including pump and treat, air sparging, dual phase extraction and bioremediation; overseeing the installation, start-up, and operation and maintenance (O&M) of remedial systems; evaluating the effectiveness of treatment systems over time; preparing bid documents for remedial construction; providing remedial construction oversight, inspections and management; preparing reports and PE Certifications for RCRA unit closures and unit installations.

***Education***

MS, Chemical Engineering. University of Massachusetts, Amherst, Massachusetts, 1973  
BS, Chemical Engineering. Lafayette College, Pennsylvania, 1970

***Registrations***

Professional (P.E.) - Chemical, No.86475, Texas Board of Professional Engineers, TX,

***Certifications***

Texas Commission on Environmental Quality (TCEQ), No. CAPM01561, State: TX, Awarded: 11/30/2001

OSHA 40-Hour HAZWOPER, State: NAT, Awarded: 12/01/1987

OSHA 8-Hour Refresher, No. 111114539913, State: NAT, Awarded: 11/14/2011

OSHA 8-Hour Supervisor Training, No. 158933, State: NAT, Awarded: 12/08/2008

***Professional Affiliations***

American Institute of Chemical Engineers, member. From Date:01/01/2001 End Date:12/31/2012

Society of American Military Engineers, member, Readiness & Homeland Security Committee. From Date:01/01/2004 End Date:12/31/2012

***Project Experience***

The following is a representative selection of Gilbert Long's project experience.

**Design/Build Wetlands Mitigation**

*Port of Houston Authority - From 9/22/2004 To 10/15/2006*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Mr. Long served as project manager and directed the design, construction, planting and

maintenance of a wetlands mitigation project encompassing approximately 70 acres, on a design/build contract. He successfully completed construction of the high-visibility project to the monitoring phase within a very tight schedule.

### **Soil Stabilization, Oilfield Waste Pit**

*Confidential Client, Snyder, TX - From 6/1/2005 To 6/1/2006*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Mr. Long conducted a technical review of remediation technologies for the site materials after an extensive investigation, and identified a remediation method that would halve the remediation cost. He oversaw the conduct of the remediation activities by a subcontractor and completed a closure report for the state agency.

### **Dual Phase Extraction and Vapor Extraction**

*Confidential Client, Houston, TX - From 2/1/2001 To 6/1/2003*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Mr. Long managed the operation of a Dual Phase Extraction and Vapor Extraction System at a Leaking Petroleum Storage Tank (LPST) site in Texas. After four years of ineffective operation by another environmental firm, Mr. Long achieved a dramatic increase in on-line time and obtained permission to cease recovery after 18 months of operation.

### **Landfarm and Biopile Operations**

*Montana Pole and Wood Treating Superfund Site - From 11/1/1999 To 6/1/2001*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Mr. Long provided technical guidance for the operation of the Land Treatment Unit and Soil Staging/Pretreatment Piles at the Montana Pole and Wood Treating Site, and was responsible for the development of the Site-wide Operation and Maintenance Manual. The pretreatment piles utilize a vapor movement system to aerate the soil and promote bioventing.

### **USACE Vapor Extraction Engineering Manual**

*US Army Corps of Engineers, Omaha, NE - From 6/1/1994 To 3/1/1996*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Mr. Long was a co-author of the Engineering Manual for Soil Vapor Extraction for the U.S. Army Corps of Engineers. He also developed and taught portions of the USACE PROSPECT course for vapor extraction to design engineers.

### **Dry Cleaner Site Remediation**

*Confidential Client, Houston, TX - From 2/1/2003 To 8/1/2003*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Mr. Long managed the excavation and disposal of soil impacted by perchloroethylene and daughter products from dry cleaner effluent into a leaking sewer pipe. He also directed the sampling and analysis program after injections of Fentons reagent (catalyzed hydrogen peroxide) and potassium permanganate to treat the groundwater plume at the site.

### **Biopile SITE Demonstration**

*NYSDEC, Rochester, NY - From 4/1/1994 To 2/1/1995*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Mr. Long designed and oversaw the operation of two biopiles at a New York State Superfund site as part of a demonstration project under the EPA SITE Program. The piles operated in barely aerobic mode to simultaneously degrade chlorinated hydrocarbons and ketones.

### **NPDES Permit Design**

*Confidential Client, LaPorte, TX - From 6/1/2000 To 12/31/2001*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Mr. Long managed and provided technical direction to a project to improve the collection and capture of solids from a polyethylene manufacturing plant, in order to bring the plant into compliance with its NPDES permit conditions. The project started as a conceptual design and options analysis for the existing plant wastewater/ stormwater system, and grew to include several design/build installations on an accelerated schedule. Two design/build projects were completed within six months of authorization.

### **Industrial Wastewater Study**

*Confidential Client, Houston, TX - From 2/1/2002 To 10/31/2002*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Mr. Long supported a wastewater reduction study for a food manufacturing plant. The intent of the program was to reduce the wastewater processing fees charged by the city by 50%. He designed the testing program to provide effluent quantity and quality estimates to provide a basis for savings estimation, oversaw the data collection, identified the major opportunities for reduction in flow, Total Suspended Solids and Biological Oxygen Demand (the basis for additional city surcharges). The project resulted in identification of 50% reduction in discharge costs at minimum capital cost.

### **Chrome Recovery from Plating Solution**

*Confidential Client, Colorado Springs, CO - From 8/1/1999 To 10/31/1999*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Mr. Long designed and conducted a pilot test of chrome (+3) recovery through re-oxidation in a novel plating bath configuration using a "dummy" cell. He designed the cell, developed the testing protocols, oversaw the test runs and reduced the data. Projected savings are approximately 2 percent of incoming total chrome feed, plus elimination of significant disposal costs for precipitated chrome. As a result, total savings are anticipated in the \$400k to \$500k per year range.

### **EHS Site-specific Training ' Power Company**

*Southern California - From 3/1/2006 To 10/1/2006*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Mr. Long participated as one of eight trainers to provide site-specific EHS training to all employees of a major power company. Each site required a visit to determine the site-specific

requirements, development of a presentation using a template, and presentation to three groups (all employees, field workers and management).

### **Remedial Design and Construction Oversight**

*Confidential Client, Freeport, Texas - From 6/1/2011 To 12/31/2011*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Mr. Long provided the engineering design of a liner system for a RCRA unit closure and conversion of the area to a process unit. He coordinated the liner design with several other design elements of the new unit, including foundation structures, sheet pile walls and a new retaining wall to ensure that the liner system met the needs of the RCRA closure without compromising the unit design. He provided oversight for the construction phase of the liner and co-wrote the work plan and closure certification report for the RCRA unit.

### **Remedial Investigation and Response Action**

*Confidential Client, Freeport, Texas - From 10/1/2010 To 2/15/2011*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Mr. Long directed the investigation and reporting of a release of Non-aqueous Phase Liquid (NAPL) in an excavation for a new process unit adjacent to a solvent tank farm. He led the development of the Affected Property Assessment Report (APAR) under the Texas Risk Reduction Program, and proposed a remediation method that was accepted without comment by the state agency. The remediation is being implemented and monitored.

### **RCRA Permit Renewal**

*Confidential Client, Freeport, Texas - From 12/15/2011 To 3/15/2012*

Mr. Long revised the engineering reports for three permitted units within a catalyst recycling facility related to RCRA permit modifications, and supervised the revision of two additional permitted unit engineering reports related to a RCRA permit renewal.

### **Response Action Plan development**

*Confidential Client, Texas City, Texas - From 6/15/2011 To 12/31/2011*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Mr. Long managed the field investigation and development of a Response Action Plan to remediate a benzene pipeline release in a major port. He coordinated cost allocations between the site owner and the owner of the pipeline; managed the development of the field planning for the plan, including the installation of three new monitoring/recovery wells, numerous NAPL baildown tests, and comprehensive groundwater sampling and analysis; and managed the development of the remediation plans for the site.

### **Integrated Contingency Plan development and maintenance**

*Confidential Client, Deer Park and Pasadena, Texas - From 3/30/2010 To 12/15/2011*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Mr. Long completed the development of Integrated Contingency Plans (ICPs) for two specialty chemical manufacturing plants near the Houston Ship Channel. The facilities included pipelines

and rail storage areas as well as the typical tanks and process areas. Agency reviews resulted in only minor comments which were promptly addressed.

#### **RCRA Unit Closure Certification**

*chemical manufacturing facility, Bay City, Texas - From 9/15/2011 To 3/20/2012*

Mr. Long provided the engineering oversight for the closure of a RCRA permitted unit at a chemical manufacturing facility. He reviewed and revised the closure plan; witnessed the key steps of the closure process; participated in preparation and review of the closure report; and provided professional engineering certification of the closure report. The report was accepted by the Texas Commission on Environmental Quality with no comments.

#### **RCRA Unit Closure Certification**

*confidential client, Deer Park, Texas - From 9/1/2010 To 6/8/2012*

Mr. Long certified the design and installation of two hazardous waste storage tanks at a chemical facility. The certification included tightness testing of the tanks and systems.

#### **Transaction Support, 9 Power Plants**

*Confidential Client, South Texas - From 3/1/2005 To 6/1/2005*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Mr. Long managed the environmental due diligence project for the buyer of 9 power plants throughout south Texas. Rather than merely supply a Phase 1 ESA for each site, the project team developed cost estimates for both the site impairment liability and compliance liability, and assisted in the negotiation of the Purchase and Sale Agreement (PSA) between the parties to allocate all the environmental risk in the transaction.

#### **Transaction Support, 14 Power Plants**

*Confidential Client, Texas Gulf Coast - From 9/1/2005 To Present*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Mr. Long managed the environmental due diligence project for the buyer of 14 power plants throughout the Texas Gulf Coast. The project team developed cost estimates for both the site impairment liability and compliance liability, and assisted in the negotiation of the Purchase and Sale Agreement (PSA) between the parties to allocate all the environmental risk in the transaction. The team also transferred all of the permits to the new owner after the sale.

#### **Transaction Support, 3 Refineries**

*Confidential Client, northern Louisiana - From 8/1/2005 To Present*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Mr. Long managed the due diligence project for the refinancing of three refineries in northern Louisiana. Coordinating internal and subcontracted resources using the due diligence templates developed for similar projects, the project was completed on a very tight schedule in spite of the arrival of a hurricane.

### **Transaction Support, Petroleum Refinery, Pipelines and Terminals**

*Confidential Client, west Texas - From 7/1/2005 To Present*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Mr. Long managed the due diligence project for the acquisition of three terminals and connecting pipelines adjacent to a west Texas refinery. While these reports were similar to Phase 1 ESA work, costs were also developed for compliance improvement and site impairment.

### **Transaction Support, 19 Hazardous Waste Processing Facilities**

*Confidential Client, multiple states - From 3/1/2006 To Present*

\*\*\*\*\*Non-Kleinfelder Project\*\*\*\*\*

Mr. Long managed the due diligence project for the purchase of 19 waste processing facilities across the United States. The project was directly by buyer's counsel and considerable communications with counsel were required to convey the risks and liabilities accurately.

### **Response Action Plan Preparation**

*Confidential Client, Freeport, Texas - From 9/1/2012 To 1/1/2013*

Mr. Long managed the preparation of a Response Action Plan for a confidential chemical manufacturer in Texas. He led the development of the remediation strategy for the site based on the site data for metals concentrations in soil, and oversaw the production and submission of the plan in the prescribed format under the Texas Risk Reduction Program (TRRP) requirements. The plan is currently under review by the Texas Commission on Environmental Quality.

### **Spill Response Coordination**

*Confidential Client, Deer Park, Texas - From 11/20/2012 To 12/31/2013*

Mr. Long managed the response to a release of hazardous material from a vault adjacent to a clients' chemical plant. He led a team that provided real-time pH monitoring during the excavation phase beneath two railroad tracks and above numerous chemical product pipelines; arranged for laboratory confirmation of the field results; provided analytical profiling results for the material to be disposed; and produced and submitted the response report for the release within the mandated 30 working day schedule.

### **Emission Control Study**

*Confidential Client, Freeport, Texas - From 9/1/2012 To 3/1/2013*

Mr. Long provided process engineering support for an emissions control study to determine the process requirements to bring an emission point into compliance with permit conditions. He designed a set of laboratory tests to determine carbon sources in the plant, oversaw the testing and results analysis, and participated in the development of options to reduce carbon emissions.

### **Process Flow Diagram Development**

*Confidential Client, Freeport, Texas - From 2/1/2013 To Present*

Mr. Long managed the updating and preparation of specific process flow diagrams (PFDs) to meet the requirements of an air permit study and modification for a chemical manufacturing

facility. He led a team of engineers to confirm the flow diagrams that were available for the plant, and developed PFDs for streams that were not included in the existing set of PFDs.

***Publications and Papers***

co-author, *Practical Environmental Remediation: the Field Guide* , Lewis Publishers , 1998 ,  
Bioremediation

co-author, *Practical Environmental Remediation* , Lewis Publishers , 1992 , Bioremediation

author, *Clean Up Hydrocarbons Effectively* , Chemical Engineering Progress , 1993 ,  
remediation

author, *Different Perspectives of Remediation* , NAEP Journal , 1993 , remediation

co-author, *Comparison of Biopile Effectiveness with Land Treatment* , International Petroleum  
Environmental Conference , 2001 , remediation

co-author, *A Holistic Technical Approach to Industrial Wastewater Treatment/ Management* ,  
South Texas Environmental Conference, Corpus Christi, Texas , 1999 , Industrial Wastewater  
Treatment

co-author, *Design/Build Projects for a Public Agency: Lessons Learned* , Proceedings of the  
2007 World Environmental and Water Resources Congress , 2007 , Design/Build

co-author, *Environmental Due Diligence - a Useful Bargaining Tool* , Storage Terminals  
Magazine , 2012 , Environmental Due Diligence

## **WARREN BROWN**

### **Professional**

#### *Summary of Experience*

Mr. Brown has gained a wide variety of environmental experience including conducting Phase I and II Environmental Site Assessments (ESAs); storm water regulatory compliance audits of operating facilities; investigating and delineating soil and groundwater contamination; spill response and remediation oversight; and preparing reports and obtaining closure under the Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP) and Leaking Petroleum Storage Tank (LPST) program. Mr. Brown has been involved in extensive groundwater sampling projects at hazardous waste sites. He has sampled groundwater monitoring wells using low-flow and bail-purge protocols and assessed groundwater field parameters including turbidity, dissolved oxygen, pH, temperature, specific conductance, and oxygen-reduction potential. He has experience utilizing a variety of field equipment including interface probes, photo-ionization detectors, multi-gas detectors, pH meters, multi-parameter meters and GPS equipment.

#### *Education*

BS, Geology. University of Texas, San Antonio, Texas, 2009

#### *Registrations*

Geologist-in-Training (G.I.T.), No.GIT-45, Texas Board of Professional Geoscientist, TX, 2013

#### *Project Experience*

The following is a representative selection of Warren Brown's project experience.

##### *Petrochemical Plant, Harris County, Texas - From 2011 To Present*

Brief Summary: Operation and maintenance on a groundwater recovery and treatment system at a petrochemical facility.

Specific Role: Mr. Brown documented effluent volumes, maintenance and calibration of flow rates, and cleaning/troubleshooting pumps, regulators, power systems and effluent handling systems. Also participated in evaluating the effectiveness of the system and with system repairs.

##### *International Creosoting Superfund Site, Beaumont, Texas - From 2011 To 2011*

Brief Summary: Prepare turbidity monitoring plan in support of a bridge reconstruction project taking place in a bayou included in a state Superfund Site.

Specific Role: Mr. Brown researched the history of the International Creosoting Superfund Site, and prepared a turbidity monitoring plan to identify procedures to be followed to assess the effectiveness of sediment control measures during bridge construction.

*Abandoned Oil Well, League City, Texas - From 2011 To 2012*

Brief Summary: Remedial Investigation and related activities to characterize nature and extent of chemicals of concern (hydrocarbons) in earthen pits, soils and groundwater.

Specific Role: Mr. Brown led pit investigations which included surface/subsurface soil and groundwater sample collection; installation of monitor wells in groundwater-bearing units; and sediment thickness measurements within earthen pits to determine soil volume for excavation/removal.

*Sinkhole, Liberty County, Texas - From 2011 To Present*

Brief Summary: Remedial Investigation and related activities to characterize nature and extent of chemicals of concern (hydrocarbons) in the sinkhole and underlying groundwater.

Specific Role: Mr. Brown assisted in the assessment shallow and deep groundwater interaction with the sinkhole water, characterization of the bottom of the sinkhole, and water sampling of discrete intervals in the sinkhole water column in order to model the volume of contaminated water at different layers in the sinkhole. Mr. Brown also assisted with remedial investigation activities which included collection of subsurface soil samples; installation of deep and shallow monitoring wells using a mud rotary drilling rig; collection of groundwater samples from monitor wells; and waste characterization.

*Leaking Storage Tank Site, Pearland, Texas - From 2011 To Present*

Brief Summary: Vapor monitoring, Site Assessment and related activities to characterize nature and extent of chemicals of concern (hydrocarbons) in soils and groundwater.

Specific Role: Mr. Brown served as a team member for 24-hour monitoring to monitor for vapors in manholes at an LPST site where a contractor was injured during construction activities. Mr. Brown subsequently installed soil borings and groundwater monitoring wells during a subsurface assessment of the site.

*Groundwater Contamination Plume, Galveston County, Texas - From 2011 To Present*

Brief Summary: Characterize and determine the extent of an LNAPL contamination plume in the groundwater of two sites in Galveston County, Texas.

Specific Role: Mr. Brown participated in a series of groundwater sampling events at two contaminated sites. Groundwater monitoring wells were gauged using an interface probe and sampled for metals and VOCs using low-flow protocol. Mr. Brown also prepared maps and cross sections displaying groundwater gradients and the extent of contamination.

*Railroad Commission of Texas - Howard Property - Harris County, Texas - From 2011 To 2011*

Mr. Brown performed the investigation of a residential property in Harris County, Texas to assess possible impacts from an abandoned pipeline. The subdivision was constructed in the area of a former oil field and the resident's swimming pool required repeated repair and resurfacing. After a heavy rain exposed a section of pipeline in an adjacent ditch, the resident filed a complaint with the Railroad Commission, alleging that the damage was caused by leakage from

the abandoned pipeline. The investigation included completion of 8 soil borings in the immediate area of the swimming pool and the exposed pipeline using an ATV-mounted direct push drill rig. A small area of hydrocarbon-affected soil was documented near the end of the pool with the most damage. Results were provided to the Railroad Commission to be used in negotiating responsibility for corrective action with oil companies that formerly operated in the field.

*Texas Department of Transportation - Bolivar Ferry Sediment Sampling - From 2011 To 2011*

Mr. Brown collected sediment samples in the area of the Bolivar Ferry Landing in Galveston County, Texas. Dredging of the sediment was required to facilitate continued access by the ferry boats. TxDOT wanted to use the dredged sediment for beach renourishment elsewhere in the Galveston area, and sampling and analysis was needed to ensure that chemicals in the sediment would not create exposure hazards for members of the public using the beaches. A subcontracted marine construction company was utilized to obtain sediment cores up to 15 feet in length on a modified grid pattern adjacent to the ferry landing. Concentrations of chemicals of concern were detected in the sediment samples and were compared to protective concentration levels (PCLs) established by the Texas Commission on Environmental Quality under the Texas Risk Reduction Program.

*Oak Estates Water Line Replacement - Houston, Texas - From 2011 To 2011*

Mr. Brown conducted a Phase II environmental site assessment (ESA) in support of a City of Houston water line replacement project in an area of southwest Houston. The Phase II ESA assessed 12 areas of concern that had been identified during the Phase I ESA. These included current and former dry cleaners, a former dry cleaner site with documented off-site contamination, UST facilities, and automotive repair facilities. Utility clearance was completed and permits were obtained as required for drilling on City of Houston property. Soil borings were completed as near as possible to the areas of proposed water line replacement and in accordance with City of Houston guidelines. The soil samples were collected and analyzed for parameters appropriate to the potential source and a report was prepared to document the results.



# **APPENDIX B**

Well Permits

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

PERMIT NO: CIP 13-09-01

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Gillette St (between Allen Pkwy & W Dallas St) (EB-1) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-02

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Gillette St (between Allen Pkwy & W Dallas St) (EB-2) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-03

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Gillette St (between Allen Pkwy & W Dallas St) (EB-3) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-04

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Gillette St (between Allen Pkwy & W Dallas St) (EB-4) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-05

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Gillette St (between Allen Pkwy & W Dallas St) (EB-5) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at [glenn.boggan@houstontx.gov](mailto:glenn.boggan@houstontx.gov) a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-06

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Gillette St (between Allen Pkwy & W Dallas St) (EB-6) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-07

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Gillette St (between Allen Pkwy & W Dallas St) (EB-7) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-08

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Gillette St (between Allen Pkwy & W Dallas St) (EB-8) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at [glenn.boggan@houstontx.gov](mailto:glenn.boggan@houstontx.gov) a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-09

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Near W Dallas St & Genesee St Intersection (EB-9) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at [glenn.boggan@houstontx.gov](mailto:glenn.boggan@houstontx.gov) a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-10

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Near W Dallas St & Genesee St Intersection (EB-10) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at [glenn.boggan@houstontx.gov](mailto:glenn.boggan@houstontx.gov) a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-11

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Near W Dallas St & Genesee St Intersection (EB-11) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-12

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Near W Gray St & Genesee St Intersection (EB-12) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at [glenn.boggan@houstontx.gov](mailto:glenn.boggan@houstontx.gov) a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-13

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Near W Gray St & Genesee St Intersection (EB-13) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-14

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Near W Gray St & Genesee St Intersection (EB-14) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-15

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Near W Gray St & Genesee St Intersection (EB-15) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-16

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Near W Gray St & Genesee St Intersection (EB-16) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-17

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Near W Gray St & Genesee St Intersection (EB-17) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-18

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Near W Webster St & Genesee St Intersection (EB-18) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-19

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Near W Webster St & Genesee St Intersection (EB-19) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-20

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Near W Webster St & Genesee St Intersection (EB-20) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at [glenn.boggan@houstontx.gov](mailto:glenn.boggan@houstontx.gov) a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-21

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Tuam St (between Helena St & Balwin St) (EB-21) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-22

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Tuam St (between Helena St & Balwin St) (EB-22) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at [glenn.boggan@houstontx.gov](mailto:glenn.boggan@houstontx.gov) a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-23

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Tuam St (between Balwin St & Bagby St) (EB-23) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-24

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Tuam St (between Balwin St & Bagby St) (EB-24) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-25

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Tuam St (between Balwin St & Bagby St) (EB-25) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at [glenn.boggan@houstontx.gov](mailto:glenn.boggan@houstontx.gov) a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-26

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Tuam St (between Balwin St & Bagby St) (EB-26) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-27

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Tuam St (between Bagby St & Brazos St) (EB-27) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-28

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Tuam St (between Bagby St & Brazos St) (EB-28) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-29

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Tuam St (between Bagby St & Brazos St) (EB-29) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at [glenn.boggan@houstontx.gov](mailto:glenn.boggan@houstontx.gov) a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-30

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Elgin St (near Elgin St & Smith St Intersection) (EB-30) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-31

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Elgin St (near Elgin St & Smith St Intersection) (EB-31) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-32

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Elgin St (near Elgin St & Smith St Intersection) (EB-32) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-33

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Elgin St (between Smith St & Louisiana St) (EB-33) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-34

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Elgin St (between Smith St & Louisiana St) (EB-34) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at [glenn.boggan@houstontx.gov](mailto:glenn.boggan@houstontx.gov) a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-35

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Elgin St (between Smith St & Louisiana St) (EB-35) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-36

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Elgin St (near Louisiana St & Elgin St Intersection) (EB-36) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at [glenn.boggan@houstontx.gov](mailto:glenn.boggan@houstontx.gov) a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-37

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Milam St (near Milam St & Elgin St Intersection) (EB-37) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-38

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Milam St (near Milam St & Elgin St Intersection) (EB-38) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-39

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Milam St (near Milam St & Elgin St Intersection) (EB-39) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-40

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Milam St (between Stuart St & Francis St) (EB-40) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at [glenn.boggan@houstontx.gov](mailto:glenn.boggan@houstontx.gov) a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-41

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Milam St (between Stuart St & Francis St) (EB-41) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
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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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-42

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Milam St (between Stuart St & Francis St) (EB-42) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-43

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Milam St (between Stuart St & Francis St) (EB-43) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
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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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-44

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Milam St (between Holman St & Berry St) (EB-44) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-45

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Milam St (between Holman St & Berry St) (EB-45) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-46

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Milam St (between Holman St & Berry St) (EB-46) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-47

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Milam St (between Winbern St & W Alabama St) (EB-47) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at [glenn.boggan@houstontx.gov](mailto:glenn.boggan@houstontx.gov) a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-48

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Milam St (between Winbern St & W Alabama St) (EB-48) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

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

PERMIT NO: CIP 13-09-49

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 application made for this permit having been approved; said Facility Permit is hereby issued to:

Kleinfelder, Permittee,  
For the placement or maintenance of:

Environmental test bore

At the following location:

Along Milam St (between Winbern St & W Alabama St) (EB-49) (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*

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

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 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 Inspector at glenn.boggan@houston.tx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.



# APPENDIX C

Site Vicinity Map





# **APPENDIX D**

Boring Logs and State of Texas Well Reports



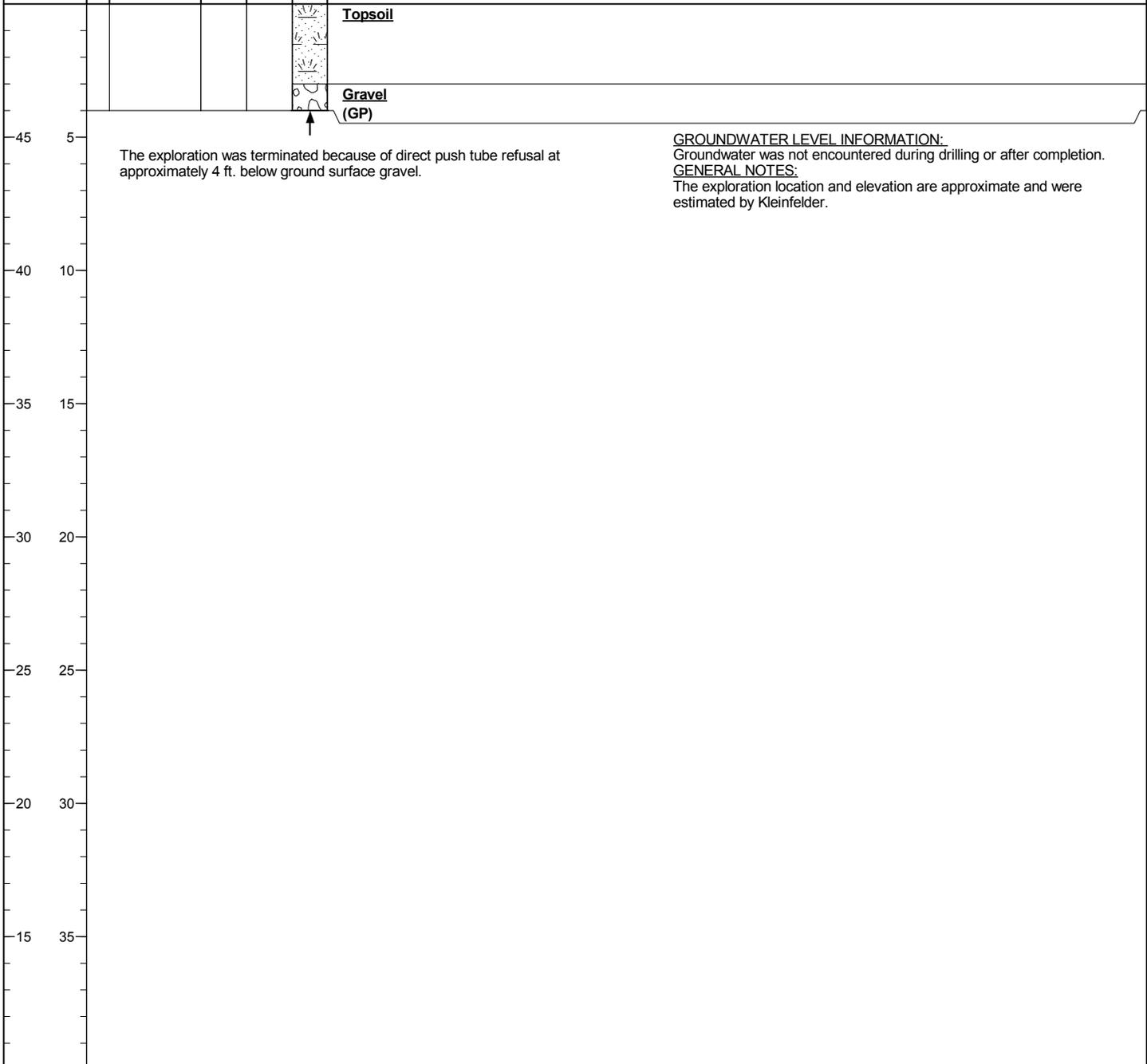
**Date Begin - End:** 9/19/2013      **Drilling Company-Lic.#** Envirotech Drilling - #58171  
**Logged By:** W. Brown      **Drill Crew:** I. Fuentes  
**Hor.-Vert. Datum:** WGS84 -      **Drilling Equipment:** Geoprobe 7720DT      **Hammer Type - Drop:** 15000 lb. Auto - 48 in.  
**Plunge:** -90 degrees      **Drilling Method:** Geo-Probe  
**Weather:**      **Bore Log Diameter:** 2 inches in. O.D.

**BORING LOG B-2A**

FIELD EXPLORATION

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
------------------------------	--------------	-------------	---------------	---------------------------	------------------	---------------

Latitude: 29.76044° N  
 Longitude: -95.38301° W  
 Approximate Surface Elevation (ft.): 50.0  
 Surface Condition: Grass



**GROUNDWATER LEVEL INFORMATION:**  
 Groundwater was not encountered during drilling or after completion.  
**GENERAL NOTES:**  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

GINT FILE: C:\users\public\documents\bentley\gint\project\str Green Montrose -Midtown Phase II.gpj P:\KLF\_STANDARD\_GINT\_LIBRARY\_SR.1.2.GLB [KLF\_ENVIRONMENTAL LOG]

	PROJECT NO.: 136524 DRAWN BY: WTB CHECKED BY: DATE: REVISED:	<b>BORING LOG B-2A</b>	
		Montrose/Midtown Phase II ESA Houston, TX	

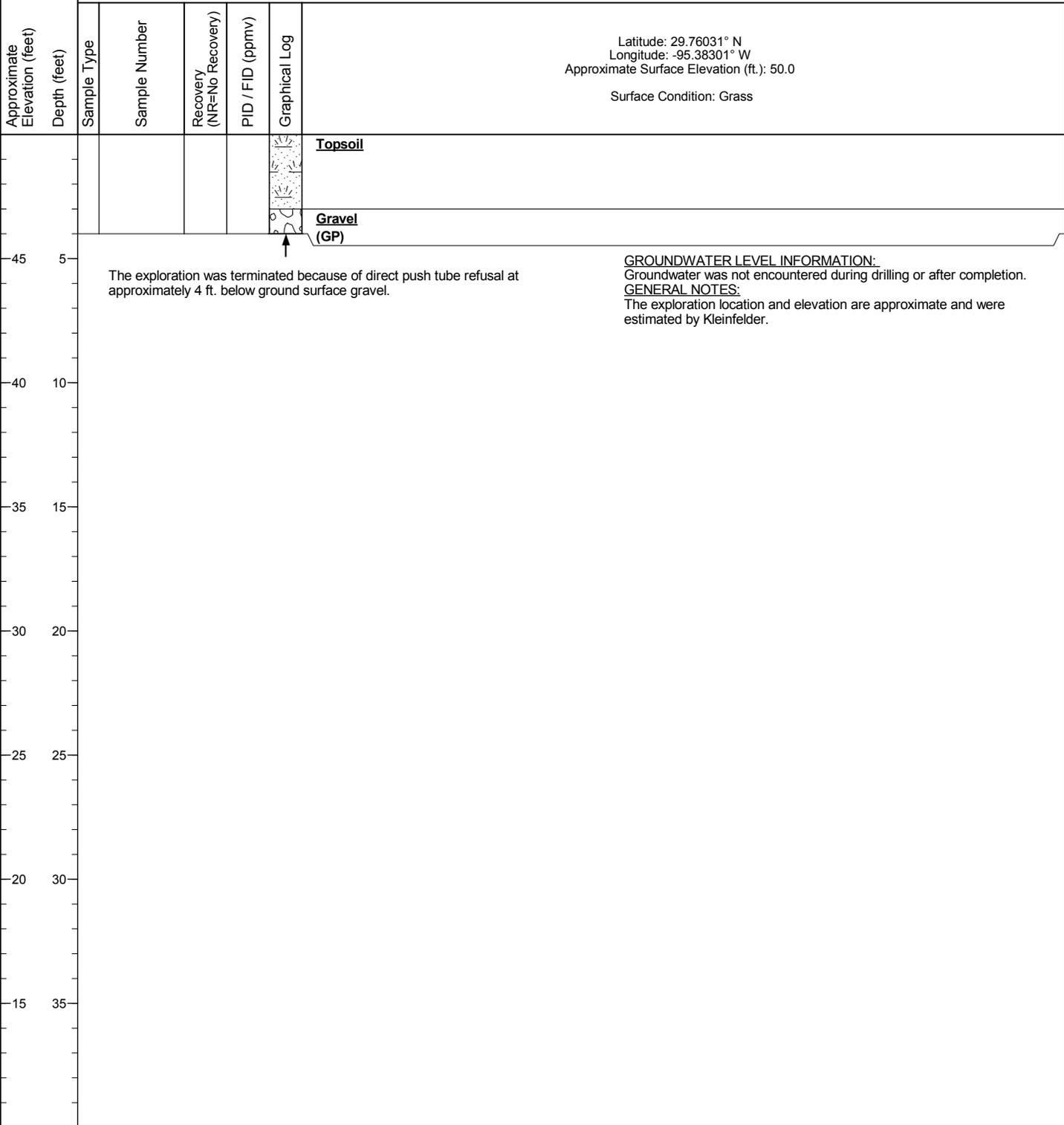
Date Begin - End: 9/19/2013  
 Logged By: W. Brown  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-2B**

FIELD EXPLORATION

Latitude: 29.76031° N  
 Longitude: -95.38301° W  
 Approximate Surface Elevation (ft.): 50.0  
 Surface Condition: Grass



GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

GINT FILE: C:\users\public\documents\bentley\gint\project\shtr Green Montrose -Midtown Phase II.gpj P:\KLF\_STANDARD\_GINT\_LIBRARY\_SR.1.2.GLB [KLF\_ENVIRONMENTAL LOG]



PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-2B**

Montrose/Midtown Phase II ESA  
 Houston, TX

**Date Begin - End:** 9/19/2013  
**Logged By:** J. Smith  
**Hor.-Vert. Datum:** WGS84 -  
**Plunge:** -90 degrees  
**Weather:**

**Drilling Company-Lic.#** Envirotech Drilling - #59171  
**Drill Crew:** I. Fuentes  
**Drilling Equipment:** Geoprobe 7720DT  
**Drilling Method:** Geo-Probe  
**Bore Log Diameter:** 2 inches in. O.D.

**TEMPORARY WELL LOG B-3**

**Hammer Type - Drop:** 15000 lb. Auto - 48 in.

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	VOC Reading (ppm)	Graphical Log	FIELD EXPLORATION		TEMPORARY WELL CONSTRUCTION	
							Latitude: 29.76004° N Longitude: -95.38303° W Approximate Surface Elevation (ft.): 47.0 Surface Condition: Grass	Completion Method: Plugged with bentonite after a grab sample was collected		
					0		<b>Topsoil</b>			
-45					0		<b>Clay - silty, brown, dry</b> <b>Caliche observed (CL)</b>			
	5				0				1" SCH 40 Solid PVC Riser	
-40					0		<b>Sand - fine grained, brown and yellow, soft/loose (SM)</b>			
	10				0					
-35					0					
	15				0					
-30					0					
	20				0					
-25					0		<b>Sand - clayey, gray, moist (SC)</b>			
	25				0				1" SCH 40 Slotted 0.010 PVC Screen	
-20							<b>Sand - fine grained, red, wet (SP)</b>			
	30									
-15										
	35									
-10										

The exploration was terminated at approximately 35 ft. below ground surface

**GROUNDWATER LEVEL INFORMATION:**  
 ∇ Groundwater was observed at approximately 26 ft. below ground surface during drilling.  
**GENERAL NOTES:**  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.  
 A PID - UltraRAE3000 was used for environmental field screening.

GINT FILE: C:\users\public\documents\bentley\gint\project\str Green Montrose -Midtown Phase II.gpj P:\KLF\_STANDARD\_GINT\_LIBRARY\_SR.1.2.GLB [KLF\_ENVIRONMENTAL LOG]



PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**TEMPORARY WELL LOG B-3**

Montrose/Midtown Phase II ESA  
 Houston, TX

**Date Begin - End:** 9/19/2013  
**Logged By:** W. Brown  
**Hor.-Vert. Datum:** WGS84 -  
**Plunge:** -90 degrees  
**Weather:**

**Drilling Company-Lic.#** Envirotech Drilling - #59171  
**Drill Crew:** I. Fuentes  
**Drilling Equipment:** Geoprobe 7720DT  
**Drilling Method:** Geo-Probe  
**Bore Log Diameter:** 2 inches in. O.D.

**BORING LOG B-4**

FIELD EXPLORATION

Latitude: 29.75958° N  
 Longitude: -95.38299° W  
 Approximate Surface Elevation (ft.): 49.0  
 Surface Condition: Grass

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
					0	<b>Asphalt</b>
					0	<b>Clay - silty and sandy, brown, mottled red and gray, soft to firm (CL)</b>
45	5				0	
					0	
40	10				0	
					0	
35	15				0	<b>Sand - fine grained, red, wet (SP)</b>
30	20					
25	25					
20	30					
15	35					
10						

The exploration was terminated at approximately 16 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 ∇ Groundwater was observed at approximately 13 ft. below ground surface during drilling.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

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PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-4**

Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/19/2013  
 Logged By: W. Brown  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-5**

FIELD EXPLORATION

Latitude: 29.75901° N  
 Longitude: -95.38299° W  
 Approximate Surface Elevation (ft.): 51.0  
 Surface Condition: Asphalt

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
-50					38		<b>Asphalt</b>
					53		<b>Clay - silty, gray and brown, moderate hydrocarbon odor that increases with depth</b> Caliche and sand lenses observed (CL)
	5				109		
-45					76.5		
					89		
-40	10				99.6		
					78		<b>Sand - fine grained, brown, moist, moderate to strong hydrocarbon odor (SC)</b>
	15				-		
-35					184		
					313		
-30	20				-		
					61		
	25				-		
-25					422		
					434		
-20	30				631		<b>Sand - fine grained, clayey, gray, wet (SC)</b>

The exploration was terminated at approximately 32 ft. below ground surface

**GROUNDWATER LEVEL INFORMATION:**  
 ∇ Groundwater was observed at approximately 32 ft. below ground surface during drilling.  
**GENERAL NOTES:**  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

GINT FILE: C:\users\public\documents\bentley\gint\project\shtr Green Montrose -Midtown Phase II.gpj P:\KLF\_STANDARD\_GINT\_LIBRARY\_SR\_1.2.GLB [KLF\_ENVIRONMENTAL LOG]



PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-5**

Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/19/2013  
 Logged By: J. Smith  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

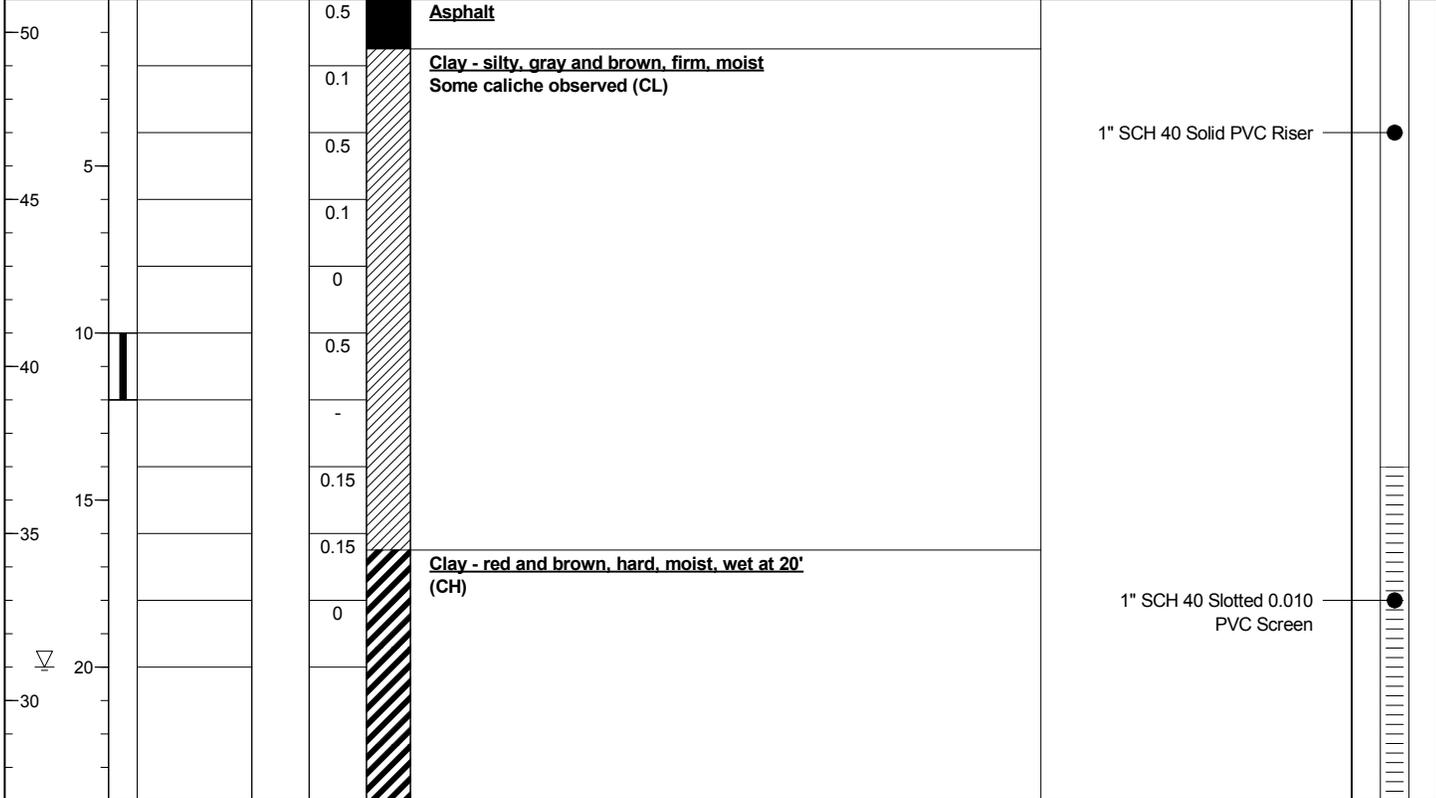
**TEMPORARY WELL LOG B-6**

FIELD EXPLORATION | TEMPORARY WELL CONSTRUCTION

Approximate Elevation (feet) | Depth (feet) | Sample Type | Sample Number | Recovery (NR=No Recovery) | VOC Reading (ppm) | Graphical Log

Latitude: 29.75868° N  
 Longitude: -95.38298° W  
 Approximate Surface Elevation (ft.): 51.0  
 Surface Condition: Asphalt

Completion Method:  
 Plugged with bentonite after a grab sample was collected



The exploration was terminated at approximately 24 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 ∇ Groundwater was observed at approximately 20 ft. below ground surface during drilling.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.  
 A PID - UltraRAE3000 was used for environmental field screening.

GINT FILE: C:\users\public\documents\benley\gint\project\shtr Green Montrose -Midtown Phase II.gpj P:\KLF\_STANDARD\_GINT\_LIBRARY\_SR.1.2.GLB [KLF\_ENVIRONMENTAL LOG]

	PROJECT NO.: 136524	TEMPORARY WELL LOG B-6
	DRAWN BY: WTB	
CHECKED BY:	Montrose/Midtown Phase II ESA	
DATE:	Houston, TX	
REVISED:		

Date Begin - End: 9/20/2013  
 Logged By: W. Brown  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-7**

FIELD EXPLORATION

Latitude: 29.75829° N  
 Longitude: -95.38298° W  
 Approximate Surface Elevation (ft.): 51.0  
 Surface Condition: Asphalt

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
-50					-		<b>Asphalt</b>
					0		<b>Clay - silty, gray, soft to firm, moist, mottled yellow and black (CL)</b>
5					0		
45					0		
					0		
10					0		
40					0		<b>Clay - red, firm to hard Caliche and sand lenses observed (CH)</b>
					0		
15					0		
35					0		
▽							<b>Sand - fine grained, red, wet (SC)</b>
20							
30							<p>The exploration was terminated at approximately 20 ft. below ground surface</p> <p><u>GROUNDWATER LEVEL INFORMATION:</u>            ▽ Groundwater was observed at approximately 18 ft. below ground surface during drilling.</p> <p><u>GENERAL NOTES:</u>            The exploration location and elevation are approximate and were estimated by Kleinfelder.</p>
25							
25							
30							
20							
35							
15							

GINT FILE: C:\users\public\documents\bentley\gint\project\shtr Green Montrose -Midtown Phase II.gpj P:\KLF\_STANDARD\_GINT\_LIBRARY\_SR.1.2.GLB [KLF\_ENVIRONMENTAL LOG]

 <p><b>KLEINFELDER</b> Bright People. Right Solutions.</p>	PROJECT NO.: 136524	<b>BORING LOG B-7</b>  Montrose/Midtown Phase II ESA Houston, TX
	DRAWN BY: WTB CHECKED BY: DATE: REVISED:	

Date Begin - End: 9/20/2013  
 Logged By: W. Brown  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-8**

FIELD EXPLORATION

Latitude: 29.75783° N  
 Longitude: -95.38296° W  
 Approximate Surface Elevation (ft.): 51.0  
 Surface Condition: Asphalt

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
50					-		<b>Asphalt</b>
					0		<b>Clay - silty, gray, firm to hard, slight odor at 6'</b> Caliche observed (CL)
5					0		
45					0		
					0		
10					0		
40					0		
					0		
15					0		<b>Clay - red and gray, firm to hard, moist</b> increased caliche observed (CH)
35					0		
					0		
20					0		
30					0		
					0		
25					-		
25					-		
					0		
30					0		
20					0		
					0		
35					0		
15							<p>The exploration was terminated at approximately 35 ft. below ground surface</p> <p><b>GROUNDWATER LEVEL INFORMATION:</b>            Groundwater was not encountered during drilling or after completion.</p> <p><b>GENERAL NOTES:</b>            The exploration location and elevation are approximate and were estimated by Kleinfelder.</p>

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PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
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**BORING LOG B-8**

Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/23/2013  
 Logged By: J. Smith  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-9**

FIELD EXPLORATION

Latitude: 29.75761° N  
 Longitude: -95.38372° W  
 Approximate Surface Elevation (ft.): 50.0  
 Surface Condition: Concrete

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
					0.15	Concrete
					0.15	Road base material
					0.15	Clay - silty, firm, gray and brown, moist (CL)
					0.55	
					1.1	
45	5				0.76	
					0.75	
40	10				2.2	
					0.85	
35	15				1.2	
					0.5	
30	20				-	
					1.35	
25	25				1.2	
					0.6	
20	30				0.95	
					0	
15	35				-	

The exploration was terminated at approximately 36 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.



PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-9**  
 Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/23/2013  
 Logged By: J. Smith  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-10**

FIELD EXPLORATION

Latitude: 29.75750° N  
 Longitude: -95.38410° W  
 Approximate Surface Elevation (ft.): 51.0  
 Surface Condition: Grass

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
50	0				0.35	<b>Topsoil</b>
					0	<b>Clay - silty, brown, firm to hard, mottled red and black</b> <b>Caliche observed (CL)</b>
5					0.4	
45					0.85	
					0.15	
10					0.65	
40					1.05	
					0.3	
15					0.85	<b>Clay - red and gray, hard, moist</b> <b>(CH)</b>
35					0.6	
					0	
20					0	
30					0	
					0	
25					0	
					0	
25					0	
					0	
30					0	
20					0	
					0	
35					1.05	
15						

The exploration was terminated at approximately 36 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.



PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-10**  
 Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/23/2013  
 Logged By: J. Smith  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-11**

FIELD EXPLORATION

Latitude: 29.75726° N  
 Longitude: -95.38410° W  
 Approximate Surface Elevation (ft.): 51.0  
 Surface Condition: Grass

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
-50					0.6	
					0.6	
	5				0.95	
-45					0.55	
					0.8	
-40	10				0.6	
					1.6	
					1.45	
-35	15				1	
					0.9	
-30	20				1.1	
					0.75	
					1.1	
-25	25				1.65	
					1.45	
-20	30				0	
					0	
-15	35				0	

**Topsoil**  
**Clay - silty, gray and brown, hard, moist (CL)**

The exploration was terminated at approximately 36 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

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PROJECT NO.: 136524  
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 DATE:  
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**BORING LOG B-11**  
 Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/23/2013  
 Logged By: J. Smith  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.# Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

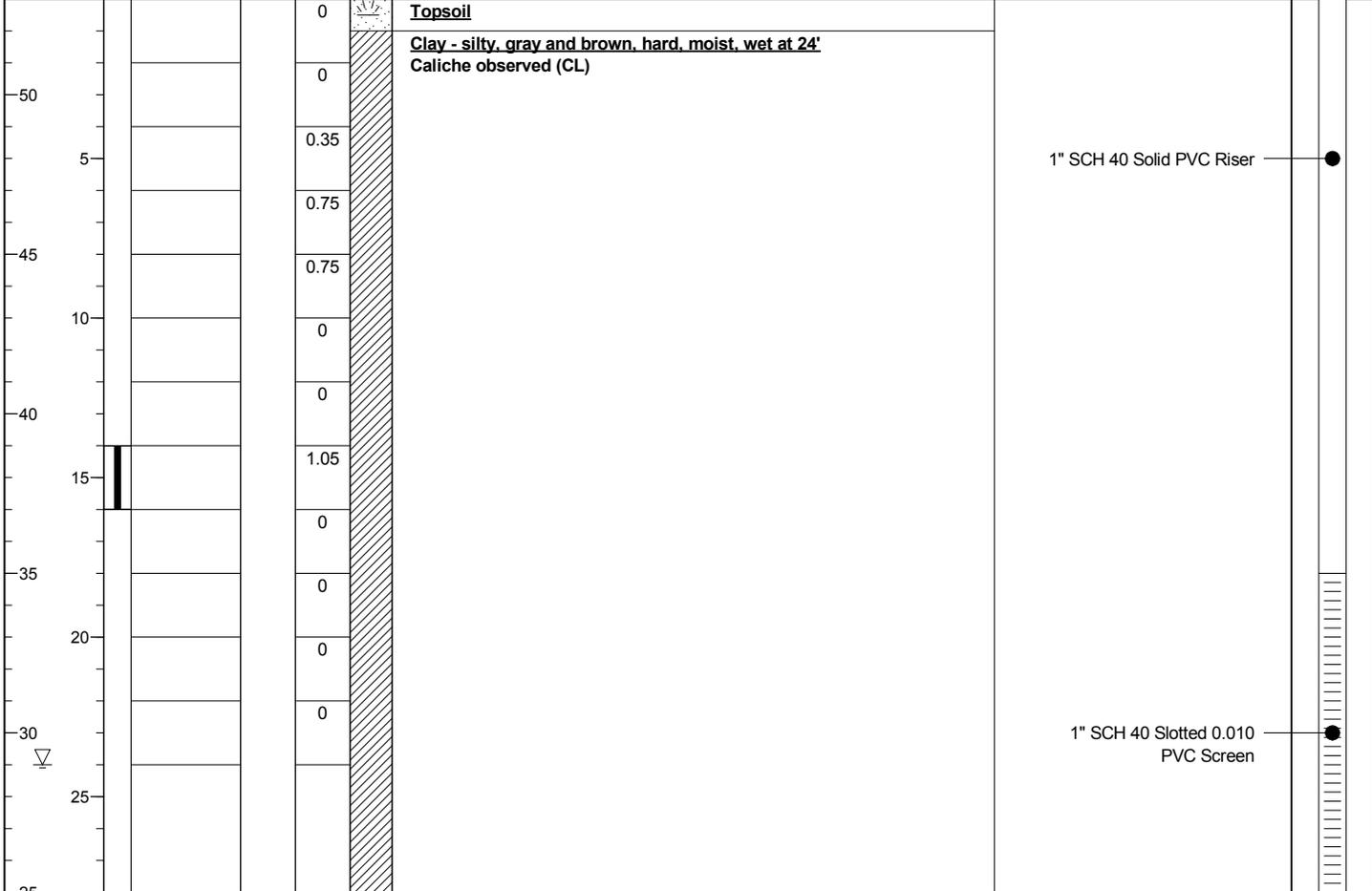
**TEMPORARY WELL LOG B-12**

FIELD EXPLORATION | TEMPORARY WELL CONSTRUCTION

Approximate Elevation (feet) | Depth (feet) | Sample Type | Sample Number | Recovery (NR=No Recovery) | VOC Reading (ppm) | Graphical Log

Latitude: 29.75377° N  
 Longitude: -95.38393° W  
 Approximate Surface Elevation (ft.): 53.0  
 Surface Condition: Grass

Completion Method:  
 Plugged with bentonite after a grab sample was collected



The exploration was terminated at approximately 28 ft. below ground surface

**GROUNDWATER LEVEL INFORMATION:**  
 Groundwater was observed at approximately 24 ft. below ground surface during drilling.  
**GENERAL NOTES:**  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.  
 A PID - UltraRAE3000 was used for environmental field screening.



PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**TEMPORARY WELL LOG B-12**

Montrose/Midtown Phase II ESA  
 Houston, TX

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Date Begin - End: 9/23/2013  
 Logged By: W. Brown  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-13**

FIELD EXPLORATION

Latitude: 29.75356° N  
 Longitude: -95.38393° W  
 Approximate Surface Elevation (ft.): 52.0  
 Surface Condition: Grass

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
					0		no recovery
50					0		Clay - silty, brown, soft to firm, moist (CL)
5					0		
45					0		
10					0		Clay - red and gray, firm to hard, wet at 25' Caliche observed (CL)
40					0.15		
15					0		
35					0		
20					0.05		
30					0.35		
25					0.25		
25					0		
30							The exploration was terminated at approximately 28 ft. below ground surface
35							<p><u>GROUNDWATER LEVEL INFORMATION:</u>            Groundwater was observed at approximately 25 ft. below ground surface during drilling.</p> <p><u>GENERAL NOTES:</u>            The exploration location and elevation are approximate and were estimated by Kleinfelder.</p>

GINT FILE: C:\users\public\documents\bentley\gint\project\shtr Green Montrose -Midtown Phase II.gpj P:\KLF\_STANDARD\_GINT\_LIBRARY\_SR\_1.2.GLB [KLF\_ENVIRONMENTAL LOG]



PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-13**  
 Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/23/2013  
 Logged By: W. Brown  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-14**

FIELD EXPLORATION

Latitude: 29.75336° N  
 Longitude: -95.38396° W  
 Approximate Surface Elevation (ft.): 51.0  
 Surface Condition: Grass

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
					0	no recovery
50					0	Clay - silty, brown, soft to hard (CL)
					0	
5					0	
45					0	Clay - red and gray, firm to hard, hydrocarbon odor 14-17' and 20-36' (CH)
					0	
10					0	
40					3.0	
					2	
15					219.7	
35					22	
					19.6	
20					22.2	
30					61.2	
					155	
25					415	
					69.15	
30					62.5	
20					50.66	
					226	
35						
15						

The exploration was terminated at approximately 36 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.



PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-14**  
 Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/24/2013  
 Logged By: W. Brown  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-15**

FIELD EXPLORATION

Latitude: 29.75309° N  
 Longitude: -95.38411° W  
 Approximate Surface Elevation (ft.): 51.0  
 Surface Condition: Grass

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
50					0	Graphical Log	<u>Clay - silty, brown, firm to hard, moist (CL)</u>
					0		
5					0		
45					0		<u>Clay - silty, red and gray, firm to hard, moist Caliche observed (CL)</u>
					0		
10					0		
40					0		
					0		
15					0		
35					0.35		
					0		
20					0		
30					0.2		
					0		
25					0		
					0		
30					-	<u>no recovery</u>	
20					-		
					-		
35					-		
15							

The exploration was terminated at approximately 36 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.



PROJECT NO.: 136524  
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 DATE:  
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**BORING LOG B-15**  
 Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/24/2013  
 Logged By: W. Brown  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-16**

FIELD EXPLORATION

Latitude: 29.75273° N  
 Longitude: -95.38418° W  
 Approximate Surface Elevation (ft.): 51.0  
 Surface Condition: Asphalt

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log		
50					0	[Hatched Pattern]	<u>Clay - sily, brown, soft to hard, moist (CL)</u>	
					0			
5					0			
45					0			
					0			
10					0			<u>Clay - red and gray, hard, moist, wet from 24' to 26' (CL)</u>
40					0			
					0			
15					0			
35					0			
					0			
20					0			
30					0			
25					5.4			
25					-			

The exploration was terminated at approximately 28 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was observed at approximately 24 ft. below ground surface during drilling.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.



PROJECT NO.: 136524  
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**BORING LOG B-16**  
 Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/24/2013  
 Logged By: W. Brown  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-17**

FIELD EXPLORATION

Latitude: 29.75250° N  
 Longitude: -95.38403° W  
 Approximate Surface Elevation (ft.): 50.0  
 Surface Condition: Asphalt

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
					0		Asphalt
					0		Clay - silty, brown and gray, firm to hard, moist (CL)
45	5				0		
					0		
					0		
					0		
40	10				0		Clay - red and gray, firm to hard, moist Caliche observed (CH)
					0		
					0		
					0		
35	15				0		
					0		
					0		
30	20				-		Clay - sandy, brown, soft, wet (CL)
					-		
					-		
25	25				-		Clay - red and gray, firm to hard, moist Caliche observed (CH)
					-		
					-		
20	30				-		

The exploration was terminated at approximately 32 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 ∇ Groundwater was observed at approximately 20 ft. below ground surface during drilling.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

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**BORING LOG B-17**

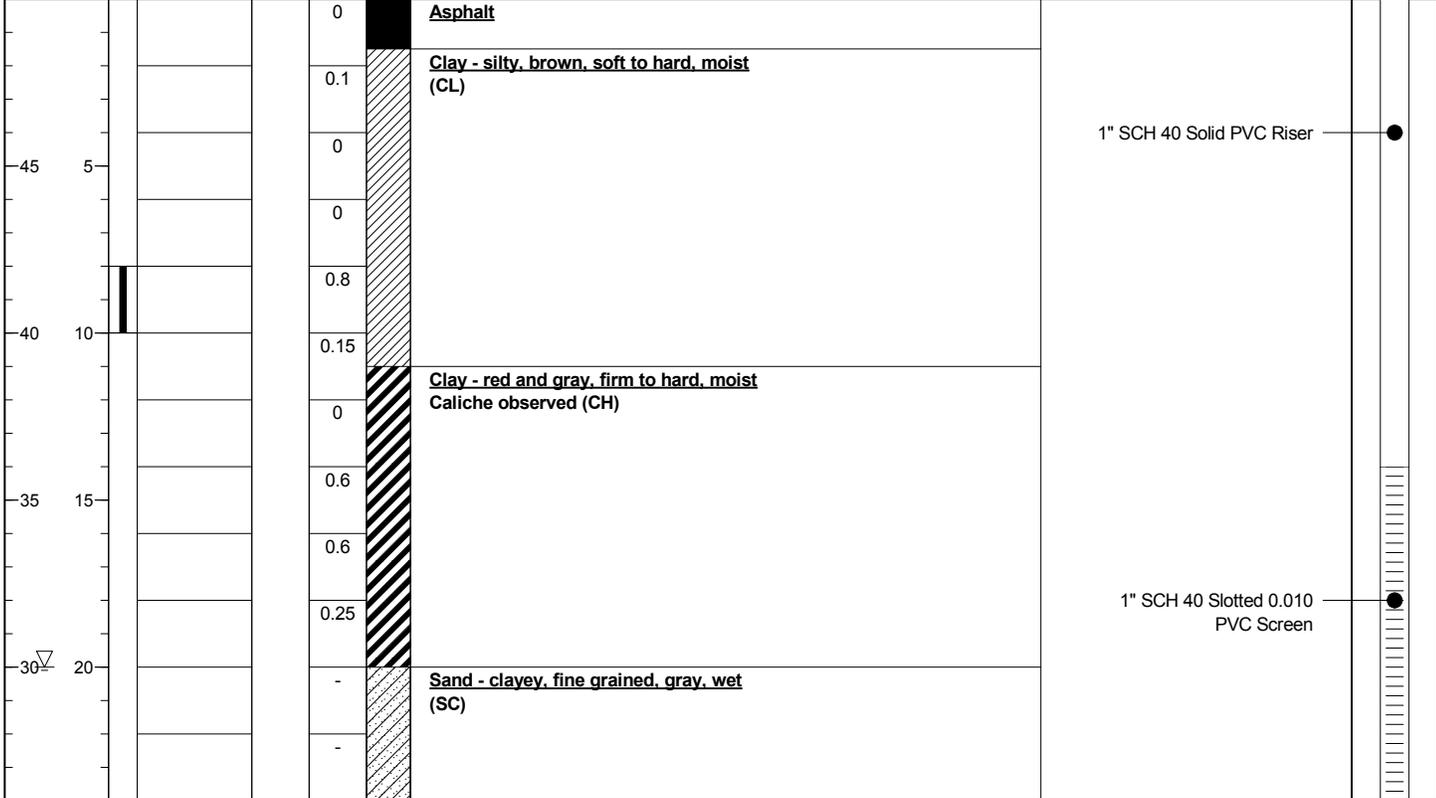
Montrose/Midtown Phase II ESA  
 Houston, TX

**Date Begin - End:** 9/24/2013  
**Logged By:** W. Brown  
**Hor.-Vert. Datum:** WGS84 -  
**Plunge:** -90 degrees  
**Weather:**

**Drilling Company-Lic.#** Envirotech Drilling - #58171  
**Drill Crew:** I. Fuentes  
**Drilling Equipment:** Geoprobe 7720DT  
**Drilling Method:** Geo-Probe  
**Bore Log Diameter:** 2 inches in. O.D.

**TEMPORARY WELL LOG B-18**

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	VOC Reading (ppm)	Graphical Log	FIELD EXPLORATION		TEMPORARY WELL CONSTRUCTION
							Latitude: 29.75188° N Longitude: -95.38398° W Approximate Surface Elevation (ft.): 50.0 Surface Condition: Asphalt		Completion Method: Plugged with bentonite after a grab sample was collected



The exploration was terminated at approximately 24 ft. below ground surface

**GROUNDWATER LEVEL INFORMATION:**  
 ∇ Groundwater was observed at approximately 20 ft. below ground surface during drilling.  
**GENERAL NOTES:**  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.  
 A PID - UltraRAE3000 was used for environmental field screening.

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	PROJECT NO.: 136524	TEMPORARY WELL LOG B-18
	DRAWN BY: WTB	
CHECKED BY:	Montrose/Midtown Phase II ESA Houston, TX	
DATE:		
REVISED:		

Date Begin - End: 9/24/2013  
 Logged By: W. Brown  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-19**

FIELD EXPLORATION

Latitude: 29.75157° N  
 Longitude: -95.38404° W  
 Approximate Surface Elevation (ft.): 50.0  
 Surface Condition: Asphalt

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
					0		<b>Asphalt / Shell Base</b>
					0		<b>Clay - silty, brown, firm to hard, moist (CL)</b>
45	5				0		<b>Clay - gray, firm to hard, moist, mottled red and brown (CH)</b>
40	10				0		<b>Clay - sandy, gray, soft to firm, moist, mottled red, wet at 22' Caliche observed (CL)</b>
35	15				0		<b>Clay - sandy, gray, soft to firm, moist, mottled red, wet at 22' Caliche observed (CL)</b>
30	20				0		<b>Clay - sandy, gray, soft to firm, moist, mottled red, wet at 22' Caliche observed (CL)</b>
25	25						<p>The exploration was terminated at approximately 24 ft. below ground surface</p> <p><b>GROUNDWATER LEVEL INFORMATION:</b>   Groundwater was observed at approximately 22 ft. below ground surface during drilling.</p> <p><b>GENERAL NOTES:</b>            The exploration location and elevation are approximate and were estimated by Kleinfelder.</p>
20	30						
15	35						

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**BORING LOG B-19**

Montrose/Midtown Phase II ESA  
 Houston, TX

<b>Date Begin - End:</b> 9/24/2013	<b>Drilling Company-Lic.#</b> Envirotech Drilling - #58171	<b>BORING LOG B-20</b>
<b>Logged By:</b> W. Brown	<b>Drill Crew:</b> I. Fuentes	
<b>Hor.-Vert. Datum:</b> WGS84 -	<b>Drilling Equipment:</b> Geoprobe 7720DT	<b>Hammer Type - Drop:</b> 15000 lb. Auto - 48 in.
<b>Plunge:</b> -90 degrees	<b>Drilling Method:</b> Geo-Probe	
<b>Weather:</b>	<b>Bore Log Diameter:</b> 2 inches in. O.D.	

FIELD EXPLORATION

Latitude: 29.75131° N  
Longitude: -95.38407° W  
Approximate Surface Elevation (ft.): 50.0  
Surface Condition: Grass

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
					0.25		<b>Asphalt/Clay mixture</b>
					0.75		<b>Clay - silty, brown, soft to firm (CL)</b>
	45				0		
					0		
	40				0.3		
					0.0		
	35						<b>Clay - silty/sandy, brown and gray, moist, wet from 13 - 14' (CL)</b>
	30						<p>The exploration was terminated at approximately 16 ft. below ground surface</p> <p><u>GROUNDWATER LEVEL INFORMATION:</u>  ∇ Groundwater was observed at approximately 13 ft. below ground surface during drilling.</p> <p><u>GENERAL NOTES:</u>  The exploration location and elevation are approximate and were estimated by Kleinfelder.</p>
	25						
	20						
	15						

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 <p><b>KLEINFELDER</b> Bright People. Right Solutions.</p>	PROJECT NO.: 136524 DRAWN BY: WTB CHECKED BY: DATE: REVISED:	<b>BORING LOG B-20</b>  Montrose/Midtown Phase II ESA Houston, TX
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Date Begin - End: 9/24/2013  
 Logged By: W. Brown  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-21**

FIELD EXPLORATION

Latitude: 29.74746° N  
 Longitude: -95.38196° W  
 Approximate Surface Elevation (ft.): 50.0  
 Surface Condition: Grass

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
					0.1		<u>Clay - silty, brown, soft to hard, moist (CL)</u>
					0		
45	5				0.1		
					0		
					0		<u>Clay - red and gray, firm to hard, moist</u> Caliche observed (CH)
40	10				0		
					0		
					0		
35	15				0		
					0		<u>Clay - sandy, gray, mottled brown, firm, moist (CL)</u>
30	20				0.5		
					0		
					0		
25	25				0		
					0		
					0		
20	30				0		
					0		
					0		
15	35				0		

The exploration was terminated at approximately 36 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.



PROJECT NO.: 136524  
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**BORING LOG B-21**  
 Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/25/2013  
 Logged By: J. Smith  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-22**

FIELD EXPLORATION

Latitude: 29.74729° N  
 Longitude: -95.38154° W  
 Approximate Surface Elevation (ft.): 50.0  
 Surface Condition: Grass

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
					13.4		<b>Clay - Brown, moist, soft (CH)</b>
					11.3		
					7.45		
45	5				6.35		<b>Clay - silty, gray, mottled red and brown, moist, hard</b> Caliche observed throughout, large amounts from 26' to 27' Mild hydrocarbon odor beginning at 18', sweet odor present at 26' (CL)
					9.6		
40	10				6.05		
					8.45		
35	15				7.1		
					5.35		
30	20				12.75		
					9.2		
25	25				5.7		
					11.75		
20	30				87.5		
					9.0		
15	35				5.6		
					8.75		
					1.9		

The exploration was terminated at approximately 36 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.



PROJECT NO.: 136524  
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**BORING LOG B-22**  
 Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/25/2013  
 Logged By: J. Smith  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-23**

FIELD EXPLORATION

Latitude: 29.74712° N  
 Longitude: -95.38139° W  
 Approximate Surface Elevation (ft.): 50.0  
 Surface Condition: Concrete Sidewalk

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
					4.5	Topsoil
					5.5	Clay - brown, firm, moist (CH)
				7.8		
45	5			5.88		
				3.8	Clay - silty, brown and gray, firm to hard, moist Caliche observed throughout, large amount from 22 to 24' (CL)	
				5.6		
40	10			12.8		
				7.15		
				7.4		
				6.75		
35	15			9.35		
				6.8		
				8.2		
				6.9		
				6.6		
30	20			5.8		
				2.3		
25	25			13.5		
20	30					
15	35					

The exploration was terminated at approximately 36 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

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**BORING LOG B-23**

Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/25/2013  
 Logged By: J. Smith  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-24**

FIELD EXPLORATION

Latitude: 29.74701° N  
 Longitude: -95.38117° W  
 Approximate Surface Elevation (ft.): 50.0  
 Surface Condition: Grass

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
					1.05	[Diagonal Hatching]
					2	
					3.5	[Diagonal Hatching]
					3.7	
					3.4	[Diagonal Hatching]
					4.8	
					14	[Diagonal Hatching]
					17.5	
					21.8	[Diagonal Hatching]
					87.5	
					88.7	[Diagonal Hatching]
					173.2	
					303.8	[Diagonal Hatching]
					60.4	
					223.8	[Diagonal Hatching]
					93.9	
					189	[Diagonal Hatching]
					108.7	

**Topsoil**  
 Clay - brown, firm, moist (CH)

Clay - silty, brown and gray, moist, firm to hard  
 Caliche observed throughout hydrocarbon odor observed beginning at 20' (CL)

The exploration was terminated at approximately 36 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

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 DATE:  
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**BORING LOG B-24**

Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/25/2013  
 Logged By: J. Smith  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.# Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-25**

FIELD EXPLORATION

Latitude: 29.74684° N  
 Longitude: -95.38093° W  
 Approximate Surface Elevation (ft.): 50.0  
 Surface Condition: Concrete Sidewalk

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
					3.35	Topsoil
					4.4	Clay - brown, firm, moist (CH)
45	5				3.96	Clay - silty, brown and gray, moist, firm to hard Caliche observed throughout (CL)
					4.3	
					4.2	
40	10				3.8	
					4.85	
					3.15	
35	15				5.45	
					5.45	
30	20				3.95	
					4.9	
					5.55	
25	25				5.25	
					10.7	
20	30				39.45	
					25.08	
15	35				313.5	Sand - silty, gray, moist, strong hydrocarbon odor (SM)

The exploration was terminated at approximately 36 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.



PROJECT NO.: 136524  
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**BORING LOG B-25**

Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/25/2013  
 Logged By: J. Smith  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-26**

FIELD EXPLORATION

Latitude: 29.74681° N  
 Longitude: -95.38081° W  
 Approximate Surface Elevation (ft.): 50.0  
 Surface Condition: Asphalt

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
					5.75	
					4.45	
45	5				5.8	
					4.9	
					3.1	
40	10				2.7	
					7	
					11.45	
					17.65	
					14.15	
30	20				6.55	
					66.7	
					20.1	
25	25				290.7	
					253.6	
20	30				400	
					410	
15	35				415	

**Asphalt**  
**Clay - brown, firm, moist (CH)**  
**Clay - silty, brown and gray, moist, firm to hard**  
 Caliche observed throughout hydrocarbon odor noted at 26' (CL)

The exploration was terminated at approximately 36 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

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 DRAWN BY: WTB  
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 DATE:  
 REVISED:

**BORING LOG B-26**

Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/25/2013  
 Logged By: J. Smith  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.# Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-27**

FIELD EXPLORATION

Latitude: 29.74646° N  
 Longitude: -95.38032° W  
 Approximate Surface Elevation (ft.): 49.0  
 Surface Condition: Grass

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
					2	Topsoil
					3.05	Clay - brown, firm, dry (CH)
45	5				2.1	Clay - silty, brown and gray, moist, firm to hard Caliche observed throughout (CL)
					2.8	
40	10				5.5	
					4.35	
					6	
35	15				4.5	
					3.6	
30	20				4.25	
					4.95	
					5.2	
25	25				4.45	
					5.35	
20	30				2.6	
					7.4	
15	35				-	
					0	

The exploration was terminated at approximately 36 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.



PROJECT NO.: 136524  
 DRAWN BY: WTB  
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 DATE:  
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**BORING LOG B-27**  
 Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/26/2013  
 Logged By: W. Brown  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-28**

FIELD EXPLORATION

Latitude: 29.74634° N  
 Longitude: -95.38015° W  
 Approximate Surface Elevation (ft.): 49.0  
 Surface Condition: Grass

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
					4.2	[Hatched Pattern]
					0	
45	5				2.5	
					0	[Diagonal Line Pattern]
40	10				0	
					0	
					1.9	
35	15				0.2	
					4.6	
30	20				1.9	
					3.1	
25	25				1.9	
					1.6	
					2.2	
20	30				-	
					-	
15	35					
10						

Clay - brown, firm, moist (CH)

Clay - red and gray, firm to hard, lenses of silt and sand throughout  
 Caliche observed throughout Refusal encountered at 32' (CL)

The exploration was terminated because of direct push tube refusal at approximately 32 ft. below ground surface caliche.

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

GINT FILE: C:\users\public\documents\bentley\gint\project\shtr Green Montrose -Midtown Phase II.gpj P:\KLF\_STANDARD\_GINT\_LIBRARY\_SR.1.2.GLB [KLF\_ENVIRONMENTAL LOG]



PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-28**  
 Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/25/2013  
 Logged By: J. Smith  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-29**

FIELD EXPLORATION

Latitude: 29.74629° N  
 Longitude: -95.37982° W  
 Approximate Surface Elevation (ft.): 48.0  
 Surface Condition: Grass

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
					-	No recovery
45					6.15	Clay - brown, firm, moist (CH)
5					7.7	Clay - silty, brown and gray, moist, firm to hard Caliche observed throughout Refusal encountered at 30' (CL)
					9.45	
40					11.4	
10					9.25	
					10.4	
35					8.2	
15					7.6	
					10.8	
30					12.5	
20					9.2	
					10.3	
25					6.6	
					6.75	
30						

The exploration was terminated because of direct push tube refusal at approximately 30 ft. below ground surface caliche.

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

GINT FILE: C:\users\public\documents\bentley\gint\project\shtr Green Montrose -Midtown Phase II.gpj P:\KLF\_STANDARD\_GINT\_LIBRARY\_SR.1.2.GLB [KLF\_ENVIRONMENTAL LOG]



PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-29**

Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/26/2013  
 Logged By: W. Brown  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-30**

FIELD EXPLORATION

Latitude: 29.74407° N  
 Longitude: -95.38127° W  
 Approximate Surface Elevation (ft.): 47.0  
 Surface Condition: Grass

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
					5.9		<b>Topsoil</b>
					7.25		<b>Clay - dark gray, mottled red and brown, firm, moist</b> Slight odor, increasing odor at 7.5' (CH)
	5				6.75		
					6		
	40				7.5		
					7		
	35				8.25		
					6.7		
	15				3		<b>Sand - silty, medium grained, moist, moderate odor</b> (CL)
					4.75		
	20				9.4		<b>Clay - silty, gray, firm to hard, moist, no odor</b>
	25				5		
					9		
	25				6		
	20				4		<b>Sand - medium to coarse grained, brown and red, moist, moderate odor</b> Wet at 32 Limited recovery
					1.4		
	30				-		
					-		
	35				-		
					-		
	15						
	10						

The exploration was terminated at approximately 35 ft. below ground surface

**GROUNDWATER LEVEL INFORMATION:**  
 ▽ Groundwater was observed at approximately 32 ft. below ground surface during drilling.  
**GENERAL NOTES:**  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

GINT FILE: C:\users\public\documents\benley\gint\project\shtr Green Montrose -Midtown Phase II.gpj P:\KLF\_STANDARD\_GINT\_LIBRARY\_SR.1.2.GLB [KLF\_ENVIRONMENTAL LOG]



PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-30**

Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/26/2013  
 Logged By: W. Brown  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-31**

FIELD EXPLORATION

Latitude: 29.74387° N  
 Longitude: -95.38094° W  
 Approximate Surface Elevation (ft.): 47.0  
 Surface Condition: Grass

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
					4		<b>Clay - dark gray, firm, moist (CH)</b>
-45					3		
	5				2.5		
					2.1		<b>Clay - silty, red and gray, moist, firm to hard</b> Caliche observed throughout SAND lenses noted at 11' and 15' (CH)
-40					7.5		
	10				5		
-35					5.1		
	15				5.3		
-30					8.25		
	20				8.5		
					7.7		
-25					3.5		
	25				2.6		
-20					7		
	30				-		
-15					8		
	15				8		
-10					-		
	35				-		

The exploration was terminated at approximately 35 ft. below ground surface

**GROUNDWATER LEVEL INFORMATION:**  
 Groundwater was not encountered during drilling or after completion.  
**GENERAL NOTES:**  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

GINT FILE: C:\users\public\documents\bentley\gint\project\shtr Green Montrose -Midtown Phase II.gpj P:\KLF\_STANDARD\_GINT\_LIBRARY\_SR.1.2.GLB [KLF\_ENVIRONMENTAL LOG]



PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-31**

Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/26/2013  
 Logged By: W. Brown  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-32**

FIELD EXPLORATION

Latitude: 29.74400° N  
 Longitude: -95.38040° W  
 Approximate Surface Elevation (ft.): 46.0  
 Surface Condition: Asphalt

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
-45					5.2		<u>Clay - brown, firm, moist</u> (CH)
					-		
	5				3.9		
-40					3.9		<u>Clay - red and gray, moist, firm to hard</u> (CH)
					4.25		
	10				4.3		
					5		
	15				5.5		
-30					4.2		<u>Sand - fine grained, brown, moist, loose</u> (SM)
					5		<u>Clay - red and gray, moist, firm to hard</u> (CH)
	20				-		
					4.5		
	25				4.25		
					3.8		
	30				3.7		
					3.6		
	35				3.7		
					3.7		
	10				3.7		

The exploration was terminated at approximately 35 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.



PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-32**  
 Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/26/2013  
 Logged By: W. Brown  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-33**

FIELD EXPLORATION

Latitude: 29.74355° N  
 Longitude: -95.38032° W  
 Approximate Surface Elevation (ft.): 46.0  
 Surface Condition: Asphalt

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
					6		Asphalt
					2.7		Clay - brown, firm, moist (CH)
					1.2		
	5				5.9		
					2.9		
	10				1.8		
					4.0		Clay - silty, sandy, gray, moist, soft to firm (CL)
					5.6		
	15				3.5		
					3.5		
	20				7.8		
					3.5		
	25				6.5		
					3		
	30				3		
					5.3		
	15				5		
					5.1		
	35						
	10						

The exploration was terminated at approximately 35 ft. below ground surface

**GROUNDWATER LEVEL INFORMATION:**  
 Groundwater was not encountered during drilling or after completion.  
**GENERAL NOTES:**  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

GINT FILE: C:\users\public\documents\benley\gint\project\shtr Green Montrose -Midtown Phase II.gpj P:\KLF\_STANDARD\_GINT\_LIBRARY\_SR.1.2.GLB [KLF\_ENVIRONMENTAL LOG]



PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-33**  
 Montrose/Midtown Phase II ESA  
 Houston, TX

**Date Begin - End:** 9/27/2013  
**Logged By:** W. Brown  
**Hor.-Vert. Datum:** WGS84 -  
**Plunge:** -90 degrees  
**Weather:** \_\_\_\_\_  
**Drilling Company-Lic.#** Envirotech Drilling - #58171  
**Drill Crew:** I. Fuentes  
**Drilling Equipment:** Geoprobe 7720DT  
**Drilling Method:** Geo-Probe  
**Bore Log Diameter:** 2 inches in. O.D.  
**Hammer Type - Drop:** 15000 lb. Auto - 48 in.

**TEMPORARY WELL LOG B-34**

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	VOC Reading (ppm)	Graphical Log	FIELD EXPLORATION		TEMPORARY WELL CONSTRUCTION	
							Latitude: 29.74342° N Longitude: -95.37992° W Approximate Surface Elevation (ft.): 46.0 Surface Condition: Asphalt		Completion Method: Plugged with bentonite after a grab sample was collected	
45					0.7		<b>Topsoil</b>			
					0		<b>Clay - brown, firm, moist (CH)</b>			
5					1					
40					1.2		<b>Clay - gray and red, moist, soft to firm</b> Caliche observed throughout, large amount at 26' Silty and sandy from 16-18' (CL)			
					3.3					
10					1.2				1" SCH 40 Solid PVC Riser	
35					1.7					
15					0.5					
30					2.8					
20					0.7					
25					1.9					
					2.2					
25					2.6					
20					2.0					
					1.6					
30					0					
15					-		<b>Sand - fine grained, red and gray, moist, soft</b> Wet at 32' (SC)		1" SCH 40 Slotted 0.010 PVC Screen	
35					-					
10										

The exploration was terminated at approximately 35 ft. below ground surface

**GROUNDWATER LEVEL INFORMATION:**  
 ∇ Groundwater was observed at approximately 32 ft. below ground surface during drilling.  
**GENERAL NOTES:**  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.  
 A PID - UltraRAE3000 was used for environmental field screening.



PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**TEMPORARY WELL LOG B-34**

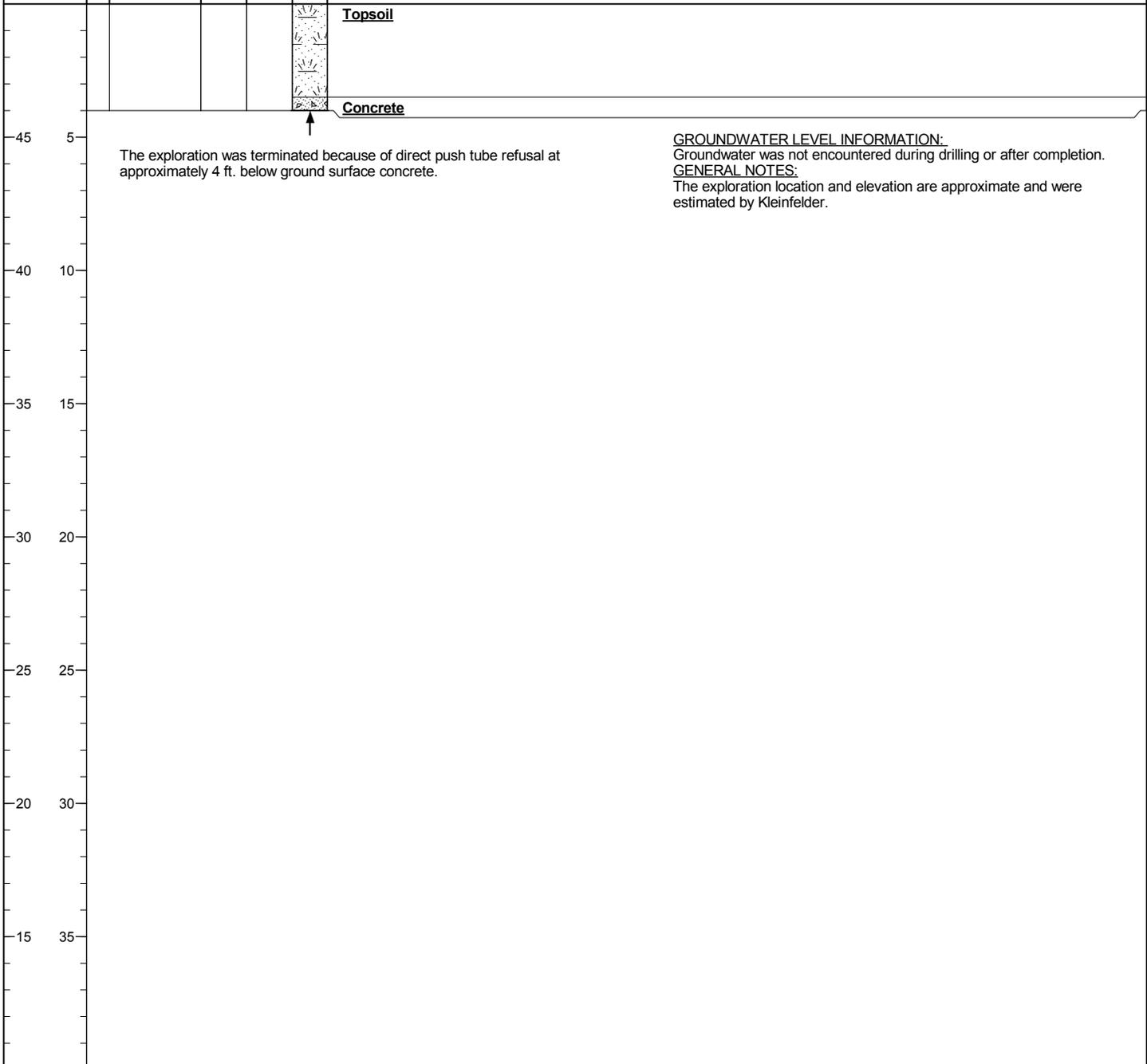
Montrose/Midtown Phase II ESA  
 Houston, TX

**Date Begin - End:** 9/27/2013      **Drilling Company-Lic.#** Envirotech Drilling - #58171      **BORING LOG B-35**  
**Logged By:** W. Brown      **Drill Crew:** I. Fuentes  
**Hor.-Vert. Datum:** WGS84 -      **Drilling Equipment:** Geoprobe 7720DT      **Hammer Type - Drop:** 15000 lb. Auto - 48 in.  
**Plunge:** -90 degrees      **Drilling Method:** Geo-Probe  
**Weather:**      **Bore Log Diameter:** 2 inches in. O.D.

FIELD EXPLORATION

Latitude: 29.74332° N  
 Longitude: -95.37960° W  
 Approximate Surface Elevation (ft.): 50.0  
 Surface Condition: Concrete

Approximate Elevation (feet)  
 Depth (feet)  
 Sample Type  
 Sample Number  
 Recovery (NR=No Recovery)  
 PID / FID (ppmv)  
 Graphical Log



**GROUNDWATER LEVEL INFORMATION:**  
 Groundwater was not encountered during drilling or after completion.  
**GENERAL NOTES:**  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

GINT FILE: C:\users\public\documents\bentley\gint\project\shtr Green Montrose -Midtown Phase II.gpj P:\KLF\_STANDARD\_GINT\_LIBRARY\_SR.1.2.GLB [KLF\_ENVIRONMENTAL LOG]

	PROJECT NO.: 136524 DRAWN BY: WTB CHECKED BY: DATE: REVISED:	<b>BORING LOG B-35</b>	
		Montrose/Midtown Phase II ESA Houston, TX	

Date Begin - End: 9/27/2013  
 Logged By: W. Brown  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-36**

FIELD EXPLORATION

Latitude: 29.74314° N  
 Longitude: -95.37938° W  
 Approximate Surface Elevation (ft.): 46.0  
 Surface Condition: Sidewalk

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
45					1.7	Concrete
					2.2	
					1.3	
5					2.3	Clay - brown, firm, moist (CH)
					1.2	
					1.3	
40					3	Clay - silty, gray, moist, soft to hard Mottled yellow and brown (CL)
					3.6	
					4.0	
10					3.2	
					4.6	
					0.8	
20					4.6	
					4.5	
					-	
25					-	Sand - fine grained, gray, wet at 28' (SC)
					-	
					-	

The exploration was terminated at approximately 32 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 ∇ Groundwater was observed at approximately 27 ft. below ground surface during drilling.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

GINT FILE: C:\users\public\documents\bentley\gint\project\shtr Green Montrose -Midtown Phase II.gpj P:\KLF\_STANDARD\_GINT\_LIBRARY\_SR.1.2.GLB [KLF\_ENVIRONMENTAL LOG]



PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-36**

Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 9/27/2013  
 Logged By: W. Brown  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-37**

FIELD EXPLORATION

Latitude: 29.74310° N  
 Longitude: -95.37854° W  
 Approximate Surface Elevation (ft.): 45.0  
 Surface Condition: Concrete

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
					2.1		<b>Concrete</b>
					2.2		<b>Clay - silty, gray and brown, firm, moist (CH)</b>
					3		
					5.1		
					4.3		<b>Clay - red and gray, moist, firm to hard</b>
					4.4		<b>Caliche observed throughout Mottled yellow sandy from 27' to 30' (CL)</b>
					4		
					6		
					5.1		
					3.5		
					2.5		
					2.75		
					4.7		
					3.2		
					3.2		
					-		<b>Sand - fine grained, gray and red, wet (SC)</b>

The exploration was terminated at approximately 32 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 ∇ Groundwater was observed at approximately 30 ft. below ground surface during drilling.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

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PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-37**

Montrose/Midtown Phase II ESA  
 Houston, TX

**Date Begin - End:** 9/27/2013  
**Logged By:** W. Brown  
**Hor.-Vert. Datum:** WGS84 -  
**Plunge:** -90 degrees  
**Weather:**

**Drilling Company-Lic.#** Envirotech Drilling - #58171  
**Drill Crew:** I. Fuentes  
**Drilling Equipment:** Geoprobe 7720DT  
**Drilling Method:** Geo-Probe  
**Bore Log Diameter:** 2 inches in. O.D.

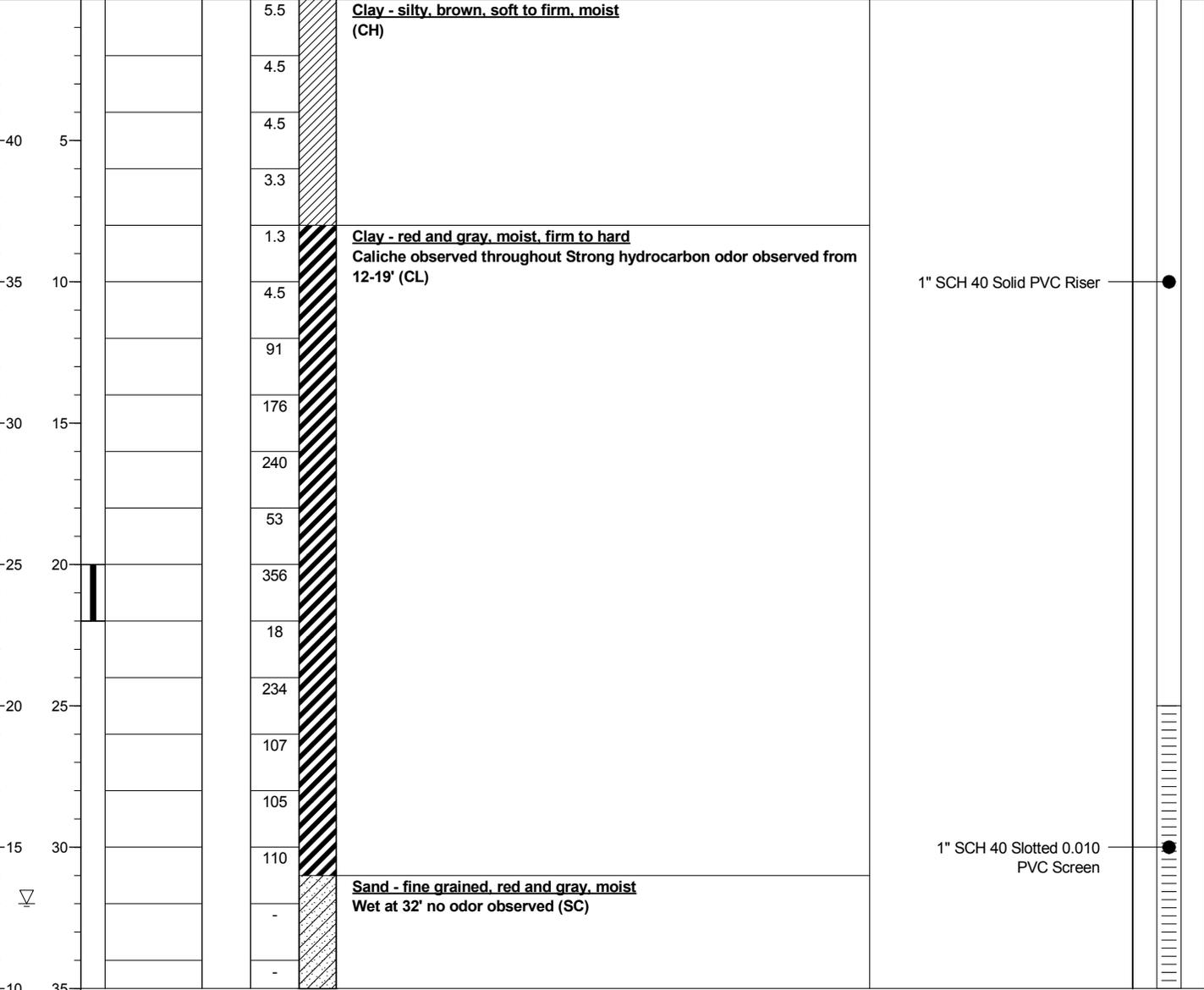
**TEMPORARY WELL LOG B-38**

**FIELD EXPLORATION** | **TEMPORARY WELL CONSTRUCTION**

Approximate Elevation (feet) | Depth (feet) | Sample Type | Sample Number | Recovery (NR=No Recovery) | VOC Reading (ppm) | Graphical Log

Latitude: 29.74292° N  
Longitude: -95.37872° W  
Approximate Surface Elevation (ft.): 45.0  
Surface Condition: Grass

Completion Method:  
Plugged with bentonite after a grab sample was collected



The exploration was terminated at approximately 35 ft. below ground surface

**GROUNDWATER LEVEL INFORMATION:**  
∇ Groundwater was observed at approximately 32 ft. below ground surface during drilling.  
**GENERAL NOTES:**  
The exploration location and elevation are approximate and were estimated by Kleinfelder.  
A PID - UltraRAE3000 was used for environmental field screening.

	PROJECT NO.: 136524	<b>TEMPORARY WELL LOG B-38</b>  Montrose/Midtown Phase II ESA Houston, TX
	DRAWN BY: WTB CHECKED BY: DATE: REVISED:	

Date Begin - End: 9/27/2013  
 Logged By: W. Brown  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-39**

FIELD EXPLORATION

Latitude: 29.74255° N  
 Longitude: -95.37902° W  
 Approximate Surface Elevation (ft.): 45.0  
 Surface Condition: Concrete Sidewalk

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
					0.8	[Diagonal Hatching]	<u>Clay - brown, firm, moist (CH)</u>
					1.5		
40	5				1.5	[Diagonal Hatching]	<u>Clay - silty, brown and gray, moist, firm to hard (CH)</u>
					1		
					1.7		
					4		
35	10				6	[Diagonal Hatching]	
					2.6		
30	15				-		<u>No Recovery</u>
					-		
25	20				6	[Diagonal Hatching]	<u>Clay - silty, gray, soft to hard, mottled yellow (CL)</u>
					3.5		
20	25				5		
					3.7		
					2.3		
15	30				2		
					2.3		
10	35				2.3		

The exploration was terminated at approximately 35 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.



PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-39**  
 Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 10/01/2013  
 Logged By: J. Smith  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-40**

FIELD EXPLORATION

Latitude: 29.74186° N  
 Longitude: -95.37954° W  
 Approximate Surface Elevation (ft.): 45.0  
 Surface Condition: Concrete

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
					0.25	
					0.6	
					1	
					1.2	
					1.5	
					0.45	
					1.75	
					0.15	
					0.8	
					0.75	
					0	
					0.5	
					-	

**Topsoil and caliche gravel**  
**Clay - silty, brown and gray, moist, soft (CL)**

**Sand - clayey, fine grained, gray, wet (SC)**

The exploration was terminated at approximately 24 ft. below ground surface

**GROUNDWATER LEVEL INFORMATION:**  
 Groundwater was observed at approximately 24 ft. below ground surface during drilling.  
**GENERAL NOTES:**  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

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	PROJECT NO.: 136524	<b>BORING LOG B-40</b>  Montrose/Midtown Phase II ESA Houston, TX
	DRAWN BY: WTB CHECKED BY: DATE: REVISED:	

Date Begin - End: 10/01/2013  
 Logged By: J. Smith  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-41**

FIELD EXPLORATION

Latitude: 29.74173° N  
 Longitude: -95.37961° W  
 Approximate Surface Elevation (ft.): 45.0  
 Surface Condition: Concrete

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
					18.1	
					8.65	
					21.9	
					13	
					198.5	
					562.4	
					362.4	
					495.8	
					622	
					57.8	
					163.1	
					15.3	
					1,270	
					32.7	
					1,026	
					340	
					1,407	
					943.9	

Gravel - clayey with caliche grains  
 Hydrocarbon Odor (GC)

Clay - silty, brown and gray, firm, moist  
 Hydrocarbon odor noted at 4' Strong hydrocarbon odor noted at 24' (CH)

The exploration was terminated at approximately 36 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

GINT FILE: C:\users\public\documents\bentley\gint\project\shtr Green Montrose -Midtown Phase II.gpj P:\KLF\_STANDARD\_GINT\_LIBRARY\_SR.1.2.GLB [KLF\_ENVIRONMENTAL LOG]



PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-41**

Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 10/01/2013  
 Logged By: J. Smith  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-42**

FIELD EXPLORATION

Latitude: 29.74167° N  
 Longitude: -95.37969° W  
 Approximate Surface Elevation (ft.): 45.0  
 Surface Condition: Concrete

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
					9.45	
					16.7	
					24.85	
					22.45	
					205.7	
					720.1	
					880.2	
					634.1	
					555.3	
					464.8	
					762.2	
					151.1	
					622.9	
					542.1	
					795	
					763.1	
					670.4	
					807.9	

**Topsoil**  
**Clay - silty, brown and gray, moist, firm to hard**  
 Hydrocarbon odor noted at 9' and continues throughout (CL)

The exploration was terminated at approximately 36 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.



PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-42**  
 Montrose/Midtown Phase II ESA  
 Houston, TX

GINT FILE: C:\users\public\documents\benley\gint\project\shtr Green Montrose -Midtown Phase II.gpj P:\KLF\_STANDARD\_GINT\_LIBRARY\_SR\_1.2.GLB [KLF\_ENVIRONMENTAL LOG]

Date Begin - End: 10/01/2013  
 Logged By: J. Smith  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**TEMPORARY WELL LOG B-43**

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	VOC Reading (ppm)	Graphical Log	FIELD EXPLORATION		TEMPORARY WELL CONSTRUCTION
							Latitude: 29.74152° N Longitude: -95.37990° W Approximate Surface Elevation (ft.): 45.0 Surface Condition: Grass		Completion Method: Plugged with bentonite after a grab sample was collected

					-		<b>No recovery</b>		
					6.7		<b>Clay - silty, brown and gray, moist, firm (CL)</b>		
					13.7				1" SCH 40 Solid PVC Riser
					8.1				
					7.75				
					7.25				
					8.7				
					5.7				
					5.95				
					3.75				
					-				
					-		<b>Sand - clayey, gray, wet (SC)</b>		
					-		<b>Clay - silty, brown and gray, moist, hard (CL)</b>		

The exploration was terminated at approximately 24 ft. below ground surface

**GROUNDWATER LEVEL INFORMATION:**  
 ∇ Groundwater was observed at approximately 21 ft. below ground surface during drilling.

**GENERAL NOTES:**  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.  
 A PID - UltraRAE3000 was used for environmental field screening.

 <p><b>KLEINFELDER</b> Bright People. Right Solutions.</p>	PROJECT NO.: 136524	<b>TEMPORARY WELL LOG B-43</b>  Montrose/Midtown Phase II ESA Houston, TX
	DRAWN BY: WTB CHECKED BY: DATE: REVISED:	

Date Begin - End: 10/01/2013  
 Logged By: J. Smith  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-44**

FIELD EXPLORATION

Latitude: 29.74045° N  
 Longitude: -95.38065° W  
 Approximate Surface Elevation (ft.): 47.0  
 Surface Condition: Grass

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
					2.05	
					1.95	
	5				4.1	
					3.48	
					3.6	
	10				4.05	
					3.5	
					4.05	
	15				2.8	
					2.9	
	20				1.3	
					2.25	
					1.35	
	25				3.4	
					3.9	
	30				3.3	
					4.15	
	35				2.5	

**Topsoil**  
**Clay - silty, brown and gray, moist, firm to hard (CL)**

The exploration was terminated at approximately 36 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

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PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-44**  
 Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 10/01/2013  
 Logged By: J. Smith  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-45**

FIELD EXPLORATION

Latitude: 29.74024° N  
 Longitude: -95.38083° W  
 Approximate Surface Elevation (ft.): 47.0  
 Surface Condition: Grass

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
					2.15	
					3.8	
5					3.55	
					3.75	
40					3.35	
					2.7	
35					2.75	
					3.25	
15					1.45	
					1.6	
20					3.25	
					4.65	
25					2.05	
					3.55	
20					2.75	
					3.15	
30						
15						
35						
10						

**Topsoil**  
**Clay - silty, brown and gray, moist, soft to hard**  
**Caliche observed beginning at 26 Refusal encountered at 32' (CL)**

The exploration was terminated at approximately 32 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

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PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-45**

Montrose/Midtown Phase II ESA  
 Houston, TX

**Date Begin - End:** 10/01/2013  
**Logged By:** J. Smith  
**Hor.-Vert. Datum:** WGS84 -  
**Plunge:** -90 degrees  
**Weather:**  
**Drilling Company-Lic.#:** Envirotech Drilling - #58171  
**Drill Crew:** I. Fuentes  
**Drilling Equipment:** Geoprobe 7720DT  
**Drilling Method:** Geo-Probe  
**Bore Log Diameter:** 2 inches in. O.D.  
**TEMPORARY WELL LOG B-46**  
**Hammer Type - Drop:** 15000 lb. Auto - 48 in.

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	VOC Reading (ppm)	Graphical Log	FIELD EXPLORATION		TEMPORARY WELL CONSTRUCTION		
							Latitude: 29.74000° N Longitude: -95.38103° W Approximate Surface Elevation (ft.): 47.0 Surface Condition: Grass		Completion Method: Plugged with bentonite after a grab sample was collected		
45					4.25		<b>Clay - silty, dark brown, hard, dry (CL)</b>	1" SCH 40 Solid PVC Riser           1" SCH 40 Slotted 0.010 PVC Screen			
					2.85						
5					4		<b>Clay - silty, brown and gray, moist, firm to hard (CL)</b>				
40					4.75						
					3.3						
10					3.65						
35					3.2						
					3.45						
30					-		<b>Sand - clayey, gray, wet (SC)</b>				
					-						
20											
25	The exploration was terminated at approximately 20 ft. below ground surface							<b>GROUNDWATER LEVEL INFORMATION:</b> ∇ Groundwater was observed at approximately 16 ft. below ground surface during drilling. <b>GENERAL NOTES:</b> The exploration location and elevation are approximate and were estimated by Kleinfelder. A PID - UltraRAE3000 was used for environmental field screening.			

GINT FILE: C:\users\public\documents\bentley\gint\project\str Green Montrose -Midtown Phase II.gpj P:\KLF\_STANDARD\_GINT\_LIBRARY\_SR.1.2.GLB [KLF\_ENVIRONMENTAL LOG]

	PROJECT NO.: 136524 DRAWN BY: WTB CHECKED BY: DATE: REVISED:	<b>TEMPORARY WELL LOG B-46</b>  Montrose/Midtown Phase II ESA Houston, TX
--	--	--

Date Begin - End: 10/01/2013  
 Logged By: J. Smith  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.# Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-47**

FIELD EXPLORATION

Latitude: 29.73945° N  
 Longitude: -95.38149° W  
 Approximate Surface Elevation (ft.): 48.0  
 Surface Condition: Grass

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
					2.4	
					2.9	
45					4.65	
	5				3.05	
					3.3	
40					3.45	
	10				3.7	
					3.85	
35					3.1	
	15				2.05	
					2.1	
	20				3.35	
					3.5	
25					4.15	
	25				3.75	
					3.2	
30						
	30					
35						
10						

**Topsoil**  
 Clay - silty, brown and gray, moist, firm to hard  
 Caliche observed beginning at 19' Refusal encountered at 32' (CH)

The exploration was terminated because of direct push tube refusal at approximately 32 ft. below ground surface caliche.

GROUNDWATER LEVEL INFORMATION:  
 Groundwater was not encountered during drilling or after completion.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.

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PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-47**

Montrose/Midtown Phase II ESA  
 Houston, TX

Date Begin - End: 10/02/2013  
 Logged By: J. Smith  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

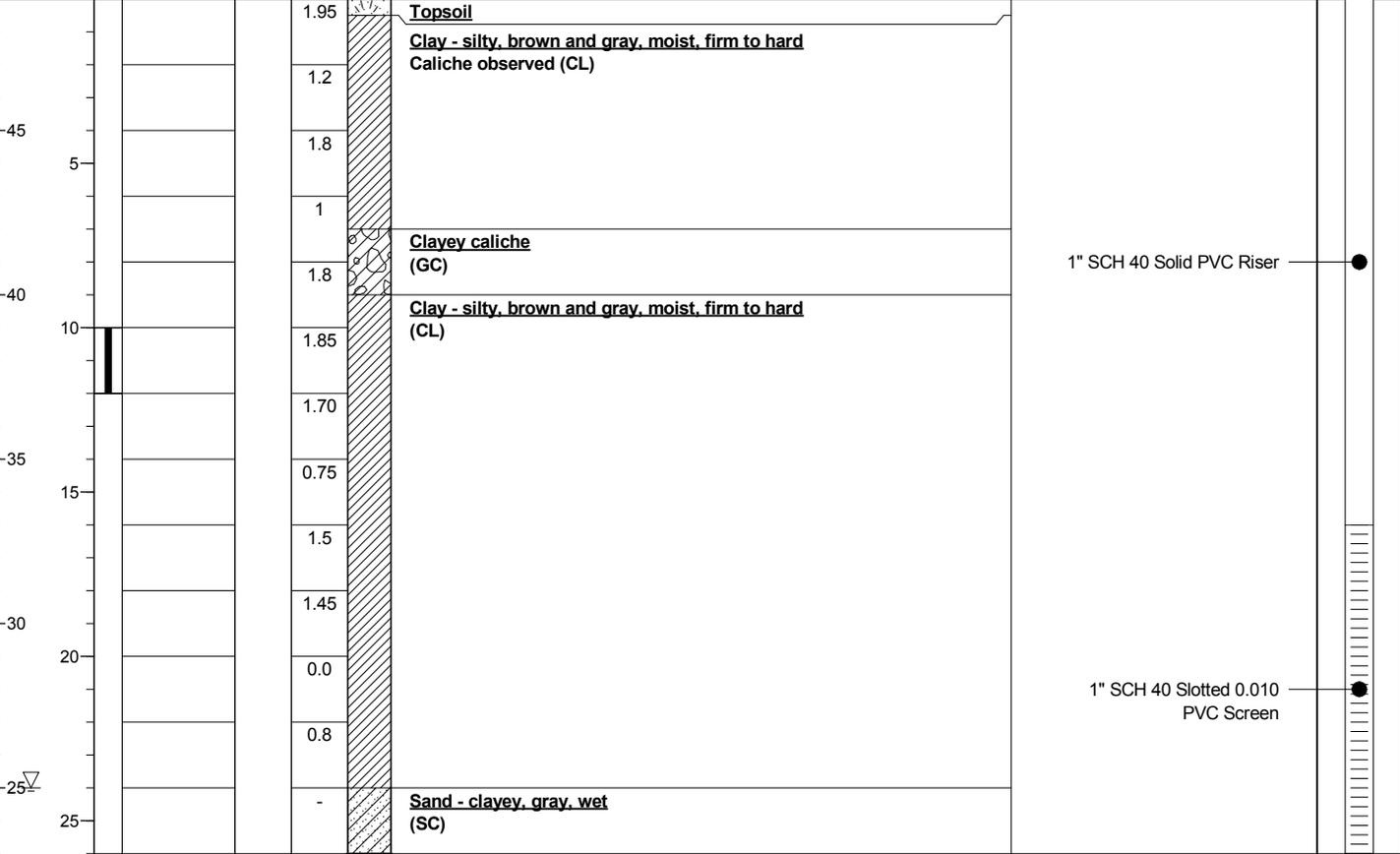
**TEMPORARY WELL LOG B-48**

FIELD EXPLORATION | TEMPORARY WELL CONSTRUCTION

Approximate Elevation (feet) | Depth (feet) | Sample Type | Sample Number | Recovery (NR=No Recovery) | VOC Reading (ppm) | Graphical Log

Latitude: 29.73923° N  
 Longitude: -95.38168° W  
 Approximate Surface Elevation (ft.): 49.0  
 Surface Condition: Grass

Completion Method:  
 Plugged with bentonite after a grab sample was collected



The exploration was terminated at approximately 26 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:  
 ∇ Groundwater was observed at approximately 24 ft. below ground surface during drilling.  
GENERAL NOTES:  
 The exploration location and elevation are approximate and were estimated by Kleinfelder.  
 A PID - UltraRAE3000 was used for environmental field screening.

GINT FILE: C:\users\public\documents\bentley\gint\project\shtr Green Montrose -Midtown Phase II.gpj P:\KLF\_STANDARD\_GINT\_LIBRARY\_SR.1.2.GLB [KLF\_ENVIRONMENTAL LOG]

	PROJECT NO.: 136524	TEMPORARY WELL LOG B-48
	DRAWN BY: WTB	
CHECKED BY:	Montrose/Midtown Phase II ESA	
DATE:	Houston, TX	
REVISED:		

Date Begin - End: 10/02/2013  
 Logged By: W. Brown  
 Hor.-Vert. Datum: WGS84 -  
 Plunge: -90 degrees  
 Weather:

Drilling Company-Lic.#Envirotech Drilling - #58171  
 Drill Crew: I. Fuentes  
 Drilling Equipment: Geoprobe 7720DT  
 Drilling Method: Geo-Probe  
 Bore Log Diameter: 2 inches in. O.D.

**BORING LOG B-49**

FIELD EXPLORATION

Latitude: 29.73908° N  
 Longitude: -95.38179° W  
 Approximate Surface Elevation (ft.): 48.0  
 Surface Condition: Grass

Approximate Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
					2.9		<b>Topsoil</b>
					3.85		<b>Clay - silty, brown and gray, moist, soft to hard</b> <b>Caliche observed (CL)</b>
45					2.85		
5					3.8		
40					2.5		
10					2.7		
35					2.8		
15					0.45		
30					1.15		
20					2.05		
25					1.9		
25					1.85		
25					-		<b>Sand - clayey, gray, wet</b> <b>(SC)</b>
20					-		<b>Clay - silty, brown and gray, moist, firm to hard</b> <b>(CL)</b>
30							The exploration was terminated at approximately 28 ft. below ground surface
15							<b>GROUNDWATER LEVEL INFORMATION:</b> ☒ Groundwater was observed at approximately 24 ft. below ground surface during drilling. <b>GENERAL NOTES:</b> The exploration location and elevation are approximate and were estimated by Kleinfelder.
35							
10							

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PROJECT NO.: 136524  
 DRAWN BY: WTB  
 CHECKED BY:  
 DATE:  
 REVISED:

**BORING LOG B-49**  
 Montrose/Midtown Phase II ESA  
 Houston, TX

## STATE OF TEXAS WELL REPORT for Tracking #344826

Owner:	City of Houston	Owner Well #:	B-1
Address:	611 Walker Houston , TX 77002	Grid #:	65-13-9
Well Location:	800 Gillette St Houston , TX 77006	Latitude:	29° 45' 24" N
Well County:	Harris	Longitude:	095° 22' 36" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date:	Started: <b>9/19/2013</b> Completed: <b>9/19/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 31 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>Open Hole</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #344826) on your written request.

**Texas Department of Licensing & Regulation**  
**P.O. Box 12157**  
**Austin, TX 78711**  
**(512) 463-7880**

**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-3 Top soil**

**3-17 Sand- fine grained, brown, moist, medium grained starting at 14'.**

**interbedded gray clay (SM)**

**17-30.5 Clay- Silty, gray, firm, moist (CL)**

**30.5-31 Sand- Clayey, fine grained, gray, wet (SC)**

## STATE OF TEXAS WELL REPORT for Tracking #344830

Owner:	<b>City of Houston</b>	Owner Well #:	<b>B-3</b>
Address:	<b>611 Walker Houston , TX 77002</b>	Grid #:	<b>65-13-9</b>
Well Location:	<b>800 Gillette St Houston , TX 77006</b>	Latitude:	<b>29° 45' 22" N</b>
Well County:	<b>Harris</b>	Longitude:	<b>095° 22' 35" W</b>
Elevation:	<b>No Data</b>	GPS Brand Used:	<b>Magellan</b>
<hr/>			
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Environmental Soil Boring</b>

Drilling Date:	Started: <b>9/19/2013</b> Completed: <b>9/19/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 35 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	Gravel Packed From: <b>20 ft to 35 ft</b> Gravel Pack Size: <b>20/40</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b>

**Pearland , TX 77584**

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #344830) on your written request.

**Texas Department of Licensing & Regulation**  
**P.O. Box 12157**  
**Austin, TX 78711**  
**(512) 463-7880**

**DESC. & COLOR OF FORMATION MATERIAL****CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**0-5 Topsoil**

**.5-8 Clay- Silty, brown, dry  
 Caliche observed (CL)**

**8-23 Sand- Fine grained, brown and yellow, soft/loose  
 (SM)**

**23-26 Sand- Clayey, gray, moist**

**26-30 Sand- Fine grained, red, wet  
 (SP)**

Dia. New/Used Type Setting From/To

**1" New PVC Riser 0-20 Sch.40**

**1" New PVC Screen 20-35 0.010**

## STATE OF TEXAS WELL REPORT for Tracking #344832

Owner:	City of Houston	Owner Well #:	B-4
Address:	611 Walker Houston , TX 77002	Grid #:	65-13-9
Well Location:	800 Gillette St Houston , TX 77006	Latitude:	29° 45' 21" N
Well County:	Harris	Longitude:	095° 22' 35" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date:	Started: <b>9/19/2013</b> Completed: <b>9/19/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 16 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>No Data</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #344832) on your written request.

**Texas Department of Licensing & Regulation**  
**P.O. Box 12157**  
**Austin, TX 78711**  
**(512) 463-7880**

**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-1 Asphalt**

**1-13 Clay- Silty and sandy, brown, mottled red and gray, soft to firm (CL)**

**13-16 Sand- Fine grained, red, wet (SP)**



Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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Please include the report's Tracking number (Tracking #344850) on your written request.

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description  
**0-1.5 Asphalt**  
**1.5-12 Clay- Silty, gray and brown, moderate hydrocarbon odor that increases with depth. Caliche and sand lenses observed (CL)**  
**12-29 Sand- Fine grained, brown, moist, moderate to strong hydrocarbon odor (SC)**  
**29-32 Sand- Fine grained, clayey, gray, wet (SC)**

**No Data**

## STATE OF TEXAS WELL REPORT for Tracking #344854

Owner:	<b>City of Houston</b>	Owner Well #:	<b>B-6</b>
Address:	<b>611 Walker Houston , TX 77002</b>	Grid #:	<b>65-13-9</b>
Well Location:	<b>800 Gillette St Houston , TX 77006</b>	Latitude:	<b>29° 45' 19" N</b>
Well County:	<b>Harris</b>	Longitude:	<b>095° 22' 35" W</b>
Elevation:	<b>No Data</b>	GPS Brand Used:	<b>Magellan</b>
<hr/>			
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Environmental Soil Boring</b>

Drilling Date:	Started: <b>9/19/2013</b> Completed: <b>9/19/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 24 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	Gravel Packed From: <b>14 ft to 24 ft</b> Gravel Pack Size: <b>20/40</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b>

**Pearland , TX 77584**

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

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**DESC. & COLOR OF FORMATION MATERIAL****CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**0-1.5 Asphalt**

**1.5-16.5 Clay- Silty, gray and brown, firm, moist. Some caliche observed (CL)**

**16.5-24 Clay- Red and brown, hard, moist, wet at 20'. (CH)**

Dia. New/Used Type Setting From/To

**1" New PVC Riser 0-14 Sch. 40**

**1" New PVC Screen 14-24 0.010**

## STATE OF TEXAS WELL REPORT for Tracking #344857

Owner:	<b>City of Houston</b>	Owner Well #:	<b>B-7</b>
Address:	<b>611 Walker Houston , TX 77002</b>	Grid #:	<b>65-13-9</b>
Well Location:	<b>800 Gillette St Houston , TX 77006</b>	Latitude:	<b>29° 45' 18" N</b>
Well County:	<b>Harris</b>	Longitude:	<b>095° 22' 35" W</b>
Elevation:	<b>No Data</b>	GPS Brand Used:	<b>Magellan</b>

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Type of Work: <b>New Well</b>	Proposed Use: <b>Environmental Soil Boring</b>
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Drilling Date:	Started: <b>9/20/2013</b> Completed: <b>9/20/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 20 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>Open Hole</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

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Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

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Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description  
**0-2 Asphalt**  
**2-10 Clay- Silty, gray, soft to firm, moist, mottled yellow and black. (CL)**  
**10-18 Clay- Red, firm to hard. Caliche and sand lenses observed (CH)**  
**18-20 Sand- Fine grained, red, wet. (SC)**

**No Data**



Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

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Please include the report's Tracking number (Tracking #344859) on your written request.

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-2 Asphalt**

**2-13 Clay- Silty, gray, firm to hard, slight odor at 6'**

**Caliche observed (CL)**

**13-35 Clay- Red and gray, firm to hard, moist increased caliche observed (CH)**

## STATE OF TEXAS WELL REPORT for Tracking #344864

Owner:	City of Houston	Owner Well #:	B-9
Address:	611 Walker Houston , TX 77002	Grid #:	65-13-9
Well Location:	1000 Genesee St Houston , TX 77006	Latitude:	29° 45' 16" N
Well County:	Harris	Longitude:	095° 23' 08" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date:	Started: <b>9/23/2013</b> Completed: <b>9/23/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 36 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>Open Hole</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-1 Concrete**

**1-2 Road base material**

**2-36 Clay- Silty, firm, gray and brown, moist (CL)**

## STATE OF TEXAS WELL REPORT for Tracking #344869

Owner:	City of Houston	Owner Well #:	B-10
Address:	611 Walker Houston , TX 77002	Grid #:	65-13-9
Well Location:	1000 Genesee St Houston , TX 77006	Latitude:	29° 45' 16" N
Well County:	Harris	Longitude:	095° 23' 17" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date: Started: **9/23/2013**  
Completed: **9/23/2013**

Diameter of Hole: Diameter: **2 in From Surface To 36 ft**

Drilling Method: **Driven**

Borehole Completion: **Open Hole**

Annular Seal Data: 1st Interval: **No Data**  
2nd Interval: **No Data**  
3rd Interval: **No Data**

Surface Completion: **Alternative Procedure Used**

Water Level: Static level: **No Data**  
Artesian flow: **No Data**

Packers: **No Data**

Plugging Info: The well **was** plugged within 48 hours.  
Casing or Cement/Bentonite left in well: **No Data**

Type Of Pump: **No Data**

Well Tests: **No Data**

Water Quality: Type of Water: **No Data**  
Depth of Strata: **No Data**  
Chemical Analysis Made: **No Data**  
Did the driller knowingly penetrate any strata which contained undesirable constituents: **No Data**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information: **Envirotech Drilling Services**  
**2718 South Brompton Drive**  
**Pearland , TX 77584**

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-.5 Topsoil**

**.5-16 Clay- Silty, brown firm to hard, mottled red and black. Caliche observed (CL)**

**16-36 Clay- red and gray, hard, moist (CH)**

## STATE OF TEXAS WELL REPORT for Tracking #344873

Owner:	City of Houston	Owner Well #:	B-11
Address:	611 Walker Houston , TX 77002	Grid #:	65-13-9
Well Location:	1000 Genesee St Houston , TX 77006	Latitude:	29° 45' 16" N
Well County:	Harris	Longitude:	095° 23' 17" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date:	Started: <b>9/23/2013</b> Completed: <b>9/23/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 36 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>Open Hole</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-2 Topsoil**

**2-36 Clay- Silty, gray and brown, hard, moist. (CL)**

## STATE OF TEXAS WELL REPORT for Tracking #344876

Owner:	<b>City of Houston</b>	Owner Well #:	<b>B-12</b>
Address:	<b>611 Walker Houston , TX 77002</b>	Grid #:	<b>65-13-9</b>
Well Location:	<b>1700 Genesse St Houston , TX 77006</b>	Latitude:	<b>29° 45' 08" N</b>
Well County:	<b>Harris</b>	Longitude:	<b>095° 23' 13" W</b>
Elevation:	<b>No Data</b>	GPS Brand Used:	<b>Magellan</b>

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Type of Work: <b>New Well</b>	Proposed Use: <b>Environmental Soil Boring</b>
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Drilling Date:	Started: <b>9/23/2013</b> Completed: <b>9/23/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 28 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	Gravel Packed From: <b>18 ft to 28 ft</b> Gravel Pack Size: <b>20/40</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

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Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

---

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b>

**Pearland , TX 77584**

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft)	Description	Dia.	New/Used	Type	Setting From/To
0-1	Topsoil	1"	New	PVC Riser	0-18 Sch.40
1-28	Clay- Silty, gray and brown, hard, moist, wet at 24' Caliche observed (CL)	1"	New	PVC Screen	18-28 0.010

## STATE OF TEXAS WELL REPORT for Tracking #344883

Owner:	City of Houston	Owner Well #:	B-13
Address:	611 Walker Houston , TX 77002	Grid #:	65-13-9
Well Location:	1700 Genesse St Houston , TX 77006	Latitude:	29° 45' 08" N
Well County:	Harris	Longitude:	095° 23' 13" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date: Started: **9/23/2013**  
Completed: **9/23/2013**

Diameter of Hole: Diameter: **2 in From Surface To 28 ft**

Drilling Method: **Driven**

Borehole Completion: **No Data**

Annular Seal Data: 1st Interval: **No Data**  
2nd Interval: **No Data**  
3rd Interval: **No Data**

Surface Completion: **Alternative Procedure Used**

Water Level: Static level: **No Data**  
Artesian flow: **No Data**

Packers: **No Data**

Plugging Info: The well **was** plugged within 48 hours.  
Casing or Cement/Bentonite left in well: **No Data**

Type Of Pump: **No Data**

Well Tests: **No Data**

Water Quality: Type of Water: **No Data**  
Depth of Strata: **No Data**  
Chemical Analysis Made: **No Data**  
Did the driller knowingly penetrate any strata which contained undesirable constituents: **No Data**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

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**2718 South Brompton Drive**  
**Pearland , TX 77584**

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-1.5 No recovery**

**1.5-8 Clay- Silty, brown, soft to firm, moist. (CL)**

**8-28 Clay- Red and gray, firm to hard, wet at 25'. Caliche observed (CL)**

## STATE OF TEXAS WELL REPORT for Tracking #344888

Owner:	City of Houston	Owner Well #:	B-14
Address:	611 Walker Houston , TX 77002	Grid #:	65-13-9
Well Location:	1700 Genesse St Houston , TX 77006	Latitude:	29° 45' 07" N
Well County:	Harris	Longitude:	095° 23' 14" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date: Started: **9/23/2013**  
Completed: **9/23/2013**

Diameter of Hole: Diameter: **2 in From Surface To 36 ft**

Drilling Method: **Driven**

Borehole Completion: **No Data**

Annular Seal Data: 1st Interval: **No Data**  
2nd Interval: **No Data**  
3rd Interval: **No Data**

Surface Completion: **Alternative Procedure Used**

---

Water Level: Static level: **No Data**  
Artesian flow: **No Data**

Packers: **No Data**

Plugging Info: The well **was** plugged within 48 hours.  
Casing or Cement/Bentonite left in well: **No Data**

Type Of Pump: **No Data**

Well Tests: **No Data**

---

Water Quality: Type of Water: **No Data**  
Depth of Strata: **No Data**  
Chemical Analysis Made: **No Data**  
Did the driller knowingly penetrate any strata which contained undesirable constituents: **No Data**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information: **Envirotech Drilling Services**  
**2718 South Brompton Drive**  
**Pearland , TX 77584**

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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Please include the report's Tracking number (Tracking #344888) on your written request.

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**Austin, TX 78711**  
**(512) 463-7880**

**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-1.5 No recovery**

**1.5-7 Clay- Silty, brown, soft to hard. (CL)**

**7-36 Clay- Red and gray, firm to hard, hydrocarbon odor**

**14-17' and 20-36' (CH)**

## STATE OF TEXAS WELL REPORT for Tracking #344889

Owner:	City of Houston	Owner Well #:	B-15
Address:	611 Walker Houston , TX 77002	Grid #:	65-13-9
Well Location:	1700 Genesse St Houston , TX 77006	Latitude:	29° 45' 07" N
Well County:	Harris	Longitude:	095° 23' 17" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date:	Started: <b>9/24/2013</b> Completed: <b>9/24/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 36 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>No Data</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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**(512) 463-7880**

**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-6 Clay- Silt, brown, firm to hard, moist. (CL)**  
**6-28 Clay- Silty, red and gray, firm to hard, moist.**  
**Caliche observed (CL)**  
**28-36 No recovery**

## STATE OF TEXAS WELL REPORT for Tracking #344891

Owner:	City of Houston	Owner Well #:	B-16
Address:	611 Walker Houston , TX 77002	Grid #:	65-13-9
Well Location:	1700 Genesse St Houston , TX 77006	Latitude:	29° 45' 59" N
Well County:	Harris	Longitude:	095° 23' 18" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date: Started: **9/24/2013**  
Completed: **9/24/2013**

Diameter of Hole: Diameter: **2 in From Surface To 28 ft**

Drilling Method: **Driven**

Borehole Completion: **No Data**

Annular Seal Data: 1st Interval: **No Data**  
2nd Interval: **No Data**  
3rd Interval: **No Data**

Surface Completion: **Alternative Procedure Used**

Water Level: Static level: **No Data**  
Artesian flow: **No Data**

Packers: **No Data**

Plugging Info: The well **was** plugged within 48 hours.  
Casing or Cement/Bentonite left in well: **No Data**

Type Of Pump: **No Data**

Well Tests: **No Data**

Water Quality: Type of Water: **No Data**  
Depth of Strata: **No Data**  
Chemical Analysis Made: **No Data**  
Did the driller knowingly penetrate any strata which contained undesirable constituents: **No Data**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information: **Envirotech Drilling Services**  
**2718 South Brompton Drive**  
**Pearland , TX 77584**

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-9 Clay- Silty, brown, soft to hard, moist. (CL)**

**9-28 Clay-red and gray, hard, moist, wet from 24' to 26'.  
 (CL)**

## STATE OF TEXAS WELL REPORT for Tracking #344901

Owner:	City of Houston	Owner Well #:	B-17
Address:	611 Walker Houston , TX 77002	Grid #:	65-13-9
Well Location:	1700 Genesse St Houston , TX 77006	Latitude:	29° 45' 54" N
Well County:	Harris	Longitude:	095° 23' 15" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date:	Started: <b>9/24/2013</b> Completed: <b>9/24/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 32 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>No Data</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

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Please include the report's Tracking number (Tracking #344901) on your written request.

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**(512) 463-7880**

**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description  
**0-1 Asphalt**  
**1-7 Clay- Silt, brown and gray, firm to hard, moist. (CL)**  
**7-20 Clay- Red and gray, firm to hard, moist. Caliche observed (CH)**  
**20-32 Clay- Sandy, brown, soft, wet (CL)**  
**Clay- red and gray, firm to hard, moist. Caliche observed (CH)**

**No Data**



**Pearland , TX 77584**

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

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Please include the report's Tracking number (Tracking #344911) on your written request.

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## DESC. &amp; COLOR OF FORMATION MATERIAL

## CASING, BLANK PIPE &amp; WELL SCREEN DATA

From (ft) To (ft) Description

**0-1.5 Asphalt**

**1.5-11 Clay- Silty, brown, soft to hard, moist (CL)**

**11-20 Clay- Red and gray, firm to hard, moist. Caliche observed (CH)**

**20-24 Sand- Clayey, fine grained, gray, wet. (SC)**

Dia. New/Used Type Setting From/To

**1" New PVC Riser 0-14 Sch.40**

**1" New PVC Screen 14-24 0.010**

## STATE OF TEXAS WELL REPORT for Tracking #344914

Owner:	City of Houston	Owner Well #:	B-19
Address:	611 Walker Houston , TX 77002	Grid #:	65-13-9
Well Location:	1950 Genesee St Houston , TX 77006	Latitude:	29° 45' 34" N
Well County:	Harris	Longitude:	095° 23' 15" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date: Started: **9/24/2013**  
Completed: **9/24/2013**

Diameter of Hole: Diameter: **2 in From Surface To 24 ft**

Drilling Method: **Driven**

Borehole Completion: **No Data**

Annular Seal Data: 1st Interval: **No Data**  
2nd Interval: **No Data**  
3rd Interval: **No Data**

Surface Completion: **Alternative Procedure Used**

Water Level: Static level: **No Data**  
Artesian flow: **No Data**

Packers: **No Data**

Plugging Info: The well **was** plugged within 48 hours.  
Casing or Cement/Bentonite left in well: **No Data**

Type Of Pump: **No Data**

Well Tests: **No Data**

Water Quality: Type of Water: **No Data**  
Depth of Strata: **No Data**  
Chemical Analysis Made: **No Data**  
Did the driller knowingly penetrate any strata which contained undesirable constituents: **No Data**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information: **Envirotech Drilling Services**  
**2718 South Brompton Drive**  
**Pearland , TX 77584**

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description  
**0-.5 Asphalt**  
**.5-8 Clay- Silty, brown, firm to hard, moist. (CL)**  
**8-14 Clay- Gray, firm to hard, moist, mottled red and brown. (CH)**  
**14-24 Clay- Sandy, gray, soft to firm, moist, mottled red, wet at 22'. Caliche observed (CL)**

**No Data**

## STATE OF TEXAS WELL REPORT for Tracking #344944

Owner:	City of Houston	Owner Well #:	B-20
Address:	611 Walker Houston , TX 77002	Grid #:	65-13-9
Well Location:	1950 Genesee St Houston , TX 77006	Latitude:	29° 45' 28" N
Well County:	Harris	Longitude:	095° 23' 16" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date:	Started: <b>9/24/2013</b> Completed: <b>9/24/2013</b>
Diameter of Hole:	Diameter: <b>2" in From Surface To 16 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>Open Hole</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-1.5 Asphalt/Clay mixture**

**1.5-13 Clay- Silty, brown, soft to firm. (CL)**

**13-16 Clay- Silty/sandy, brown and gray, moist, wet from 13-14'.**

## STATE OF TEXAS WELL REPORT for Tracking #344948

Owner:	<b>City of Houston</b>	Owner Well #:	<b>B-21</b>
Address:	<b>611 Walker Houston , TX 77002</b>	Grid #:	<b>65-21-3</b>
Well Location:	<b>307 Tuam St Houston , TX 77006</b>	Latitude:	<b>29° 44' 30" N</b>
Well County:	<b>Harris</b>	Longitude:	<b>095° 22' 33" W</b>
Elevation:	<b>No Data</b>	GPS Brand Used:	<b>Magellan</b>
<hr/>			
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Environmental Soil Boring</b>

Drilling Date:	Started: <b>9/24/2013</b> Completed: <b>9/24/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 36 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>Open Hole</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**0-8 Clay- Silty, brown, soft to hard, moist. (CL)**  
**8-16 Clay- red and gray, firm to hard, moist. Caliche observed (CH)**  
**16-36 Clay- Sandy, gray, mottled brown, firm, moist. (CL)**

**No Data**

## STATE OF TEXAS WELL REPORT for Tracking #344950

Owner:	City of Houston	Owner Well #:	B-22
Address:	611 Walker Houston , TX 77002	Grid #:	65-21-3
Well Location:	307 Tuam St Houston , TX 77006	Latitude:	29° 44' 30" N
Well County:	Harris	Longitude:	095° 22' 32" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date:	Started: <b>9/25/2013</b> Completed: <b>9/25/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 36 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>Open Hole</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
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Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-5 Clay- brown, moist, soft. (CH)**

**5-36 Clay- Silty, gray, mottled red and brown, moist, hard. Caliche observed throughout, large amounts from 26' to 27' Mild hydrocarbon odor beginning at 18', sweet odor present at 26' (CL)**

## STATE OF TEXAS WELL REPORT for Tracking #344953

Owner:	City of Houston	Owner Well #:	B-23
Address:	611 Walker Houston , TX 77002	Grid #:	65-21-3
Well Location:	307 Tuam St Houston , TX 77006	Latitude:	29° 44' 30" N
Well County:	Harris	Longitude:	095° 22' 32" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date:	Started: <b>9/25/2013</b> Completed: <b>9/25/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 36 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>Open Hole</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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Please include the report's Tracking number (Tracking #344953) on your written request.

**Texas Department of Licensing & Regulation**  
**P.O. Box 12157**  
**Austin, TX 78711**  
**(512) 463-7880**

**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-.5 Topsoil**

**.5-5 Clay- brown, firm, moist. (CH)**

**5-36 Clay- Silty, brown and gray, firm to hard, moist.**

**Caliche observed throughout, large amount from 22 to 24' (CL)**

## STATE OF TEXAS WELL REPORT for Tracking #344954

Owner:	City of Houston	Owner Well #:	B-24
Address:	611 Walker Houston , TX 77002	Grid #:	65-21-3
Well Location:	307 Tuam St Houston , TX 77006	Latitude:	29° 44' 30" N
Well County:	Harris	Longitude:	095° 22' 31" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date:	Started: <b>9/25/2013</b> Completed: <b>9/25/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 36 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>Open Hole</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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**(512) 463-7880**

**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-.5 Topsoil**

**.5-6 Clay- brown, firm, moist. (CH)**

**6-36 Clay- Silty, brown and gray, moist, firm to hard.**

**Caliche observed throughout hydrocarbon odor  
 observed beginning at 20' (CL)**

## STATE OF TEXAS WELL REPORT for Tracking #344957

Owner:	City of Houston	Owner Well #:	B-25
Address:	611 Walker Houston , TX 77002	Grid #:	65-21-3
Well Location:	307 Tuam St Houston , TX 77006	Latitude:	29° 44' 29" N
Well County:	Harris	Longitude:	095° 22' 31" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date:	Started: <b>9/25/2013</b> Completed: <b>9/25/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 36 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>Open Hole</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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**(512) 463-7880**

**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-.5 Topsoil**

**.5-4 Clay- brown, firm, moist. (CH)**

**4-34 Clay- Silty, brown and gray, moist, firm to hard.**

**Caliche observed throughout (CL)**

**34-36 Sand- Silty, gray, moist, strong hydrocarbon odor (SM)**

## STATE OF TEXAS WELL REPORT for Tracking #344968

Owner:	City of Houston	Owner Well #:	B-26
Address:	611 Walker Houston , TX 77002	Grid #:	65-21-3
Well Location:	307 Tuam St Houston , TX 77006	Latitude:	29° 44' 29" N
Well County:	Harris	Longitude:	095° 22' 31" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date:	Started: <b>9/25/2013</b> Completed: <b>9/25/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 36 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>Open Hole</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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**(512) 463-7880**

**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-.5 Topsoil**

**.5-4 Clay- brown, firm, moist. (CH)**

**4-36 Clay- Silty, brown and gray, moist, firm to hard.**

**Caliche observed throughtout hydrocarbon odor noted at  
26' (CL)**

## STATE OF TEXAS WELL REPORT for Tracking #344974

Owner:	City of Houston	Owner Well #:	B-27
Address:	611 Walker Houston , TX 77002	Grid #:	65-22-1
Well Location:	307 Tuam St Houston , TX 77006	Latitude:	29° 44' 28" N
Well County:	Harris	Longitude:	095° 22' 29" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date:	Started: <b>9/25/2013</b> Completed: <b>9/25/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 36 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>Open Hole</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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**Austin, TX 78711**  
**(512) 463-7880**

**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-.5 Topsoil**

**.5-4 Clay- brown, firm, dry. (CH)**

**4-36 Clay- Silty, brown and gray, moist, firm to hard.**

**Caliche observed throughout (CL)**

## STATE OF TEXAS WELL REPORT for Tracking #344976

Owner:	City of Houston	Owner Well #:	B-28
Address:	611 Walker Houston , TX 77002	Grid #:	65-22-1
Well Location:	307 Tuam St Houston , TX 77006	Latitude:	29° 44' 28" N
Well County:	Harris	Longitude:	095° 22' 29" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date: Started: **9/26/2013**  
Completed: **9/26/2013**

Diameter of Hole: Diameter: **2 in From Surface To 32 ft**

Drilling Method: **Driven**

Borehole Completion: **Open Hole**

Annular Seal Data: 1st Interval: **No Data**  
2nd Interval: **No Data**  
3rd Interval: **No Data**

Surface Completion: **Alternative Procedure Used**

Water Level: Static level: **No Data**  
Artesian flow: **No Data**

Packers: **No Data**

Plugging Info: The well **was** plugged within 48 hours.  
Casing or Cement/Bentonite left in well: **No Data**

Type Of Pump: **No Data**

Well Tests: **No Data**

Water Quality: Type of Water: **No Data**  
Depth of Strata: **No Data**  
Chemical Analysis Made: **No Data**  
Did the driller knowingly penetrate any strata which contained undesirable constituents: **No Data**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information: **Envirotech Drilling Services**  
**2718 South Brompton Drive**  
**Pearland , TX 77584**

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-8 Clay- brown, firm, moist (CH)**

**8-32 Clay- Red and gray, firm to hard, lenses of silt and sand throughout Refusal encountered at 32' (CL)**

## STATE OF TEXAS WELL REPORT for Tracking #344979

Owner:	<b>City of Houston</b>	Owner Well #:	<b>B-29</b>
Address:	<b>611 Walker Houston , TX 77002</b>	Grid #:	<b>65-22-1</b>
Well Location:	<b>307 Tuam St Houston , TX 77006</b>	Latitude:	<b>29° 44' 28" N</b>
Well County:	<b>Harris</b>	Longitude:	<b>095° 22' 28" W</b>
Elevation:	<b>No Data</b>	GPS Brand Used:	<b>Magellan</b>
<hr/>			
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Environmental Soil Boring</b>

Drilling Date:	Started: <b>9/25/2013</b> Completed: <b>9/25/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 30 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>Open Hole</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description  
**0-2 No recovery**  
**2-4 Clay- brown, firm, moist. (CH)**  
**4-30 Clay- Silty, brown and gray, moist, firm to hard.**  
**Caliche observed throughout Refusal encountered at**  
**30' (CL)**

**No Data**



Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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Please include the report's Tracking number (Tracking #344985) on your written request.

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description  
**0-.5 Topsoil**  
**.5-15 Clay- dark gray, mottled red and brown, firm, moist. Slight odor, increasing odor at 7.5' (CH)**  
**15-20 Sand- Silty, medium grained, moist, moderate odor. (CL)**  
**20-28 Clay- silty, gray, firm to hard, moist, no odor.**  
**28-35 Sand- medium to coarse grained, brown and red, moist, moderate odor. Wet at 32 Limited recovery.**

**No Data**

## STATE OF TEXAS WELL REPORT for Tracking #344988

Owner:	City of Houston	Owner Well #:	B-31
Address:	611 Walker Houston , TX 77002	Grid #:	65-21-3
Well Location:	611 Elgin St Houston , TX 77006	Latitude:	29° 44' 23" N
Well County:	Harris	Longitude:	095° 22' 31" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date:	Started: <b>9/26/2013</b> Completed: <b>9/26/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 35 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>Open Hole</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-5 Clay- Dark gray, firm, moist. (CH)**

**5-35 Clay- Silty, red and gray, moist, firm to hard.**

**Caliche observed throughout SAND lenses noted at 11' and 15' (CH)**

## STATE OF TEXAS WELL REPORT for Tracking #345018

Owner:	<b>City of Houston</b>	Owner Well #:	<b>B-32</b>
Address:	<b>611 Walker Houston , TX 77002</b>	Grid #:	<b>65-21-3</b>
Well Location:	<b>611 Elgin St Houston , TX 77006</b>	Latitude:	<b>29° 44' 23" N</b>
Well County:	<b>Harris</b>	Longitude:	<b>095° 22' 30" W</b>
Elevation:	<b>No Data</b>	GPS Brand Used:	<b>Magellan</b>

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Type of Work:	<b>New Well</b>	Proposed Use:	<b>Environmental Soil Boring</b>
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Drilling Date:	Started: <b>9/26/2013</b> Completed: <b>9/26/2013</b>
Diameter of Hole:	Diameter: <b>2" in From Surface To 35 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>Open Hole</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

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Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

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Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #345018) on your written request.

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**(512) 463-7880**

**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-5 Clay- brown, firm, moist. (CH)**

**5-15 Clay- red and gray, moist, firm to hard. (CH)**

**15-18 Sand- fine grained, brown, moist, loose. (SM)**

**18-35 Clay- red and gray, moist, firm to hard. (CH)**



Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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Please include the report's Tracking number (Tracking #345020) on your written request.

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-1 Asphalt**

**1-11 Clay- brown, firm, moist. (CH)**

**11-35 Clay-silty, sandy, gray, moist, soft to firm. (CL)**



**Pearland , TX 77584**

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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Please include the report's Tracking number (Tracking #345029) on your written request.

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## DESC. &amp; COLOR OF FORMATION MATERIAL

## CASING, BLANK PIPE &amp; WELL SCREEN DATA

From (ft) To (ft) Description

**0-1 Topsoil**

**1-6 Clay- brown, firm, moist. (CH)**

**6-31 Clay- gray and red, moist, soft to firm. Caliche observed throughout, large amount at 25' Silty and sandy from 16-18' (CLS)**

**31-35 Sand- fine grained, red and gray, moist, soft. Wet at 32' (SC)**

Dia. New/Used Type Setting From/To

**1" New PVC Riser 0-25 Sch.40**

**1" New PVC Screen 25-35 0.010**

## STATE OF TEXAS WELL REPORT for Tracking #345036

Owner:	City of Houston	Owner Well #:	B-36
Address:	611 Walker Houston , TX 77002	Grid #:	65-22-1
Well Location:	611 Elgin St Houston , TX 77006	Latitude:	29° 44' 21" N
Well County:	Harris	Longitude:	095° 22' 27" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date: Started: **9/27/2013**  
Completed: **9/27/2013**

Diameter of Hole: Diameter: **2 in From Surface To 32 ft**

Drilling Method: **Driven**

Borehole Completion: **No Data**

Annular Seal Data: 1st Interval: **No Data**  
2nd Interval: **No Data**  
3rd Interval: **No Data**

Surface Completion: **Alternative Procedure Used**

Water Level: Static level: **No Data**  
Artesian flow: **No Data**

Packers: **No Data**

Plugging Info: The well **was** plugged within 48 hours.  
Casing or Cement/Bentonite left in well: **No Data**

Type Of Pump: **No Data**

Well Tests: **No Data**

Water Quality: Type of Water: **No Data**  
Depth of Strata: **No Data**  
Chemical Analysis Made: **No Data**  
Did the driller knowingly penetrate any strata which contained undesirable constituents: **No Data**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information: **Envirotech Drilling Services**  
**2718 South Brompton Drive**  
**Pearland , TX 77584**

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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Please include the report's Tracking number (Tracking #**345036**) on your written request.

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-.5 Concrete**

**.5-5 Clay-brown, firm, moist. (CH)**

**5-27 Clay- Silty, gray, moist, soft to hard. Mottled yellow and brown (CL)**

**27-32 Sand- Fine grained, gray, wet at 28'. (SC)**



Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

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Please include the report's Tracking number (Tracking #345040) on your written request.

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-.5 Concrete**

**.5-8 Clay- Silty, gray and brown, firm, moist. (CH)**

**8-30 Clay- red and gray, moist, firm to hard. Caliche  
 observed throughout Mottled yellow sandy from 27'to  
 30' (CL)**

**30-32 Sand- fine grained, gray and red, wet. (SC)**

## STATE OF TEXAS WELL REPORT for Tracking #345049

Owner:	<b>City of Houston</b>	Owner Well #:	<b>B-38</b>
Address:	<b>611 Walker Houston , TX 77002</b>	Grid #:	<b>65-22-1</b>
Well Location:	<b>3110 Milam St Houston , TX 77006</b>	Latitude:	<b>29° 44' 21" N</b>
Well County:	<b>Harris</b>	Longitude:	<b>095° 22' 26" W</b>
Elevation:	<b>No Data</b>	GPS Brand Used:	<b>Magellan</b>
<hr/>			
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Environmental Soil Boring</b>

Drilling Date:	Started: <b>9/27/2013</b> Completed: <b>9/27/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 35 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	Gravel Packed From: <b>25 ft to 35 ft</b> Gravel Pack Size: <b>20/40</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b>

**Pearland , TX 77584**

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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**DESC. & COLOR OF FORMATION MATERIAL****CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description  
**0-8 Clay- Silty, brown, soft to firm, moist. (CH)**  
**8-31 Clay- red and gray, moist, firm to hard. Caliche**  
**observed throughout Strong hydrocarbon odor**  
**observed from 12-19' (CL)**  
**31-35 Sand- fine grained, red and gray, moist. Wet at**  
**32' no odor observed (SC)**

Dia. New/Used Type Setting From/To  
**1" New PVC Riser 0-25 Sch. 40**  
**1" New PVC Screen 25-35 0.010**



Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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Please include the report's Tracking number (Tracking #**345052**) on your written request.

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DESC. & COLOR OF FORMATION MATERIAL

CASING, BLANK PIPE & WELL SCREEN DATA

From (ft) To (ft) Description

**No Data**

**0-4 Clay- Brown, firm, moist. (CH)**

**4-16 Clay- Silty, brown and gray, moist, firm to hard. (CH)**

**16-20 No recovery**

**20-35 Clay- Silty, gray, soft to hard, mottled yellow (CL)**

## STATE OF TEXAS WELL REPORT for Tracking #345059

Owner:	City of Houston	Owner Well #:	B-40
Address:	611 Walker Houston , TX 77002	Grid #:	65-22-1
Well Location:	3304 Milam St Houston , TX 77006	Latitude:	29° 44' 18" N
Well County:	Harris	Longitude:	095° 22' 28" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date: Started: **10/1/2013**  
Completed: **10/1/2013**

Diameter of Hole: Diameter: **2 in From Surface To 24 ft**

Drilling Method: **Driven**

Borehole Completion: **No Data**

Annular Seal Data: 1st Interval: **No Data**  
2nd Interval: **No Data**  
3rd Interval: **No Data**

Surface Completion: **Alternative Procedure Used**

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Water Level: Static level: **No Data**  
Artesian flow: **No Data**

Packers: **No Data**

Plugging Info: The well **was** plugged within 48 hours.  
Casing or Cement/Bentonite left in well: **No Data**

Type Of Pump: **No Data**

Well Tests: **No Data**

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Water Quality: Type of Water: **No Data**  
Depth of Strata: **No Data**  
Chemical Analysis Made: **No Data**  
Did the driller knowingly penetrate any strata which contained undesirable constituents: **No Data**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information: **Envirotech Drilling Services**  
**2718 South Brompton Drive**  
**Pearland , TX 77584**

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description  
**0-1 Topsoil and caliche gravel**  
**1-24 Clay- Silty, brown and gray, moist, soft. (CL)**  
**24- Sand- clayey, fine grained, gray, wet.**

**No Data**

## STATE OF TEXAS WELL REPORT for Tracking #345062

Owner:	City of Houston	Owner Well #:	B-41
Address:	611 Walker Houston , TX 77002	Grid #:	65-22-1
Well Location:	3304 Milam St Houston , TX 77006	Latitude:	29° 44' 18" N
Well County:	Harris	Longitude:	095° 22' 28" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date:	Started: <b>10/1/2013</b> Completed: <b>10/1/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 36 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>No Data</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description  
**0-2 Gravel- Clayey with caliche grains. Hydrocarbon odor (GC)**  
**2-36 Clay- Silty, brown and gray, firm, moist. Hydrocarbon odor noted at 4' Strong hydrocarbon odor noted at 24' (CH)**

**No Data**

## STATE OF TEXAS WELL REPORT for Tracking #345064

Owner:	City of Houston	Owner Well #:	B-42
Address:	611 Walker Houston , TX 77002	Grid #:	65-22-1
Well Location:	3304 Milam St Houston , TX 77006	Latitude:	29° 44' 18" N
Well County:	Harris	Longitude:	095° 22' 28" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date:	Started: <b>10/1/2013</b> Completed: <b>10/1/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 36 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>No Data</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

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DESC. & COLOR OF FORMATION MATERIAL

CASING, BLANK PIPE & WELL SCREEN DATA

From (ft) To (ft) Description

**No Data**

**0-.5 Topsoil**

**.5-36 Clay- Silty, brown and gray, moist, firm to hard.**

**Hydrocarbon odor noted at 9' and continues throughout (CL)**

## STATE OF TEXAS WELL REPORT for Tracking #345066

Owner:	<b>City of Houston</b>	Owner Well #:	<b>B-43</b>
Address:	<b>611 Walker Houston , TX 77002</b>	Grid #:	<b>65-22-1</b>
Well Location:	<b>3304 Milam St Houston , TX 77006</b>	Latitude:	<b>29° 44' 18" N</b>
Well County:	<b>Harris</b>	Longitude:	<b>095° 22' 29" W</b>
Elevation:	<b>No Data</b>	GPS Brand Used:	<b>Magellan</b>
<hr/>			
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Environmental Soil Boring</b>

Drilling Date:	Started: <b>10/1/2013</b> Completed: <b>10/1/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 24 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	Gravel Packed From: <b>14 ft to 24 ft</b> Gravel Pack Size: <b>20/40</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b>

**Pearland , TX 77584**

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

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**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description  
**0-2 No recovery**  
**2-21 Clay- Silty, brown and gray, moist, firm (CL)**  
**21-22.5 Sand- Clayey, gray, wet.**  
**22.5-24 Clay- Silty, brown and gray, moist, hard. (CL)**

Dia. New/Used Type Setting From/To  
**1" New PVC Riser 0-14 Sch. 40**  
**1" New PVC Screen 14-24 0.010**

## STATE OF TEXAS WELL REPORT for Tracking #345068

Owner:	City of Houston	Owner Well #:	B-44
Address:	611 Walker Houston , TX 77002	Grid #:	65-21-3
Well Location:	3606 Milam St Houston , TX 77006	Latitude:	29° 44' 15" N
Well County:	Harris	Longitude:	095° 22' 30" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date:	Started: <b>10/1/2013</b> Completed: <b>10/1/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 36 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>No Data</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #345068) on your written request.

**Texas Department of Licensing & Regulation**  
**P.O. Box 12157**  
**Austin, TX 78711**  
**(512) 463-7880**

**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-.5 Topsoil**

**.5-36 Clay- Silty, brown and gray, moist, firm to hard (CL)**

## STATE OF TEXAS WELL REPORT for Tracking #345073

Owner:	City of Houston	Owner Well #:	B-45
Address:	611 Walker Houston , TX 77002	Grid #:	65-21-3
Well Location:	3606 Milam St Houston , TX 77006	Latitude:	29° 44' 15" N
Well County:	Harris	Longitude:	095° 22' 31" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date:	Started: <b>10/1/2013</b> Completed: <b>10/1/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 32 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>No Data</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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Please include the report's Tracking number (Tracking #345073) on your written request.

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**P.O. Box 12157**  
**Austin, TX 78711**  
**(512) 463-7880**

**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-.5 Topsoil**

**.5-32 Clay- Silty, brown and gray, moist, soft to hard (CL)**

**Caliche observed beginning at 26 Refusal encountered at 32' (CL)**



**Pearland , TX 77584**

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #345078) on your written request.

**Texas Department of Licensing & Regulation**  
**P.O. Box 12157**  
**Austin, TX 78711**  
**(512) 463-7880**

**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description  
**0-4 Clay- Silty, dark brown, hard, dry (CL)**  
**4-16 Clay- Silty, brown and gray, moist, firm to hard. (CL)**  
**16-20 Sand- Clayey, gray, wet. (SC)**

Dia. New/Used Type Setting From/To  
**1" New PVC Riser 0-10 Sch. 40**  
**1" New PVC Screen 10-20 0.010**

## STATE OF TEXAS WELL REPORT for Tracking #345081

Owner:	<b>City of Houston</b>	Owner Well #:	<b>B-47</b>
Address:	<b>611 Walker Houston , TX 77002</b>	Grid #:	<b>65-21-3</b>
Well Location:	<b>3606 Milam St Houston , TX 77006</b>	Latitude:	<b>29° 44' 13" N</b>
Well County:	<b>Harris</b>	Longitude:	<b>095° 22' 32" W</b>
Elevation:	<b>No Data</b>	GPS Brand Used:	<b>Magellan</b>
<hr/>			
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Environmental Soil Boring</b>

Drilling Date:	Started: <b>10/1/2013</b> Completed: <b>10/1/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 32 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>No Data</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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**(512) 463-7880**

**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-.5 Topsoil**

**.5-32 Clay- Silty, brown and gray, moist, firm to hard.**

**Caliche observed beginning at 19' Refusal encountered at 32' (CH)**

## STATE OF TEXAS WELL REPORT for Tracking #345084

Owner:	<b>City of Houston</b>	Owner Well #:	<b>B-48</b>
Address:	<b>611 Walker Houston , TX 77002</b>	Grid #:	<b>65-21-3</b>
Well Location:	<b>3606 Milam St Houston , TX 77006</b>	Latitude:	<b>29° 44' 13" N</b>
Well County:	<b>Harris</b>	Longitude:	<b>095° 22' 32" W</b>
Elevation:	<b>No Data</b>	GPS Brand Used:	<b>Magellan</b>
<hr/>			
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Environmental Soil Boring</b>

Drilling Date:	Started: <b>10/2/2013</b> Completed: <b>10/2/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 26 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	Gravel Packed From: <b>16 ft to 26 ft</b> Gravel Pack Size: <b>20/40</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b>

**Pearland , TX 77584**

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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**P.O. Box 12157**  
**Austin, TX 78711**  
**(512) 463-7880**

## DESC. &amp; COLOR OF FORMATION MATERIAL

## CASING, BLANK PIPE &amp; WELL SCREEN DATA

From (ft) To (ft) Description

**0-5 Topsoil**

**.5-7 Clay- Silty, brown and gray, moist, firm to hard.**

**Caliche observed (CL)**

**7-9 Clayey caliche (GC)**

**9-24 Clay- Silty, brown and gray, moist, firm to hard.**

**(CL)**

**24-26 Sand- clayey, gray, wet. (SC)**

Dia. New/Used Type Setting From/To

**1" New PVC Riser 0-16 Sch. 40**

**1" New PVC Screen 16-26 0.010**

## STATE OF TEXAS WELL REPORT for Tracking #345086

Owner:	City of Houston	Owner Well #:	B-49
Address:	611 Walker Houston , TX 77002	Grid #:	65-21-3
Well Location:	3606 Milam St Houston , TX 77006	Latitude:	29° 44' 12" N
Well County:	Harris	Longitude:	095° 22' 33" W
Elevation:	No Data	GPS Brand Used:	Magellan
<hr/>			
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Date:	Started: <b>10/2/2013</b> Completed: <b>10/2/2013</b>
Diameter of Hole:	Diameter: <b>2 in From Surface To 28 ft</b>
Drilling Method:	<b>Driven</b>
Borehole Completion:	<b>No Data</b>
Annular Seal Data:	1st Interval: <b>No Data</b> 2nd Interval: <b>No Data</b> 3rd Interval: <b>No Data</b>
Surface Completion:	<b>Alternative Procedure Used</b>

Water Level:	Static level: <b>No Data</b> Artesian flow: <b>No Data</b>
Packers:	<b>No Data</b>
Plugging Info:	The well <b>was</b> plugged within 48 hours. Casing or Cement/Bentonite left in well: <b>No Data</b>
Type Of Pump:	<b>No Data</b>
Well Tests:	<b>No Data</b>

Water Quality:	Type of Water: <b>No Data</b> Depth of Strata: <b>No Data</b> Chemical Analysis Made: <b>No Data</b> Did the driller knowingly penetrate any strata which contained undesirable constituents: <b>No Data</b>
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	<b>Envirotech Drilling Services</b> <b>2718 South Brompton Drive</b> <b>Pearland , TX 77584</b>

Driller License Number: **58171**  
 Licensed Well Driller Signature: **Jaime Vasquez**  
 Registered Driller Apprentice Signature: **Isidro Fuentes**  
 Apprentice Registration Number: **No Data**  
 Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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Please include the report's Tracking number (Tracking #**345086**) on your written request.

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**P.O. Box 12157**  
**Austin, TX 78711**  
**(512) 463-7880**

**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description

**No Data**

**0-.5 Topsoil**

**.5-7 Clay- Silty, brown and gray, moist, soft to hard.**

**Caliche observed (CL)**

**7-27 Sand- Clayey, gray, wet. (SC)**

**27-28 Clay- Silty, brown and gray, moist, firm to hard.**

**(CL)**



# **APPENDIX E**

Laboratory Analytical and QA/QC Reports



27-Sep-2013

Jordan Smith  
Kleinfelder  
12000 Aerospace Ave.  
Suite 450  
Houston, TX 77034

Tel: (281) 922-4766  
Fax: (281) 922-4767

Re: COH-Montrose-Midtown Phase II ES

Work Order: **1309926**

Dear Jordan,

ALS Environmental received 10 samples on 20-Sep-2013 01:12 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 50.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in cursive script that reads "Sonia West".

Electronically approved by: Luke F. Hernandez

Sonia West  
Project Manager



Certificate No: TX: T104704231-13-12

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

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Environmental

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RIGHT SOLUTIONS RIGHT PARTNER

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES  
**Work Order:** 1309926

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**TRRP Laboratory Data  
Package Cover Page**

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This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5,
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 Other problems or anomalies.  
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

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**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES  
**Work Order:** 1309926

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**TRRP Laboratory Data  
Package Cover Page**

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable:  [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by  TCEQ or  \_\_\_\_\_ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

*Sonia West*

Sonia West  
Project Manager

**Laboratory Review Checklist: Reportable Data**

Laboratory Name: ALS Laboratory Group		LRC Date: 9/27/2013					
Project Name: COH-Montrose-Midtown Phase II ES		Laboratory Job Number: 1309926					
Reviewer Name: Sonia West		Prep Batch Number(s): 73266, 73278, 73304, 73308, 73313, 13392, R154139, R154182, R154325					
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
<b>R1</b>	OI	<b>Chain-of-custody (C-O-C)</b>					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
<b>R2</b>	OI	<b>Sample and quality control (QC) identification</b>					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
<b>R3</b>	OI	<b>Test reports</b>					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
<b>R4</b>	O	<b>Surrogate recovery data</b>					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			1
<b>R5</b>	OI	<b>Test reports/summary forms for blank samples</b>					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
<b>R6</b>	OI	<b>Laboratory control samples (LCS):</b>					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSd, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSd RPD within QC limits?		X			2
<b>R7</b>	OI	<b>Matrix spike (MS) and matrix spike duplicate (MSD) data</b>					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			3
		Were MS/MSD RPDs within laboratory QC limits?	X				
<b>R8</b>	OI	<b>Analytical duplicate data</b>					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			4
<b>R9</b>	OI	<b>Method quantitation limits (MQLs):</b>					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
<b>R10</b>	OI	<b>Other problems/anomalies</b>					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

<b>Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: ALS Laboratory Group				LRC Date: 9/27/2013			
Project Name: COH-Montrose-Midtown Phase II ES				Laboratory Job Number: 1309926			
Reviewer Name: Sonia West				Prep Batch Number(s): 73266, 73278, 73304, 73308, 73313, 13392, R154139, R154182, R154325			
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
<b>S1</b>	OI	<b>Initial calibration (ICAL)</b>					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
<b>S2</b>	OI	<b>Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)</b>					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?		X			5
<b>S3</b>	O	<b>Mass spectral tuning:</b>					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
<b>S4</b>	O	<b>Internal standards (IS):</b>					
		Were IS area counts and retention times within the method-required QC limits?	X				
<b>S5</b>	OI	<b>Raw data</b> (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
<b>S6</b>	O	<b>Dual column confirmation</b>					
		Did dual column confirmation results meet the method-required QC?			X		
<b>S7</b>	O	<b>Tentatively identified compounds (TICs):</b>					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
<b>S8</b>	I	<b>Interference Check Sample (ICS) results:</b>					
		Were percent recoveries within method QC limits?	X				
<b>S9</b>	I	<b>Serial dilutions, post digestion spikes, and method of standard additions</b>					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			6
<b>S10</b>	OI	<b>Method detection limit (MDL) studies</b>					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
<b>S11</b>	OI	<b>Proficiency test reports:</b>					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
<b>S12</b>	OI	<b>Standards documentation</b>					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
<b>S13</b>	OI	<b>Compound/analyte identification procedures</b>					
		Are the procedures for compound/analyte identification documented?	X				
<b>S14</b>	OI	<b>Demonstration of analyst competency (DOC)</b>					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
<b>S15</b>	OI	<b>Verification/validation documentation for methods</b> (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
<b>S16</b>	OI	<b>Laboratory standard operating procedures (SOPs):</b>					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);

NA = Not Applicable;

NR = Not Reviewed;

R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

**Laboratory Review Checklist: Reportable Data**

Laboratory Name: ALS Laboratory Group		LRC Date: 9/27/2013
Project Name: COH-Montrose-Midtown Phase II ES		Laboratory Job Number: 1309926
Reviewer Name: Sonia West		Prep Batch Number(s): 73266, 73278, 73304, 73308, 73313, 13392, R154139, R154182, R154325
ER# <sup>5</sup>	Description	
1	Volatile Organics – SW8260, Surrogate 4-Bromofluorobenzene recovery was above the control limits for Sample B-5 (30-32). Results confirmed as matrix interference by re-analysis.	
2	Batch 73278, Texas TPH – TX1005: LCSD RPD was above the control limits for >nC12 to nC28 and Surrogate 2-Fluorobiphenyl. The individual recoveries were in control.	
3	Batch 73266, Metals SW6020, Sample 1309449-03: MS/MSD is for an unrelated sample. Batch 73313, Metals SW6020, Sample 1309917-01: MS/MSD is for an unrelated sample. Batch R154182, Volatile Organics SW8260, Sample 1309890-07: MS/MSD is for an unrelated sample.	
4	Batch 73266, Metals SW6020, Sample 1309449-03: Duplicate RPD is for an unrelated sample.	
5	Method 6020A requires the CCB to contain target analytes less than the established lower limit of quantitation (PQL). At ALS-Houston, CCBs for Method 6020A are evaluated to ½ PQL for all metals except for Al, Bi, B, C, Li, Mg, K, Na, Sr, Sn, Zn and Zr. The exceptions are evaluated to the less than the PQL per Method 6020A.	
6	Batch 73266, Metals 6020, Sample 1309449-03: PDS recovery is for unrelated sample.	
<p>Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.</p> <p>O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);          NA = Not Applicable;          NR = Not Reviewed;          R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p>		

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES  
**Work Order:** 1309926

**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1309926-01	B-1 (28-30)	Soil		9/19/2013 09:30	9/20/2013 13:12	<input type="checkbox"/>
1309926-02	B-3 (24-26)	Soil		9/19/2013 11:20	9/20/2013 13:12	<input type="checkbox"/>
1309926-03	B-4 (12-14)	Soil		9/19/2013 12:00	9/20/2013 13:12	<input type="checkbox"/>
1309926-04	B-5 (30-32)	Soil		9/19/2013 13:15	9/20/2013 13:12	<input type="checkbox"/>
1309926-05	B-6 (10-12)	Soil		9/19/2013 15:20	9/20/2013 13:12	<input type="checkbox"/>
1309926-06	B-6	Water		9/20/2013 07:15	9/20/2013 13:12	<input type="checkbox"/>
1309926-07	B-3	Water		9/20/2013 07:40	9/20/2013 13:12	<input type="checkbox"/>
1309926-08	B-7 (16-18)	Soil		9/20/2013 08:30	9/20/2013 13:12	<input type="checkbox"/>
1309926-09	B-8 (18-20)	Soil		9/20/2013 09:55	9/20/2013 13:12	<input type="checkbox"/>
1309926-10	TRIP BLANK-090613-31	Water		9/19/2013	9/20/2013 13:12	<input type="checkbox"/>

**ALS Environmental**

Date: 27-Sep-13

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES  
**Sample ID:** B-1 (28-30)  
**Collection Date:** 9/19/2013 09:30 AM

**Work Order:** 1309926  
**Lab ID:** 1309926-01  
**Matrix:** SOIL

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			Method: TX1005		Prep: TX1005PR / 9/23/13		Analyst: <b>RPM</b>
nC6 to nC12		U	10	50	mg/Kg	1	9/24/2013 10:22
>nC12 to nC28		U	10	50	mg/Kg	1	9/24/2013 10:22
>nC28 to nC35		U	10	50	mg/Kg	1	9/24/2013 10:22
Total Petroleum Hydrocarbon		U	10	50	mg/Kg	1	9/24/2013 10:22
<i>Surr: 2-Fluorobiphenyl</i>	83.6			70-130	%REC	1	9/24/2013 10:22
<i>Surr: Trifluoromethyl benzene</i>	79.7			70-130	%REC	1	9/24/2013 10:22
<b>MERCURY - SW7471B</b>			Method: SW7471A		Prep: SW7471A / 9/24/13		Analyst: <b>OFO</b>
Mercury	0.838	J	0.49	3.48	µg/Kg	1	9/24/2013 17:37
<b>METALS</b>			Method: SW6020		Prep: SW3050A / 9/23/13		Analyst: <b>ALR</b>
Arsenic	2.37		0.0990	0.495	mg/Kg	1	9/23/2013 23:54
Barium	16.4		0.0792	0.495	mg/Kg	1	9/23/2013 23:54
Cadmium		U	0.0495	0.495	mg/Kg	1	9/23/2013 23:54
Chromium	13.8		0.0891	0.495	mg/Kg	1	9/23/2013 23:54
Lead	15.2		0.0495	0.495	mg/Kg	1	9/23/2013 23:54
Selenium	0.278	J	0.178	0.495	mg/Kg	1	9/23/2013 23:54
Silver		U	0.0792	0.495	mg/Kg	1	9/23/2013 23:54
<b>VOLATILES - SW8260C</b>			Method: SW8260		Analyst: <b>WLR</b>		
Benzene		U	0.60	5.0	µg/Kg	1	9/23/2013 12:13
Ethylbenzene		U	0.90	5.0	µg/Kg	1	9/23/2013 12:13
m,p-Xylene		U	1.7	10	µg/Kg	1	9/23/2013 12:13
Methyl tert-butyl ether		U	1.9	5.0	µg/Kg	1	9/23/2013 12:13
o-Xylene		U	1.0	5.0	µg/Kg	1	9/23/2013 12:13
Toluene		U	0.70	5.0	µg/Kg	1	9/23/2013 12:13
Xylenes, Total		U	1.7	10	µg/Kg	1	9/23/2013 12:13
<i>Surr: 1,2-Dichloroethane-d4</i>	89.2			70-128	%REC	1	9/23/2013 12:13
<i>Surr: 4-Bromofluorobenzene</i>	99.5			73-126	%REC	1	9/23/2013 12:13
<i>Surr: Dibromofluoromethane</i>	109			71-128	%REC	1	9/23/2013 12:13
<i>Surr: Toluene-d8</i>	97.5			73-127	%REC	1	9/23/2013 12:13

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 27-Sep-13

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES  
**Sample ID:** B-3 (24-26)  
**Collection Date:** 9/19/2013 11:20 AM

**Work Order:** 1309926  
**Lab ID:** 1309926-02  
**Matrix:** SOIL

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			Method: TX1005		Prep: TX1005PR / 9/23/13		Analyst: <b>RPM</b>
nC6 to nC12	U		9.9	50	mg/Kg	1	9/24/2013 10:51
>nC12 to nC28	U		9.9	50	mg/Kg	1	9/24/2013 10:51
>nC28 to nC35	U		9.9	50	mg/Kg	1	9/24/2013 10:51
Total Petroleum Hydrocarbon	U		9.9	50	mg/Kg	1	9/24/2013 10:51
<i>Surr: 2-Fluorobiphenyl</i>	95.2			70-130	%REC	1	9/24/2013 10:51
<i>Surr: Trifluoromethyl benzene</i>	87.0			70-130	%REC	1	9/24/2013 10:51
<b>MERCURY - SW7471B</b>			Method: SW7471A		Prep: SW7471A / 9/24/13		Analyst: <b>OFO</b>
Mercury	1.62	J	0.48	3.38	µg/Kg	1	9/24/2013 17:44
<b>METALS</b>			Method: SW6020		Prep: SW3050A / 9/23/13		Analyst: <b>ALR</b>
Arsenic	1.05		0.0986	0.493	mg/Kg	1	9/23/2013 23:59
Barium	20.2		0.0789	0.493	mg/Kg	1	9/23/2013 23:59
Cadmium	U		0.0493	0.493	mg/Kg	1	9/23/2013 23:59
Chromium	10.8		0.0887	0.493	mg/Kg	1	9/23/2013 23:59
Lead	2.32		0.0493	0.493	mg/Kg	1	9/23/2013 23:59
Selenium	0.285	J	0.177	0.493	mg/Kg	1	9/23/2013 23:59
Silver	U		0.0789	0.493	mg/Kg	1	9/23/2013 23:59
<b>VOLATILES - SW8260C</b>			Method: SW8260		Analyst: <b>WLR</b>		
Benzene	U		0.60	5.0	µg/Kg	1	9/23/2013 12:32
Ethylbenzene	U		0.90	5.0	µg/Kg	1	9/23/2013 12:32
m,p-Xylene	U		1.7	10	µg/Kg	1	9/23/2013 12:32
Methyl tert-butyl ether	U		1.9	5.0	µg/Kg	1	9/23/2013 12:32
o-Xylene	U		1.0	5.0	µg/Kg	1	9/23/2013 12:32
Toluene	U		0.70	5.0	µg/Kg	1	9/23/2013 12:32
Xylenes, Total	U		1.7	10	µg/Kg	1	9/23/2013 12:32
<i>Surr: 1,2-Dichloroethane-d4</i>	94.1			70-128	%REC	1	9/23/2013 12:32
<i>Surr: 4-Bromofluorobenzene</i>	99.1			73-126	%REC	1	9/23/2013 12:32
<i>Surr: Dibromofluoromethane</i>	108			71-128	%REC	1	9/23/2013 12:32
<i>Surr: Toluene-d8</i>	96.0			73-127	%REC	1	9/23/2013 12:32

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 27-Sep-13

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES  
**Sample ID:** B-4 (12-14)  
**Collection Date:** 9/19/2013 12:00 PM

**Work Order:** 1309926  
**Lab ID:** 1309926-03  
**Matrix:** SOIL

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			Method: <b>TX1005</b>		Prep: TX1005PR / 9/23/13		Analyst: <b>RPM</b>
nC6 to nC12		U	10	50	mg/Kg	1	9/24/2013 11:20
>nC12 to nC28		U	10	50	mg/Kg	1	9/24/2013 11:20
>nC28 to nC35		U	10	50	mg/Kg	1	9/24/2013 11:20
Total Petroleum Hydrocarbon		U	10	50	mg/Kg	1	9/24/2013 11:20
<i>Surr: 2-Fluorobiphenyl</i>	95.5			70-130	%REC	1	9/24/2013 11:20
<i>Surr: Trifluoromethyl benzene</i>	86.3			70-130	%REC	1	9/24/2013 11:20
<b>MERCURY - SW7471B</b>			Method: <b>SW7471A</b>		Prep: SW7471A / 9/24/13		Analyst: <b>OFO</b>
Mercury	1.52	J	0.49	3.44	µg/Kg	1	9/24/2013 17:46
<b>METALS</b>			Method: <b>SW6020</b>		Prep: SW3050A / 9/23/13		Analyst: <b>ALR</b>
Arsenic	2.00		0.0976	0.488	mg/Kg	1	9/24/2013 00:04
Barium	35.7		0.0781	0.488	mg/Kg	1	9/24/2013 00:04
Cadmium		U	0.0488	0.488	mg/Kg	1	9/24/2013 00:04
Chromium	6.28		0.0878	0.488	mg/Kg	1	9/24/2013 00:04
Lead	5.93		0.0488	0.488	mg/Kg	1	9/24/2013 00:04
Selenium	0.225	J	0.176	0.488	mg/Kg	1	9/24/2013 00:04
Silver		U	0.0781	0.488	mg/Kg	1	9/24/2013 00:04
<b>VOLATILES - SW8260C</b>			Method: <b>SW8260</b>		Analyst: <b>WLR</b>		
Benzene		U	0.60	5.0	µg/Kg	1	9/23/2013 12:51
Ethylbenzene		U	0.90	5.0	µg/Kg	1	9/23/2013 12:51
m,p-Xylene		U	1.7	10	µg/Kg	1	9/23/2013 12:51
Methyl tert-butyl ether		U	1.9	5.0	µg/Kg	1	9/23/2013 12:51
o-Xylene		U	1.0	5.0	µg/Kg	1	9/23/2013 12:51
Toluene		U	0.70	5.0	µg/Kg	1	9/23/2013 12:51
Xylenes, Total		U	1.7	10	µg/Kg	1	9/23/2013 12:51
<i>Surr: 1,2-Dichloroethane-d4</i>	90.7			70-128	%REC	1	9/23/2013 12:51
<i>Surr: 4-Bromofluorobenzene</i>	97.0			73-126	%REC	1	9/23/2013 12:51
<i>Surr: Dibromofluoromethane</i>	103			71-128	%REC	1	9/23/2013 12:51
<i>Surr: Toluene-d8</i>	94.4			73-127	%REC	1	9/23/2013 12:51

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 27-Sep-13

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES  
**Sample ID:** B-5 (30-32)  
**Collection Date:** 9/19/2013 01:15 PM

**Work Order:** 1309926  
**Lab ID:** 1309926-04  
**Matrix:** SOIL

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			Method: TX1005		Prep: TX1005PR / 9/23/13		Analyst: <b>RPM</b>
nC6 to nC12	970		9.9	50	mg/Kg	1	9/24/2013 11:50
>nC12 to nC28	63		9.9	50	mg/Kg	1	9/24/2013 11:50
>nC28 to nC35	U		9.9	50	mg/Kg	1	9/24/2013 11:50
<b>Total Petroleum Hydrocarbon</b>	<b>1,030</b>		<b>9.9</b>	<b>50</b>	<b>mg/Kg</b>	1	9/24/2013 11:50
Surr: 2-Fluorobiphenyl	98.1			70-130	%REC	1	9/24/2013 11:50
Surr: Trifluoromethyl benzene	103			70-130	%REC	1	9/24/2013 11:50
<b>MERCURY - SW7471B</b>			Method: SW7471A		Prep: SW7471A / 9/24/13		Analyst: <b>OFO</b>
Mercury	2.09	J	0.51	3.59	µg/Kg	1	9/24/2013 17:47
<b>METALS</b>			Method: SW6020		Prep: SW3050A / 9/23/13		Analyst: <b>ALR</b>
Arsenic	1.17		0.0967	0.484	mg/Kg	1	9/24/2013 00:19
Barium	21.8		0.0774	0.484	mg/Kg	1	9/24/2013 00:19
Cadmium	U		0.0484	0.484	mg/Kg	1	9/24/2013 00:19
Chromium	4.80		0.0871	0.484	mg/Kg	1	9/24/2013 00:19
Lead	5.55		0.0484	0.484	mg/Kg	1	9/24/2013 00:19
Selenium	0.299	J	0.174	0.484	mg/Kg	1	9/24/2013 00:19
Silver	U		0.0774	0.484	mg/Kg	1	9/24/2013 00:19
<b>VOLATILES - SW8260C</b>			Method: SW8260		Analyst: <b>WLR</b>		
Benzene	1,500		60	500	µg/Kg	100	9/24/2013 09:10
Ethylbenzene	37,000		900	5,000	µg/Kg	1000	9/24/2013 10:25
m,p-Xylene	76,000		1,700	10,000	µg/Kg	1000	9/24/2013 10:25
Methyl tert-butyl ether	U		19	50	µg/Kg	10	9/23/2013 10:03
o-Xylene	1,900	J	1,000	5,000	µg/Kg	1000	9/24/2013 10:25
Toluene	U		7.0	50	µg/Kg	10	9/23/2013 10:03
<b>Xylenes, Total</b>	<b>78,000</b>		<b>1,700</b>	<b>10,000</b>	<b>µg/Kg</b>	1000	9/24/2013 10:25
Surr: 1,2-Dichloroethane-d4	110			70-128	%REC	10	9/23/2013 10:03
Surr: 1,2-Dichloroethane-d4	108			70-128	%REC	100	9/24/2013 09:10
Surr: 1,2-Dichloroethane-d4	110			70-128	%REC	1000	9/24/2013 10:25
Surr: 4-Bromofluorobenzene	261	S		73-126	%REC	10	9/23/2013 10:03
Surr: 4-Bromofluorobenzene	161	S		73-126	%REC	100	9/24/2013 09:10
Surr: 4-Bromofluorobenzene	111			73-126	%REC	1000	9/24/2013 10:25
Surr: Dibromofluoromethane	110			71-128	%REC	10	9/23/2013 10:03
Surr: Dibromofluoromethane	101			71-128	%REC	100	9/24/2013 09:10
Surr: Dibromofluoromethane	102			71-128	%REC	1000	9/24/2013 10:25
Surr: Toluene-d8	106			73-127	%REC	10	9/23/2013 10:03
Surr: Toluene-d8	97.7			73-127	%REC	100	9/24/2013 09:10
Surr: Toluene-d8	97.9			73-127	%REC	1000	9/24/2013 10:25

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 27-Sep-13

Client: Kleinfelder  
 Project: COH-Montrose-Midtown Phase II ES  
 Sample ID: B-6 (10-12)  
 Collection Date: 9/19/2013 03:20 PM

Work Order: 1309926  
 Lab ID: 1309926-05  
 Matrix: SOIL

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			Method: TX1005		Prep: TX1005PR / 9/23/13		Analyst: <b>RPM</b>
nC6 to nC12	U		10	50	mg/Kg	1	9/24/2013 10:22
>nC12 to nC28	U		10	50	mg/Kg	1	9/24/2013 10:22
>nC28 to nC35	U		10	50	mg/Kg	1	9/24/2013 10:22
Total Petroleum Hydrocarbon	U		10	50	mg/Kg	1	9/24/2013 10:22
Surr: 2-Fluorobiphenyl	123			70-130	%REC	1	9/24/2013 10:22
Surr: Trifluoromethyl benzene	98.0			70-130	%REC	1	9/24/2013 10:22
<b>MERCURY - SW7471B</b>			Method: SW7471A		Prep: SW7471A / 9/24/13		Analyst: <b>OFO</b>
Mercury	U		0.50	3.54	µg/Kg	1	9/24/2013 17:49
<b>METALS</b>			Method: SW6020		Prep: SW3050A / 9/23/13		Analyst: <b>ALR</b>
Arsenic	2.09		0.0919	0.460	mg/Kg	1	9/24/2013 00:24
Barium	66.8		0.0735	0.460	mg/Kg	1	9/24/2013 00:24
Cadmium	U		0.0460	0.460	mg/Kg	1	9/24/2013 00:24
Chromium	4.94		0.0827	0.460	mg/Kg	1	9/24/2013 00:24
Lead	3.44		0.0460	0.460	mg/Kg	1	9/24/2013 00:24
Selenium	0.516		0.165	0.460	mg/Kg	1	9/24/2013 00:24
Silver	U		0.0735	0.460	mg/Kg	1	9/24/2013 00:24
<b>VOLATILES - SW8260C</b>			Method: SW8260		Analyst: <b>WLR</b>		
Benzene	U		0.60	5.0	µg/Kg	1	9/23/2013 13:10
Ethylbenzene	U		0.90	5.0	µg/Kg	1	9/23/2013 13:10
m,p-Xylene	U		1.7	10	µg/Kg	1	9/23/2013 13:10
Methyl tert-butyl ether	U		1.9	5.0	µg/Kg	1	9/23/2013 13:10
o-Xylene	U		1.0	5.0	µg/Kg	1	9/23/2013 13:10
Toluene	U		0.70	5.0	µg/Kg	1	9/23/2013 13:10
Xylenes, Total	U		1.7	10	µg/Kg	1	9/23/2013 13:10
Surr: 1,2-Dichloroethane-d4	86.4			70-128	%REC	1	9/23/2013 13:10
Surr: 4-Bromofluorobenzene	98.9			73-126	%REC	1	9/23/2013 13:10
Surr: Dibromofluoromethane	108			71-128	%REC	1	9/23/2013 13:10
Surr: Toluene-d8	96.6			73-127	%REC	1	9/23/2013 13:10

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 27-Sep-13

Client: Kleinfelder  
 Project: COH-Montrose-Midtown Phase II ES  
 Sample ID: B-6  
 Collection Date: 9/20/2013 07:15 AM

Work Order: 1309926  
 Lab ID: 1309926-06  
 Matrix: WATER

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
<b>LOW-LEVEL TEXAS TPH - TX1005</b>			Method: TX1005		Prep: TX1005PR / 9/26/13		Analyst: <b>RPM</b>
nC6 to nC12	U		0.20	0.49	mg/L	1	9/26/2013 19:29
>nC12 to nC28	U		0.20	0.49	mg/L	1	9/26/2013 19:29
>nC28 to nC35	U		0.20	0.49	mg/L	1	9/26/2013 19:29
Total Petroleum Hydrocarbon	U		0.20	0.49	mg/L	1	9/26/2013 19:29
<i>Surr: 2-Fluorobiphenyl</i>	78.2			70-130	%REC	1	9/26/2013 19:29
<i>Surr: Trifluoromethyl benzene</i>	85.7			70-130	%REC	1	9/26/2013 19:29
<b>MERCURY-SW7470A</b>			Method: SW7470		Prep: SW7470 / 9/24/13		Analyst: <b>OFO</b>
Mercury	0.00234		0.000040	0.000200	mg/L	1	9/24/2013 15:43
<b>METALS</b>			Method: SW6020		Prep: SW3010A / 9/24/13		Analyst: <b>SKS</b>
Arsenic	0.108		0.0010	0.00500	mg/L	1	9/25/2013 12:59
Barium	5.81		0.0090	0.0500	mg/L	10	9/25/2013 13:04
Cadmium	0.00398		0.00080	0.00200	mg/L	1	9/25/2013 12:59
Chromium	0.411		0.0010	0.00500	mg/L	1	9/25/2013 12:59
Lead	2.47		0.0070	0.0500	mg/L	10	9/25/2013 13:04
Selenium	0.0205		0.0010	0.00500	mg/L	1	9/25/2013 12:59
Silver	0.00454	J	0.00080	0.00500	mg/L	1	9/25/2013 12:59
<b>VOLATILES - SW8260C</b>			Method: SW8260				Analyst: <b>PC</b>
Benzene	U		0.00050	0.0050	mg/L	1	9/26/2013 06:46
Ethylbenzene	U		0.00050	0.0050	mg/L	1	9/26/2013 06:46
m,p-Xylene	U		0.0010	0.010	mg/L	1	9/26/2013 06:46
Methyl tert-butyl ether	0.0017	J	0.0010	0.0050	mg/L	1	9/26/2013 06:46
o-Xylene	U		0.00050	0.0050	mg/L	1	9/26/2013 06:46
Toluene	U		0.00050	0.0050	mg/L	1	9/26/2013 06:46
Xylenes, Total	U		0.0015	0.015	mg/L	1	9/26/2013 06:46
<i>Surr: 1,2-Dichloroethane-d4</i>	104			70-125	%REC	1	9/26/2013 06:46
<i>Surr: 4-Bromofluorobenzene</i>	98.3			72-125	%REC	1	9/26/2013 06:46
<i>Surr: Dibromofluoromethane</i>	103			71-125	%REC	1	9/26/2013 06:46
<i>Surr: Toluene-d8</i>	96.2			75-125	%REC	1	9/26/2013 06:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 27-Sep-13

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES  
**Sample ID:** B-3  
**Collection Date:** 9/20/2013 07:40 AM

**Work Order:** 1309926  
**Lab ID:** 1309926-07  
**Matrix:** WATER

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
<b>LOW-LEVEL TEXAS TPH - TX1005</b>			Method: <b>TX1005</b>		Prep: TX1005PR / 9/26/13		Analyst: <b>RPM</b>
nC6 to nC12	U		0.19	0.48	mg/L	1	9/26/2013 20:01
>nC12 to nC28	U		0.19	0.48	mg/L	1	9/26/2013 20:01
>nC28 to nC35	U		0.19	0.48	mg/L	1	9/26/2013 20:01
Total Petroleum Hydrocarbon	U		0.19	0.48	mg/L	1	9/26/2013 20:01
<i>Surr: 2-Fluorobiphenyl</i>	74.8			70-130	%REC	1	9/26/2013 20:01
<i>Surr: Trifluoromethyl benzene</i>	83.5			70-130	%REC	1	9/26/2013 20:01
<b>MERCURY-SW7470A</b>			Method: <b>SW7470</b>		Prep: SW7470 / 9/24/13		Analyst: <b>OFO</b>
Mercury	U		0.000040	0.000200	mg/L	1	9/24/2013 15:45
<b>METALS</b>			Method: <b>SW6020</b>		Prep: SW3010A / 9/24/13		Analyst: <b>SKS</b>
<b>Arsenic</b>	<b>0.0165</b>		<b>0.0010</b>	<b>0.00500</b>	<b>mg/L</b>	1	9/25/2013 13:02
<b>Barium</b>	<b>0.291</b>		<b>0.00090</b>	<b>0.00500</b>	<b>mg/L</b>	1	9/25/2013 13:02
Cadmium	U		0.00080	0.00200	mg/L	1	9/25/2013 13:02
<b>Chromium</b>	<b>0.0260</b>		<b>0.0010</b>	<b>0.00500</b>	<b>mg/L</b>	1	9/25/2013 13:02
<b>Lead</b>	<b>0.0260</b>		<b>0.00070</b>	<b>0.00500</b>	<b>mg/L</b>	1	9/25/2013 13:02
Selenium	U		0.0010	0.00500	mg/L	1	9/25/2013 13:02
Silver	U		0.00080	0.00500	mg/L	1	9/25/2013 13:02
<b>VOLATILES - SW8260C</b>			Method: <b>SW8260</b>				Analyst: <b>PC</b>
Benzene	U		0.00050	0.0050	mg/L	1	9/26/2013 07:12
Ethylbenzene	U		0.00050	0.0050	mg/L	1	9/26/2013 07:12
m,p-Xylene	U		0.0010	0.010	mg/L	1	9/26/2013 07:12
<b>Methyl tert-butyl ether</b>	<b>0.015</b>		<b>0.0010</b>	<b>0.0050</b>	<b>mg/L</b>	1	9/26/2013 07:12
o-Xylene	U		0.00050	0.0050	mg/L	1	9/26/2013 07:12
Toluene	U		0.00050	0.0050	mg/L	1	9/26/2013 07:12
Xylenes, Total	U		0.0015	0.015	mg/L	1	9/26/2013 07:12
<i>Surr: 1,2-Dichloroethane-d4</i>	105			70-125	%REC	1	9/26/2013 07:12
<i>Surr: 4-Bromofluorobenzene</i>	98.1			72-125	%REC	1	9/26/2013 07:12
<i>Surr: Dibromofluoromethane</i>	104			71-125	%REC	1	9/26/2013 07:12
<i>Surr: Toluene-d8</i>	95.6			75-125	%REC	1	9/26/2013 07:12

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 27-Sep-13

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES  
**Sample ID:** B-7 (16-18)  
**Collection Date:** 9/20/2013 08:30 AM

**Work Order:** 1309926  
**Lab ID:** 1309926-08  
**Matrix:** SOIL

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			Method: <b>TX1005</b>		Prep: TX1005PR / 9/23/13		Analyst: <b>RPM</b>
nC6 to nC12		U	9.9	50	mg/Kg	1	9/24/2013 10:51
>nC12 to nC28		U	9.9	50	mg/Kg	1	9/24/2013 10:51
>nC28 to nC35		U	9.9	50	mg/Kg	1	9/24/2013 10:51
Total Petroleum Hydrocarbon		U	9.9	50	mg/Kg	1	9/24/2013 10:51
<i>Surr: 2-Fluorobiphenyl</i>	90.2			70-130	%REC	1	9/24/2013 10:51
<i>Surr: Trifluoromethyl benzene</i>	76.5			70-130	%REC	1	9/24/2013 10:51
<b>MERCURY - SW7471B</b>			Method: <b>SW7471A</b>		Prep: SW7471A / 9/24/13		Analyst: <b>OFO</b>
Mercury	1.78	J	0.50	3.56	µg/Kg	1	9/24/2013 17:54
<b>METALS</b>			Method: <b>SW6020</b>		Prep: SW3050A / 9/23/13		Analyst: <b>ALR</b>
Arsenic	0.604		0.0819	0.410	mg/Kg	1	9/24/2013 00:29
Barium	42.9		0.0656	0.410	mg/Kg	1	9/24/2013 00:29
Cadmium		U	0.0410	0.410	mg/Kg	1	9/24/2013 00:29
Chromium	4.09		0.0737	0.410	mg/Kg	1	9/24/2013 00:29
Lead	5.27		0.0410	0.410	mg/Kg	1	9/24/2013 00:29
Selenium	0.369	J	0.147	0.410	mg/Kg	1	9/24/2013 00:29
Silver		U	0.0656	0.410	mg/Kg	1	9/24/2013 00:29
<b>VOLATILES - SW8260C</b>			Method: <b>SW8260</b>		Analyst: <b>WLR</b>		
Benzene		U	0.60	5.0	µg/Kg	1	9/23/2013 13:28
Ethylbenzene		U	0.90	5.0	µg/Kg	1	9/23/2013 13:28
m,p-Xylene		U	1.7	10	µg/Kg	1	9/23/2013 13:28
Methyl tert-butyl ether		U	1.9	5.0	µg/Kg	1	9/23/2013 13:28
o-Xylene		U	1.0	5.0	µg/Kg	1	9/23/2013 13:28
Toluene		U	0.70	5.0	µg/Kg	1	9/23/2013 13:28
Xylenes, Total		U	1.7	10	µg/Kg	1	9/23/2013 13:28
<i>Surr: 1,2-Dichloroethane-d4</i>	86.7			70-128	%REC	1	9/23/2013 13:28
<i>Surr: 4-Bromofluorobenzene</i>	98.7			73-126	%REC	1	9/23/2013 13:28
<i>Surr: Dibromofluoromethane</i>	106			71-128	%REC	1	9/23/2013 13:28
<i>Surr: Toluene-d8</i>	94.6			73-127	%REC	1	9/23/2013 13:28

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 27-Sep-13

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES  
**Sample ID:** B-8 (18-20)  
**Collection Date:** 9/20/2013 09:55 AM

**Work Order:** 1309926  
**Lab ID:** 1309926-09  
**Matrix:** SOIL

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>		Method: <b>TX1005</b>		Prep: TX1005PR / 9/23/13		Analyst: <b>RPM</b>	
nC6 to nC12	U		9.9	50	mg/Kg	1	9/24/2013 11:20
>nC12 to nC28	U		9.9	50	mg/Kg	1	9/24/2013 11:20
>nC28 to nC35	U		9.9	50	mg/Kg	1	9/24/2013 11:20
Total Petroleum Hydrocarbon	U		9.9	50	mg/Kg	1	9/24/2013 11:20
<i>Surr: 2-Fluorobiphenyl</i>	102			70-130	%REC	1	9/24/2013 11:20
<i>Surr: Trifluoromethyl benzene</i>	83.0			70-130	%REC	1	9/24/2013 11:20
<b>MERCURY - SW7471B</b>		Method: <b>SW7471A</b>		Prep: SW7471A / 9/24/13		Analyst: <b>OFO</b>	
Mercury	5.65		0.49	3.48	µg/Kg	1	9/24/2013 17:56
<b>METALS</b>		Method: <b>SW6020</b>		Prep: SW3050A / 9/23/13		Analyst: <b>ALR</b>	
Arsenic	2.12		0.0815	0.408	mg/Kg	1	9/24/2013 00:33
Barium	34.8		0.0652	0.408	mg/Kg	1	9/24/2013 00:33
Cadmium	U		0.0408	0.408	mg/Kg	1	9/24/2013 00:33
Chromium	8.51		0.0734	0.408	mg/Kg	1	9/24/2013 00:33
Lead	4.70		0.0408	0.408	mg/Kg	1	9/24/2013 00:33
Selenium	0.852		0.147	0.408	mg/Kg	1	9/24/2013 00:33
Silver	U		0.0652	0.408	mg/Kg	1	9/24/2013 00:33
<b>VOLATILES - SW8260C</b>		Method: <b>SW8260</b>				Analyst: <b>WLR</b>	
Benzene	U		0.60	5.0	µg/Kg	1	9/23/2013 13:47
Ethylbenzene	U		0.90	5.0	µg/Kg	1	9/23/2013 13:47
m,p-Xylene	U		1.7	10	µg/Kg	1	9/23/2013 13:47
Methyl tert-butyl ether	U		1.9	5.0	µg/Kg	1	9/23/2013 13:47
o-Xylene	U		1.0	5.0	µg/Kg	1	9/23/2013 13:47
Toluene	U		0.70	5.0	µg/Kg	1	9/23/2013 13:47
Xylenes, Total	U		1.7	10	µg/Kg	1	9/23/2013 13:47
<i>Surr: 1,2-Dichloroethane-d4</i>	88.4			70-128	%REC	1	9/23/2013 13:47
<i>Surr: 4-Bromofluorobenzene</i>	99.5			73-126	%REC	1	9/23/2013 13:47
<i>Surr: Dibromofluoromethane</i>	106			71-128	%REC	1	9/23/2013 13:47
<i>Surr: Toluene-d8</i>	97.9			73-127	%REC	1	9/23/2013 13:47

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 27-Sep-13

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES  
**Sample ID:** TRIP BLANK-090613-31  
**Collection Date:** 9/19/2013

**Work Order:** 1309926  
**Lab ID:** 1309926-10  
**Matrix:** WATER

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
<b>VOLATILES - SW8260C</b>			Method: <b>SW8260</b>			Analyst: <b>PC</b>	
Benzene	U		0.00050	0.0050	mg/L	1	9/26/2013 07:38
Ethylbenzene	U		0.00050	0.0050	mg/L	1	9/26/2013 07:38
m,p-Xylene	U		0.0010	0.010	mg/L	1	9/26/2013 07:38
Methyl tert-butyl ether	U		0.0010	0.0050	mg/L	1	9/26/2013 07:38
o-Xylene	U		0.00050	0.0050	mg/L	1	9/26/2013 07:38
Toluene	U		0.00050	0.0050	mg/L	1	9/26/2013 07:38
Xylenes, Total	U		0.0015	0.015	mg/L	1	9/26/2013 07:38
Surr: 1,2-Dichloroethane-d4		106		70-125	%REC	1	9/26/2013 07:38
Surr: 4-Bromofluorobenzene		97.3		72-125	%REC	1	9/26/2013 07:38
Surr: Dibromofluoromethane		104		71-125	%REC	1	9/26/2013 07:38
Surr: Toluene-d8		94.8		75-125	%REC	1	9/26/2013 07:38

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

Work Order: 1309926  
 Client: Kleinfelder  
 Project: COH-Montrose-Midtown Phase II ES

**DATES REPORT**

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<b><u>Batch ID 73266</u></b>		<b><u>Test Name: Metals</u></b>				
1309926-01C	B-1 (28-30)	Soil	9/19/2013 9:30:00 AM		9/23/2013 11:00 AM	9/23/2013 11:54 PM
1309926-02C	B-3 (24-26)		9/19/2013 11:20:00 AM		9/23/2013 11:00 AM	9/23/2013 11:59 PM
1309926-03C	B-4 (12-14)		9/19/2013 12:00:00 PM		9/23/2013 11:00 AM	9/24/2013 12:04 AM
1309926-04C	B-5 (30-32)		9/19/2013 1:15:00 PM		9/23/2013 11:00 AM	9/24/2013 12:19 AM
1309926-05C	B-6 (10-12)		9/19/2013 3:20:00 PM		9/23/2013 11:00 AM	9/24/2013 12:24 AM
1309926-08C	B-7 (16-18)		9/20/2013 8:30:00 AM		9/23/2013 11:00 AM	9/24/2013 12:29 AM
1309926-09C	B-8 (18-20)		9/20/2013 9:55:00 AM		9/23/2013 11:00 AM	9/24/2013 12:33 AM
<b><u>Batch ID 73278</u></b>		<b><u>Test Name: Texas TPH - TX1005</u></b>				
1309926-01B	B-1 (28-30)	Soil	9/19/2013 9:30:00 AM		9/23/2013 03:49 PM	9/24/2013 10:22 AM
1309926-02B	B-3 (24-26)		9/19/2013 11:20:00 AM		9/23/2013 03:49 PM	9/24/2013 10:51 AM
1309926-03B	B-4 (12-14)		9/19/2013 12:00:00 PM		9/23/2013 03:49 PM	9/24/2013 11:20 AM
1309926-04B	B-5 (30-32)		9/19/2013 1:15:00 PM		9/23/2013 03:49 PM	9/24/2013 11:50 AM
1309926-05B	B-6 (10-12)		9/19/2013 3:20:00 PM		9/23/2013 03:49 PM	9/24/2013 10:22 AM
1309926-08B	B-7 (16-18)		9/20/2013 8:30:00 AM		9/23/2013 03:49 PM	9/24/2013 10:51 AM
1309926-09B	B-8 (18-20)		9/20/2013 9:55:00 AM		9/23/2013 03:49 PM	9/24/2013 11:20 AM
<b><u>Batch ID 73304</u></b>		<b><u>Test Name: Mercury-SW7470A</u></b>				
1309926-06C	B-6	Water	9/20/2013 7:15:00 AM		9/24/2013 12:45 PM	9/24/2013 03:43 PM
1309926-07C	B-3		9/20/2013 7:40:00 AM		9/24/2013 12:45 PM	9/24/2013 03:45 PM

Work Order: 1309926  
 Client: Kleinfelder  
 Project: COH-Montrose-Midtown Phase II ES

**DATES REPORT**

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<b>Batch ID 73308</b>		<b>Test Name: Mercury - SW7471B</b>				
1309926-01C	B-1 (28-30)	Soil	9/19/2013 9:30:00 AM		9/24/2013 03:16 PM	9/24/2013 05:37 PM
1309926-02C	B-3 (24-26)		9/19/2013 11:20:00 AM		9/24/2013 03:16 PM	9/24/2013 05:44 PM
1309926-03C	B-4 (12-14)		9/19/2013 12:00:00 PM		9/24/2013 03:16 PM	9/24/2013 05:46 PM
1309926-04C	B-5 (30-32)		9/19/2013 1:15:00 PM		9/24/2013 03:16 PM	9/24/2013 05:47 PM
1309926-05C	B-6 (10-12)		9/19/2013 3:20:00 PM		9/24/2013 03:16 PM	9/24/2013 05:49 PM
1309926-08C	B-7 (16-18)		9/20/2013 8:30:00 AM		9/24/2013 03:16 PM	9/24/2013 05:54 PM
1309926-09C	B-8 (18-20)		9/20/2013 9:55:00 AM		9/24/2013 03:16 PM	9/24/2013 05:56 PM
<b>Batch ID 73313</b>		<b>Test Name: Metals</b>				
1309926-06C	B-6	Water	9/20/2013 7:15:00 AM		9/24/2013 01:00 PM	9/25/2013 12:59 PM
					9/24/2013 01:00 PM	9/25/2013 01:04 PM
1309926-07C	B-3		9/20/2013 7:40:00 AM		9/24/2013 01:00 PM	9/25/2013 01:02 PM
<b>Batch ID 73392</b>		<b>Test Name: Low-level Texas TPH - TX1005</b>				
1309926-06B	B-6	Water	9/20/2013 7:15:00 AM		9/26/2013 10:00 AM	9/26/2013 07:29 PM
1309926-07B	B-3		9/20/2013 7:40:00 AM		9/26/2013 10:00 AM	9/26/2013 08:01 PM
<b>Batch ID R154139</b>		<b>Test Name: Volatiles - SW8260C</b>				
1309926-01A	B-1 (28-30)	Soil	9/19/2013 9:30:00 AM			9/23/2013 12:13 PM
1309926-02A	B-3 (24-26)		9/19/2013 11:20:00 AM			9/23/2013 12:32 PM
1309926-03A	B-4 (12-14)		9/19/2013 12:00:00 PM			9/23/2013 12:51 PM
1309926-04A	B-5 (30-32)		9/19/2013 1:15:00 PM			9/23/2013 10:03 AM
1309926-05A	B-6 (10-12)		9/19/2013 3:20:00 PM			9/23/2013 01:10 PM
1309926-08A	B-7 (16-18)		9/20/2013 8:30:00 AM			9/23/2013 01:28 PM
1309926-09A	B-8 (18-20)		9/20/2013 9:55:00 AM			9/23/2013 01:47 PM

Work Order: 1309926  
 Client: Kleinfelder  
 Project: COH-Montrose-Midtown Phase II ES

**DATES REPORT**

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<b><u>Batch ID R154182</u>    <u>Test Name: Volatiles - SW8260C</u></b>						
1309926-04A	B-5 (30-32)	Soil	9/19/2013 1:15:00 PM			9/24/2013 09:10 AM
						9/24/2013 10:25 AM
<b><u>Batch ID R154325</u>    <u>Test Name: Volatiles - SW8260C</u></b>						
1309926-06A	B-6	Water	9/20/2013 7:15:00 AM			9/26/2013 06:46 AM
1309926-07A	B-3		9/20/2013 7:40:00 AM			9/26/2013 07:12 AM
1309926-10A	TRIP BLANK-090613-31		9/19/2013			9/26/2013 07:38 AM

**WorkOrder:** 1309926  
**InstrumentID:** FID-10  
**Test Code:** TX1005\_S\_REV3  
**Test Number:** TX1005  
**Test Name:** Texas TPH - TX1005

**METHOD DETECTION /  
REPORTING LIMITS**

**Matrix:** Solid      **Units:** mg/Kg

Type	Analyte	CAS	DCS Spike	DCS	MDL	Unadjusted MQL
A	>nC12 to nC28	TPHDRO	25	30	10	50
A	>nC28 to nC35	10W40MOTO ROIL	25	30	10	50
A	nC6 to nC12	TPHGRO	25	22	10	50
M	Total Petroleum Hydrocarbon	TPH	50	52	10	50
S	Surr: 2-Fluorobiphenyl	321-60-8	0	0	0	0
S	Surr: Trifluoromethyl benzene	98-08-8	0	0	0	0

**WorkOrder:** 1309926  
**InstrumentID:** FID-11  
**Test Code:** TX1005\_S\_REV3  
**Test Number:** TX1005  
**Test Name:** Texas TPH - TX1005

**METHOD DETECTION /  
REPORTING LIMITS**

**Matrix:** Solid      **Units:** mg/Kg

Type	Analyte	CAS	DCS Spike	DCS	MDL	Unadjusted MQL
A	>nC12 to nC28	TPHDRO	25	29	10	50
A	>nC28 to nC35	10W40MOTO ROIL	25	29	10	50
A	nC6 to nC12	TPHGRO	25	27	10	50
M	Total Petroleum Hydrocarbon	TPH	50	55	10	50
S	Surr: 2-Fluorobiphenyl	321-60-8	0	0	0	0
S	Surr: Trifluoromethyl benzene	98-08-8	0	0	0	0

**WorkOrder:** 1309926  
**InstrumentID:** FID-13  
**Test Code:** TX1005\_W\_Low  
**Test Number:** TX1005  
**Test Name:** Low-level Texas TPH - TX1005

**METHOD DETECTION /  
REPORTING LIMITS**

**Matrix:** Aqueous      **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	Unadjusted MQL
A	>nC12 to nC28	TPHDRO	0.25	0.27	0.20	0.50
A	>nC28 to nC35	10W40MOTO ROIL	0.25	0.27	0.20	0.50
A	nC6 to nC12	TPHGRO	0.25	0.27	0.20	0.50
M	Total Petroleum Hydrocarbon	TPH	0.50	0.55	0.20	0.50
S	Surr: 2-Fluorobiphenyl	321-60-8	0	0	0	0
S	Surr: Trifluoromethyl benzene	98-08-8	0	0	0	0

WorkOrder: 1309926  
InstrumentID: HG03  
Test Code: HG\_S\_LOW  
Test Number: SW7471A  
Test Name: Mercury - SW7471B

**METHOD DETECTION /  
REPORTING LIMITS**

Matrix: Solid                      Units: µg/Kg

Type	Analyte	CAS	DCS Spike	DCS	MDL	Unadjusted MQL
A	Mercury	7439-97-6	1.7	1.4	0.47	3.3

**WorkOrder:** 1309926  
**InstrumentID:** HG03  
**Test Code:** HG\_W  
**Test Number:** SW7470  
**Test Name:** Mercury-SW7470A

**METHOD DETECTION /  
REPORTING LIMITS**

**Matrix:** Aqueous      **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	Unadjusted MQL
A	Mercury	7439-97-6	0.00010	0.000094	0.000040	0.00020

**WorkOrder:** 1309926  
**InstrumentID:** ICP7500  
**Test Code:** ICP\_S\_Low  
**Test Number:** SW6020  
**Test Name:** Metals

**METHOD DETECTION /  
 REPORTING LIMITS**

**Matrix:** Solid

**Units:** mg/Kg

Type	Analyte	CAS	DCS Spike	DCS	MDL	Unadjusted MQL
A	Arsenic	7440-38-2	5.00	0.571	0.100	0.500
A	Barium	7440-39-3	0.250	0.288	0.0800	0.500
A	Cadmium	7440-43-9	0.250	0.237	0.0500	0.500
A	Chromium	7440-47-3	5.00	0.563	0.0900	0.500
A	Lead	7439-92-1	2.50	0.247	0.0500	0.500
A	Selenium	7782-49-2	2.50	0.211	0.180	0.500
A	Silver	7440-22-4	2.50	0.200	0.0800	0.500

**WorkOrder:** 1309926  
**InstrumentID:** ICPMS05  
**Test Code:** ICP\_TW  
**Test Number:** SW6020  
**Test Name:** Metals

**METHOD DETECTION /  
 REPORTING LIMITS**

**Matrix:** Aqueous      **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	Unadjusted MQL
A	Arsenic	7440-38-2	0.0012	0.0010	0.0010	0.0050
A	Barium	7440-39-3	0.0012	0.0020	0.00090	0.0050
A	Cadmium	7440-43-9	0.0012	0.00097	0.00080	0.0020
A	Chromium	7440-47-3	0.0012	0.0011	0.0010	0.0050
A	Lead	7439-92-1	0.0012	0.0010	0.00070	0.0050
A	Selenium	7782-49-2	1.1	0.0010	0.0010	0.0050
A	Silver	7440-22-4	0.0012	0.0012	0.00080	0.0050

**WorkOrder:** 1309926  
**InstrumentID:** VOA3  
**Test Code:** 8260\_S  
**Test Number:** SW8260  
**Test Name:** Volatiles - SW8260C

**METHOD DETECTION /  
 REPORTING LIMITS**

**Matrix:** Solid

**Units:** µg/Kg

Type	Analyte	CAS	DCS Spike	DCS	MDL	Unadjusted MQL
A	Benzene	71-43-2	1.2	1.0	0.60	5.0
A	Ethylbenzene	100-41-4	2.5	2.0	0.90	5.0
A	m,p-Xylene	179601-23-1	2.5	2.3	1.7	10
A	Methyl tert-butyl ether	1634-04-4	2.5	2.2	1.9	5.0
A	o-Xylene	95-47-6	2.5	2.3	1.0	5.0
A	Toluene	108-88-3	1.2	1.1	0.70	5.0
M	Xylenes, Total	1330-20-7	7.5	6.4	1.7	10
S	Surr: 1,2-Dichloroethane-d4	17060-07-0	0	0	0	0
S	Surr: 4-Bromofluorobenzene	460-00-4	0	0	0	0
S	Surr: Dibromofluoromethane	1868-53-7	0	0	0	0
S	Surr: Toluene-d8	2037-26-5	0	0	0	0

WorkOrder: 1309926  
 InstrumentID: VOA6  
 Test Code: 8260\_W  
 Test Number: SW8260  
 Test Name: Volatiles - SW8260C

**METHOD DETECTION /  
 REPORTING LIMITS**

Matrix: Aqueous Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	Unadjusted MQL
A	Benzene	71-43-2	0.0010	0.0010	0.00050	0.0050
A	Ethylbenzene	100-41-4	0.0010	0.0010	0.00050	0.0050
A	m,p-Xylene	179601-23-1	0.0020	0.0020	0.0010	0.010
A	Methyl tert-butyl ether	1634-04-4	0.0010	0.0012	0.0010	0.0050
A	o-Xylene	95-47-6	0.0010	0.0011	0.00050	0.0050
A	Toluene	108-88-3	0.0010	0.0010	0.00050	0.0050
M	Xylenes, Total	1330-20-7	0.0030	0.0031	0.0015	0.015
S	Surr: 1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0050
S	Surr: 4-Bromofluorobenzene	460-00-4	0	0	0	0.0050
S	Surr: Dibromofluoromethane	1868-53-7	0	0	0	0.0050
S	Surr: Toluene-d8	2037-26-5	0	0	0	0.0050

Client: Kleinfelder  
 Work Order: 1309926  
 Project: COH-Montrose-Midtown Phase II ES

**QC BATCH REPORT**

Batch ID: **73278** Instrument ID **FID-10** Method: **TX1005**

MBLK		Sample ID: <b>FBLKS2-130923-73278</b>			Units: <b>mg/Kg</b>			Analysis Date: <b>9/24/2013 08:54 AM</b>		
Client ID:		Run ID: <b>FID-10_130923A</b>			SeqNo: <b>3366686</b>			Prep Date: <b>9/23/2013</b>		DF: <b>1</b>
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	U	50								
>nC12 to nC28	U	50								
>nC28 to nC35	U	50								
Total Petroleum Hydrocarbon	U	50								
<i>Surr: 2-Fluorobiphenyl</i>	21.15	0	25	0	84.6	70-130	0			
<i>Surr: Trifluoromethyl benzene</i>	19.97	0	25	0	79.9	70-130	0			

LCS		Sample ID: <b>FLCSS2-130923-73278</b>			Units: <b>mg/Kg</b>			Analysis Date: <b>9/24/2013 09:23 AM</b>		
Client ID:		Run ID: <b>FID-10_130923A</b>			SeqNo: <b>3366687</b>			Prep Date: <b>9/23/2013</b>		DF: <b>1</b>
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	247.6	50	250	0	99.1	75-125				
>nC12 to nC28	253.1	50	250	0	101	75-125				
<i>Surr: 2-Fluorobiphenyl</i>	27.7	0	25	0	111	70-130	0			
<i>Surr: Trifluoromethyl benzene</i>	22.79	0	25	0	91.2	70-130	0			

LCSD		Sample ID: <b>FLCSDS2-130923-73278</b>			Units: <b>mg/Kg</b>			Analysis Date: <b>9/24/2013 09:53 AM</b>		
Client ID:		Run ID: <b>FID-10_130923A</b>			SeqNo: <b>3366688</b>			Prep Date: <b>9/23/2013</b>		DF: <b>1</b>
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	203.1	50	250	0	81.2	75-125	247.6	19.8	20	
>nC12 to nC28	203.8	50	250	0	81.5	75-125	253.1	21.6	20	R
<i>Surr: 2-Fluorobiphenyl</i>	21.93	0	25	0	87.7	70-130	27.7	23.2	20	R
<i>Surr: Trifluoromethyl benzene</i>	19.02	0	25	0	76.1	70-130	22.79	18	20	

MS		Sample ID: <b>1309988-01AMS</b>			Units: <b>mg/Kg</b>			Analysis Date: <b>9/24/2013 09:23 AM</b>		
Client ID:		Run ID: <b>FID-10_130923A</b>			SeqNo: <b>3366712</b>			Prep Date: <b>9/23/2013</b>		DF: <b>1</b>
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	274.3	50	249	0	110	75-125				
>nC12 to nC28	357.8	50	249	104.7	102	75-125				
<i>Surr: 2-Fluorobiphenyl</i>	23.79	0	24.9	0	95.5	70-130	0			
<i>Surr: Trifluoromethyl benzene</i>	19.22	0	24.9	0	77.2	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 1309926  
**Project:** COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **73278**      Instrument ID **FID-10**      Method: **TX1005**

MSD		Sample ID: <b>1309988-01AMSD</b>			Units: <b>mg/Kg</b>			Analysis Date: <b>9/24/2013 09:53 AM</b>		
Client ID:		Run ID: <b>FID-10_130923A</b>			SeqNo: <b>3366713</b>		Prep Date: <b>9/23/2013</b>		DF: <b>1</b>	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	300.1	50	250	0	120	75-125	274.3	8.99	20	
>nC12 to nC28	386.3	50	250	104.7	113	75-125	357.8	7.67	20	
<i>Surr: 2-Fluorobiphenyl</i>	27.15	0	25	0	109	70-130	23.79	13.2	20	
<i>Surr: Trifluoromethyl benzene</i>	20.26	0	25	0	81.1	70-130	19.22	5.31	20	

The following samples were analyzed in this batch:

1309926-01B	1309926-02B	1309926-03B
1309926-04B	1309926-05B	1309926-08B
1309926-09B		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1309926  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: 73392 Instrument ID FID-12 Method: TX1005

MBLK		Sample ID: FBLKW1-130926-73392			Units: mg/L			Analysis Date: 9/27/2013 12:15 AM		
Client ID:		Run ID: FID-12_130926C			SeqNo: 3372037			Prep Date: 9/26/2013		DF: 1
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	U	0.50								
>nC12 to nC28	U	0.50								
>nC28 to nC35	U	0.50								
Total Petroleum Hydrocarbon	U	0.50								
Surr: 2-Fluorobiphenyl	2.467	0	2.5	0	98.7	70-130	0			
Surr: Trifluoromethyl benzene	2.203	0	2.5	0	88.1	70-130	0			

LCS		Sample ID: FLCSW1-130926-73392			Units: mg/L			Analysis Date: 9/27/2013 12:46 AM		
Client ID:		Run ID: FID-12_130926C			SeqNo: 3372038			Prep Date: 9/26/2013		DF: 1
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	23.89	0.50	25	0	95.6	75-125				
>nC12 to nC28	21.28	0.50	25	0	85.1	75-125				
Surr: 2-Fluorobiphenyl	2.737	0	2.5	0	109	70-130	0			
Surr: Trifluoromethyl benzene	1.991	0	2.5	0	79.6	70-130	0			

LCSD		Sample ID: FLCSDW1-130926-73392			Units: mg/L			Analysis Date: 9/27/2013 01:18 AM		
Client ID:		Run ID: FID-12_130926C			SeqNo: 3372039			Prep Date: 9/26/2013		DF: 1
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	24.62	0.50	25	0	98.5	75-125	23.89	3.01	20	
>nC12 to nC28	21.92	0.50	25	0	87.7	75-125	21.28	2.97	20	
Surr: 2-Fluorobiphenyl	2.776	0	2.5	0	111	70-130	2.737	1.43	20	
Surr: Trifluoromethyl benzene	2.042	0	2.5	0	81.7	70-130	1.991	2.53	20	

MS		Sample ID: 1309899-01BMS			Units: mg/L			Analysis Date: 9/27/2013 03:57 AM		
Client ID:		Run ID: FID-12_130926C			SeqNo: 3372041			Prep Date: 9/26/2013		DF: 1
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	22.39	0.47	23.73	0	94.3	75-125				
>nC12 to nC28	22.12	0.47	23.73	0	93.2	75-125				
Surr: 2-Fluorobiphenyl	2.432	0	2.373	0	102	70-130	0			
Surr: Trifluoromethyl benzene	1.779	0	2.373	0	75	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1309926  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: 73392 Instrument ID FID-12 Method: TX1005

MSD		Sample ID: 1309899-01BMSD			Units: mg/L		Analysis Date: 9/27/2013 04:29 AM			
Client ID:		Run ID: FID-12_130926C			SeqNo: 3372042		Prep Date: 9/26/2013		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	20.36	0.48	24.24	0	84	75-125	22.39	9.52	20	
>nC12 to nC28	19.23	0.48	24.24	0	79.3	75-125	22.12	14	20	
<i>Surr: 2-Fluorobiphenyl</i>	2.23	0	2.424	0	92	70-130	2.432	8.65	20	
<i>Surr: Trifluoromethyl benzene</i>	1.7	0	2.424	0	70.1	70-130	1.779	4.53	20	

The following samples were analyzed in this batch: 1309926-06B 1309926-07B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1309926  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: 73266 Instrument ID ICP7500 Method: SW6020

MBLK		Sample ID: MBLKS1-092313-73266			Units: mg/Kg		Analysis Date: 9/23/2013 10:12 PM			
Client ID:		Run ID: ICP7500_130923A			SeqNo: 3366449		Prep Date: 9/23/2013		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.500								
Barium	U	0.500								
Cadmium	U	0.500								
Chromium	U	0.500								
Lead	U	0.500								
Selenium	U	0.500								
Silver	U	0.500								

LCS		Sample ID: MLCSS1-092313-73266			Units: mg/Kg		Analysis Date: 9/23/2013 10:17 PM			
Client ID:		Run ID: ICP7500_130923A			SeqNo: 3366450		Prep Date: 9/23/2013		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.302	0.500	10	0	93	80-120				
Barium	10.46	0.500	10	0	105	80-120				
Cadmium	10.31	0.500	10	0	103	80-120				
Chromium	9.569	0.500	10	0	95.7	80-120				
Lead	10.48	0.500	10	0	105	80-120				
Selenium	9.701	0.500	10	0	97	80-120				
Silver	10.43	0.500	10	0	104	80-120				

MS		Sample ID: 1309449-03CMS			Units: mg/Kg		Analysis Date: 9/23/2013 10:37 PM			
Client ID:		Run ID: ICP7500_130923A			SeqNo: 3366454		Prep Date: 9/23/2013		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.84	0.464	9.286	3.531	78.7	75-125				
Barium	94.16	0.464	9.286	109.9	-170	75-125				SO
Cadmium	8.213	0.464	9.286	0.1772	86.5	75-125				
Chromium	20.6	0.464	9.286	11.01	103	75-125				
Lead	17.92	0.464	9.286	8.542	101	75-125				
Selenium	6.855	0.464	9.286	0.8278	64.9	75-125				S
Silver	7.887	0.464	9.286	0.01376	84.8	75-125				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1309926  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: 73266 Instrument ID ICP7500 Method: SW6020

MSD		Sample ID: 1309449-03CMSD			Units: mg/Kg		Analysis Date: 9/23/2013 10:42 PM			
Client ID:		Run ID: ICP7500_130923A			SeqNo: 3366455		Prep Date: 9/23/2013		DF: 1	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.65	0.486	9.713	3.531	83.5	75-125	10.84	7.2	25	
Barium	104.9	0.486	9.713	109.9	-51.8	75-125	94.16	10.8	25	SO
Cadmium	8.452	0.486	9.713	0.1772	85.2	75-125	8.213	2.86	25	
Chromium	20.34	0.486	9.713	11.01	96	75-125	20.6	1.25	25	
Lead	18.76	0.486	9.713	8.542	105	75-125	17.92	4.55	25	
Selenium	7.57	0.486	9.713	0.8278	69.4	75-125	6.855	9.91	25	S
Silver	8.304	0.486	9.713	0.01376	85.3	75-125	7.887	5.15	25	

DUP		Sample ID: 1309449-03CDUP			Units: mg/Kg		Analysis Date: 9/23/2013 10:27 PM			
Client ID:		Run ID: ICP7500_130923A			SeqNo: 3366452		Prep Date: 9/23/2013		DF: 1	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	3.692	0.490					3.531	4.44	25	
Barium	68.81	0.490					109.9	46	25	R
Cadmium	0.182	0.490					0.1772	0	25	J
Chromium	11.94	0.490					11.01	8.06	25	
Lead	8.609	0.490					8.542	0.781	25	
Selenium	0.8829	0.490					0.8278	6.44	25	
Silver	U	0.490					0.01376	0	25	

PDS		Sample ID: 1309449-03CBS			Units: mg/Kg		Analysis Date: 9/23/2013 10:47 PM			
Client ID:		Run ID: ICP7500_130923A			SeqNo: 3366456		Prep Date:		DF: 1	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.91	0.456	9.116	3.531	91.9	75-125				
Barium	115.3	0.456	9.116	109.9	59	75-125				SO
Cadmium	9.462	0.456	9.116	0.1772	102	75-125				
Chromium	19.16	0.456	9.116	11.01	89.4	75-125				
Lead	17.36	0.456	9.116	8.542	96.7	75-125				
Selenium	9.253	0.456	9.116	0.8278	92.4	75-125				
Silver	9.106	0.456	9.116	0.01376	99.7	75-125				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 1309926  
**Project:** COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **73266**      Instrument ID **ICP7500**      Method: **SW6020**

SD		Sample ID: <b>1309449-03C DIL SX</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>9/23/2013 10:32 PM</b>			
Client ID:		Run ID: <b>ICP7500_130923A</b>			SeqNo: <b>3366453</b>		Prep Date:		DF: <b>5</b>	
Analyte	Result	MLL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Arsenic	3.811	2.28					3.531	7.91	10	
Barium	107.7	2.28					109.9	1.99	10	
Cadmium	U	2.28					0.1772	0	10	
Chromium	11.75	2.28					11.01	6.71	10	
Lead	9.02	2.28					8.542	5.59	10	
Selenium	0.9904	2.28					0.8278	0	10	J
Silver	U	2.28					0.01376	0	10	

The following samples were analyzed in this batch:

1309926-01C	1309926-02C	1309926-03C
1309926-04C	1309926-05C	1309926-08C
1309926-09C		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1309926  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **73304** Instrument ID **HG03** Method: **SW7470**

MBLK	Sample ID: <b>GBLKW5-092413-73304</b>			Units: <b>mg/L</b>			Analysis Date: <b>9/24/2013 02:55 PM</b>			
Client ID:	Run ID: <b>HG03_130923B</b>			SeqNo: <b>3367315</b>			Prep Date: <b>9/24/2013</b>		DF: <b>1</b>	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.000200								

LCS	Sample ID: <b>GLCSW5-092413-73304</b>			Units: <b>mg/L</b>			Analysis Date: <b>9/24/2013 02:57 PM</b>			
Client ID:	Run ID: <b>HG03_130923B</b>			SeqNo: <b>3367316</b>			Prep Date: <b>9/24/2013</b>		DF: <b>1</b>	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00526	0.000200	0.005	0	105	85-115				

MS	Sample ID: <b>1309917-01EMS</b>			Units: <b>mg/L</b>			Analysis Date: <b>9/24/2013 03:04 PM</b>			
Client ID:	Run ID: <b>HG03_130923B</b>			SeqNo: <b>3367319</b>			Prep Date: <b>9/24/2013</b>		DF: <b>1</b>	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0052	0.000200	0.005	-0.000045	105	85-115				

MSD	Sample ID: <b>1309917-01EMSD</b>			Units: <b>mg/L</b>			Analysis Date: <b>9/24/2013 03:05 PM</b>			
Client ID:	Run ID: <b>HG03_130923B</b>			SeqNo: <b>3367320</b>			Prep Date: <b>9/24/2013</b>		DF: <b>1</b>	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00528	0.000200	0.005	-0.000045	106	85-115	0.0052	1.53	20	

DUP	Sample ID: <b>1309917-01EDUP</b>			Units: <b>mg/L</b>			Analysis Date: <b>9/24/2013 03:00 PM</b>			
Client ID:	Run ID: <b>HG03_130923B</b>			SeqNo: <b>3367318</b>			Prep Date: <b>9/24/2013</b>		DF: <b>1</b>	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.000200					-0.000045	0	20	

The following samples were analyzed in this batch: 1309926-06C 1309926-07C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1309926  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: 73308 Instrument ID HG03 Method: SW7471A

MBLK	Sample ID: GBLKS2-092413-73308	Units: µg/Kg					Analysis Date: 9/24/2013 05:34 PM			
Client ID:	Run ID: HG03_130923A	SeqNo: 3367450			Prep Date: 9/24/2013		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	3.32								

LCS	Sample ID: GLCSS2-092413-73308	Units: µg/Kg					Analysis Date: 9/24/2013 05:35 PM			
Client ID:	Run ID: HG03_130923A	SeqNo: 3367451			Prep Date: 9/24/2013		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	362	3.32	333.3	0	109	85-115				

MS	Sample ID: 1309926-01CMS	Units: µg/Kg					Analysis Date: 9/24/2013 05:40 PM			
Client ID: B-1 (28-30)	Run ID: HG03_130923A	SeqNo: 3367454			Prep Date: 9/24/2013		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	336.8	3.47	347.9	0.838	96.6	85-115				

MSD	Sample ID: 1309926-01CMSD	Units: µg/Kg					Analysis Date: 9/24/2013 05:42 PM			
Client ID: B-1 (28-30)	Run ID: HG03_130923A	SeqNo: 3367455			Prep Date: 9/24/2013		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	328.9	3.47	347.6	0.838	94.4	85-115	336.8	2.39	20	

DUP	Sample ID: 1309926-01CDUP	Units: µg/Kg					Analysis Date: 9/24/2013 05:39 PM			
Client ID: B-1 (28-30)	Run ID: HG03_130923A	SeqNo: 3367453			Prep Date: 9/24/2013		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.7667	3.48					0.838	0	20	J

The following samples were analyzed in this batch:

1309926-01C	1309926-02C	1309926-03C
1309926-04C	1309926-05C	1309926-08C
1309926-09C		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1309926  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: 73313 Instrument ID ICPMS05 Method: SW6020

MBLK		Sample ID: MBLKW5-092413-73313			Units: mg/L		Analysis Date: 9/25/2013 11:57 AM			
Client ID:		Run ID: ICPMS05_130925A			SeqNo: 3368681		Prep Date: 9/24/2013		DF: 1	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.00500								
Barium	U	0.00500								
Cadmium	U	0.00200								
Chromium	U	0.00500								
Lead	U	0.00500								
Selenium	U	0.00500								
Silver	U	0.00500								

LCS		Sample ID: MLCSW5-092413-73313			Units: mg/L		Analysis Date: 9/25/2013 11:59 AM			
Client ID:		Run ID: ICPMS05_130925A			SeqNo: 3368682		Prep Date: 9/24/2013		DF: 1	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.05305	0.00500	0.05	0	106	80-120				
Barium	0.05393	0.00500	0.05	0	108	80-120				
Cadmium	0.05164	0.00200	0.05	0	103	80-120				
Chromium	0.05332	0.00500	0.05	0	107	80-120				
Lead	0.0506	0.00500	0.05	0	101	80-120				
Selenium	0.05416	0.00500	0.05	0	108	80-120				
Silver	0.05218	0.00500	0.05	0	104	80-120				

MS		Sample ID: 1309917-01EMS			Units: mg/L		Analysis Date: 9/25/2013 12:30 PM			
Client ID:		Run ID: ICPMS05_130925A			SeqNo: 3368695		Prep Date: 9/24/2013		DF: 5	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.05516	0.0250	0.05	0.002228	106	80-120				
Barium	0.1852	0.0250	0.05	0.1427	85	80-120				
Cadmium	0.0499	0.0100	0.05	0.000081	99.6	80-120				
Chromium	0.05017	0.0250	0.05	0.00008	100	80-120				
Lead	0.05239	0.0250	0.05	0.004621	95.5	80-120				
Selenium	0.04514	0.0250	0.05	-0.00007	90.4	80-120				
Silver	0.04515	0.0250	0.05	0.000132	90	80-120				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1309926  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: 73313 Instrument ID ICPMS05 Method: SW6020

MSD		Sample ID: 1309917-01EMSD			Units: mg/L		Analysis Date: 9/25/2013 12:33 PM			
Client ID:		Run ID: ICPMS05_130925A			SeqNo: 3368696		Prep Date: 9/24/2013		DF: 5	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.05641	0.0250	0.05	0.002228	108	80-120	0.05516	2.24	15	
Barium	0.2043	0.0250	0.05	0.1427	123	80-120	0.1852	9.79	15	S
Cadmium	0.0502	0.0100	0.05	0.000081	100	80-120	0.0499	0.595	15	
Chromium	0.05205	0.0250	0.05	0.00008	104	80-120	0.05017	3.66	15	
Lead	0.05448	0.0250	0.05	0.004621	99.7	80-120	0.05239	3.91	15	
Selenium	0.04929	0.0250	0.05	-0.00007	98.7	80-120	0.04514	8.77	15	
Silver	0.04723	0.0250	0.05	0.000132	94.2	80-120	0.04515	4.49	15	

DUP		Sample ID: 1309917-01EDUP			Units: mg/L		Analysis Date: 9/25/2013 12:28 PM			
Client ID:		Run ID: ICPMS05_130925A			SeqNo: 3368694		Prep Date: 9/24/2013		DF: 5	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.0250					0.002228	0	25	
Barium	0.1403	0.0250					0.1427	1.73	25	
Cadmium	U	0.0100					0.000081	0	25	
Chromium	U	0.0250					0.00008	0	25	
Lead	0.003672	0.0250					0.004621	0	25	J
Selenium	U	0.0250					-0.00007	0	25	
Silver	U	0.0250					0.000132	0	25	

PDS		Sample ID: 1309917-01EBS			Units: mg/L		Analysis Date: 9/25/2013 12:35 PM			
Client ID:		Run ID: ICPMS05_130925A			SeqNo: 3368697		Prep Date:		DF: 5	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.5178	0.0250	0.5	0.002228	103	75-125				
Barium	0.6298	0.0250	0.5	0.1427	97.4	75-125				
Cadmium	0.4963	0.0100	0.5	0.000081	99.2	75-125				
Chromium	0.5076	0.0250	0.5	0.00008	101	75-125				
Lead	0.4956	0.0250	0.5	0.004621	98.2	75-125				
Selenium	0.5062	0.0250	0.5	-0.00007	101	75-125				
Silver	0.4378	0.0250	0.5	0.000132	87.5	75-125				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 1309926  
**Project:** COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **73313**      Instrument ID **ICPMS05**      Method: **SW6020**

SD		Sample ID: <b>1309917-01E DIL SX</b>				Units: <b>mg/L</b>		Analysis Date: <b>9/25/2013 12:42 PM</b>			
Client ID:		Run ID: <b>ICPMS05_130925A</b>				SeqNo: <b>3368700</b>		Prep Date:		DF: <b>25</b>	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual	
Arsenic	U	0.125					0.002228	0	10		
Barium	0.1527	0.125					0.1427	7	10		
Cadmium	U	0.0500					0.000081	0	10		
Chromium	U	0.125					0.00008	0	10		
Lead	0.01417	0.125					0.004621	0	10	J	
Selenium	U	0.125					-0.00007	0	10		
Silver	U	0.125					0.000132	0	10		

The following samples were analyzed in this batch:
 

1309926-06C	1309926-07C
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1309926  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R154139** Instrument ID **VOA3** Method: **SW8260**

MBLK		Sample ID: <b>VBLKS1-092313-R154139</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>9/23/2013 08:31 AM</b>		
Client ID:		Run ID: <b>VOA3_130923A</b>			SeqNo: <b>3365498</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
m,p-Xylene	U	10								
Methyl tert-butyl ether	U	5.0								
o-Xylene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	10								
<i>Surr: 1,2-Dichloroethane-d4</i>	44.43	0	50	0	88.9	70-128		0		
<i>Surr: 4-Bromofluorobenzene</i>	50.8	0	50	0	102	73-126		0		
<i>Surr: Dibromofluoromethane</i>	54.52	0	50	0	109	71-128		0		
<i>Surr: Toluene-d8</i>	50.92	0	50	0	102	73-127		0		

LCS		Sample ID: <b>VLCSS1-092313-R154139</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>9/23/2013 07:54 AM</b>		
Client ID:		Run ID: <b>VOA3_130923A</b>			SeqNo: <b>3365497</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	45.39	5.0	50	0	90.8	79-120				
Ethylbenzene	46.66	5.0	50	0	93.3	80-122				
m,p-Xylene	91.18	10	100	0	91.2	79-122				
Methyl tert-butyl ether	48.97	5.0	50	0	97.9	76-121				
o-Xylene	46.48	5.0	50	0	93	80-123				
Toluene	46.21	5.0	50	0	92.4	79-120				
Xylenes, Total	137.7	10	150	0	91.8	80-120				
<i>Surr: 1,2-Dichloroethane-d4</i>	46.14	0	50	0	92.3	70-128		0		
<i>Surr: 4-Bromofluorobenzene</i>	50.29	0	50	0	101	73-126		0		
<i>Surr: Dibromofluoromethane</i>	56.94	0	50	0	114	71-128		0		
<i>Surr: Toluene-d8</i>	49.67	0	50	0	99.3	73-127		0		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1309926  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: R154139 Instrument ID VOA3 Method: SW8260

MS		Sample ID: 1309566-11AMS			Units: µg/Kg			Analysis Date: 9/23/2013 10:21 AM		
Client ID:		Run ID: VOA3_130923A			SeqNo: 3365504		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	55.8	5.0	50	0	112	79-120				
Ethylbenzene	58.9	5.0	50	0	118	80-122				
m,p-Xylene	119.8	10	100	0	120	79-122				
Methyl tert-butyl ether	57.5	5.0	50	0	115	76-121				
o-Xylene	56.21	5.0	50	0	112	80-123				
Toluene	56.92	5.0	50	0	114	79-120				
Xylenes, Total	176	10	150	0	117	80-120				
Surr: 1,2-Dichloroethane-d4	47.38	0	50	0	94.8	70-128	0			
Surr: 4-Bromofluorobenzene	52.88	0	50	0	106	73-126	0			
Surr: Dibromofluoromethane	55.83	0	50	0	112	71-128	0			
Surr: Toluene-d8	50.46	0	50	0	101	73-127	0			

MSD		Sample ID: 1309566-11AMSD			Units: µg/Kg			Analysis Date: 9/23/2013 10:40 AM		
Client ID:		Run ID: VOA3_130923A			SeqNo: 3365505		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.83	5.0	50	0	97.7	79-120	55.8	13.3	30	
Ethylbenzene	48.94	5.0	50	0	97.9	80-122	58.9	18.5	30	
m,p-Xylene	99.79	10	100	0	99.8	79-122	119.8	18.2	30	
Methyl tert-butyl ether	47.38	5.0	50	0	94.8	76-121	57.5	19.3	30	
o-Xylene	48.48	5.0	50	0	97	80-123	56.21	14.8	30	
Toluene	48.94	5.0	50	0	97.9	79-120	56.92	15.1	30	
Xylenes, Total	148.3	10	150	0	98.8	79-123	176	17.1	30	
Surr: 1,2-Dichloroethane-d4	46.11	0	50	0	92.2	70-128	47.38	2.72	30	
Surr: 4-Bromofluorobenzene	52.72	0	50	0	105	73-126	52.88	0.288	30	
Surr: Dibromofluoromethane	54.26	0	50	0	109	71-128	55.83	2.84	30	
Surr: Toluene-d8	48.65	0	50	0	97.3	73-127	50.46	3.65	30	

The following samples were analyzed in this batch:

1309926-01A	1309926-02A	1309926-03A
1309926-04A	1309926-05A	1309926-08A
1309926-09A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1309926  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R154182** Instrument ID **VOA3** Method: **SW8260**

MBLK		Sample ID: <b>VBLKM1-092413-R154182</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>9/24/2013 08:33 AM</b>		
Client ID:		Run ID: <b>VOA3_130924A</b>			SeqNo: <b>3366511</b>			Prep Date:		DF: <b>50</b>
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	250								
Ethylbenzene	U	250								
m,p-Xylene	U	500								
o-Xylene	U	250								
Xylenes, Total	U	500								
<i>Surr: 1,2-Dichloroethane-d4</i>	2570	0	2500	0	103	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	2591	0	2500	0	104	73-126	0			
<i>Surr: Dibromofluoromethane</i>	2646	0	2500	0	106	71-128	0			
<i>Surr: Toluene-d8</i>	2462	0	2500	0	98.5	73-127	0			

LCS		Sample ID: <b>VLCSW1-092413-R154182</b>			Units: <b>µg/L</b>			Analysis Date: <b>9/24/2013 07:56 AM</b>		
Client ID:		Run ID: <b>VOA3_130924A</b>			SeqNo: <b>3366510</b>			Prep Date:		DF: <b>1</b>
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.77	5.0	50	0	102	73-121				
Ethylbenzene	51.25	5.0	50	0	102	80-120				
m,p-Xylene	103.8	10	100	0	104	78-121				
o-Xylene	50.45	5.0	50	0	101	80-120				
Xylenes, Total	154.2	15	150	0	103	80-120				
<i>Surr: 1,2-Dichloroethane-d4</i>	47.35	5.0	50	0	94.7	70-125	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.69	5.0	50	0	97.4	72-125	0			
<i>Surr: Dibromofluoromethane</i>	50.66	5.0	50	0	101	71-125	0			
<i>Surr: Toluene-d8</i>	52.85	5.0	50	0	106	75-125	0			

MS		Sample ID: <b>1309890-07AMS</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>9/24/2013 10:44 AM</b>		
Client ID:		Run ID: <b>VOA3_130924A</b>			SeqNo: <b>3366908</b>			Prep Date:		DF: <b>50</b>
Analyte	Result	MLQ	SRPK Va	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	2202	250	2500	0	88.1	79-120				
Ethylbenzene	2138	250	2500	174.7	78.5	80-122				S
m,p-Xylene	4265	500	5000	474.8	75.8	79-122				S
o-Xylene	2135	250	2500	98.2	81.5	80-123				
Xylenes, Total	6400	500	7500	573	77.7	80-120				S
<i>Surr: 1,2-Dichloroethane-d4</i>	2603	0	2500	0	104	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	2669	0	2500	0	107	73-126	0			
<i>Surr: Dibromofluoromethane</i>	2469	0	2500	0	98.8	71-128	0			
<i>Surr: Toluene-d8</i>	2369	0	2500	0	94.8	73-127	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1309926  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R154182** Instrument ID **VOA3** Method: **SW8260**

MSD		Sample ID: <b>1309890-07AMSD</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>9/24/2013 11:03 AM</b>		
Client ID:		Run ID: <b>VOA3_130924A</b>			SeqNo: <b>3366909</b>		Prep Date:		DF: <b>50</b>	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	2631	250	2500	0	105	79-120	2202	17.7	30	
Ethylbenzene	2541	250	2500	174.7	94.6	80-122	2138	17.2	30	
m,p-Xylene	5121	500	5000	474.8	92.9	79-122	4265	18.2	30	
o-Xylene	2561	250	2500	98.2	98.5	80-123	2135	18.1	30	
Xylenes, Total	7682	500	7500	573	94.8	79-123	6400	18.2	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	2577	0	2500	0	103	70-128	2603	1.01	30	
<i>Surr: 4-Bromofluorobenzene</i>	2633	0	2500	0	105	73-126	2669	1.35	30	
<i>Surr: Dibromofluoromethane</i>	2475	0	2500	0	99	71-128	2469	0.209	30	
<i>Surr: Toluene-d8</i>	2421	0	2500	0	96.8	73-127	2369	2.17	30	

The following samples were analyzed in this batch: 1309926-04A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1309926  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: R154325 Instrument ID VOA6 Method: SW8260

MBLK		Sample ID: VBLKW-130925-R154325			Units: µg/L			Analysis Date: 9/26/2013 02:27 AM		
Client ID:		Run ID: VOA6_130925D			SeqNo: 3369917		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
m,p-Xylene	U	10								
Methyl tert-butyl ether	U	5.0								
o-Xylene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
<i>Surr: 1,2-Dichloroethane-d4</i>	52.53	5.0	50	0	105	70-125	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.04	5.0	50	0	98.1	72-125	0			
<i>Surr: Dibromofluoromethane</i>	50.47	5.0	50	0	101	71-125	0			
<i>Surr: Toluene-d8</i>	47.93	5.0	50	0	95.9	75-125	0			

LCS		Sample ID: VLCSW-130925-R154325			Units: µg/L			Analysis Date: 9/26/2013 01:35 AM		
Client ID:		Run ID: VOA6_130925D			SeqNo: 3369916		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.15	5.0	50	0	96.3	73-121				
Ethylbenzene	47.46	5.0	50	0	94.9	80-120				
m,p-Xylene	96.3	10	100	0	96.3	78-121				
Methyl tert-butyl ether	43.71	5.0	50	0	87.4	73-121				
o-Xylene	48.3	5.0	50	0	96.6	80-120				
Toluene	47.32	5.0	50	0	94.6	80-120				
Xylenes, Total	144.6	15	150	0	96.4	80-120				
<i>Surr: 1,2-Dichloroethane-d4</i>	50.56	5.0	50	0	101	70-125	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.88	5.0	50	0	99.8	72-125	0			
<i>Surr: Dibromofluoromethane</i>	51.63	5.0	50	0	103	71-125	0			
<i>Surr: Toluene-d8</i>	49.06	5.0	50	0	98.1	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1309926  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: R154325 Instrument ID VOA6 Method: SW8260

MS		Sample ID: 13091019-03AMS			Units: µg/L			Analysis Date: 9/26/2013 03:19 AM		
Client ID:		Run ID: VOA6_130925D			SeqNo: 3369919		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	44.35	5.0	50	0	88.7	73-121				
Ethylbenzene	43.04	5.0	50	0	86.1	80-120				
m,p-Xylene	86.23	10	100	0	86.2	78-121				
Methyl tert-butyl ether	44.07	5.0	50	0	88.1	73-121				
o-Xylene	43.25	5.0	50	0	86.5	80-120				
Toluene	43.2	5.0	50	0	86.4	80-120				
Xylenes, Total	129.5	15	150	0	86.3	80-120				
Surr: 1,2-Dichloroethane-d4	50.72	5.0	50	0	101	70-125		0		
Surr: 4-Bromofluorobenzene	50.32	5.0	50	0	101	72-125		0		
Surr: Dibromofluoromethane	51.32	5.0	50	0	103	71-125		0		
Surr: Toluene-d8	48.94	5.0	50	0	97.9	75-125		0		

MSD		Sample ID: 13091019-03AMSD			Units: µg/L			Analysis Date: 9/26/2013 03:45 AM		
Client ID:		Run ID: VOA6_130925D			SeqNo: 3369920		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	44.96	5.0	50	0	89.9	73-121	44.35	1.37	20	
Ethylbenzene	41.79	5.0	50	0	83.6	80-120	43.04	2.96	20	
m,p-Xylene	85.04	10	100	0	85	78-121	86.23	1.4	20	
Methyl tert-butyl ether	44.8	5.0	50	0	89.6	73-121	44.07	1.64	20	
o-Xylene	43.83	5.0	50	0	87.7	80-120	43.25	1.33	20	
Toluene	43.17	5.0	50	0	86.3	80-120	43.2	0.0797	20	
Xylenes, Total	128.9	15	150	0	85.9	78-121	129.5	0.479	20	
Surr: 1,2-Dichloroethane-d4	51.59	5.0	50	0	103	70-125	50.72	1.7	20	
Surr: 4-Bromofluorobenzene	50.45	5.0	50	0	101	72-125	50.32	0.258	20	
Surr: Dibromofluoromethane	51.25	5.0	50	0	103	71-125	51.32	0.128	20	
Surr: Toluene-d8	49.04	5.0	50	0	98.1	75-125	48.94	0.195	20	

The following samples were analyzed in this batch:

1309926-06A	1309926-07A	1309926-10A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES  
**WorkOrder:** 1309926

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
µg/Kg	Micrograms per Kilogram
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter

Sample Receipt Checklist

Client Name: **CORRIGAN-HOU**

Date/Time Received: **20-Sep-13 13:12**

Work Order: **1309926**

Received by: **ECD**

Checklist completed by William Jenkins 21-Sep-13  
eSignature Date

Reviewed by: Jani S. Blankfield 21-Sep-13  
eSignature Date

Matrices: **SOIL/WATER**

Carrier name: **ALS.HS**

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Container/Temp Blank temperature in compliance? Yes  No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt? Yes  No  N/A

pH adjusted? Yes  No  N/A

pH adjusted by:

Login Notes:



Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



## Review of Laboratory Analysis Report

Client: City of Houston Date: October 2, 2013

Project: Montrose-Midtown Phase II ESA Reviewed by: K. Scheller

Project No.: 136524, Task 001 Project Manager: R. Voran

Laboratory Report No.: 1309926 (ALS Environmental, Houston, Texas)

1. The following are attached to report:

- |   |                                     |     |                                     |    |                          |     |
|---|-------------------------------------|-----|-------------------------------------|----|--------------------------|-----|
| Completed Chain-of-Custody  | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| Analytical results for all requested analyses   | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| QA/QC reports for each analytical method  | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| 2. Did received temperature meet method criteria?   | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| 3. Were extractions and analyses performed using appropriate method and prior to elapse of holding times?   | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| 4. Do detection limits meet regulatory or project requirements?   | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| 5. Are data for percent recovery and relative percent difference (RPD) for matrix spikes (MS) and matrix spike duplicates (MSD) within acceptable ranges? | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no | <input type="checkbox"/> | N/A |
| 6. Are data for percent recovery and RPD for blank spike and blank spike duplicates (BS/BSD or LCS/LSCD) within acceptable ranges?                        | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| 7. Were the surrogates recovered within acceptable ranges?  | <input type="checkbox"/>            | yes | <input checked="" type="checkbox"/> | no | <input type="checkbox"/> | N/A |
| 8. Were any compounds/metals reported in the method blanks?   | <input type="checkbox"/>            | yes | <input checked="" type="checkbox"/> | no |                          |     |
| 9. Are analytical data for field blanks, trip blanks, and duplicates acceptable?  | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no | <input type="checkbox"/> | N/A |

9. Notes:

5). Project sample B-1 (28-30) was the only sample used as a MS/MSD sample and only for the analyses of mercury in soil. Percent recoveries and RPDs met criteria. The matrix effect could not be evaluated for the other types of analyses nor for mercury in water since no project sample was used for MS/MSD analyses.

7). One of the four BTEX/MTBE (benzene, toluene, ethylbenzene and methyl tert-butyl ether) surrogates for sample B-5 (30-32) was recovered above criteria. Due to this, the benzene concentration in that sample is qualified as estimated with a high bias ("JH" qualified).

9). BTEX and MTBE were not detected in the trip blank sample.

It should be noted that some of the concentrations were reported between the sample detection limite (SDL) and the method quantitation limit (MQL) and qualified by the laboratory as estimated values ("J" qualified). As a result of the data quality review, these "J" qualified data remain qualified as such, unless they were qualified by the reviewer as listed above.



09-Oct-2013

Jordan Smith  
Kleinfelder  
12000 Aerospace Ave.  
Suite 450  
Houston, TX 77034

Tel: (281) 922-4766  
Fax: (281) 922-4767

Re: COH-Montrose-Midtown Phase II ES 136524

Work Order: **1310133**

Dear Jordan,

ALS Environmental received 10 samples on 02-Oct-2013 12:48 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 29.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in cursive script that reads "Sonia West".

Electronically approved by: Jumoke M. Lawal

Sonia West  
Project Manager



Certificate No: TX: T104704231-13-12

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

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Environmental

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES 136524  
**Work Order:** 1310133

**Work Order Sample Summary**

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<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1310133-01	B-40 (12-14)	Soil		10/1/2013 08:25	10/2/2013 12:48	<input type="checkbox"/>
1310133-02	B-41 (32-34)	Soil		10/1/2013 10:00	10/2/2013 12:48	<input type="checkbox"/>
1310133-03	B-42 (12-14)	Soil		10/1/2013 11:10	10/2/2013 12:48	<input type="checkbox"/>
1310133-04	B-43 (4-6)	Soil		10/1/2013 12:00	10/2/2013 12:48	<input type="checkbox"/>
1310133-05	B-43	Water		10/1/2013 14:15	10/2/2013 12:48	<input type="checkbox"/>
1310133-06	B-44 (32-34)	Soil		10/1/2013 13:20	10/2/2013 12:48	<input type="checkbox"/>
1310133-07	B-45 (22-24)	Soil		10/1/2013 15:30	10/2/2013 12:48	<input type="checkbox"/>
1310133-08	B-46 (6-8)	Soil		10/1/2013 16:20	10/2/2013 12:48	<input type="checkbox"/>
1310133-09	B-47 (4-6)	Soil		10/1/2013 17:30	10/2/2013 12:48	<input type="checkbox"/>
1310133-10	Trip Blank 090613-95	Water		10/1/2013	10/2/2013 12:48	<input type="checkbox"/>

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**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES 136524  
**Work Order:** 1310133

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**Case Narrative**

Batch 73566, TPH TX1005, Sample B-42 (12-14) (1310133-03B): The surrogate Trifluoromethyl benzene recovery was above the control limits due to matrix interference.

Batch 73566, TPH TX1005, Sample 1310170-01A: MS/MSD are for an unrelated sample.

Batch R154809, Volatile Organics 8260, Sample 1310004-01A: MS/MSD are for an unrelated sample.

Batch R154853, Volatile Organics 8260, Sample 13091332-09AMS: MS/MSD are for an unrelated sample.

**ALS Environmental**

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 1310133

**Sample ID:** B-40 (12-14)

**Lab ID:** 1310133-01

**Collection Date:** 10/1/2013 08:25 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/3/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		50	mg/Kg	1	10/4/2013 12:43 PM
>nC12 to nC28	U		50	mg/Kg	1	10/4/2013 12:43 PM
>nC28 to nC35	U		50	mg/Kg	1	10/4/2013 12:43 PM
Total Petroleum Hydrocarbon	U		50	mg/Kg	1	10/4/2013 12:43 PM
<i>Surr: 2-Fluorobiphenyl</i>	109		70-130	%REC	1	10/4/2013 12:43 PM
<i>Surr: Trifluoromethyl benzene</i>	89.3		70-130	%REC	1	10/4/2013 12:43 PM
<b>VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
Benzene	U		5.0	µg/Kg	1	10/3/2013 02:38 PM
Ethylbenzene	U		5.0	µg/Kg	1	10/3/2013 02:38 PM
m,p-Xylene	U		10	µg/Kg	1	10/3/2013 02:38 PM
o-Xylene	U		5.0	µg/Kg	1	10/3/2013 02:38 PM
Toluene	U		5.0	µg/Kg	1	10/3/2013 02:38 PM
Xylenes, Total	U		10	µg/Kg	1	10/3/2013 02:38 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	102		70-128	%REC	1	10/3/2013 02:38 PM
<i>Surr: 4-Bromofluorobenzene</i>	102		73-126	%REC	1	10/3/2013 02:38 PM
<i>Surr: Dibromofluoromethane</i>	102		71-128	%REC	1	10/3/2013 02:38 PM
<i>Surr: Toluene-d8</i>	100		73-127	%REC	1	10/3/2013 02:38 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 1310133

**Sample ID:** B-41 (32-34)

**Lab ID:** 1310133-02

**Collection Date:** 10/1/2013 10:00 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/3/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	490		50	mg/Kg	1	10/4/2013 01:12 PM
>nC12 to nC28	U		50	mg/Kg	1	10/4/2013 01:12 PM
>nC28 to nC35	U		50	mg/Kg	1	10/4/2013 01:12 PM
<b>Total Petroleum Hydrocarbon</b>	<b>490</b>		<b>50</b>	<b>mg/Kg</b>	1	10/4/2013 01:12 PM
Surr: 2-Fluorobiphenyl	74.6		70-130	%REC	1	10/4/2013 01:12 PM
Surr: Trifluoromethyl benzene	112		70-130	%REC	1	10/4/2013 01:12 PM
<b>VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
Benzene	U		50	µg/Kg	10	10/7/2013 12:59 PM
Ethylbenzene	22,000		1,000	µg/Kg	200	10/4/2013 05:11 PM
m,p-Xylene	17,000		2,000	µg/Kg	200	10/4/2013 05:11 PM
o-Xylene	270	J	1,000	µg/Kg	200	10/4/2013 05:11 PM
Toluene	U		50	µg/Kg	10	10/7/2013 12:59 PM
<b>Xylenes, Total</b>	<b>18,000</b>		<b>2,000</b>	<b>µg/Kg</b>	200	10/4/2013 05:11 PM
Surr: 1,2-Dichloroethane-d4	113		70-128	%REC	10	10/7/2013 12:59 PM
Surr: 1,2-Dichloroethane-d4	92.1		70-128	%REC	200	10/4/2013 05:11 PM
Surr: 4-Bromofluorobenzene	104		73-126	%REC	10	10/7/2013 12:59 PM
Surr: 4-Bromofluorobenzene	100		73-126	%REC	200	10/4/2013 05:11 PM
Surr: Dibromofluoromethane	98.4		71-128	%REC	10	10/7/2013 12:59 PM
Surr: Dibromofluoromethane	98.1		71-128	%REC	200	10/4/2013 05:11 PM
Surr: Toluene-d8	98.3		73-127	%REC	200	10/4/2013 05:11 PM
Surr: Toluene-d8	103		73-127	%REC	10	10/7/2013 12:59 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 1310133

**Sample ID:** B-42 (12-14)

**Lab ID:** 1310133-03

**Collection Date:** 10/1/2013 11:10 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/3/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	2,800		250	mg/Kg	5	10/4/2013 11:28 PM
>nC12 to nC28	U		250	mg/Kg	5	10/4/2013 11:28 PM
>nC28 to nC35	U		250	mg/Kg	5	10/4/2013 11:28 PM
<b>Total Petroleum Hydrocarbon</b>	<b>2,800</b>		<b>250</b>	<b>mg/Kg</b>	5	10/4/2013 11:28 PM
Surr: 2-Fluorobiphenyl	96.7		70-130	%REC	5	10/4/2013 11:28 PM
Surr: Trifluoromethyl benzene	156	S	70-130	%REC	5	10/4/2013 11:28 PM
<b>VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
Benzene	6,300		1,000	µg/Kg	200	10/4/2013 06:09 PM
Ethylbenzene	17,000		5,000	µg/Kg	1000	10/4/2013 05:40 PM
m,p-Xylene	56,000		10,000	µg/Kg	1000	10/4/2013 05:40 PM
o-Xylene	20,000		5,000	µg/Kg	1000	10/4/2013 05:40 PM
Toluene	41,000		5,000	µg/Kg	1000	10/4/2013 05:40 PM
Xylenes, Total	75,000		10,000	µg/Kg	1000	10/4/2013 05:40 PM
Surr: 1,2-Dichloroethane-d4	91.5		70-128	%REC	200	10/4/2013 06:09 PM
Surr: 1,2-Dichloroethane-d4	92.8		70-128	%REC	1000	10/4/2013 05:40 PM
Surr: 4-Bromofluorobenzene	99.6		73-126	%REC	200	10/4/2013 06:09 PM
Surr: 4-Bromofluorobenzene	98.0		73-126	%REC	1000	10/4/2013 05:40 PM
Surr: Dibromofluoromethane	95.3		71-128	%REC	200	10/4/2013 06:09 PM
Surr: Dibromofluoromethane	99.9		71-128	%REC	1000	10/4/2013 05:40 PM
Surr: Toluene-d8	100		73-127	%REC	1000	10/4/2013 05:40 PM
Surr: Toluene-d8	97.3		73-127	%REC	200	10/4/2013 06:09 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 1310133

**Sample ID:** B-43 (4-6)

**Lab ID:** 1310133-04

**Collection Date:** 10/1/2013 12:00 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/3/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		50	mg/Kg	1	10/4/2013 02:12 PM
>nC12 to nC28	U		50	mg/Kg	1	10/4/2013 02:12 PM
>nC28 to nC35	U		50	mg/Kg	1	10/4/2013 02:12 PM
Total Petroleum Hydrocarbon	U		50	mg/Kg	1	10/4/2013 02:12 PM
<i>Surr: 2-Fluorobiphenyl</i>	98.0		70-130	%REC	1	10/4/2013 02:12 PM
<i>Surr: Trifluoromethyl benzene</i>	80.2		70-130	%REC	1	10/4/2013 02:12 PM
<b>VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
Benzene	U		5.0	µg/Kg	1	10/7/2013 03:46 PM
Ethylbenzene	U		5.0	µg/Kg	1	10/7/2013 03:46 PM
m,p-Xylene	U		10	µg/Kg	1	10/7/2013 03:46 PM
o-Xylene	U		5.0	µg/Kg	1	10/7/2013 03:46 PM
Toluene	U		5.0	µg/Kg	1	10/7/2013 03:46 PM
Xylenes, Total	U		10	µg/Kg	1	10/7/2013 03:46 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	82.5		70-128	%REC	1	10/7/2013 03:46 PM
<i>Surr: 4-Bromofluorobenzene</i>	98.0		73-126	%REC	1	10/7/2013 03:46 PM
<i>Surr: Dibromofluoromethane</i>	108		71-128	%REC	1	10/7/2013 03:46 PM
<i>Surr: Toluene-d8</i>	101		73-127	%REC	1	10/7/2013 03:46 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 1310133

**Sample ID:** B-43

**Lab ID:** 1310133-05

**Collection Date:** 10/1/2013 02:15 PM

**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>LOW-LEVEL TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/4/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		0.47	mg/L	1	10/4/2013 11:00 PM
>nC12 to nC28	U		0.47	mg/L	1	10/4/2013 11:00 PM
>nC28 to nC35	U		0.47	mg/L	1	10/4/2013 11:00 PM
Total Petroleum Hydrocarbon	U		0.47	mg/L	1	10/4/2013 11:00 PM
<i>Surr: 2-Fluorobiphenyl</i>	78.1		70-130	%REC	1	10/4/2013 11:00 PM
<i>Surr: Trifluoromethyl benzene</i>	87.3		70-130	%REC	1	10/4/2013 11:00 PM
<b>LOW LEVEL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>AKP</b>
Benzene	U		1.0	µg/L	1	10/8/2013 09:51 PM
<b>Ethylbenzene</b>	<b>0.94</b>	J	<b>1.0</b>	<b>µg/L</b>	1	10/8/2013 09:51 PM
<b>m,p-Xylene</b>	<b>2.3</b>		<b>2.0</b>	<b>µg/L</b>	1	10/8/2013 09:51 PM
<b>o-Xylene</b>	<b>0.68</b>	J	<b>1.0</b>	<b>µg/L</b>	1	10/8/2013 09:51 PM
<b>Toluene</b>	<b>1.5</b>		<b>1.0</b>	<b>µg/L</b>	1	10/8/2013 09:51 PM
<b>Xylenes, Total</b>	<b>3.0</b>		<b>1.0</b>	<b>µg/L</b>	1	10/8/2013 09:51 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	111		71-125	%REC	1	10/8/2013 09:51 PM
<i>Surr: 4-Bromofluorobenzene</i>	97.7		70-125	%REC	1	10/8/2013 09:51 PM
<i>Surr: Dibromofluoromethane</i>	112		74-125	%REC	1	10/8/2013 09:51 PM
<i>Surr: Toluene-d8</i>	101		75-125	%REC	1	10/8/2013 09:51 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 1310133

**Sample ID:** B-44 (32-34)

**Lab ID:** 1310133-06

**Collection Date:** 10/1/2013 01:20 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/3/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		50	mg/Kg	1	10/4/2013 02:42 PM
>nC12 to nC28	U		50	mg/Kg	1	10/4/2013 02:42 PM
>nC28 to nC35	U		50	mg/Kg	1	10/4/2013 02:42 PM
Total Petroleum Hydrocarbon	U		50	mg/Kg	1	10/4/2013 02:42 PM
<i>Surr: 2-Fluorobiphenyl</i>	109		70-130	%REC	1	10/4/2013 02:42 PM
<i>Surr: Trifluoromethyl benzene</i>	90.1		70-130	%REC	1	10/4/2013 02:42 PM
<b>VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
Benzene	U		5.0	µg/Kg	1	10/7/2013 04:13 PM
Ethylbenzene	U		5.0	µg/Kg	1	10/7/2013 04:13 PM
m,p-Xylene	U		10	µg/Kg	1	10/7/2013 04:13 PM
o-Xylene	U		5.0	µg/Kg	1	10/7/2013 04:13 PM
Toluene	U		5.0	µg/Kg	1	10/7/2013 04:13 PM
Xylenes, Total	U		10	µg/Kg	1	10/7/2013 04:13 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	80.0		70-128	%REC	1	10/7/2013 04:13 PM
<i>Surr: 4-Bromofluorobenzene</i>	93.3		73-126	%REC	1	10/7/2013 04:13 PM
<i>Surr: Dibromofluoromethane</i>	109		71-128	%REC	1	10/7/2013 04:13 PM
<i>Surr: Toluene-d8</i>	98.9		73-127	%REC	1	10/7/2013 04:13 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 1310133

**Sample ID:** B-45 (22-24)

**Lab ID:** 1310133-07

**Collection Date:** 10/1/2013 03:30 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/3/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		50	mg/Kg	1	10/4/2013 03:12 PM
>nC12 to nC28	U		50	mg/Kg	1	10/4/2013 03:12 PM
>nC28 to nC35	U		50	mg/Kg	1	10/4/2013 03:12 PM
Total Petroleum Hydrocarbon	U		50	mg/Kg	1	10/4/2013 03:12 PM
<i>Surr: 2-Fluorobiphenyl</i>	109		70-130	%REC	1	10/4/2013 03:12 PM
<i>Surr: Trifluoromethyl benzene</i>	88.5		70-130	%REC	1	10/4/2013 03:12 PM
<b>VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
Benzene	U		5.0	µg/Kg	1	10/7/2013 04:41 PM
Ethylbenzene	U		5.0	µg/Kg	1	10/7/2013 04:41 PM
m,p-Xylene	U		10	µg/Kg	1	10/7/2013 04:41 PM
o-Xylene	U		5.0	µg/Kg	1	10/7/2013 04:41 PM
Toluene	U		5.0	µg/Kg	1	10/7/2013 04:41 PM
Xylenes, Total	U		10	µg/Kg	1	10/7/2013 04:41 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	82.4		70-128	%REC	1	10/7/2013 04:41 PM
<i>Surr: 4-Bromofluorobenzene</i>	94.3		73-126	%REC	1	10/7/2013 04:41 PM
<i>Surr: Dibromofluoromethane</i>	110		71-128	%REC	1	10/7/2013 04:41 PM
<i>Surr: Toluene-d8</i>	102		73-127	%REC	1	10/7/2013 04:41 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 1310133

**Sample ID:** B-46 (6-8)

**Lab ID:** 1310133-08

**Collection Date:** 10/1/2013 04:20 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/3/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		50	mg/Kg	1	10/4/2013 03:41 PM
>nC12 to nC28	U		50	mg/Kg	1	10/4/2013 03:41 PM
>nC28 to nC35	U		50	mg/Kg	1	10/4/2013 03:41 PM
Total Petroleum Hydrocarbon	U		50	mg/Kg	1	10/4/2013 03:41 PM
<i>Surr: 2-Fluorobiphenyl</i>	102		70-130	%REC	1	10/4/2013 03:41 PM
<i>Surr: Trifluoromethyl benzene</i>	80.3		70-130	%REC	1	10/4/2013 03:41 PM
<b>VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
Benzene	U		5.0	µg/Kg	1	10/7/2013 05:09 PM
Ethylbenzene	U		5.0	µg/Kg	1	10/7/2013 05:09 PM
m,p-Xylene	U		10	µg/Kg	1	10/7/2013 05:09 PM
o-Xylene	U		5.0	µg/Kg	1	10/7/2013 05:09 PM
Toluene	U		5.0	µg/Kg	1	10/7/2013 05:09 PM
Xylenes, Total	U		10	µg/Kg	1	10/7/2013 05:09 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	85.2		70-128	%REC	1	10/7/2013 05:09 PM
<i>Surr: 4-Bromofluorobenzene</i>	94.5		73-126	%REC	1	10/7/2013 05:09 PM
<i>Surr: Dibromofluoromethane</i>	111		71-128	%REC	1	10/7/2013 05:09 PM
<i>Surr: Toluene-d8</i>	102		73-127	%REC	1	10/7/2013 05:09 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 1310133

**Sample ID:** B-47 (4-6)

**Lab ID:** 1310133-09

**Collection Date:** 10/1/2013 05:30 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/3/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		50	mg/Kg	1	10/4/2013 03:12 PM
>nC12 to nC28	U		50	mg/Kg	1	10/4/2013 03:12 PM
>nC28 to nC35	U		50	mg/Kg	1	10/4/2013 03:12 PM
Total Petroleum Hydrocarbon	U		50	mg/Kg	1	10/4/2013 03:12 PM
<i>Surr: 2-Fluorobiphenyl</i>	96.6		70-130	%REC	1	10/4/2013 03:12 PM
<i>Surr: Trifluoromethyl benzene</i>	86.6		70-130	%REC	1	10/4/2013 03:12 PM
<b>VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
Benzene	U		5.0	µg/Kg	1	10/7/2013 05:38 PM
Ethylbenzene	U		5.0	µg/Kg	1	10/7/2013 05:38 PM
m,p-Xylene	U		10	µg/Kg	1	10/7/2013 05:38 PM
Methyl tert-butyl ether	U		5.0	µg/Kg	1	10/7/2013 05:38 PM
o-Xylene	U		5.0	µg/Kg	1	10/7/2013 05:38 PM
Toluene	U		5.0	µg/Kg	1	10/7/2013 05:38 PM
Xylenes, Total	U		10	µg/Kg	1	10/7/2013 05:38 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	88.6		70-128	%REC	1	10/7/2013 05:38 PM
<i>Surr: 4-Bromofluorobenzene</i>	92.8		73-126	%REC	1	10/7/2013 05:38 PM
<i>Surr: Dibromofluoromethane</i>	108		71-128	%REC	1	10/7/2013 05:38 PM
<i>Surr: Toluene-d8</i>	99.3		73-127	%REC	1	10/7/2013 05:38 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

Work Order: 1310133  
 Client: Kleinfelder  
 Project: COH-Montrose-Midtown Phase II ES 136524

**DATES REPORT**

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<b><u>Batch ID 73566</u>      <u>Test Name: Texas TPH - TX1005</u></b>						
1310133-01B	B-40 (12-14)	Soil	10/1/2013 8:25:00 AM		10/3/2013 03:43 PM	10/4/2013 12:43 PM
1310133-02B	B-41 (32-34)		10/1/2013 10:00:00 AM		10/3/2013 03:43 PM	10/4/2013 01:12 PM
1310133-03B	B-42 (12-14)		10/1/2013 11:10:00 AM		10/3/2013 03:43 PM	10/4/2013 11:28 PM
1310133-04B	B-43 (4-6)		10/1/2013 12:00:00 PM		10/3/2013 03:43 PM	10/4/2013 02:12 PM
1310133-06B	B-44 (32-34)		10/1/2013 1:20:00 PM		10/3/2013 03:43 PM	10/4/2013 02:42 PM
1310133-07B	B-45 (22-24)		10/1/2013 3:30:00 PM		10/3/2013 03:43 PM	10/4/2013 03:12 PM
1310133-08B	B-46 (6-8)		10/1/2013 4:20:00 PM		10/3/2013 03:43 PM	10/4/2013 03:41 PM
1310133-09B	B-47 (4-6)		10/1/2013 5:30:00 PM		10/3/2013 03:43 PM	10/4/2013 03:12 PM
<b><u>Batch ID 73609</u>      <u>Test Name: Low-level Texas TPH - TX1005</u></b>						
1310133-05B	B-43	Water	10/1/2013 2:15:00 PM		10/4/2013 10:00 AM	10/4/2013 11:00 PM
<b><u>Batch ID R154767</u>      <u>Test Name: Volatiles - SW8260C</u></b>						
1310133-01A	B-40 (12-14)	Soil	10/1/2013 8:25:00 AM			10/3/2013 02:38 PM
<b><u>Batch ID R154809</u>      <u>Test Name: Volatiles - SW8260C</u></b>						
1310133-02A	B-41 (32-34)	Soil	10/1/2013 10:00:00 AM			10/4/2013 05:11 PM
1310133-03A	B-42 (12-14)		10/1/2013 11:10:00 AM			10/4/2013 05:40 PM
						10/4/2013 06:09 PM

**Work Order:** 1310133  
**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES 136524

**DATES REPORT**

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<b><u>Batch ID R154853</u>    <u>Test Name: Volatiles - SW8260C</u></b>						
1310133-02A	B-41 (32-34)	Soil	10/1/2013 10:00:00 AM			10/7/2013 12:59 PM
1310133-04A	B-43 (4-6)		10/1/2013 12:00:00 PM			10/7/2013 03:46 PM
1310133-06A	B-44 (32-34)		10/1/2013 1:20:00 PM			10/7/2013 04:13 PM
1310133-07A	B-45 (22-24)		10/1/2013 3:30:00 PM			10/7/2013 04:41 PM
1310133-08A	B-46 (6-8)		10/1/2013 4:20:00 PM			10/7/2013 05:09 PM
1310133-09A	B-47 (4-6)		10/1/2013 5:30:00 PM			10/7/2013 05:38 PM
<b><u>Batch ID R155041</u>    <u>Test Name: Low Level Volatiles - SW8260C</u></b>						
1310133-05A	B-43	Water	10/1/2013 2:15:00 PM			10/8/2013 09:51 PM

ALS Environmental

Date: 09-Oct-13

Client: Kleinfelder

QC BATCH REPORT

Work Order: 1310133

Project: COH-Montrose-Midtown Phase II ES 136524

Batch ID: 73566

Instrument ID FID-10

Method: TX1005

MBLK		Sample ID: FBLKS4-131003-73566			Units: mg/Kg			Analysis Date: 10/3/2013 08:21 PM		
Client ID:		Run ID: FID-10_131003A			SeqNo: 3381113			Prep Date: 10/3/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	U	50								
>nC12 to nC28	U	50								
>nC28 to nC35	U	50								
Total Petroleum Hydrocarbon	U	50								
<i>Surr: 2-Fluorobiphenyl</i>	18.29	0	25	0	73.2	70-130	0			
<i>Surr: Trifluoromethyl benzene</i>	17.56	0	25	0	70.2	70-130	0			

LCS		Sample ID: FLCSS4-131003-73566			Units: mg/Kg			Analysis Date: 10/3/2013 08:50 PM		
Client ID:		Run ID: FID-10_131003A			SeqNo: 3381114			Prep Date: 10/3/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	222.1	50	250	0	88.9	75-125				
>nC12 to nC28	201.1	50	250	0	80.4	75-125				
<i>Surr: 2-Fluorobiphenyl</i>	30.65	0	25	0	123	70-130	0			
<i>Surr: Trifluoromethyl benzene</i>	22.69	0	25	0	90.7	70-130	0			

LCSD		Sample ID: FLCSDS4-131003-73566			Units: mg/Kg			Analysis Date: 10/3/2013 09:19 PM		
Client ID:		Run ID: FID-10_131003A			SeqNo: 3381115			Prep Date: 10/3/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	223.1	50	250	0	89.3	75-125	222.1	0.457	20	
>nC12 to nC28	201.4	50	250	0	80.5	75-125	201.1	0.124	20	
<i>Surr: 2-Fluorobiphenyl</i>	30.4	0	25	0	122	70-130	30.65	0.833	20	
<i>Surr: Trifluoromethyl benzene</i>	22.78	0	25	0	91.1	70-130	22.69	0.409	20	

MS		Sample ID: 1310170-01AMS			Units: mg/Kg			Analysis Date: 10/3/2013 10:18 PM		
Client ID:		Run ID: FID-10_131003A			SeqNo: 3381117			Prep Date: 10/3/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	225.2	50	248.8	3.292	89.2	75-125				
>nC12 to nC28	703.4	50	248.8	604.2	39.9	75-125				S
<i>Surr: 2-Fluorobiphenyl</i>	30.81	0	24.88	0	124	70-130	0			
<i>Surr: Trifluoromethyl benzene</i>	22.12	0	24.88	0	88.9	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310133  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: 73566 Instrument ID FID-10 Method: TX1005

MSD		Sample ID: 1310170-01AMSD			Units: mg/Kg			Analysis Date: 10/3/2013 10:48 PM		
Client ID:		Run ID: FID-10_131003A			SeqNo: 3381118			Prep Date: 10/3/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	229.9	50	249.5	3.292	90.8	75-125	225.2	2.05	20	
>nC12 to nC28	716.4	50	249.5	604.2	45	75-125	703.4	1.83	20	S
<i>Surr: 2-Fluorobiphenyl</i>	31.27	0	24.95	0	125	70-130	30.81	1.49	20	
<i>Surr: Trifluoromethyl benzene</i>	22.32	0	24.95	0	89.4	70-130	22.12	0.873	20	

The following samples were analyzed in this batch:

1310133-01B	1310133-02B	1310133-03B
1310133-04B	1310133-06B	1310133-07B
1310133-08B	1310133-09B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310133  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: 73609 Instrument ID FID-12 Method: TX1005

MBLK		Sample ID: FBLKW1-131004-73609			Units: mg/L			Analysis Date: 10/4/2013 08:51 PM		
Client ID:		Run ID: FID-12_131004A			SeqNo: 3383146			Prep Date: 10/4/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	U	0.50								
>nC12 to nC28	U	0.50								
>nC28 to nC35	U	0.50								
Total Petroleum Hydrocarbon	U	0.50								
Surr: 2-Fluorobiphenyl	2.581	0	2.5	0	103	70-130	0			
Surr: Trifluoromethyl benzene	2.304	0	2.5	0	92.2	70-130	0			

LCS		Sample ID: FLCSW1-131004-73609			Units: mg/L			Analysis Date: 10/4/2013 09:23 PM		
Client ID:		Run ID: FID-12_131004A			SeqNo: 3383147			Prep Date: 10/4/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	27.89	0.50	25	0	112	75-125				
>nC12 to nC28	22.1	0.50	25	0	88.4	75-125				
Surr: 2-Fluorobiphenyl	2.918	0	2.5	0	117	70-130	0			
Surr: Trifluoromethyl benzene	2.103	0	2.5	0	84.1	70-130	0			

LCSD		Sample ID: FLCSDW1-131004-73609			Units: mg/L			Analysis Date: 10/4/2013 09:55 PM		
Client ID:		Run ID: FID-12_131004A			SeqNo: 3383148			Prep Date: 10/4/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	28.32	0.50	25	0	113	75-125	27.89	1.51	20	
>nC12 to nC28	23.29	0.50	25	0	93.1	75-125	22.1	5.24	20	
Surr: 2-Fluorobiphenyl	3.013	0	2.5	0	121	70-130	2.918	3.18	20	
Surr: Trifluoromethyl benzene	2.167	0	2.5	0	86.7	70-130	2.103	3.01	20	

MS		Sample ID: 1310121-01BMS			Units: mg/L			Analysis Date: 10/4/2013 11:32 PM		
Client ID:		Run ID: FID-12_131004A			SeqNo: 3383151			Prep Date: 10/4/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	25.94	0.46	23.05	0	113	75-125				
>nC12 to nC28	19.36	0.46	23.05	0	84	75-125				
Surr: 2-Fluorobiphenyl	2.721	0	2.305	0	118	70-130	0			
Surr: Trifluoromethyl benzene	1.993	0	2.305	0	86.5	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310133  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **73609** Instrument ID **FID-12** Method: **TX1005**

MSD		Sample ID: <b>1310121-01BMSD</b>			Units: <b>mg/L</b>			Analysis Date: <b>10/5/2013 12:04 AM</b>		
Client ID:		Run ID: <b>FID-12_131004A</b>			SeqNo: <b>3383152</b>		Prep Date: <b>10/4/2013</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	24.94	0.46	23.18	0	108	75-125	25.94	3.93	20	
>nC12 to nC28	19.18	0.46	23.18	0	82.7	75-125	19.36	0.898	20	
<i>Surr: 2-Fluorobiphenyl</i>	2.551	0	2.318	0	110	70-130	2.721	6.46	20	
<i>Surr: Trifluoromethyl benzene</i>	1.88	0	2.318	0	81.1	70-130	1.993	5.84	20	

The following samples were analyzed in this batch:

1310133-05B
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310133  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **R154767** Instrument ID **VOA3** Method: **SW8260**

**MBLK** Sample ID: **VBLKS1-100313-R154767** Units: **µg/Kg** Analysis Date: **10/3/2013 02:09 PM**

Client ID: Run ID: **VOA3\_131003A** SeqNo: **3380561** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
m,p-Xylene	U	10								
o-Xylene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	10								
<i>Surr: 1,2-Dichloroethane-d4</i>	51.41	0	50	0	103	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.18	0	50	0	98.4	73-126	0			
<i>Surr: Dibromofluoromethane</i>	49.67	0	50	0	99.3	71-128	0			
<i>Surr: Toluene-d8</i>	51.03	0	50	0	102	73-127	0			

**LCS** Sample ID: **VLCSS1-100313-R154767** Units: **µg/Kg** Analysis Date: **10/3/2013 12:45 PM**

Client ID: Run ID: **VOA3\_131003A** SeqNo: **3380560** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	53.69	5.0	50	0	107	79-120				
Ethylbenzene	54.44	5.0	50	0	109	80-122				
m,p-Xylene	108.4	10	100	0	108	79-122				
o-Xylene	54.72	5.0	50	0	109	80-123				
Toluene	53.28	5.0	50	0	107	79-120				
Xylenes, Total	163.1	10	150	0	109	80-120				
<i>Surr: 1,2-Dichloroethane-d4</i>	51.11	0	50	0	102	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	50.26	0	50	0	101	73-126	0			
<i>Surr: Dibromofluoromethane</i>	49.79	0	50	0	99.6	71-128	0			
<i>Surr: Toluene-d8</i>	50.63	0	50	0	101	73-127	0			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310133  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: R154767 Instrument ID VOA3 Method: SW8260

MS		Sample ID: 1310133-01AMS			Units: µg/Kg			Analysis Date: 10/3/2013 03:37 PM		
Client ID: B-40 (12-14)		Run ID: VOA3_131003A			SeqNo: 3380564			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	56.89	5.0	50	0	114	79-120				
Ethylbenzene	58.16	5.0	50	0	116	80-122				
m,p-Xylene	117.6	10	100	0	118	79-122				
o-Xylene	57.05	5.0	50	0	114	80-123				
Toluene	57.25	5.0	50	0	114	79-120				
Xylenes, Total	174.7	10	150	0	116	80-120				
Surr: 1,2-Dichloroethane-d4	48.43	0	50	0	96.9	70-128	0			
Surr: 4-Bromofluorobenzene	50.45	0	50	0	101	73-126	0			
Surr: Dibromofluoromethane	50.55	0	50	0	101	71-128	0			
Surr: Toluene-d8	51.23	0	50	0	102	73-127	0			

MSD		Sample ID: 1310133-01AMSD			Units: µg/Kg			Analysis Date: 10/3/2013 04:06 PM		
Client ID: B-40 (12-14)		Run ID: VOA3_131003A			SeqNo: 3380565			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	59.9	5.0	50	0	120	79-120	56.89	5.16	30	
Ethylbenzene	59.27	5.0	50	0	119	80-122	58.16	1.88	30	
m,p-Xylene	119.3	10	100	0	119	79-122	117.6	1.42	30	
o-Xylene	58.31	5.0	50	0	117	80-123	57.05	2.18	30	
Toluene	58.71	5.0	50	0	117	79-120	57.25	2.52	30	
Xylenes, Total	177.6	10	150	0	118	79-123	174.7	1.67	30	
Surr: 1,2-Dichloroethane-d4	50.7	0	50	0	101	70-128	48.43	4.57	30	
Surr: 4-Bromofluorobenzene	50.07	0	50	0	100	73-126	50.45	0.754	30	
Surr: Dibromofluoromethane	50.54	0	50	0	101	71-128	50.55	0.0268	30	
Surr: Toluene-d8	50.26	0	50	0	101	73-127	51.23	1.89	30	

The following samples were analyzed in this batch:

1310133-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310133  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **R154809** Instrument ID **VOA3** Method: **SW8260**

**MBLK** Sample ID: **VBLKM1-100413-R154809** Units: **µg/Kg** Analysis Date: **10/4/2013 01:57 PM**

Client ID: Run ID: **VOA3\_131004A** SeqNo: **3381534** Prep Date: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	250								
Ethylbenzene	U	250								
m,p-Xylene	U	500								
o-Xylene	U	250								
Toluene	U	250								
Xylenes, Total	U	500								
<i>Surr: 1,2-Dichloroethane-d4</i>	2483	0	2500	0	99.3	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	2429	0	2500	0	97.2	73-126	0			
<i>Surr: Dibromofluoromethane</i>	2509	0	2500	0	100	71-128	0			
<i>Surr: Toluene-d8</i>	2471	0	2500	0	98.8	73-127	0			

**LCS** Sample ID: **VLCSW1-100413-R154809** Units: **µg/L** Analysis Date: **10/4/2013 12:55 PM**

Client ID: Run ID: **VOA3\_131004A** SeqNo: **3381533** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	52.96	5.0	50	0	106	73-121				
Ethylbenzene	56.35	5.0	50	0	113	80-120				
m,p-Xylene	113.3	10	100	0	113	78-121				
o-Xylene	56.22	5.0	50	0	112	80-120				
Toluene	54.55	5.0	50	0	109	80-120				
Xylenes, Total	169.5	15	150	0	113	80-120				
<i>Surr: 1,2-Dichloroethane-d4</i>	47.4	5.0	50	0	94.8	70-125	0			
<i>Surr: 4-Bromofluorobenzene</i>	50.77	5.0	50	0	102	72-125	0			
<i>Surr: Dibromofluoromethane</i>	49.85	5.0	50	0	99.7	71-125	0			
<i>Surr: Toluene-d8</i>	50.86	5.0	50	0	102	75-125	0			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310133  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: R154809 Instrument ID VOA3 Method: SW8260

MS		Sample ID: 1310004-01AMS			Units: µg/Kg			Analysis Date: 10/4/2013 03:17 PM		
Client ID:		Run ID: VOA3_131004A			SeqNo: 3381901		Prep Date:		DF: 1000	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	42870	5,000	50000	1683	82.4	79-120				
Ethylbenzene	50330	5,000	50000	8043	84.6	80-122				
m,p-Xylene	118100	10,000	100000	36330	81.7	79-122				
o-Xylene	55310	5,000	50000	15970	78.7	80-123				S
Toluene	61130	5,000	50000	21060	80.1	79-120				
Xylenes, Total	173400	10,000	150000	52310	80.7	80-120				
<i>Surr: 1,2-Dichloroethane-d4</i>	47730	0	50000	0	95.5	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	50760	0	50000	0	102	73-126	0			
<i>Surr: Dibromofluoromethane</i>	49240	0	50000	0	98.5	71-128	0			
<i>Surr: Toluene-d8</i>	51050	0	50000	0	102	73-127	0			

MSD		Sample ID: 1310004-01AMSD			Units: µg/Kg			Analysis Date: 10/4/2013 03:46 PM		
Client ID:		Run ID: VOA3_131004A			SeqNo: 3381902		Prep Date:		DF: 1000	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	57170	5,000	50000	1683	111	79-120	42870	28.6	30	
Ethylbenzene	67820	5,000	50000	8043	120	80-122	50330	29.6	30	
m,p-Xylene	154300	10,000	100000	36330	118	79-122	118100	26.6	30	
o-Xylene	73060	5,000	50000	15970	114	80-123	55310	27.6	30	
Toluene	78600	5,000	50000	21060	115	79-120	61130	25	30	
Xylenes, Total	227400	10,000	150000	52310	117	79-123	173400	26.9	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	47060	0	50000	0	94.1	70-128	47730	1.43	30	
<i>Surr: 4-Bromofluorobenzene</i>	49880	0	50000	0	99.8	73-126	50760	1.75	30	
<i>Surr: Dibromofluoromethane</i>	49630	0	50000	0	99.3	71-128	49240	0.771	30	
<i>Surr: Toluene-d8</i>	50710	0	50000	0	101	73-127	51050	0.671	30	

The following samples were analyzed in this batch: 1310133-02A 1310133-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310133  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **R154853** Instrument ID **VOA3** Method: **SW8260**

**MBLK** Sample ID: **VBLKS1-100713-R154853** Units: **µg/Kg** Analysis Date: **10/7/2013 10:18 AM**

Client ID: Run ID: **VOA3\_131007A** SeqNo: **3382698** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
m,p-Xylene	U	10								
Methyl tert-butyl ether	U	5.0								
o-Xylene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	10								
<i>Surr: 1,2-Dichloroethane-d4</i>	42.61	0	50	0	85.2	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.8	0	50	0	97.6	73-126	0			
<i>Surr: Dibromofluoromethane</i>	53.12	0	50	0	106	71-128	0			
<i>Surr: Toluene-d8</i>	51.02	0	50	0	102	73-127	0			

**LCS** Sample ID: **VLCSS1-100713-R154853** Units: **µg/Kg** Analysis Date: **10/7/2013 08:56 AM**

Client ID: Run ID: **VOA3\_131007A** SeqNo: **3382697** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	51.63	5.0	50	0	103	79-120				
Ethylbenzene	50.4	5.0	50	0	101	80-122				
m,p-Xylene	100.2	10	100	0	100	79-122				
Methyl tert-butyl ether	47.83	5.0	50	0	95.7	76-121				
o-Xylene	48.9	5.0	50	0	97.8	80-123				
Toluene	50.41	5.0	50	0	101	79-120				
Xylenes, Total	149.1	10	150	0	99.4	80-120				
<i>Surr: 1,2-Dichloroethane-d4</i>	45.61	0	50	0	91.2	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.84	0	50	0	99.7	73-126	0			
<i>Surr: Dibromofluoromethane</i>	51.2	0	50	0	102	71-128	0			
<i>Surr: Toluene-d8</i>	51.39	0	50	0	103	73-127	0			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310133  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: R154853 Instrument ID VOA3 Method: SW8260

MS		Sample ID: 13091332-09AMS			Units: µg/Kg			Analysis Date: 10/7/2013 01:27 PM		
Client ID:		Run ID: VOA3_131007A			SeqNo: 3383262		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	53.09	5.0	50	0	106	79-120				
Ethylbenzene	61.37	5.0	50	0	123	80-122				S
m,p-Xylene	109.2	10	100	0	109	79-122				
Methyl tert-butyl ether	50.44	5.0	50	0	101	76-121				
o-Xylene	50.93	5.0	50	0	102	80-123				
Toluene	50.89	5.0	50	0	102	79-120				
Xylenes, Total	160.1	10	150	0	107	80-120				
Surr: 1,2-Dichloroethane-d4	42.59	0	50	0	85.2	70-128	0			
Surr: 4-Bromofluorobenzene	48.21	0	50	0	96.4	73-126	0			
Surr: Dibromofluoromethane	54.76	0	50	0	110	71-128	0			
Surr: Toluene-d8	50.18	0	50	0	100	73-127	0			

MSD		Sample ID: 13091332-09AMSD			Units: µg/Kg			Analysis Date: 10/7/2013 01:55 PM		
Client ID:		Run ID: VOA3_131007A			SeqNo: 3383263		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	55.41	5.0	50	0	111	79-120	53.09	4.28	30	
Ethylbenzene	62.17	5.0	50	0	124	80-122	61.37	1.3	30	S
m,p-Xylene	116.8	10	100	0	117	79-122	109.2	6.72	30	
Methyl tert-butyl ether	53.2	5.0	50	0	106	76-121	50.44	5.32	30	
o-Xylene	56.35	5.0	50	0	113	80-123	50.93	10.1	30	
Toluene	56.77	5.0	50	0	114	79-120	50.89	10.9	30	
Xylenes, Total	173.1	10	150	0	115	79-123	160.1	7.81	30	
Surr: 1,2-Dichloroethane-d4	40.51	0	50	0	81	70-128	42.59	4.99	30	
Surr: 4-Bromofluorobenzene	47.89	0	50	0	95.8	73-126	48.21	0.664	30	
Surr: Dibromofluoromethane	54.99	0	50	0	110	71-128	54.76	0.421	30	
Surr: Toluene-d8	50.89	0	50	0	102	73-127	50.18	1.39	30	

The following samples were analyzed in this batch:

1310133-02A	1310133-04A	1310133-06A
1310133-07A	1310133-08A	1310133-09A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310133  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **R155041** Instrument ID **VOA8** Method: **SW8260**

**MBLK** Sample ID: **VBLKW-131008-R155041** Units: **µg/L** Analysis Date: **10/8/2013 12:26 PM**

Client ID: Run ID: **VOA8\_131008A** SeqNo: **3385566** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	1.0								
Ethylbenzene	U	1.0								
m,p-Xylene	U	2.0								
o-Xylene	U	1.0								
Toluene	U	1.0								
Xylenes, Total	U	3.0								
Surr: 1,2-Dichloroethane-d4	55.58	1.0	50	0	111	71-125	0			
Surr: 4-Bromofluorobenzene	48	1.0	50	0	96	70-125	0			
Surr: Dibromofluoromethane	54.75	1.0	50	0	109	74-125	0			
Surr: Toluene-d8	51.9	1.0	50	0	104	75-125	0			

**LCS** Sample ID: **VLCSW-131008-R155041** Units: **µg/L** Analysis Date: **10/8/2013 11:12 AM**

Client ID: Run ID: **VOA8\_131008A** SeqNo: **3385565** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.48	1.0	50	0	97	80-120				
Ethylbenzene	51.85	1.0	50	0	104	80-120				
m,p-Xylene	107.2	2.0	100	0	107	80-120				
o-Xylene	55.16	1.0	50	0	110	80-120				
Toluene	51.87	1.0	50	0	104	80-121				
Xylenes, Total	162.4	3.0	150	0	108	80-124				
Surr: 1,2-Dichloroethane-d4	50.92	1.0	50	0	102	71-125	0			
Surr: 4-Bromofluorobenzene	51.71	1.0	50	0	103	70-125	0			
Surr: Dibromofluoromethane	52.75	1.0	50	0	106	74-125	0			
Surr: Toluene-d8	52.47	1.0	50	0	105	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310133  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: R155041 Instrument ID VOA8 Method: SW8260

MS		Sample ID: 1310317-03AMS			Units: µg/L			Analysis Date: 10/8/2013 03:18 PM		
Client ID:		Run ID: VOA8_131008A			SeqNo: 3385573		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	49.8	1.0	50	0	99.6	80-120				
Ethylbenzene	52.79	1.0	50	0	106	80-120				
m,p-Xylene	109.1	2.0	100	0	109	80-120				
o-Xylene	57.42	1.0	50	0	115	80-120				
Toluene	53.43	1.0	50	0	107	80-121				
Xylenes, Total	166.5	3.0	150	0	111	80-124				
Surr: 1,2-Dichloroethane-d4	50.64	1.0	50	0	101	71-125	0			
Surr: 4-Bromofluorobenzene	51.9	1.0	50	0	104	70-125	0			
Surr: Dibromofluoromethane	51.87	1.0	50	0	104	74-125	0			
Surr: Toluene-d8	52.13	1.0	50	0	104	75-125	0			

MSD		Sample ID: 1310317-03AMSD			Units: µg/L			Analysis Date: 10/8/2013 03:42 PM		
Client ID:		Run ID: VOA8_131008A			SeqNo: 3385574		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	51.08	1.0	50	0	102	80-120	49.8	2.56	20	
Ethylbenzene	53.49	1.0	50	0	107	80-120	52.79	1.33	20	
m,p-Xylene	110.8	2.0	100	0	111	80-120	109.1	1.57	20	
o-Xylene	58.76	1.0	50	0	118	80-120	57.42	2.31	20	
Toluene	54.07	1.0	50	0	108	80-121	53.43	1.19	20	
Xylenes, Total	169.5	3.0	150	0	113	80-124	166.5	1.82	20	
Surr: 1,2-Dichloroethane-d4	49.86	1.0	50	0	99.7	71-125	50.64	1.55	20	
Surr: 4-Bromofluorobenzene	51.26	1.0	50	0	103	70-125	51.9	1.24	20	
Surr: Dibromofluoromethane	51.81	1.0	50	0	104	74-125	51.87	0.111	20	
Surr: Toluene-d8	51.69	1.0	50	0	103	75-125	52.13	0.849	20	

The following samples were analyzed in this batch:

1310133-05A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES 136524  
**WorkOrder:** 1310133

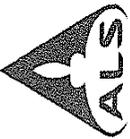
**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
µg/Kg	Micrograms per Kilogram
µg/L	Micrograms per Liter
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter





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Everett, WA  
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# Chain of Custody Form

Page      of     

COC ID: 87856

# 1310133

CORRIGAN-HOU: Kleinfelder

Project: COH-Montrose-Midtown Phase II ES 136524

## Environmental



ALS Project Manager:

Customer Information		Project Information		Results Due Date:																
Purchase Order		Project Name	COH-Montrose-Midtown Phase II ES	A	B	C	D	E	F	G	H	I	J	Hold	Required Turnaround Time: (Check Box)		QC Package: (Check One Box Below)			
Work Order		Project Number	136524	X	X	X	X	X	X	X	X	X	X	X	5 WK Days	2 WK Days	Level II Std QC	TRRP Checklist		
Company Name	Kleinfelder	Bill To Company	Kleinfelder	X	X	X	X	X	X	X	X	X	X	X	Other	2 WK Hour	Level III Std QC/RAW Data	TRRP Level IV		
Send Report To	Jordan Smith, Roxie Voran	Invoice Attn	Roxie Voran	X	X	X	X	X	X	X	X	X	X	X	2 WK Days	2 WK Hour	Level IV SW/84.6/CLP	Other / EDID		
Address	12000 Aerospace Ave. Suite 450	Address	12000 Aerospace Ave. Suite 450	X	X	X	X	X	X	X	X	X	X	X	Notes:					
City/State/Zip	Houston, TX 77034	City/State/Zip	Houston, TX 77034	X	X	X	X	X	X	X	X	X	X	X	Cooley ID	Cooler Temp.				
Phone	(281) 922-4766	Phone	(281) 922-4766	X	X	X	X	X	X	X	X	X	X	X						
Fax	(281) 922-4767	Fax	(281) 922-4767	X	X	X	X	X	X	X	X	X	X	X						
e-Mail Address	j.smith@kleinfelder.com, r.voran@kleinfelder.com	e-Mail Address	r.voran@kleinfelder.com	X	X	X	X	X	X	X	X	X	X	X						
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles														
1	B-40 (12-14)	10-1-13	815	S	8	8														
2	B-41 (32-34)		1000																	
3	B-42 (12-14)		1110																	
4	B-43 (4-6)		1200																	
5	B-43		1415	W	1,8	1,8														
6	B-44 (32-34)		1320	S	8	8														
7	B-45 (22-24)		1530																	
8	B-46 (6-8)		1620																	
9	B-47 (4-6)		1730																	
10	Trip Blank																			
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date:														
Jordan Smith		Pick up		5 WK Days		5 WK Days														
Requisitioned by:		Date:	Time:	Received by:		Time:														
Jordan Smith		10-2-13	1010	Tracy Harris		12:48														
Relinquished by:		Date:	Time:	Received by (Laboratory):		Time:														
Tracy Harris		10-2-13	12:48	Kleinfelder		1322														
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		Time:														
Kleinfelder		10-2-13	1322	Kleinfelder		1322														
Representative (Key):		1-HCl	2-HNO <sub>3</sub>	3-H <sub>2</sub> SO <sub>4</sub>	4-NaOH	5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	6-NaHSO <sub>4</sub>	7-Other	8-4°C	9-5035						Notes:				

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.  
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.  
 3. The Chain of Custody is a legal document. All information must be completed accurately.

## Review of Laboratory Analysis Report

Client: City of Houston Date: October 11, 2013

Project: Montrose-Midtown Phase II ESA Reviewed by: K. Scheller

Project No.: 136524, Task 001 Project Manager: R. Voran

Laboratory Report No.: 1310133 Revised (ALS Environmental, Houston, TX). Samples collected on 10-1-2013.

1. The following are attached to report:

- |   |                                     |     |                                     |    |                          |     |
|---|-------------------------------------|-----|-------------------------------------|----|--------------------------|-----|
| Completed Chain-of-Custody  | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| Analytical results for all requested analyses   | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| QA/QC reports for each analytical method  | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| 2. Did received temperature meet method criteria?   | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| 3. Were extractions and analyses performed using appropriate method and prior to elapse of holding times?   | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| 4. Do detection limits meet regulatory or project requirements?   | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| 5. Are data for percent recovery and relative percent difference (RPD) for matrix spikes (MS) and matrix spike duplicates (MSD) within acceptable ranges? | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no | <input type="checkbox"/> | N/A |
| 6. Are data for percent recovery and RPD for blank spike and blank spike duplicates (BS/BSD or LCS/LSCD) within acceptable ranges?                        | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| 7. Were the surrogates recovered within acceptable ranges?  | <input type="checkbox"/>            | yes | <input checked="" type="checkbox"/> | no | <input type="checkbox"/> | N/A |
| 8. Were any compounds/metals reported in the method blanks?   | <input type="checkbox"/>            | yes | <input checked="" type="checkbox"/> | no |                          |     |
| 9. Are analytical data for field blanks, trip blanks, and duplicates acceptable?  | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no | <input type="checkbox"/> | N/A |

9. Notes:

5). Project sample B-40 (12-14) was the only sample used as a MS/MSD sample and only for the analyses of BTEX in soil. Percent recoveries and RPDs met criteria. The matrix effect could not be evaluated for the other types of analyses since no other project samples were used for MS/MSD analyses.

7). One of the two TPH surrogates for sample B-42 (12-14) was recovered above criteria. Due to this, the TPH concentration in that sample is qualified as estimated with a high bias ("JH" qualified).

9). A trip blank sample was submitted to the laboratory but not analyzed.

It should be noted that some of the concentrations were reported between the sample detection limite (SDL) and the method quantitation limit (MQL) and qualified by the laboratory as estimated values ("J" qualified). As a result of the data quality review, these "J" qualified data remain qualified as such, unless they were qualified by the reviewer as listed above.



16-Oct-2013

Jordan Smith  
Kleinfelder  
12000 Aerospace Ave.  
Suite 450  
Houston, TX 77034

Tel: (281) 922-4766  
Fax: (281) 922-4767

Re: COH Montrose-Midtown Phase II ES

Work Order: **1310297**

Dear Jordan,

ALS Environmental received 6 samples on 03-Oct-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is **43**.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in cursive script that reads "Sonia West".

Electronically approved by: Sonia West

Sonia West  
Project Manager



Certificate No: TX: T104704231-13-12

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

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Environmental ALS Environmental logo icon consisting of a stylized green and blue shape.

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RIGHT SOLUTIONS RIGHT PARTNER

**Client:** Kleinfelder  
**Project:** COH Montrose-Midtown Phase II ES  
**Work Order:** 1310297

**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1310297-01	B-48 (10-12)	Soil		10/2/2013 12:30	10/3/2013	<input type="checkbox"/>
1310297-02	B-48	Water		10/2/2013 12:45	10/3/2013	<input type="checkbox"/>
1310297-03	B-49 (6-8)	Soil		10/2/2013 14:35	10/3/2013	<input type="checkbox"/>
1310297-04	B-46	Water		10/2/2013 14:55	10/3/2013	<input type="checkbox"/>
1310297-05	IDW	Soil		10/2/2013 16:00	10/3/2013	<input type="checkbox"/>
1310297-06	Trip Blank	Water	090613-22	10/2/2013	10/3/2013	<input type="checkbox"/>

---

**Client:** Kleinfelder  
**Project:** COH Montrose-Midtown Phase II ES  
**Work Order:** 1310297

---

**Case Narrative**

Batch 73646, TPH TX1005, Sample 1310274-01A: MS/MSD are for an unrelated sample.

Batch R154970, BTEX 8021B, Sample 1310278-20A: MS/MSD are for an unrelated sample.

Batch R155130, BTEX 8021B, Sample 1310280-12A: MS/MSD are for an unrelated sample.

Batch 73629, Total Mercury 7471A, Sample IDW (1310297-05C): The Dup RPD was outside of the control limits. The MS/MSD recoveries and RPD were within the control limits.

Batch 73634, Total Metals 6020, Sample IDW (1310297-05C): The MS/MSD recoveries were outside of the control limits due to matrix interference for Barium.

Batch R155141, Volatile Organics 8260, Sample 1310389-01A: MS/MSD are for an unrelated sample.

# ALS Environmental

Date: 16-Oct-13

**Client:** Kleinfelder

**Project:** COH Montrose-Midtown Phase II ES

**Work Order:** 1310297

**Sample ID:** B-48 (10-12)

**Lab ID:** 1310297-01

**Collection Date:** 10/2/2013 12:30 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/7/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	ND		50	mg/Kg	1	10/8/2013 10:52 AM
>nC12 to nC28	ND		50	mg/Kg	1	10/8/2013 10:52 AM
>nC28 to nC35	ND		50	mg/Kg	1	10/8/2013 10:52 AM
Total Petroleum Hydrocarbon	ND		50	mg/Kg	1	10/8/2013 10:52 AM
<i>Surr: 2-Fluorobiphenyl</i>	88.8		70-130	%REC	1	10/8/2013 10:52 AM
<i>Surr: Trifluoromethyl benzene</i>	88.7		70-130	%REC	1	10/8/2013 10:52 AM
<b>BTEX</b>			<b>SW8021B</b>			Analyst: <b>DNR</b>
m,p-Xylene	ND		0.0020	mg/Kg	1	10/7/2013 10:00 PM
o-Xylene	ND		0.0010	mg/Kg	1	10/7/2013 10:00 PM
Benzene	ND		0.0010	mg/Kg	1	10/7/2013 10:00 PM
Toluene	ND		0.0010	mg/Kg	1	10/7/2013 10:00 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	10/7/2013 10:00 PM
Methyl tert-butyl ether	ND		0.0050	mg/Kg	1	10/7/2013 10:00 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	10/7/2013 10:00 PM
<i>Surr: 4-Bromofluorobenzene</i>	104		75-131	%REC	1	10/7/2013 10:00 PM
<i>Surr: Trifluorotoluene</i>	117		73-130	%REC	1	10/7/2013 10:00 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 16-Oct-13

**Client:** Kleinfelder

**Project:** COH Montrose-Midtown Phase II ES

**Work Order:** 1310297

**Sample ID:** B-48

**Lab ID:** 1310297-02

**Collection Date:** 10/2/2013 12:45 PM

**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>LOW-LEVEL TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/10/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	ND		0.48	mg/L	1	10/10/2013 02:47 PM
>nC12 to nC28	ND		0.48	mg/L	1	10/10/2013 02:47 PM
>nC28 to nC35	ND		0.48	mg/L	1	10/10/2013 02:47 PM
Total Petroleum Hydrocarbon	ND		0.48	mg/L	1	10/10/2013 02:47 PM
<i>Surr: 2-Fluorobiphenyl</i>	71.2		70-130	%REC	1	10/10/2013 02:47 PM
<i>Surr: Trifluoromethyl benzene</i>	76.3		70-130	%REC	1	10/10/2013 02:47 PM
<b>BTEX BY SW8021B</b>			<b>SW8021B</b>			Analyst: <b>DNR</b>
<b>m,p-Xylene</b>	<b>2.3</b>		<b>2.0</b>	<b>µg/L</b>	1	10/9/2013 05:05 PM
o-Xylene	ND		1.0	µg/L	1	10/9/2013 05:05 PM
<b>Benzene</b>	<b>130</b>		<b>1.0</b>	<b>µg/L</b>	1	10/9/2013 05:05 PM
<b>Toluene</b>	<b>96</b>		<b>1.0</b>	<b>µg/L</b>	1	10/9/2013 05:05 PM
<b>Ethylbenzene</b>	<b>3.0</b>		<b>1.0</b>	<b>µg/L</b>	1	10/9/2013 05:05 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	10/9/2013 05:05 PM
Xylenes, Total	ND		3.0	µg/L	1	10/9/2013 05:05 PM
<i>Surr: 4-Bromofluorobenzene</i>	85.1		75-129	%REC	1	10/9/2013 05:05 PM
<i>Surr: Trifluorotoluene</i>	91.4		75-130	%REC	1	10/9/2013 05:05 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 16-Oct-13

**Client:** Kleinfelder

**Project:** COH Montrose-Midtown Phase II ES

**Work Order:** 1310297

**Sample ID:** B-49 (6-8)

**Lab ID:** 1310297-03

**Collection Date:** 10/2/2013 02:35 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/7/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	ND		50	mg/Kg	1	10/8/2013 12:31 PM
>nC12 to nC28	ND		50	mg/Kg	1	10/8/2013 12:31 PM
>nC28 to nC35	ND		50	mg/Kg	1	10/8/2013 12:31 PM
Total Petroleum Hydrocarbon	ND		50	mg/Kg	1	10/8/2013 12:31 PM
<i>Surr: 2-Fluorobiphenyl</i>	89.9		70-130	%REC	1	10/8/2013 12:31 PM
<i>Surr: Trifluoromethyl benzene</i>	90.5		70-130	%REC	1	10/8/2013 12:31 PM
<b>BTEX</b>			<b>SW8021B</b>			Analyst: <b>DNR</b>
m,p-Xylene	ND		0.0020	mg/Kg	1	10/7/2013 10:17 PM
o-Xylene	ND		0.0010	mg/Kg	1	10/7/2013 10:17 PM
Benzene	ND		0.0010	mg/Kg	1	10/7/2013 10:17 PM
Toluene	ND		0.0010	mg/Kg	1	10/7/2013 10:17 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	10/7/2013 10:17 PM
Methyl tert-butyl ether	ND		0.0050	mg/Kg	1	10/7/2013 10:17 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	10/7/2013 10:17 PM
<i>Surr: 4-Bromofluorobenzene</i>	105		75-131	%REC	1	10/7/2013 10:17 PM
<i>Surr: Trifluorotoluene</i>	119		73-130	%REC	1	10/7/2013 10:17 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 16-Oct-13

**Client:** Kleinfelder

**Project:** COH Montrose-Midtown Phase II ES

**Work Order:** 1310297

**Sample ID:** B-46

**Lab ID:** 1310297-04

**Collection Date:** 10/2/2013 02:55 PM

**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>LOW-LEVEL TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/10/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	ND		0.49	mg/L	1	10/10/2013 04:25 PM
>nC12 to nC28	ND		0.49	mg/L	1	10/10/2013 04:25 PM
>nC28 to nC35	ND		0.49	mg/L	1	10/10/2013 04:25 PM
Total Petroleum Hydrocarbon	ND		0.49	mg/L	1	10/10/2013 04:25 PM
<i>Surr: 2-Fluorobiphenyl</i>	81.8		70-130	%REC	1	10/10/2013 04:25 PM
<i>Surr: Trifluoromethyl benzene</i>	86.4		70-130	%REC	1	10/10/2013 04:25 PM
<b>BTEX BY SW8021B</b>			<b>SW8021B</b>			Analyst: <b>DNR</b>
m,p-Xylene	ND		2.0	µg/L	1	10/9/2013 05:23 PM
o-Xylene	ND		1.0	µg/L	1	10/9/2013 05:23 PM
Benzene	ND		1.0	µg/L	1	10/9/2013 05:23 PM
Toluene	ND		1.0	µg/L	1	10/9/2013 05:23 PM
Ethylbenzene	ND		1.0	µg/L	1	10/9/2013 05:23 PM
Xylenes, Total	ND		3.0	µg/L	1	10/9/2013 05:23 PM
<i>Surr: 4-Bromofluorobenzene</i>	87.3		75-129	%REC	1	10/9/2013 05:23 PM
<i>Surr: Trifluorotoluene</i>	83.7		75-130	%REC	1	10/9/2013 05:23 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 16-Oct-13

**Client:** Kleinfelder

**Project:** COH Montrose-Midtown Phase II ES

**Work Order:** 1310297

**Sample ID:** IDW

**Lab ID:** 1310297-05

**Collection Date:** 10/2/2013 04:00 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/7/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	ND		50	mg/Kg	1	10/8/2013 01:04 PM
>nC12 to nC28	ND		50	mg/Kg	1	10/8/2013 01:04 PM
>nC28 to nC35	ND		50	mg/Kg	1	10/8/2013 01:04 PM
Total Petroleum Hydrocarbon	ND		50	mg/Kg	1	10/8/2013 01:04 PM
<i>Surr: 2-Fluorobiphenyl</i>	93.6		70-130	%REC	1	10/8/2013 01:04 PM
<i>Surr: Trifluoromethyl benzene</i>	93.3		70-130	%REC	1	10/8/2013 01:04 PM
<b>MERCURY - SW7471B</b>			<b>SW7471A</b>		Prep Date: <b>10/7/2013</b>	Analyst: <b>OFO</b>
Mercury	0.00505		0.00340	mg/Kg	1	10/7/2013 03:25 PM
<b>METALS</b>			<b>SW6020</b>		Prep Date: <b>10/7/2013</b>	Analyst: <b>ALR</b>
Arsenic	2.05		0.458	mg/Kg	1	10/8/2013 12:19 AM
Barium	109		0.458	mg/Kg	1	10/8/2013 12:19 AM
Cadmium	ND		0.458	mg/Kg	1	10/8/2013 12:19 AM
Chromium	5.83		0.458	mg/Kg	1	10/8/2013 12:19 AM
Lead	5.05		0.458	mg/Kg	1	10/8/2013 12:19 AM
Selenium	ND		0.458	mg/Kg	1	10/8/2013 12:19 AM
Silver	ND		0.458	mg/Kg	1	10/8/2013 12:19 AM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
1,1,1-Trichloroethane	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
1,1,2,2-Tetrachloroethane	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
1,1,2-Trichloroethane	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
1,1-Dichloroethane	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
1,1-Dichloroethene	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
1,2,4-Trichlorobenzene	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
1,2-Dibromo-3-chloropropane	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
1,2-Dibromoethane	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
1,2-Dichlorobenzene	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
1,2-Dichloroethane	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
1,2-Dichloropropane	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
1,3-Dichlorobenzene	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
1,4-Dichlorobenzene	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
2-Butanone	ND		0.010	mg/Kg	1	10/7/2013 04:54 PM
2-Hexanone	ND		0.010	mg/Kg	1	10/7/2013 04:54 PM
4-Methyl-2-pentanone	ND		0.010	mg/Kg	1	10/7/2013 04:54 PM
Acetone	ND		0.020	mg/Kg	1	10/7/2013 04:54 PM
Benzene	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
Bromodichloromethane	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 16-Oct-13

**Client:** Kleinfelder

**Project:** COH Montrose-Midtown Phase II ES

**Work Order:** 1310297

**Sample ID:** IDW

**Lab ID:** 1310297-05

**Collection Date:** 10/2/2013 04:00 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
Bromomethane	ND		0.010	mg/Kg	1	10/7/2013 04:54 PM
Carbon disulfide	ND		0.010	mg/Kg	1	10/7/2013 04:54 PM
Carbon tetrachloride	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
Chlorobenzene	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
Chloroethane	ND		0.010	mg/Kg	1	10/7/2013 04:54 PM
Chloroform	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
Chloromethane	ND		0.010	mg/Kg	1	10/7/2013 04:54 PM
cis-1,2-Dichloroethene	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
cis-1,3-Dichloropropene	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
Cyclohexane	ND	n	0.0050	mg/Kg	1	10/7/2013 04:54 PM
Dibromochloromethane	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
Dichlorodifluoromethane	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
Dichloromethane	ND		0.010	mg/Kg	1	10/7/2013 04:54 PM
Ethylbenzene	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
Isopropylbenzene	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
m,p-Xylene	ND		0.010	mg/Kg	1	10/7/2013 04:54 PM
Methyl acetate	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
Methyl tert-butyl ether	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
Methylcyclohexane	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
o-Xylene	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
Styrene	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
Tetrachloroethene	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
Toluene	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
trans-1,2-Dichloroethene	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
trans-1,3-Dichloropropene	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
Trichloroethene	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
Trichlorofluoromethane	ND		0.0050	mg/Kg	1	10/7/2013 04:54 PM
Vinyl chloride	ND		0.0020	mg/Kg	1	10/7/2013 04:54 PM
Xylenes, Total	ND		0.015	mg/Kg	1	10/7/2013 04:54 PM
Surr: 1,2-Dichloroethane-d4	93.9		70-128	%REC	1	10/7/2013 04:54 PM
Surr: 4-Bromofluorobenzene	96.9		73-126	%REC	1	10/7/2013 04:54 PM
Surr: Dibromofluoromethane	97.8		71-128	%REC	1	10/7/2013 04:54 PM
Surr: Toluene-d8	100		73-127	%REC	1	10/7/2013 04:54 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 16-Oct-13

**Client:** Kleinfelder

**Project:** COH Montrose-Midtown Phase II ES

**Work Order:** 1310297

**Sample ID:** Trip Blank

**Lab ID:** 1310297-06

**Collection Date:** 10/2/2013

**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>PC</b>
1,1,1-Trichloroethane	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
1,1,2,2-Tetrachloroethane	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
1,1,2-Trichloroethane	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
1,1-Dichloroethane	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
1,1-Dichloroethene	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
1,2,4-Trichlorobenzene	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
1,2-Dibromo-3-chloropropane	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
1,2-Dibromoethane	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
1,2-Dichlorobenzene	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
1,2-Dichloroethane	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
1,2-Dichloropropane	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
1,3-Dichlorobenzene	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
1,4-Dichlorobenzene	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
2-Butanone	ND		0.010	mg/L	1	10/9/2013 02:19 PM
2-Hexanone	ND		0.010	mg/L	1	10/9/2013 02:19 PM
4-Methyl-2-pentanone	ND		0.010	mg/L	1	10/9/2013 02:19 PM
Acetone	ND		0.010	mg/L	1	10/9/2013 02:19 PM
Benzene	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
Bromodichloromethane	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
Bromoform	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
Bromomethane	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
Carbon disulfide	ND		0.010	mg/L	1	10/9/2013 02:19 PM
Carbon tetrachloride	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
Chlorobenzene	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
Chloroethane	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
Chloroform	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
Chloromethane	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
cis-1,2-Dichloroethene	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
cis-1,3-Dichloropropene	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
Cyclohexane	ND	n	0.0050	mg/L	1	10/9/2013 02:19 PM
Dibromochloromethane	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
Dichlorodifluoromethane	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
Dichloromethane	ND		0.010	mg/L	1	10/9/2013 02:19 PM
Ethylbenzene	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
Isopropylbenzene	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
m,p-Xylene	ND		0.010	mg/L	1	10/9/2013 02:19 PM
Methyl acetate	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
Methyl tert-butyl ether	ND		0.0050	mg/L	1	10/9/2013 02:19 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 16-Oct-13

**Client:** Kleinfelder

**Project:** COH Montrose-Midtown Phase II ES

**Work Order:** 1310297

**Sample ID:** Trip Blank

**Lab ID:** 1310297-06

**Collection Date:** 10/2/2013

**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
o-Xylene	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
Styrene	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
Tetrachloroethene	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
Toluene	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
trans-1,2-Dichloroethene	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
trans-1,3-Dichloropropene	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
Trichloroethene	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
Trichlorofluoromethane	ND		0.0050	mg/L	1	10/9/2013 02:19 PM
Vinyl chloride	ND		0.0020	mg/L	1	10/9/2013 02:19 PM
Xylenes, Total	ND		0.015	mg/L	1	10/9/2013 02:19 PM
Surr: 1,2-Dichloroethane-d4	96.2		70-125	%REC	1	10/9/2013 02:19 PM
Surr: 4-Bromofluorobenzene	97.6		72-125	%REC	1	10/9/2013 02:19 PM
Surr: Dibromofluoromethane	102		71-125	%REC	1	10/9/2013 02:19 PM
Surr: Toluene-d8	94.9		75-125	%REC	1	10/9/2013 02:19 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**Work Order:** 1310297  
**Client:** Kleinfelder  
**Project:** COH Montrose-Midtown Phase II ES

**DATES REPORT**

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<b><u>Batch ID 73629</u></b> <b><u>Test Name: Mercury - SW7471B</u></b>						
1310297-05C	IDW	Soil	10/2/2013 4:00:00 PM		10/7/2013 10:19 AM	10/7/2013 03:25 PM
<b><u>Batch ID 73634</u></b> <b><u>Test Name: Metals</u></b>						
1310297-05C	IDW	Soil	10/2/2013 4:00:00 PM		10/7/2013 01:00 PM	10/8/2013 12:19 AM
<b><u>Batch ID 73646</u></b> <b><u>Test Name: Texas TPH - TX1005</u></b>						
1310297-01B	B-48 (10-12)	Soil	10/2/2013 12:30:00 PM		10/7/2013 03:56 PM	10/8/2013 10:52 AM
1310297-03B	B-49 (6-8)		10/2/2013 2:35:00 PM		10/7/2013 03:56 PM	10/8/2013 12:31 PM
1310297-05B	IDW		10/2/2013 4:00:00 PM		10/7/2013 03:56 PM	10/8/2013 01:04 PM
<b><u>Batch ID 73745</u></b> <b><u>Test Name: Low-level Texas TPH - TX1005</u></b>						
1310297-02B	B-48	Water	10/2/2013 12:45:00 PM		10/10/2013 11:28 AM	10/10/2013 02:47 PM
1310297-04B	B-46		10/2/2013 2:55:00 PM		10/10/2013 11:28 AM	10/10/2013 04:25 PM
<b><u>Batch ID R154864</u></b> <b><u>Test Name: TCL Volatiles - SW8260C</u></b>						
1310297-05A	IDW	Soil	10/2/2013 4:00:00 PM			10/7/2013 04:54 PM
<b><u>Batch ID R154970</u></b> <b><u>Test Name: BTEX</u></b>						
1310297-01A	B-48 (10-12)	Soil	10/2/2013 12:30:00 PM			10/7/2013 10:00 PM
1310297-03A	B-49 (6-8)		10/2/2013 2:35:00 PM			10/7/2013 10:17 PM
<b><u>Batch ID R155130</u></b> <b><u>Test Name: BTEX by SW8021B</u></b>						
1310297-02A	B-48	Water	10/2/2013 12:45:00 PM			10/9/2013 05:05 PM
1310297-04A	B-46		10/2/2013 2:55:00 PM			10/9/2013 05:23 PM
<b><u>Batch ID R155141</u></b> <b><u>Test Name: TCL Volatiles - SW8260C</u></b>						
1310297-06A	Trip Blank	Water	10/2/2013			10/9/2013 02:19 PM

ALS Environmental

Date: 16-Oct-13

Client: Kleinfelder  
 Work Order: 1310297  
 Project: COH Montrose-Midtown Phase II ES

QC BATCH REPORT

Batch ID: 73646 Instrument ID FID-12 Method: TX1005

MBLK		Sample ID: FBLKS1-131007-73646			Units: mg/Kg			Analysis Date: 10/8/2013 04:57 AM		
Client ID:		Run ID: FID-12_131007A			SeqNo: 3384230			Prep Date: 10/7/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	ND	50								
>nC12 to nC28	ND	50								
>nC28 to nC35	ND	50								
Total Petroleum Hydrocarbon	ND	50								
Surr: 2-Fluorobiphenyl	19.53	0	25	0	78.1	70-130	0			
Surr: Trifluoromethyl benzene	18.23	0	25	0	72.9	70-130	0			

LCS		Sample ID: FLCSS1-131007-73646			Units: mg/Kg			Analysis Date: 10/8/2013 05:29 AM		
Client ID:		Run ID: FID-12_131007A			SeqNo: 3384231			Prep Date: 10/7/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	265.6	50	250	0	106	75-125				
>nC12 to nC28	232.4	50	250	0	93	75-125				
Surr: 2-Fluorobiphenyl	28.26	0	25	0	113	70-130	0			
Surr: Trifluoromethyl benzene	22.47	0	25	0	89.9	70-130	0			

LCSD		Sample ID: FLCSDS1-131007-73646			Units: mg/Kg			Analysis Date: 10/8/2013 06:01 AM		
Client ID:		Run ID: FID-12_131007A			SeqNo: 3384232			Prep Date: 10/7/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	271.3	50	250	0	109	75-125	265.6	2.1	20	
>nC12 to nC28	223.9	50	250	0	89.6	75-125	232.4	3.73	20	
Surr: 2-Fluorobiphenyl	25.67	0	25	0	103	70-130	28.26	9.61	20	
Surr: Trifluoromethyl benzene	21.76	0	25	0	87.1	70-130	22.47	3.19	20	

MS		Sample ID: 1310274-01AMS			Units: mg/Kg			Analysis Date: 10/8/2013 07:05 AM		
Client ID:		Run ID: FID-12_131007A			SeqNo: 3384234			Prep Date: 10/7/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	272	50	248.5	0	109	75-125				
>nC12 to nC28	1754	50	248.5	1830	-30.5	75-125				SO
Surr: 2-Fluorobiphenyl	29.12	0	24.85	0	117	70-130	0			
Surr: Trifluoromethyl benzene	19.76	0	24.85	0	79.5	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 1310297  
**Project:** COH Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **73646**      Instrument ID **FID-12**      Method: **TX1005**

**MSD**      Sample ID: **1310274-01AMSD**      Units: **mg/Kg**      Analysis Date: **10/8/2013 07:37 AM**

Client ID:      Run ID: **FID-12\_131007A**      SeqNo: **3384235**      Prep Date: **10/7/2013**      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	265	50	249.5	0	106	75-125	272	2.62	20	
>nC12 to nC28	1564	50	249.5	1830	-107	75-125	1754	11.5	20	SO
<i>Surr: 2-Fluorobiphenyl</i>	25.82	0	24.95	0	103	70-130	29.12	12	20	
<i>Surr: Trifluoromethyl benzene</i>	18.4	0	24.95	0	73.7	70-130	19.76	7.16	20	

The following samples were analyzed in this batch:

1310297-01B	1310297-03B	1310297-05B
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310297  
 Project: COH Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: 73745 Instrument ID FID-13 Method: TX1005

**MBLK** Sample ID: FBLKW2-131010-73745 Units: mg/L Analysis Date: 10/10/2013 01:11 PM

Client ID: Run ID: FID-13\_131010A SeqNo: 3389579 Prep Date: 10/10/2013 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	ND	0.50								
>nC12 to nC28	ND	0.50								
>nC28 to nC35	ND	0.50								
Total Petroleum Hydrocarbon	ND	0.50								
Surr: 2-Fluorobiphenyl	1.791	0	2.5	0	71.6	70-130	0			
Surr: Trifluoromethyl benzene	1.971	0	2.5	0	78.9	70-130	0			

**LCS** Sample ID: FLCSW2-131010-73745 Units: mg/L Analysis Date: 10/10/2013 01:43 PM

Client ID: Run ID: FID-13\_131010A SeqNo: 3389580 Prep Date: 10/10/2013 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	25.42	0.50	25	0	102	75-125				
>nC12 to nC28	21.21	0.50	25	0	84.8	75-125				
Surr: 2-Fluorobiphenyl	2.377	0	2.5	0	95.1	70-130	0			
Surr: Trifluoromethyl benzene	1.925	0	2.5	0	77	70-130	0			

**LCSD** Sample ID: FLCSDW2-131010-73745 Units: mg/L Analysis Date: 10/10/2013 02:15 PM

Client ID: Run ID: FID-13\_131010A SeqNo: 3389581 Prep Date: 10/10/2013 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	25.14	0.50	25	0	101	75-125	25.42	1.12	20	
>nC12 to nC28	21.05	0.50	25	0	84.2	75-125	21.21	0.751	20	
Surr: 2-Fluorobiphenyl	1.989	0	2.5	0	79.6	70-130	2.377	17.8	20	
Surr: Trifluoromethyl benzene	1.867	0	2.5	0	74.7	70-130	1.925	3.03	20	

**MS** Sample ID: 1310297-02BMS Units: mg/L Analysis Date: 10/10/2013 03:20 PM

Client ID: B-48 Run ID: FID-13\_131010A SeqNo: 3389583 Prep Date: 10/10/2013 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	24.33	0.49	24.33	0	100	75-125				
>nC12 to nC28	20.69	0.49	24.33	0	85	75-125				
Surr: 2-Fluorobiphenyl	2.111	0	2.433	0	86.7	70-130	0			
Surr: Trifluoromethyl benzene	1.973	0	2.433	0	81.1	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 1310297  
**Project:** COH Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **73745**      Instrument ID **FID-13**      Method: **TX1005**

**MSD**      Sample ID: **1310297-02BMSD**      Units: **mg/L**      Analysis Date: **10/10/2013 03:52 PM**

Client ID: **B-48**      Run ID: **FID-13\_131010A**      SeqNo: **3389584**      Prep Date: **10/10/2013**      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	25.04	0.49	24.53	0	102	75-125	24.33	2.87	20	
>nC12 to nC28	20.86	0.49	24.53	0	85	75-125	20.69	0.801	20	
<i>Surr: 2-Fluorobiphenyl</i>	2.148	0	2.453	0	87.6	70-130	2.111	1.74	20	
<i>Surr: Trifluoromethyl benzene</i>	1.973	0	2.453	0	80.5	70-130	1.973	0.0106	20	

The following samples were analyzed in this batch:

1310297-02B	1310297-04B
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310297  
 Project: COH Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R154970** Instrument ID **BTEX3** Method: **SW8021B**

**MBLK** Sample ID: **BBLKS1-131007-R154970** Units: **µg/Kg** Analysis Date: **10/7/2013 07:25 PM**

Client ID: Run ID: **BTEX3\_131007B** SeqNo: **3383949** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether	ND	5.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	30.56	1.0	30	0	102	75-131	0			
Surr: Trifluorotoluene	35.88	1.0	30	0	120	73-130	0			

**LCS** Sample ID: **BLCSS1-131007-R154970** Units: **µg/Kg** Analysis Date: **10/7/2013 07:08 PM**

Client ID: Run ID: **BTEX3\_131007B** SeqNo: **3383948** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	41.73	2.0	40	0	104	74-127				
o-Xylene	20.19	1.0	20	0	101	74-127				
Benzene	19.31	1.0	20	0	96.5	74-129				
Toluene	20.35	1.0	20	0	102	75-128				
Ethylbenzene	20.41	1.0	20	0	102	73-127				
Methyl tert-butyl ether	102.2	5.0	100	0	102	73-128				
Xylenes, Total	61.92	3.0	60	0	103	74-127				
Surr: 4-Bromofluorobenzene	32.36	1.0	30	0	108	75-131	0			
Surr: Trifluorotoluene	35.99	1.0	30	0	120	73-130	0			

**MS** Sample ID: **1310278-20AMS** Units: **µg/Kg** Analysis Date: **10/7/2013 08:00 PM**

Client ID: Run ID: **BTEX3\_131007B** SeqNo: **3383951** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	10.6	2.0	40	0	26.5	74-127				S
o-Xylene	5.214	1.0	20	0	26.1	74-127				S
Benzene	8.601	1.0	20	0	43	74-129				S
Toluene	6.799	1.0	20	0	34	75-128				S
Ethylbenzene	5.274	1.0	20	0	26.4	73-127				S
Methyl tert-butyl ether	68.87	5.0	100	0	68.9	73-128				S
Xylenes, Total	15.81	3.0	60	0	26.4	74-127				S
Surr: 4-Bromofluorobenzene	31.94	1.0	30	0	106	75-131	0			
Surr: Trifluorotoluene	35.1	1.0	30	0	117	73-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310297  
 Project: COH Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R154970** Instrument ID **BTEX3** Method: **SW8021B**

MSD		Sample ID: <b>1310278-20AMSD</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>10/7/2013 08:17 PM</b>			
Client ID:		Run ID: <b>BTEX3_131007B</b>			SeqNo: <b>3383952</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
m,p-Xylene	9.983	2.0	40	0	25	74-127	10.6	5.96	30	S	
o-Xylene	4.912	1.0	20	0	24.6	74-127	5.214	5.97	30	S	
Benzene	7.65	1.0	20	0	38.2	74-129	8.601	11.7	30	S	
Toluene	6.253	1.0	20	0	31.3	75-128	6.799	8.35	30	S	
Ethylbenzene	4.843	1.0	20	0	24.2	73-127	5.274	8.52	30	S	
Methyl tert-butyl ether	66.59	5.0	100	0	66.6	73-128	68.87	3.38	30	S	
Xylenes, Total	14.89	3.0	60	0	24.8	74-127	15.81	5.96	30	S	
<i>Surr: 4-Bromofluorobenzene</i>	32.47	1.0	30	0	108	75-131	31.94	1.64	30		
<i>Surr: Trifluorotoluene</i>	35.13	1.0	30	0	117	73-130	35.1	0.0981	30		

The following samples were analyzed in this batch:

1310297-01A	1310297-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310297  
 Project: COH Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: R155130 Instrument ID BTEX1 Method: SW8021B

**MBLK** Sample ID: BBLKW1-131009-R155130 Units: µg/L Analysis Date: 10/9/2013 10:55 AM

Client ID: Run ID: BTEX1\_131009B SeqNo: 3387200 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether	ND	5.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	26	1.0	30	0	86.7	75-129	0			
Surr: Trifluorotoluene	24.63	1.0	30	0	82.1	75-130	0			

**LCS** Sample ID: BLCSW1-131009-R155130 Units: µg/L Analysis Date: 10/9/2013 10:20 AM

Client ID: Run ID: BTEX1\_131009B SeqNo: 3387199 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	35.64	2.0	40	0	89.1	75-125				
o-Xylene	17.66	1.0	20	0	88.3	75-125				
Benzene	17.21	1.0	20	0	86	75-126				
Toluene	17.54	1.0	20	0	87.7	75-125				
Ethylbenzene	17.79	1.0	20	0	88.9	75-125				
Methyl tert-butyl ether	91.65	5.0	100	0	91.7	75-128				
Xylenes, Total	53.3	3.0	60	0	88.8	75-125				
Surr: 4-Bromofluorobenzene	26.69	1.0	30	0	89	75-129	0			
Surr: Trifluorotoluene	25.04	1.0	30	0	83.5	75-130	0			

**MS** Sample ID: 1310280-12AMS Units: µg/L Analysis Date: 10/9/2013 02:07 PM

Client ID: Run ID: BTEX1\_131009B SeqNo: 3387202 Prep Date: DF: 50

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	2208	100	2000	0	110	75-125				
o-Xylene	1028	50	1000	0	103	75-125				
Benzene	967.5	50	1000	34.08	93.3	75-126				
Toluene	3092	50	1000	2001	109	75-125				
Ethylbenzene	1852	50	1000	974.1	87.8	75-125				
Methyl tert-butyl ether	4779	250	5000	227.4	91	75-128				
Xylenes, Total	3236	150	3000	0	108	75-125				
Surr: 4-Bromofluorobenzene	2056	50	1500	0	137	75-129	0			S
Surr: Trifluorotoluene	2061	50	1500	0	137	75-130	0			S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310297  
 Project: COH Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R155130** Instrument ID **BTEX1** Method: **SW8021B**

MSD Sample ID: **1310280-12AMSD** Units: **µg/L** Analysis Date: **10/9/2013 02:25 PM**

Client ID: Run ID: **BTEX1\_131009B** SeqNo: **3387203** Prep Date: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	2047	100	2000	0	102	75-125	2208	7.53	20	
o-Xylene	954.7	50	1000	0	95.5	75-125	1028	7.39	20	
Benzene	937.4	50	1000	34.08	90.3	75-126	967.5	3.16	20	
Toluene	2951	50	1000	2001	95.1	75-125	3092	4.65	20	
Ethylbenzene	1683	50	1000	974.1	70.9	76-125	1852	9.55	20	S
Methyl tert-butyl ether	4561	250	5000	227.4	86.7	75-128	4779	4.67	20	
Xylenes, Total	3002	150	3000	0	100	75-125	3236	7.49	20	
<i>Surr: 4-Bromofluorobenzene</i>	2028	50	1500	0	135	75-129	2056	1.34	20	S
<i>Surr: Trifluorotoluene</i>	1935	50	1500	0	129	75-130	2061	6.34	20	

The following samples were analyzed in this batch: 1310297-02A 1310297-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310297  
 Project: COH Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: 73629 Instrument ID HG03 Method: SW7471A

MBLK		Sample ID: GBLKS1-100713-73629				Units: µg/Kg		Analysis Date: 10/7/2013 03:21 PM			
Client ID:		Run ID: HG03_131007B				SeqNo: 3383469		Prep Date: 10/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	ND	3.32									

LCS		Sample ID: GLCSS1-100713-73629				Units: µg/Kg		Analysis Date: 10/7/2013 03:23 PM			
Client ID:		Run ID: HG03_131007B				SeqNo: 3383470		Prep Date: 10/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	360.7	3.32	333.3	0	108	85-115					

MS		Sample ID: 1310297-05CMS				Units: µg/Kg		Analysis Date: 10/7/2013 03:28 PM			
Client ID: IDW		Run ID: HG03_131007B				SeqNo: 3383473		Prep Date: 10/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	298	3.39	339.4	5.05	86.3	85-115					

MSD		Sample ID: 1310297-05CMSD				Units: µg/Kg		Analysis Date: 10/7/2013 03:30 PM			
Client ID: IDW		Run ID: HG03_131007B				SeqNo: 3383474		Prep Date: 10/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	301.5	3.38	338.8	5.05	87.5	85-115	298	1.15	20		

DUP		Sample ID: 1310297-05CDUP				Units: µg/Kg		Analysis Date: 10/7/2013 03:26 PM			
Client ID: IDW		Run ID: HG03_131007B				SeqNo: 3383472		Prep Date: 10/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	3.879	3.39					5.05	26.2	20	R	

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310297  
 Project: COH Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: 73634 Instrument ID ICP7500 Method: SW6020

MBLK		Sample ID: MBLKS2-100713-73634			Units: mg/Kg			Analysis Date: 10/8/2013 12:09 AM		
Client ID:		Run ID: ICP7500_131007A			SeqNo: 3384358		Prep Date: 10/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.500								
Barium	ND	0.500								
Cadmium	ND	0.500								
Chromium	ND	0.500								
Lead	ND	0.500								
Selenium	ND	0.500								
Silver	ND	0.500								

LCS		Sample ID: MLCSS2-100713-73634			Units: mg/Kg			Analysis Date: 10/8/2013 12:14 AM		
Client ID:		Run ID: ICP7500_131007A			SeqNo: 3384359		Prep Date: 10/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.293	0.500	10	0	92.9	80-120				
Barium	9.774	0.500	10	0	97.7	80-120				
Cadmium	9.641	0.500	10	0	96.4	80-120				
Chromium	9.759	0.500	10	0	97.6	80-120				
Lead	9.633	0.500	10	0	96.3	80-120				
Selenium	9.274	0.500	10	0	92.7	80-120				
Silver	9.632	0.500	10	0	96.3	80-120				

MS		Sample ID: 1310297-05CMS			Units: mg/Kg			Analysis Date: 10/8/2013 12:34 AM		
Client ID: IDW		Run ID: ICP7500_131007A			SeqNo: 3384363		Prep Date: 10/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.934	0.457	9.147	2.051	86.2	75-125				
Barium	120.7	0.457	9.147	108.8	130	75-125				SO
Cadmium	8.136	0.457	9.147	0.04556	88.4	75-125				
Chromium	15.25	0.457	9.147	5.831	103	75-125				
Lead	14.1	0.457	9.147	5.051	98.9	75-125				
Selenium	7.522	0.457	9.147	0.3611	78.3	75-125				
Silver	8.083	0.457	9.147	-0.008877	88.5	75-125				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310297  
 Project: COH Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: 73634 Instrument ID ICP7500 Method: SW6020

**MSD** Sample ID: 1310297-05CMSD Units: mg/Kg Analysis Date: 10/8/2013 12:39 AM

Client ID: IDW Run ID: ICP7500\_131007A SeqNo: 3384364 Prep Date: 10/7/2013 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.782	0.457	9.142	2.051	84.6	75-125	9.934	1.55	25	
Barium	124.9	0.457	9.142	108.8	176	75-125	120.7	3.36	25	SO
Cadmium	8.485	0.457	9.142	0.04556	92.3	75-125	8.136	4.21	25	
Chromium	15.53	0.457	9.142	5.831	106	75-125	15.25	1.84	25	
Lead	13.31	0.457	9.142	5.051	90.3	75-125	14.1	5.74	25	
Selenium	7.503	0.457	9.142	0.3611	78.1	75-125	7.522	0.259	25	
Silver	8.265	0.457	9.142	-0.008877	90.5	75-125	8.083	2.23	25	

**DUP** Sample ID: 1310297-05CDUP Units: mg/Kg Analysis Date: 10/8/2013 12:24 AM

Client ID: IDW Run ID: ICP7500\_131007A SeqNo: 3384361 Prep Date: 10/7/2013 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.977	0.457					2.051	3.68	25	
Barium	109.7	0.457					108.8	0.777	25	
Cadmium	ND	0.457					0.04556	0	25	
Chromium	6.226	0.457					5.831	6.55	25	
Lead	5.009	0.457					5.051	0.83	25	
Selenium	ND	0.457					0.3611	0	25	
Silver	ND	0.457					-0.008877	0	25	

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 1310297  
**Project:** COH Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R154864**      Instrument ID **VOA5**      Method: **SW8260**

**MBLK**      Sample ID: **VBLKS1-100713-R154864**      Units: **µg/Kg**      Analysis Date: **10/7/2013 10:14 AM**

Client ID:      Run ID: **VOA5\_131007A**      SeqNo: **3383027**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2-Butanone	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	20								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	10								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	10								
Chloroform	ND	5.0								
Chloromethane	ND	10								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Cyclohexane	ND	5.0								
Dibromochloromethane	ND	5.0								
Dichlorodifluoromethane	ND	5.0								
Dichloromethane	ND	10								
Ethylbenzene	ND	5.0								
Isopropylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methyl acetate	ND	5.0								

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 1310297  
**Project:** COH Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R154864</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>						
Methyl tert-butyl ether	ND	5.0						
Methylcyclohexane	ND	5.0						
o-Xylene	ND	5.0						
Styrene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,2-Dichloroethene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Trichlorofluoromethane	ND	5.0						
Vinyl chloride	ND	2.0						
Xylenes, Total	ND	10						
<i>Surr: 1,2-Dichloroethane-d4</i>	45.24	0	50	0	90.5	70-128	0	
<i>Surr: 4-Bromofluorobenzene</i>	48.59	0	50	0	97.2	73-126	0	
<i>Surr: Dibromofluoromethane</i>	47.66	0	50	0	95.3	71-128	0	
<i>Surr: Toluene-d8</i>	50.34	0	50	0	101	73-127	0	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 1310297  
**Project:** COH Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R154864**      Instrument ID **VOA5**      Method: **SW8260**

**LCS**      Sample ID: **VLCSS1-100713-R154864**      Units: **µg/Kg**      Analysis Date: **10/7/2013 09:27 AM**

Client ID:      Run ID: **VOA5\_131007A**      SeqNo: **3383026**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	53.77	5.0	50	0	108	79-124				
1,1,2,2-Tetrachloroethane	48.79	5.0	50	0	97.6	75-123				
1,1,2-Trichlor-1,2,2-trifluoroethane	56.63	5.0	50	0	113	79-125				
1,1,2-Trichloroethane	48.97	5.0	50	0	97.9	79-120				
1,1-Dichloroethane	48.73	5.0	50	0	97.5	75-124				
1,1-Dichloroethene	55.49	5.0	50	0	111	80-122				
1,2,4-Trichlorobenzene	54.66	5.0	50	0	109	74-128				
1,2-Dibromo-3-chloropropane	43.35	5.0	50	0	86.7	66-129				
1,2-Dibromoethane	47.69	5.0	50	0	95.4	70-120				
1,2-Dichlorobenzene	49.03	5.0	50	0	98.1	75-120				
1,2-Dichloroethane	47.26	5.0	50	0	94.5	73-121				
1,2-Dichloropropane	48.19	5.0	50	0	96.4	76-120				
1,3-Dichlorobenzene	49.46	5.0	50	0	98.9	70-125				
1,4-Dichlorobenzene	48.75	5.0	50	0	97.5	77-120				
2-Butanone	94.07	10	100	0	94.1	65-130				
2-Hexanone	93.95	10	100	0	93.9	65-133				
4-Methyl-2-pentanone	94.66	10	100	0	94.7	69-130				
Acetone	84.19	20	100	0	84.2	53-142				
Benzene	49.54	5.0	50	0	99.1	79-120				
Bromodichloromethane	47.71	5.0	50	0	95.4	79-121				
Bromoform	52.16	5.0	50	0	104	74-122				
Bromomethane	43.96	10	50	0	87.9	68-131				
Carbon disulfide	109.8	10	100	0	110	80-124				
Carbon tetrachloride	56.65	5.0	50	0	113	74-126				
Chlorobenzene	48.58	5.0	50	0	97.2	79-120				
Chloroethane	49.43	10	50	0	98.9	76-126				
Chloroform	48.14	5.0	50	0	96.3	78-120				
Chloromethane	47.26	10	50	0	94.5	69-129				
cis-1,2-Dichloroethene	47.94	5.0	50	0	95.9	80-120				
cis-1,3-Dichloropropene	50.79	5.0	50	0	102	77-123				
Cyclohexane	55.93	5.0	50	0	112	74-126				
Dibromochloromethane	50.86	5.0	50	0	102	78-122				
Dichlorodifluoromethane	54.1	5.0	50	0	108	57-140				
Dichloromethane	43.85	10	50	0	87.7	62-130				
Ethylbenzene	50.54	5.0	50	0	101	80-122				
Isopropylbenzene	52.7	5.0	50	0	105	72-127				
m,p-Xylene	101.5	10	100	0	101	79-122				
Methyl acetate	40.61	5.0	50	0	81.2	69-123				

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 1310297  
**Project:** COH Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R154864</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	48.13	5.0	50	0	96.3	76-121	
Methylcyclohexane	57.23	5.0	50	0	114	77-126	
o-Xylene	49.61	5.0	50	0	99.2	80-123	
Styrene	49.59	5.0	50	0	99.2	78-124	
Tetrachloroethene	45.31	5.0	50	0	90.6	73-129	
Toluene	49.29	5.0	50	0	98.6	79-120	
trans-1,2-Dichloroethene	51.21	5.0	50	0	102	79-122	
trans-1,3-Dichloropropene	48.93	5.0	50	0	97.9	77-120	
Trichloroethene	50.7	5.0	50	0	101	80-121	
Trichlorofluoromethane	60.63	5.0	50	0	121	75-126	
Vinyl chloride	53.17	2.0	50	0	106	76-126	
Xylenes, Total	151.1	10	150	0	101	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	47.99	0	50	0	96	70-128	0
<i>Surr: 4-Bromofluorobenzene</i>	48.06	0	50	0	96.1	73-126	0
<i>Surr: Dibromofluoromethane</i>	49.9	0	50	0	99.8	71-128	0
<i>Surr: Toluene-d8</i>	49.6	0	50	0	99.2	73-127	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 1310297  
**Project:** COH Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R154864**      Instrument ID **VOA5**      Method: **SW8260**

MS		Sample ID: <b>1310205-01AMS</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>10/7/2013 11:47 AM</b>			
Client ID:		Run ID: <b>VOA5_131007A</b>			SeqNo: <b>3383104</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	57.79	5.0	50	0	116	79-124				
1,1,2,2-Tetrachloroethane	49.13	5.0	50	0	98.3	75-123				
1,1,2-Trichlor-1,2,2-trifluoroethane	59.83	5.0	50	0	120	79-125				
1,1,2-Trichloroethane	50.96	5.0	50	0	102	79-120				
1,1-Dichloroethane	51.56	5.0	50	0	103	75-124				
1,1-Dichloroethene	54.44	5.0	50	0	109	80-122				
1,2,4-Trichlorobenzene	53.03	5.0	50	0	106	74-128				
1,2-Dibromo-3-chloropropane	45.83	5.0	50	0	91.7	66-129				
1,2-Dibromoethane	51.1	5.0	50	0	102	70-120				
1,2-Dichlorobenzene	52.11	5.0	50	0	104	75-120				
1,2-Dichloroethane	51.24	5.0	50	0	102	73-121				
1,2-Dichloropropane	51.3	5.0	50	0	103	76-120				
1,3-Dichlorobenzene	52.87	5.0	50	0	106	70-125				
1,4-Dichlorobenzene	51.76	5.0	50	0	104	77-120				
2-Butanone	96.69	10	100	0	96.7	65-130				
2-Hexanone	100.8	10	100	0	101	65-133				
4-Methyl-2-pentanone	101.2	10	100	0	101	69-130				
Acetone	117.9	20	100	0	118	53-142				
Benzene	53.31	5.0	50	0	107	79-120				
Bromodichloromethane	51.7	5.0	50	0	103	79-121				
Bromoform	53.94	5.0	50	0	108	74-122				
Bromomethane	47.23	10	50	0	94.5	68-131				
Carbon disulfide	116.8	10	100	0	117	80-124				
Carbon tetrachloride	61.94	5.0	50	0	124	74-126				
Chlorobenzene	53.19	5.0	50	0	106	79-120				
Chloroethane	53.91	10	50	0	108	76-126				
Chloroform	52.06	5.0	50	0	104	78-120				
Chloromethane	48.16	10	50	0	96.3	69-129				
cis-1,2-Dichloroethene	49.16	5.0	50	0	98.3	80-120				
cis-1,3-Dichloropropene	52.74	5.0	50	0	105	77-123				
Cyclohexane	58.45	5.0	50	0	117	74-126				
Dibromochloromethane	53.33	5.0	50	0	107	78-122				
Dichlorodifluoromethane	58.32	5.0	50	0	117	57-140				
Dichloromethane	45.27	10	50	0	90.5	62-130				
Ethylbenzene	53.53	5.0	50	0	107	80-122				
Isopropylbenzene	55.7	5.0	50	0	111	72-127				
m,p-Xylene	109.3	10	100	0	109	79-122				
Methyl acetate	42	5.0	50	0	84	69-123				

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 1310297  
**Project:** COH Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R154864</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	49.5	5.0	50	0	99	76-121	
Methylcyclohexane	61.14	5.0	50	0	122	77-126	
o-Xylene	52.77	5.0	50	0	106	80-123	
Styrene	52.59	5.0	50	0	105	78-124	
Tetrachloroethene	69.17	5.0	50	0	138	73-129	S
Toluene	53.67	5.0	50	0	107	79-120	
trans-1,2-Dichloroethene	53.24	5.0	50	0	106	79-122	
trans-1,3-Dichloropropene	50.69	5.0	50	0	101	77-120	
Trichloroethene	60.35	5.0	50	0	121	80-121	
Trichlorofluoromethane	61.63	5.0	50	0	123	75-126	
Vinyl chloride	57.01	2.0	50	0	114	76-126	
Xylenes, Total	162.1	10	150	0	108	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	45.34	0	50	0	90.7	70-128	0
<i>Surr: 4-Bromofluorobenzene</i>	46.8	0	50	0	93.6	73-126	0
<i>Surr: Dibromofluoromethane</i>	47.52	0	50	0	95	71-128	0
<i>Surr: Toluene-d8</i>	49.72	0	50	0	99.4	73-127	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310297  
 Project: COH Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R154864** Instrument ID **VOA5** Method: **SW8260**

MSD		Sample ID: <b>1310205-01AMSD</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>10/7/2013 12:13 PM</b>		
Client ID:		Run ID: <b>VOA5_131007A</b>			SeqNo: <b>3383105</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	56.27	5.0	50	0	113	79-124	57.79	2.66	30	
1,1,2,2-Tetrachloroethane	41.17	5.0	50	0	82.3	75-123	49.13	17.6	30	
1,1,2-Trichlor-1,2,2-trifluoroethane	54.65	5.0	50	0	109	79-125	59.83	9.05	30	
1,1,2-Trichloroethane	46.41	5.0	50	0	92.8	79-120	50.96	9.36	30	
1,1-Dichloroethane	51.4	5.0	50	0	103	75-124	51.56	0.31	30	
1,1-Dichloroethene	55.2	5.0	50	0	110	80-122	54.44	1.38	30	
1,2,4-Trichlorobenzene	44.32	5.0	50	0	88.6	74-128	53.03	17.9	30	
1,2-Dibromo-3-chloropropane	36.45	5.0	50	0	72.9	66-129	45.83	22.8	30	
1,2-Dibromoethane	48.98	5.0	50	0	98	70-120	51.1	4.23	30	
1,2-Dichlorobenzene	42.68	5.0	50	0	85.4	75-120	52.11	19.9	30	
1,2-Dichloroethane	47.28	5.0	50	0	94.6	73-121	51.24	8.05	30	
1,2-Dichloropropane	48.2	5.0	50	0	96.4	76-120	51.3	6.23	30	
1,3-Dichlorobenzene	44.79	5.0	50	0	89.6	70-125	52.87	16.5	30	
1,4-Dichlorobenzene	44.91	5.0	50	0	89.8	77-120	51.76	14.2	30	
2-Butanone	95.94	10	100	0	95.9	65-130	96.69	0.782	30	
2-Hexanone	95.76	10	100	0	95.8	65-133	100.8	5.13	30	
4-Methyl-2-pentanone	94	10	100	0	94	69-130	101.2	7.41	30	
Acetone	113.8	20	100	0	114	53-142	117.9	3.53	30	
Benzene	50.53	5.0	50	0	101	79-120	53.31	5.35	30	
Bromodichloromethane	48.92	5.0	50	0	97.8	79-121	51.7	5.54	30	
Bromoform	49.92	5.0	50	0	99.8	74-122	53.94	7.74	30	
Bromomethane	45.88	10	50	0	91.8	68-131	47.23	2.91	30	
Carbon disulfide	110.9	10	100	0	111	80-124	116.8	5.17	30	
Carbon tetrachloride	54.8	5.0	50	0	110	74-126	61.94	12.2	30	
Chlorobenzene	47.14	5.0	50	0	94.3	79-120	53.19	12.1	30	
Chloroethane	50.76	10	50	0	102	76-126	53.91	6.02	30	
Chloroform	50.62	5.0	50	0	101	78-120	52.06	2.81	30	
Chloromethane	47.85	10	50	0	95.7	69-129	48.16	0.649	30	
cis-1,2-Dichloroethene	50.31	5.0	50	0	101	80-120	49.16	2.32	30	
cis-1,3-Dichloropropene	49.83	5.0	50	0	99.7	77-123	52.74	5.69	30	
Cyclohexane	54.55	5.0	50	0	109	74-126	58.45	6.9	30	
Dibromochloromethane	49.82	5.0	50	0	99.6	78-122	53.33	6.81	30	
Dichlorodifluoromethane	53.37	5.0	50	0	107	57-140	58.32	8.86	30	
Dichloromethane	45.95	10	50	0	91.9	62-130	45.27	1.48	30	
Ethylbenzene	48.79	5.0	50	0	97.6	80-122	53.53	9.26	30	
Isopropylbenzene	49.93	5.0	50	0	99.9	72-127	55.7	10.9	30	
m,p-Xylene	97.43	10	100	0	97.4	79-122	109.3	11.5	30	
Methyl acetate	40.73	5.0	50	0	81.5	69-123	42	3.08	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 1310297  
**Project:** COH Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R154864</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>								
Methyl tert-butyl ether	48.57	5.0	50	0	97.1	76-121	49.5	1.9	30	
Methylcyclohexane	55.33	5.0	50	0	111	77-126	61.14	9.98	30	
o-Xylene	48.22	5.0	50	0	96.4	80-123	52.77	9.03	30	
Styrene	46.8	5.0	50	0	93.6	78-124	52.59	11.6	30	
Tetrachloroethene	64.02	5.0	50	0	128	73-129	69.17	7.73	30	
Toluene	49.54	5.0	50	0	99.1	79-120	53.67	8.01	30	
trans-1,2-Dichloroethene	50.6	5.0	50	0	101	79-122	53.24	5.09	30	
trans-1,3-Dichloropropene	49.19	5.0	50	0	98.4	77-120	50.69	3.01	30	
Trichloroethene	58.16	5.0	50	0	116	80-121	60.35	3.7	30	
Trichlorofluoromethane	60.4	5.0	50	0	121	75-126	61.63	2.01	30	
Vinyl chloride	55.12	2.0	50	0	110	76-126	57.01	3.38	30	
Xylenes, Total	145.6	10	150	0	97.1	79-123	162.1	10.7	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	48.83	0	50	0	97.7	70-128	45.34	7.41	30	
<i>Surr: 4-Bromofluorobenzene</i>	49.99	0	50	0	100	73-126	46.8	6.6	30	
<i>Surr: Dibromofluoromethane</i>	50.18	0	50	0	100	71-128	47.52	5.45	30	
<i>Surr: Toluene-d8</i>	49.51	0	50	0	99	73-127	49.72	0.42	30	

The following samples were analyzed in this batch:

1310297-05A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 1310297  
**Project:** COH Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R155141**      Instrument ID **VOA1**      Method: **SW8260**

**MBLK**      Sample ID: **VBLKW-131009-R155141**      Units: **µg/L**      Analysis Date: **10/9/2013 11:20 AM**

Client ID:      Run ID: **VOA1\_131009A**      SeqNo: **3387521**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2-Butanone	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Cyclohexane	ND	5.0								
Dibromochloromethane	ND	5.0								
Dichlorodifluoromethane	ND	5.0								
Dichloromethane	ND	10								
Ethylbenzene	ND	5.0								
Isopropylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methyl acetate	ND	5.0								

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 1310297  
**Project:** COH Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R155141</b>	Instrument ID <b>VOA1</b>	Method: <b>SW8260</b>						
Methyl tert-butyl ether	ND	5.0						
Methylcyclohexane	ND	5.0						
o-Xylene	ND	5.0						
Styrene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,2-Dichloroethene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Trichlorofluoromethane	ND	5.0						
Vinyl chloride	ND	2.0						
Xylenes, Total	ND	15						
<i>Surr: 1,2-Dichloroethane-d4</i>	47.83	5.0	50	0	95.7	70-125	0	
<i>Surr: 4-Bromofluorobenzene</i>	51	5.0	50	0	102	72-125	0	
<i>Surr: Dibromofluoromethane</i>	49.37	5.0	50	0	98.7	71-125	0	
<i>Surr: Toluene-d8</i>	49.14	5.0	50	0	98.3	75-125	0	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 1310297  
**Project:** COH Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R155141**      Instrument ID **VOA1**      Method: **SW8260**

**LCS**      Sample ID: **VLCSW-131009-R155141**      Units: **µg/L**      Analysis Date: **10/9/2013 10:29 AM**

Client ID:      Run ID: **VOA1\_131009A**      SeqNo: **3387520**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	50.59	5.0	50	0	101	80-120				
1,1,2,2-Tetrachloroethane	46.06	5.0	50	0	92.1	72-120				
1,1,2-Trichlor-1,2,2-trifluoroethane	47.64	5.0	50	0	95.3	73-123				
1,1,2-Trichloroethane	50.86	5.0	50	0	102	80-120				
1,1-Dichloroethane	52.59	5.0	50	0	105	76-120				
1,1-Dichloroethene	50.54	5.0	50	0	101	73-124				
1,2,4-Trichlorobenzene	48.34	5.0	50	0	96.7	75-130				
1,2-Dibromo-3-chloropropane	46.88	5.0	50	0	93.8	65-125				
1,2-Dibromoethane	51.79	5.0	50	0	104	80-120				
1,2-Dichlorobenzene	49.3	5.0	50	0	98.6	80-120				
1,2-Dichloroethane	54.79	5.0	50	0	110	78-120				
1,2-Dichloropropane	52.86	5.0	50	0	106	80-120				
1,3-Dichlorobenzene	47.23	5.0	50	0	94.5	80-120				
1,4-Dichlorobenzene	47.87	5.0	50	0	95.7	80-120				
2-Butanone	100.2	10	100	0	100	58-132				
2-Hexanone	95.49	10	100	0	95.5	61-130				
4-Methyl-2-pentanone	96.57	10	100	0	96.6	65-127				
Acetone	102.6	10	100	0	103	59-137				
Benzene	51.84	5.0	50	0	104	73-121				
Bromodichloromethane	57.02	5.0	50	0	114	75-125				
Bromoform	52.37	5.0	50	0	105	70-130				
Bromomethane	52.05	5.0	50	0	104	60-145				
Carbon disulfide	103.4	10	100	0	103	68-141				
Carbon tetrachloride	50.49	5.0	50	0	101	75-125				
Chlorobenzene	49.34	5.0	50	0	98.7	80-120				
Chloroethane	57.41	5.0	50	0	115	70-130				
Chloroform	51.43	5.0	50	0	103	70-130				
Chloromethane	48.96	5.0	50	0	97.9	67-123				
cis-1,2-Dichloroethene	51.21	5.0	50	0	102	78-120				
cis-1,3-Dichloropropene	57.26	5.0	50	0	115	80-120				
Cyclohexane	45.81	5.0	50	0	91.6	66-125				
Dibromochloromethane	53.2	5.0	50	0	106	80-120				
Dichlorodifluoromethane	49.62	5.0	50	0	99.2	63-125				
Dichloromethane	51.23	10	50	0	102	65-133				
Ethylbenzene	49.09	5.0	50	0	98.2	80-120				
Isopropylbenzene	48.25	5.0	50	0	96.5	75-130				
m,p-Xylene	99.31	10	100	0	99.3	78-121				
Methyl acetate	51.8	5.0	50	0	104	60-130				

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 1310297  
**Project:** COH Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R155141</b>	Instrument ID <b>VOA1</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	46.99	5.0	50	0	94	73-121	
Methylcyclohexane	50.99	5.0	50	0	102	70-122	
o-Xylene	50.36	5.0	50	0	101	80-120	
Styrene	50.45	5.0	50	0	101	80-120	
Tetrachloroethene	48.42	5.0	50	0	96.8	79-120	
Toluene	48.66	5.0	50	0	97.3	80-120	
trans-1,2-Dichloroethene	48.11	5.0	50	0	96.2	78-120	
trans-1,3-Dichloropropene	55.07	5.0	50	0	110	80-120	
Trichloroethene	56.79	5.0	50	0	114	80-120	
Trichlorofluoromethane	55.57	5.0	50	0	111	72-130	
Vinyl chloride	55.12	2.0	50	0	110	70-127	
Xylenes, Total	149.7	15	150	0	99.8	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	49.55	5.0	50	0	99.1	70-125	0
<i>Surr: 4-Bromofluorobenzene</i>	49.04	5.0	50	0	98.1	72-125	0
<i>Surr: Dibromofluoromethane</i>	49.51	5.0	50	0	99	71-125	0
<i>Surr: Toluene-d8</i>	47.83	5.0	50	0	95.7	75-125	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 1310297  
**Project:** COH Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R155141**      Instrument ID **VOA1**      Method: **SW8260**

MS		Sample ID: <b>1310389-01AMS</b>			Units: <b>µg/L</b>		Analysis Date: <b>10/9/2013 01:02 PM</b>			
Client ID:		Run ID: <b>VOA1_131009A</b>			SeqNo: <b>3387525</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	52.27	5.0	50	0	105	80-120				
1,1,2,2-Tetrachloroethane	56.67	5.0	50	0	113	72-120				
1,1,2-Trichlor-1,2,2-trifluoroethane	53.73	5.0	50	0	107	73-123				
1,1,2-Trichloroethane	55.33	5.0	50	0	111	80-120				
1,1-Dichloroethane	52.44	5.0	50	0	105	76-120				
1,1-Dichloroethene	53.77	5.0	50	0	108	73-124				
1,2,4-Trichlorobenzene	52.18	5.0	50	0	104	75-130				
1,2-Dibromo-3-chloropropane	55.68	5.0	50	0	111	65-125				
1,2-Dibromoethane	55.86	5.0	50	0	112	80-120				
1,2-Dichlorobenzene	50.13	5.0	50	0	100	80-120				
1,2-Dichloroethane	53.68	5.0	50	0	107	78-120				
1,2-Dichloropropane	55.46	5.0	50	0	111	80-120				
1,3-Dichlorobenzene	49.85	5.0	50	0	99.7	80-120				
1,4-Dichlorobenzene	50.81	5.0	50	0	102	80-120				
2-Butanone	109.4	10	100	0	109	58-132				
2-Hexanone	120	10	100	0	120	61-130				
4-Methyl-2-pentanone	125.1	10	100	0	125	65-127				
Acetone	98.25	10	100	0	98.3	59-137				
Benzene	54.95	5.0	50	0	110	73-121				
Bromodichloromethane	53.39	5.0	50	0	107	75-125				
Bromoform	57.46	5.0	50	0	115	70-130				
Bromomethane	51.19	5.0	50	0	102	60-145				
Carbon disulfide	101.1	10	100	0	101	68-141				
Carbon tetrachloride	51.81	5.0	50	0	104	75-125				
Chlorobenzene	53.62	5.0	50	0	107	80-120				
Chloroethane	52.04	5.0	50	0	104	70-130				
Chloroform	54.44	5.0	50	0	109	70-130				
Chloromethane	42.43	5.0	50	0	84.9	67-123				
cis-1,2-Dichloroethene	51.33	5.0	50	0	103	78-120				
cis-1,3-Dichloropropene	55.59	5.0	50	0	111	80-120				
Cyclohexane	53.22	5.0	50	0	106	66-125				
Dibromochloromethane	55.23	5.0	50	0	110	80-120				
Dichlorodifluoromethane	32.3	5.0	50	0	64.6	63-125				
Dichloromethane	51.64	10	50	0	103	65-133				
Ethylbenzene	52.96	5.0	50	0	106	80-120				
Isopropylbenzene	48.59	5.0	50	0	97.2	75-130				
m,p-Xylene	106.3	10	100	0	106	78-121				
Methyl acetate	59.26	5.0	50	0	119	60-130				

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 1310297  
**Project:** COH Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R155141</b>	Instrument ID <b>VOA1</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	45.49	5.0	50	0	91	73-121	
Methylcyclohexane	46	5.0	50	0	92	70-122	
o-Xylene	52.36	5.0	50	0	105	80-120	
Styrene	52.93	5.0	50	0	106	80-120	
Tetrachloroethene	52.34	5.0	50	0	105	79-120	
Toluene	50.82	5.0	50	0	102	80-120	
trans-1,2-Dichloroethene	53.63	5.0	50	0	107	78-120	
trans-1,3-Dichloropropene	57.19	5.0	50	0	114	80-120	
Trichloroethene	52.08	5.0	50	0	104	80-120	
Trichlorofluoromethane	53.18	5.0	50	0	106	72-130	
Vinyl chloride	51.13	2.0	50	0	102	70-127	
Xylenes, Total	158.6	15	150	0	106	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	47.21	5.0	50	0	94.4	70-125	0
<i>Surr: 4-Bromofluorobenzene</i>	51.36	5.0	50	0	103	72-125	0
<i>Surr: Dibromofluoromethane</i>	50.24	5.0	50	0	100	71-125	0
<i>Surr: Toluene-d8</i>	49.05	5.0	50	0	98.1	75-125	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 1310297  
 Project: COH Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: R155141 Instrument ID VOA1 Method: SW8260

MSD		Sample ID: 1310389-01AMSD			Units: µg/L			Analysis Date: 10/9/2013 01:27 PM		
Client ID:		Run ID: VOA1_131009A			SeqNo: 3387526		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.02	5.0	50	0	96	80-120	52.27	8.48	20	
1,1,2,2-Tetrachloroethane	51.92	5.0	50	0	104	72-120	56.67	8.75	20	
1,1,2-Trichlor-1,2,2-trifluoroethane	46.29	5.0	50	0	92.6	73-123	53.73	14.9	20	
1,1,2-Trichloroethane	49	5.0	50	0	98	80-120	55.33	12.1	20	
1,1-Dichloroethane	49.38	5.0	50	0	98.8	76-120	52.44	6.03	20	
1,1-Dichloroethene	46.39	5.0	50	0	92.8	73-124	53.77	14.7	20	
1,2,4-Trichlorobenzene	45.53	5.0	50	0	91.1	75-130	52.18	13.6	20	
1,2-Dibromo-3-chloropropane	54.96	5.0	50	0	110	65-125	55.68	1.29	20	
1,2-Dibromoethane	52.33	5.0	50	0	105	80-120	55.86	6.54	20	
1,2-Dichlorobenzene	44.76	5.0	50	0	89.5	80-120	50.13	11.3	20	
1,2-Dichloroethane	49.75	5.0	50	0	99.5	78-120	53.68	7.6	20	
1,2-Dichloropropane	49.5	5.0	50	0	99	80-120	55.46	11.4	20	
1,3-Dichlorobenzene	45.48	5.0	50	0	91	80-120	49.85	9.17	20	
1,4-Dichlorobenzene	45.13	5.0	50	0	90.3	80-120	50.81	11.8	20	
2-Butanone	109.2	10	100	0	109	58-132	109.4	0.195	20	
2-Hexanone	118.8	10	100	0	119	61-130	120	1.01	20	
4-Methyl-2-pentanone	117.3	10	100	0	117	65-127	125.1	6.4	20	
Acetone	94.71	10	100	0	94.7	59-137	98.25	3.67	20	
Benzene	47.55	5.0	50	0	95.1	73-121	54.95	14.4	20	
Bromodichloromethane	47.8	5.0	50	0	95.6	75-125	53.39	11	20	
Bromoform	50.7	5.0	50	0	101	70-130	57.46	12.5	20	
Bromomethane	46.13	5.0	50	0	92.3	60-145	51.19	10.4	20	
Carbon disulfide	90.64	10	100	0	90.6	68-141	101.1	10.9	20	
Carbon tetrachloride	44.87	5.0	50	0	89.7	75-125	51.81	14.4	20	
Chlorobenzene	46.27	5.0	50	0	92.5	80-120	53.62	14.7	20	
Chloroethane	48.45	5.0	50	0	96.9	76-121	52.04	7.14	20	
Chloroform	48.87	5.0	50	0	97.7	70-130	54.44	10.8	20	
Chloromethane	37.39	5.0	50	0	74.8	67-123	42.43	12.6	20	
cis-1,2-Dichloroethene	49.42	5.0	50	0	98.8	78-120	51.33	3.8	20	
cis-1,3-Dichloropropene	48.38	5.0	50	0	96.8	80-120	55.59	13.9	20	
Cyclohexane	47.13	5.0	50	0	94.3	66-125	53.22	12.1	20	
Dibromochloromethane	49.48	5.0	50	0	99	80-120	55.23	11	20	
Dichlorodifluoromethane	28.65	5.0	50	0	57.3	63-125	32.3	12	20	S
Dichloromethane	50.04	10	50	0	100	65-133	51.64	3.16	20	
Ethylbenzene	47.08	5.0	50	0	94.2	80-120	52.96	11.8	20	
Isopropylbenzene	43.51	5.0	50	0	87	75-130	48.59	11	20	
m,p-Xylene	92.84	10	100	0	92.8	78-121	106.3	13.5	20	
Methyl acetate	53.83	5.0	50	0	108	60-130	59.26	9.61	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 1310297  
**Project:** COH Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R155141</b>	Instrument ID <b>VOA1</b>	Method: <b>SW8260</b>								
Methyl tert-butyl ether	43.5	5.0	50	0	87	73-121	45.49	4.45	20	
Methylcyclohexane	29.78	5.0	50	0	59.6	70-122	46	42.8	20	SR
o-Xylene	45.57	5.0	50	0	91.1	80-120	52.36	13.9	20	
Styrene	47.01	5.0	50	0	94	80-120	52.93	11.8	20	
Tetrachloroethene	46.52	5.0	50	0	93	79-120	52.34	11.8	20	
Toluene	45.63	5.0	50	0	91.3	80-120	50.82	10.8	20	
trans-1,2-Dichloroethene	47.74	5.0	50	0	95.5	78-120	53.63	11.6	20	
trans-1,3-Dichloropropene	49.52	5.0	50	0	99	80-120	57.19	14.4	20	
Trichloroethene	46.71	5.0	50	0	93.4	80-120	52.08	10.9	20	
Trichlorofluoromethane	47.58	5.0	50	0	95.2	72-130	53.18	11.1	20	
Vinyl chloride	45.86	2.0	50	0	91.7	70-127	51.13	10.9	20	
Xylenes, Total	138.4	15	150	0	92.3	78-121	158.6	13.6	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	48.61	5.0	50	0	97.2	70-125	47.21	2.93	20	
<i>Surr: 4-Bromofluorobenzene</i>	46.17	5.0	50	0	92.3	72-125	51.36	10.6	20	
<i>Surr: Dibromofluoromethane</i>	50.28	5.0	50	0	101	71-125	50.24	0.0844	20	
<i>Surr: Toluene-d8</i>	43.4	5.0	50	0	86.8	75-125	49.05	12.2	20	

The following samples were analyzed in this batch:

1310297-06A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Project:** COH Montrose-Midtown Phase II ES  
**WorkOrder:** 1310297

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter





**1 From**

Date 10/2/13

Sender's Name J. Stetich Phone 307 742-2868

Company OMT / OPRR Tie Plant

Address 2736 Ft. Surratt Drive Dept./Floor/Suite/Room \_\_\_\_\_

City Lacombe State LA ZIP 82670

**2 Your Internal Billing Reference**

**3 To**

Recipient's Name CLIENT SERVICES Phone 281 530-5494

Company ALS LABORATORY GROUP

Address 10450 STANCLIFF RD BTE 210 Dept./Floor/Suite/Room \_\_\_\_\_

We cannot deliver to P.O. boxes or P.D. ZIP codes.

Address \_\_\_\_\_

Use this line for the HOLD location address or for continuation of your shipping address.

City HOUSTON State TX ZIP 77099-4378

0455550114



8013 7714 3437

**4 Express Package Service** \* To most locations.  
NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.  
For packages over 150 lbs., use the FedEx Express Freight US Airbill.

**Next Business Day**

FedEx First Overnight  
Next business morning. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Priority Overnight  
Next business morning. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Standard Overnight  
Next business afternoon. Saturday Delivery NOT available.

**2 or 3 Business Days**

FedEx 2Day A.M.  
Second business morning. Saturday Delivery NOT available.

FedEx 2Day  
Second business afternoon. Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Express Saver  
Third business day. Saturday Delivery NOT available.

**5 Packaging** \* Declared value limit \$500.

FedEx Envelope\*  FedEx Pak\*  FedEx Box  FedEx Tube  Other

**6 Special Handling and Delivery Signature Options**

SATURDAY Delivery  
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

No Signature Required  
Packages may be left without obtaining a signature for delivery.

Direct Signature  
Someone at recipient's address may sign for delivery. Fee applies.

Indirect Signature  
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

**Does this shipment contain dangerous goods?**  
One box must be checked.

No  Yes As per attached Shipper's Declaration.  Yes Shipper's Declaration not required.

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging, or placed in a FedEx Express Drop Box.

Dry Ice  
Dry Ice, 9 UN 1845 \_\_\_\_\_ x \_\_\_\_\_ kg

Cargo Aircraft Only

**7 Payment Bill to:** Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No.

Sender Acct. No. in Section 7 will be billed.  Recipient  Third Party  Credit Card  Cash/Check

Total Packages \_\_\_\_\_ Total Weight \_\_\_\_\_ Credit Card Auth. \_\_\_\_\_

Your liability is limited to US\$100 unless you declare a higher value. See the current FedEx Service Guide for details.

fedex.com 1.800.GofedEx 1.800.463.3339

**ALS Environmental**

10450 Stancliff Rd., Suite 210  
Houston, Texas 77099  
Tel. +1 281 530 5656  
Fax. +1 281 530 5887

Date: \_\_\_\_\_  
Name: \_\_\_\_\_  
Company: \_\_\_\_\_

**CUSTODY SEAL**

10/2/13 Time: 3:30pm

J. Stetich  
OMT / OPRR Tie Plant

Shut Broken By: \_\_\_\_\_  
Date: 10/3/13



09-Oct-2013

Jordan Smith  
Kleinfelder  
12000 Aerospace Ave.  
Suite 450  
Houston, TX 77034

Tel: (281) 922-4766  
Fax: (281) 922-4767

Re: COH-Montrose-Midtown Phase II ES 136524

Work Order: **13091061**

Dear Jordan,

ALS Environmental received 8 samples on 24-Sep-2013 09:38 AM for the analyses presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

The total number of pages in this revised report is 53.

Regards,

A handwritten signature in black ink that reads "Sonia West".

Electronically approved by: Sonia West

Sonia West  
Project Manager



Certificate No: TX: T104704231-13-12

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES 136524  
**Work Order:** 13091061

**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
13091061-01	B-10 (34-36)	Soil		9/23/2013 10:00	9/24/2013 09:38	<input type="checkbox"/>
13091061-02	B-9 (12-14)	Soil		9/23/2013 11:30	9/24/2013 09:38	<input type="checkbox"/>
13091061-03	B-11 (26-28)	Soil		9/23/2013 13:10	9/24/2013 09:38	<input type="checkbox"/>
13091061-04	B-12 (14-16)	Soil		9/23/2013 14:35	9/24/2013 09:38	<input type="checkbox"/>
13091061-05	B-12	Water		9/23/2013 14:50	9/24/2013 09:38	<input type="checkbox"/>
13091061-06	B-13 (20-22)	Soil		9/23/2013 15:35	9/24/2013 09:38	<input type="checkbox"/>
13091061-07	B-14 (26-28)	Soil		9/23/2013 16:40	9/24/2013 09:38	<input type="checkbox"/>
13091061-08	Trip Blank 090613-07	Water		9/23/2013	9/24/2013 09:38	<input type="checkbox"/>

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**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES 136524  
**Work Order:** 13091061

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**Case Narrative**

This report has been revised to include Methylcyclohexane in the LCS for Batch R154401.

Batch 73349, TPH TX1005, Sample 13091112-01A: MS/MSD are for an unrelated sample.

Batch R154242, Volatile Organics 8260, Sample 13091060-01A: MS/MSD are for an unrelated sample.

Batch R154401, Volatile Organics 8260, Sample B-10 (34-36) (13091061-07A): The MS and/or MSD recoveries were outside of the control limits for Benzene.

Batch R154409, Volatile Organics 8260, Sample 13091101-30A: MS/MSD are for an unrelated sample.

# ALS Environmental

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091061

**Sample ID:** B-10 (34-36)

**Lab ID:** 13091061-01

**Collection Date:** 9/23/2013 10:00 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>9/25/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		50	mg/Kg	1	9/26/2013 04:18 PM
>nC12 to nC28	U		50	mg/Kg	1	9/26/2013 04:18 PM
>nC28 to nC35	U		50	mg/Kg	1	9/26/2013 04:18 PM
Total Petroleum Hydrocarbon	U		50	mg/Kg	1	9/26/2013 04:18 PM
<i>Surr: 2-Fluorobiphenyl</i>	94.1		70-130	%REC	1	9/26/2013 04:18 PM
<i>Surr: Trifluoromethyl benzene</i>	85.4		70-130	%REC	1	9/26/2013 04:18 PM
<b>VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
Benzene	U		5.0	µg/Kg	1	9/25/2013 10:53 AM
Ethylbenzene	U		5.0	µg/Kg	1	9/25/2013 10:53 AM
m,p-Xylene	U		10	µg/Kg	1	9/25/2013 10:53 AM
Methyl tert-butyl ether	U		5.0	µg/Kg	1	9/25/2013 10:53 AM
o-Xylene	U		5.0	µg/Kg	1	9/25/2013 10:53 AM
Toluene	U		5.0	µg/Kg	1	9/25/2013 10:53 AM
Xylenes, Total	U		10	µg/Kg	1	9/25/2013 10:53 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	93.6		70-128	%REC	1	9/25/2013 10:53 AM
<i>Surr: 4-Bromofluorobenzene</i>	101		73-126	%REC	1	9/25/2013 10:53 AM
<i>Surr: Dibromofluoromethane</i>	109		71-128	%REC	1	9/25/2013 10:53 AM
<i>Surr: Toluene-d8</i>	98.1		73-127	%REC	1	9/25/2013 10:53 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091061

**Sample ID:** B-9 (12-14)

**Lab ID:** 13091061-02

**Collection Date:** 9/23/2013 11:30 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>9/25/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		50	mg/Kg	1	9/26/2013 04:50 PM
>nC12 to nC28	U		50	mg/Kg	1	9/26/2013 04:50 PM
>nC28 to nC35	U		50	mg/Kg	1	9/26/2013 04:50 PM
Total Petroleum Hydrocarbon	U		50	mg/Kg	1	9/26/2013 04:50 PM
<i>Surr: 2-Fluorobiphenyl</i>	77.2		70-130	%REC	1	9/26/2013 04:50 PM
<i>Surr: Trifluoromethyl benzene</i>	71.4		70-130	%REC	1	9/26/2013 04:50 PM
<b>VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
Benzene	U		5.0	µg/Kg	1	9/25/2013 11:22 AM
Ethylbenzene	U		5.0	µg/Kg	1	9/25/2013 11:22 AM
m,p-Xylene	U		10	µg/Kg	1	9/25/2013 11:22 AM
Methyl tert-butyl ether	U		5.0	µg/Kg	1	9/25/2013 11:22 AM
o-Xylene	U		5.0	µg/Kg	1	9/25/2013 11:22 AM
Toluene	U		5.0	µg/Kg	1	9/25/2013 11:22 AM
Xylenes, Total	U		10	µg/Kg	1	9/25/2013 11:22 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	94.6		70-128	%REC	1	9/25/2013 11:22 AM
<i>Surr: 4-Bromofluorobenzene</i>	101		73-126	%REC	1	9/25/2013 11:22 AM
<i>Surr: Dibromofluoromethane</i>	109		71-128	%REC	1	9/25/2013 11:22 AM
<i>Surr: Toluene-d8</i>	99.6		73-127	%REC	1	9/25/2013 11:22 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091061

**Sample ID:** B-11 (26-28)

**Lab ID:** 13091061-03

**Collection Date:** 9/23/2013 01:10 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>9/25/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		50	mg/Kg	1	9/26/2013 02:42 PM
>nC12 to nC28	U		50	mg/Kg	1	9/26/2013 02:42 PM
>nC28 to nC35	U		50	mg/Kg	1	9/26/2013 02:42 PM
Total Petroleum Hydrocarbon	U		50	mg/Kg	1	9/26/2013 02:42 PM
<i>Surr: 2-Fluorobiphenyl</i>	86.7		70-130	%REC	1	9/26/2013 02:42 PM
<i>Surr: Trifluoromethyl benzene</i>	91.2		70-130	%REC	1	9/26/2013 02:42 PM
<b>VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
Benzene	U		5.0	µg/Kg	1	9/25/2013 11:50 AM
Ethylbenzene	U		5.0	µg/Kg	1	9/25/2013 11:50 AM
m,p-Xylene	U		10	µg/Kg	1	9/25/2013 11:50 AM
Methyl tert-butyl ether	U		5.0	µg/Kg	1	9/25/2013 11:50 AM
o-Xylene	U		5.0	µg/Kg	1	9/25/2013 11:50 AM
Toluene	U		5.0	µg/Kg	1	9/25/2013 11:50 AM
Xylenes, Total	U		10	µg/Kg	1	9/25/2013 11:50 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	91.1		70-128	%REC	1	9/25/2013 11:50 AM
<i>Surr: 4-Bromofluorobenzene</i>	97.7		73-126	%REC	1	9/25/2013 11:50 AM
<i>Surr: Dibromofluoromethane</i>	109		71-128	%REC	1	9/25/2013 11:50 AM
<i>Surr: Toluene-d8</i>	97.1		73-127	%REC	1	9/25/2013 11:50 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091061

**Sample ID:** B-12 (14-16)

**Lab ID:** 13091061-04

**Collection Date:** 9/23/2013 02:35 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>9/25/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		50	mg/Kg	1	9/26/2013 03:14 PM
>nC12 to nC28	U		50	mg/Kg	1	9/26/2013 03:14 PM
>nC28 to nC35	U		50	mg/Kg	1	9/26/2013 03:14 PM
Total Petroleum Hydrocarbon	U		50	mg/Kg	1	9/26/2013 03:14 PM
Surr: 2-Fluorobiphenyl	80.9		70-130	%REC	1	9/26/2013 03:14 PM
Surr: Trifluoromethyl benzene	85.4		70-130	%REC	1	9/26/2013 03:14 PM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
1,1,1-Trichloroethane	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
1,1,2,2-Tetrachloroethane	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
1,1,2-Trichloroethane	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
1,1-Dichloroethane	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
1,1-Dichloroethene	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
1,2,4-Trichlorobenzene	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
1,2-Dibromo-3-chloropropane	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
1,2-Dibromoethane	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
1,2-Dichlorobenzene	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
1,2-Dichloroethane	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
1,2-Dichloropropane	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
1,3-Dichlorobenzene	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
1,4-Dichlorobenzene	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
2-Butanone	U		10	µg/Kg	1	9/25/2013 02:19 PM
2-Hexanone	U		10	µg/Kg	1	9/25/2013 02:19 PM
4-Methyl-2-pentanone	U		10	µg/Kg	1	9/25/2013 02:19 PM
Acetone	U		20	µg/Kg	1	9/25/2013 02:19 PM
Benzene	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
Bromodichloromethane	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
Bromoform	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
Bromomethane	U		10	µg/Kg	1	9/25/2013 02:19 PM
Carbon disulfide	U		10	µg/Kg	1	9/25/2013 02:19 PM
Carbon tetrachloride	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
Chlorobenzene	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
Chloroethane	U		10	µg/Kg	1	9/25/2013 02:19 PM
Chloroform	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
Chloromethane	U		10	µg/Kg	1	9/25/2013 02:19 PM
cis-1,2-Dichloroethene	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
cis-1,3-Dichloropropene	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
Cyclohexane	U	n	5.0	µg/Kg	1	9/25/2013 02:19 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091061

**Sample ID:** B-12 (14-16)

**Lab ID:** 13091061-04

**Collection Date:** 9/23/2013 02:35 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
Dichlorodifluoromethane	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
Dichloromethane	U		10	µg/Kg	1	9/25/2013 02:19 PM
Ethylbenzene	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
Isopropylbenzene	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
m,p-Xylene	U		10	µg/Kg	1	9/25/2013 02:19 PM
Methyl acetate	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
Methyl tert-butyl ether	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
Methylcyclohexane	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
o-Xylene	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
Styrene	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
Tetrachloroethene	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
Toluene	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
trans-1,2-Dichloroethene	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
trans-1,3-Dichloropropene	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
Trichloroethene	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
Trichlorofluoromethane	U		5.0	µg/Kg	1	9/25/2013 02:19 PM
Vinyl chloride	U		2.0	µg/Kg	1	9/25/2013 02:19 PM
Xylenes, Total	U		15	µg/Kg	1	9/25/2013 02:19 PM
Surr: 1,2-Dichloroethane-d4	95.4		70-128	%REC	1	9/25/2013 02:19 PM
Surr: 4-Bromofluorobenzene	97.2		73-126	%REC	1	9/25/2013 02:19 PM
Surr: Dibromofluoromethane	98.4		71-128	%REC	1	9/25/2013 02:19 PM
Surr: Toluene-d8	99.7		73-127	%REC	1	9/25/2013 02:19 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091061

**Sample ID:** B-12

**Lab ID:** 13091061-05

**Collection Date:** 9/23/2013 02:50 PM

**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>LOW-LEVEL TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>9/27/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		0.48	mg/L	1	9/27/2013 05:49 PM
>nC12 to nC28	U		0.48	mg/L	1	9/27/2013 05:49 PM
>nC28 to nC35	U		0.48	mg/L	1	9/27/2013 05:49 PM
Total Petroleum Hydrocarbon	U		0.48	mg/L	1	9/27/2013 05:49 PM
<i>Surr: 2-Fluorobiphenyl</i>	74.6		70-130	%REC	1	9/27/2013 05:49 PM
<i>Surr: Trifluoromethyl benzene</i>	70.3		70-130	%REC	1	9/27/2013 05:49 PM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>PC</b>
1,1,1-Trichloroethane	U		5.0	µg/L	1	9/26/2013 06:09 PM
1,1,2,2-Tetrachloroethane	U		5.0	µg/L	1	9/26/2013 06:09 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	U		5.0	µg/L	1	9/26/2013 06:09 PM
1,1,2-Trichloroethane	U		5.0	µg/L	1	9/26/2013 06:09 PM
1,1-Dichloroethane	U		5.0	µg/L	1	9/26/2013 06:09 PM
1,1-Dichloroethene	U		5.0	µg/L	1	9/26/2013 06:09 PM
1,2,4-Trichlorobenzene	U		5.0	µg/L	1	9/26/2013 06:09 PM
1,2-Dibromo-3-chloropropane	U		5.0	µg/L	1	9/26/2013 06:09 PM
1,2-Dibromoethane	U		5.0	µg/L	1	9/26/2013 06:09 PM
1,2-Dichlorobenzene	U		5.0	µg/L	1	9/26/2013 06:09 PM
1,2-Dichloroethane	U		5.0	µg/L	1	9/26/2013 06:09 PM
1,2-Dichloropropane	U		5.0	µg/L	1	9/26/2013 06:09 PM
1,3-Dichlorobenzene	U		5.0	µg/L	1	9/26/2013 06:09 PM
1,4-Dichlorobenzene	U		5.0	µg/L	1	9/26/2013 06:09 PM
2-Butanone	U		10	µg/L	1	9/26/2013 06:09 PM
2-Hexanone	U		10	µg/L	1	9/26/2013 06:09 PM
4-Methyl-2-pentanone	U		10	µg/L	1	9/26/2013 06:09 PM
Acetone	U		10	µg/L	1	9/26/2013 06:09 PM
Benzene	U		5.0	µg/L	1	9/26/2013 06:09 PM
Bromodichloromethane	U		5.0	µg/L	1	9/26/2013 06:09 PM
Bromoform	U		5.0	µg/L	1	9/26/2013 06:09 PM
Bromomethane	U		5.0	µg/L	1	9/26/2013 06:09 PM
Carbon disulfide	U		10	µg/L	1	9/26/2013 06:09 PM
Carbon tetrachloride	U		5.0	µg/L	1	9/26/2013 06:09 PM
Chlorobenzene	U		5.0	µg/L	1	9/26/2013 06:09 PM
Chloroethane	U		5.0	µg/L	1	9/26/2013 06:09 PM
Chloroform	U		5.0	µg/L	1	9/26/2013 06:09 PM
Chloromethane	U		5.0	µg/L	1	9/26/2013 06:09 PM
cis-1,2-Dichloroethene	U		5.0	µg/L	1	9/26/2013 06:09 PM
cis-1,3-Dichloropropene	U		5.0	µg/L	1	9/26/2013 06:09 PM
Cyclohexane	U	n	5.0	µg/L	1	9/26/2013 06:09 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091061

**Sample ID:** B-12

**Lab ID:** 13091061-05

**Collection Date:** 9/23/2013 02:50 PM

**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	U		5.0	µg/L	1	9/26/2013 06:09 PM
Dichlorodifluoromethane	U		5.0	µg/L	1	9/26/2013 06:09 PM
Dichloromethane	U		10	µg/L	1	9/26/2013 06:09 PM
Ethylbenzene	U		5.0	µg/L	1	9/26/2013 06:09 PM
Isopropylbenzene	U		5.0	µg/L	1	9/26/2013 06:09 PM
m,p-Xylene	U		10	µg/L	1	9/26/2013 06:09 PM
Methyl acetate	U		5.0	µg/L	1	9/26/2013 06:09 PM
Methyl tert-butyl ether	U		5.0	µg/L	1	9/26/2013 06:09 PM
Methylcyclohexane	U		5.0	µg/L	1	9/26/2013 06:09 PM
o-Xylene	U		5.0	µg/L	1	9/26/2013 06:09 PM
Styrene	U		5.0	µg/L	1	9/26/2013 06:09 PM
Tetrachloroethene	U		5.0	µg/L	1	9/26/2013 06:09 PM
Toluene	U		5.0	µg/L	1	9/26/2013 06:09 PM
trans-1,2-Dichloroethene	U		5.0	µg/L	1	9/26/2013 06:09 PM
trans-1,3-Dichloropropene	U		5.0	µg/L	1	9/26/2013 06:09 PM
Trichloroethene	U		5.0	µg/L	1	9/26/2013 06:09 PM
Trichlorofluoromethane	U		5.0	µg/L	1	9/26/2013 06:09 PM
Vinyl chloride	U		2.0	µg/L	1	9/26/2013 06:09 PM
Xylenes, Total	U		15	µg/L	1	9/26/2013 06:09 PM
Surr: 1,2-Dichloroethane-d4	104		70-125	%REC	1	9/26/2013 06:09 PM
Surr: 4-Bromofluorobenzene	97.4		72-125	%REC	1	9/26/2013 06:09 PM
Surr: Dibromofluoromethane	102		71-125	%REC	1	9/26/2013 06:09 PM
Surr: Toluene-d8	97.3		75-125	%REC	1	9/26/2013 06:09 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091061

**Sample ID:** B-13 (20-22)

**Lab ID:** 13091061-06

**Collection Date:** 9/23/2013 03:35 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>9/25/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		50	mg/Kg	1	9/26/2013 03:46 PM
>nC12 to nC28	U		50	mg/Kg	1	9/26/2013 03:46 PM
>nC28 to nC35	U		50	mg/Kg	1	9/26/2013 03:46 PM
Total Petroleum Hydrocarbon	U		50	mg/Kg	1	9/26/2013 03:46 PM
<i>Surr: 2-Fluorobiphenyl</i>	82.5		70-130	%REC	1	9/26/2013 03:46 PM
<i>Surr: Trifluoromethyl benzene</i>	88.0		70-130	%REC	1	9/26/2013 03:46 PM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
1,1,1-Trichloroethane	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
1,1,2,2-Tetrachloroethane	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
1,1,2-Trichloroethane	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
1,1-Dichloroethane	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
1,1-Dichloroethene	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
1,2,4-Trichlorobenzene	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
1,2-Dibromo-3-chloropropane	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
1,2-Dibromoethane	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
1,2-Dichlorobenzene	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
1,2-Dichloroethane	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
1,2-Dichloropropane	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
1,3-Dichlorobenzene	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
1,4-Dichlorobenzene	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
2-Butanone	U		10	µg/Kg	1	9/25/2013 02:43 PM
2-Hexanone	U		10	µg/Kg	1	9/25/2013 02:43 PM
4-Methyl-2-pentanone	U		10	µg/Kg	1	9/25/2013 02:43 PM
Acetone	U		20	µg/Kg	1	9/25/2013 02:43 PM
Benzene	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
Bromodichloromethane	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
Bromoform	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
Bromomethane	U		10	µg/Kg	1	9/25/2013 02:43 PM
Carbon disulfide	U		10	µg/Kg	1	9/25/2013 02:43 PM
Carbon tetrachloride	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
Chlorobenzene	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
Chloroethane	U		10	µg/Kg	1	9/25/2013 02:43 PM
Chloroform	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
Chloromethane	U		10	µg/Kg	1	9/25/2013 02:43 PM
cis-1,2-Dichloroethene	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
cis-1,3-Dichloropropene	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
Cyclohexane	U	n	5.0	µg/Kg	1	9/25/2013 02:43 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091061

**Sample ID:** B-13 (20-22)

**Lab ID:** 13091061-06

**Collection Date:** 9/23/2013 03:35 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
Dichlorodifluoromethane	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
Dichloromethane	U		10	µg/Kg	1	9/25/2013 02:43 PM
Ethylbenzene	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
Isopropylbenzene	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
m,p-Xylene	U		10	µg/Kg	1	9/25/2013 02:43 PM
Methyl acetate	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
Methyl tert-butyl ether	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
Methylcyclohexane	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
o-Xylene	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
Styrene	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
Tetrachloroethene	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
Toluene	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
trans-1,2-Dichloroethene	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
trans-1,3-Dichloropropene	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
Trichloroethene	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
Trichlorofluoromethane	U		5.0	µg/Kg	1	9/25/2013 02:43 PM
Vinyl chloride	U		2.0	µg/Kg	1	9/25/2013 02:43 PM
Xylenes, Total	U		15	µg/Kg	1	9/25/2013 02:43 PM
Surr: 1,2-Dichloroethane-d4	91.0		70-128	%REC	1	9/25/2013 02:43 PM
Surr: 4-Bromofluorobenzene	99.2		73-126	%REC	1	9/25/2013 02:43 PM
Surr: Dibromofluoromethane	94.6		71-128	%REC	1	9/25/2013 02:43 PM
Surr: Toluene-d8	100		73-127	%REC	1	9/25/2013 02:43 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091061

**Sample ID:** B-14 (26-28)

**Lab ID:** 13091061-07

**Collection Date:** 9/23/2013 04:40 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>9/25/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	<b>62</b>		<b>50</b>	<b>mg/Kg</b>	1	9/27/2013 12:26 PM
>nC12 to nC28	U		50	mg/Kg	1	9/27/2013 12:26 PM
>nC28 to nC35	U		50	mg/Kg	1	9/27/2013 12:26 PM
<b>Total Petroleum Hydrocarbon</b>	<b>62.0</b>		<b>50</b>	<b>mg/Kg</b>	1	9/27/2013 12:26 PM
Surr: 2-Fluorobiphenyl	87.4		70-130	%REC	1	9/27/2013 12:26 PM
Surr: Trifluoromethyl benzene	96.8		70-130	%REC	1	9/27/2013 12:26 PM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
1,1,1-Trichloroethane	U		50	µg/Kg	10	9/25/2013 11:31 AM
1,1,2,2-Tetrachloroethane	U		50	µg/Kg	10	9/25/2013 11:31 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	U		50	µg/Kg	10	9/25/2013 11:31 AM
1,1,2-Trichloroethane	U		50	µg/Kg	10	9/25/2013 11:31 AM
1,1-Dichloroethane	U		50	µg/Kg	10	9/25/2013 11:31 AM
1,1-Dichloroethene	U		50	µg/Kg	10	9/25/2013 11:31 AM
1,2,4-Trichlorobenzene	U		50	µg/Kg	10	9/25/2013 11:31 AM
1,2-Dibromo-3-chloropropane	U		50	µg/Kg	10	9/25/2013 11:31 AM
1,2-Dibromoethane	U		50	µg/Kg	10	9/25/2013 11:31 AM
1,2-Dichlorobenzene	U		50	µg/Kg	10	9/25/2013 11:31 AM
1,2-Dichloroethane	U		50	µg/Kg	10	9/25/2013 11:31 AM
1,2-Dichloropropane	U		50	µg/Kg	10	9/25/2013 11:31 AM
1,3-Dichlorobenzene	U		50	µg/Kg	10	9/25/2013 11:31 AM
1,4-Dichlorobenzene	U		50	µg/Kg	10	9/25/2013 11:31 AM
2-Butanone	U		100	µg/Kg	10	9/25/2013 11:31 AM
2-Hexanone	U		100	µg/Kg	10	9/25/2013 11:31 AM
4-Methyl-2-pentanone	U		100	µg/Kg	10	9/25/2013 11:31 AM
Acetone	U		200	µg/Kg	10	9/25/2013 11:31 AM
<b>Benzene</b>	<b>63</b>		<b>50</b>	<b>µg/Kg</b>	10	9/25/2013 11:31 AM
Bromodichloromethane	U		50	µg/Kg	10	9/25/2013 11:31 AM
Bromoform	U		50	µg/Kg	10	9/25/2013 11:31 AM
Bromomethane	U		100	µg/Kg	10	9/25/2013 11:31 AM
Carbon disulfide	U		100	µg/Kg	10	9/25/2013 11:31 AM
Carbon tetrachloride	U		50	µg/Kg	10	9/25/2013 11:31 AM
Chlorobenzene	U		50	µg/Kg	10	9/25/2013 11:31 AM
Chloroethane	U		100	µg/Kg	10	9/25/2013 11:31 AM
Chloroform	U		50	µg/Kg	10	9/25/2013 11:31 AM
Chloromethane	U		100	µg/Kg	10	9/25/2013 11:31 AM
cis-1,2-Dichloroethene	U		50	µg/Kg	10	9/25/2013 11:31 AM
cis-1,3-Dichloropropene	U		50	µg/Kg	10	9/25/2013 11:31 AM
<b>Cyclohexane</b>	<b>16,000</b>	n	<b>5,000</b>	<b>µg/Kg</b>	1000	9/27/2013 11:16 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091061

**Sample ID:** B-14 (26-28)

**Lab ID:** 13091061-07

**Collection Date:** 9/23/2013 04:40 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	U		50	µg/Kg	10	9/25/2013 11:31 AM
Dichlorodifluoromethane	U		50	µg/Kg	10	9/25/2013 11:31 AM
Dichloromethane	U		100	µg/Kg	10	9/25/2013 11:31 AM
<b>Ethylbenzene</b>	<b>580</b>		<b>50</b>	<b>µg/Kg</b>	10	9/25/2013 11:31 AM
<b>Isopropylbenzene</b>	<b>310</b>		<b>50</b>	<b>µg/Kg</b>	10	9/25/2013 11:31 AM
<b>m,p-Xylene</b>	<b>1,800</b>		<b>100</b>	<b>µg/Kg</b>	10	9/25/2013 11:31 AM
Methyl acetate	U		50	µg/Kg	10	9/25/2013 11:31 AM
Methyl tert-butyl ether	U		50	µg/Kg	10	9/25/2013 11:31 AM
<b>Methylcyclohexane</b>	<b>27,000</b>		<b>5,000</b>	<b>µg/Kg</b>	1000	9/27/2013 11:16 AM
<b>o-Xylene</b>	<b>99</b>		<b>50</b>	<b>µg/Kg</b>	10	9/25/2013 11:31 AM
Styrene	U		50	µg/Kg	10	9/25/2013 11:31 AM
Tetrachloroethene	U		50	µg/Kg	10	9/25/2013 11:31 AM
<b>Toluene</b>	<b>58</b>		<b>50</b>	<b>µg/Kg</b>	10	9/25/2013 11:31 AM
trans-1,2-Dichloroethene	U		50	µg/Kg	10	9/25/2013 11:31 AM
trans-1,3-Dichloropropene	U		50	µg/Kg	10	9/25/2013 11:31 AM
Trichloroethene	U		50	µg/Kg	10	9/25/2013 11:31 AM
Trichlorofluoromethane	U		50	µg/Kg	10	9/25/2013 11:31 AM
Vinyl chloride	U		20	µg/Kg	10	9/25/2013 11:31 AM
<b>Xylenes, Total</b>	<b>1,900</b>		<b>150</b>	<b>µg/Kg</b>	10	9/25/2013 11:31 AM
Surr: 1,2-Dichloroethane-d4	119		70-128	%REC	1000	9/27/2013 11:16 AM
Surr: 1,2-Dichloroethane-d4	87.8		70-128	%REC	10	9/25/2013 11:31 AM
Surr: 4-Bromofluorobenzene	108		73-126	%REC	1000	9/27/2013 11:16 AM
Surr: 4-Bromofluorobenzene	93.9		73-126	%REC	10	9/25/2013 11:31 AM
Surr: Dibromofluoromethane	102		71-128	%REC	1000	9/27/2013 11:16 AM
Surr: Dibromofluoromethane	92.9		71-128	%REC	10	9/25/2013 11:31 AM
Surr: Toluene-d8	96.3		73-127	%REC	1000	9/27/2013 11:16 AM
Surr: Toluene-d8	104		73-127	%REC	10	9/25/2013 11:31 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091061

**Sample ID:** Trip Blank 090613-07

**Lab ID:** 13091061-08

**Collection Date:** 9/23/2013

**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>AKP</b>
1,1,1-Trichloroethane	U		1.0	µg/L	1	9/25/2013 01:27 PM
1,1,2,2-Tetrachloroethane	U		1.0	µg/L	1	9/25/2013 01:27 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	U		1.0	µg/L	1	9/25/2013 01:27 PM
1,1,2-Trichloroethane	U		1.0	µg/L	1	9/25/2013 01:27 PM
1,1-Dichloroethane	U		1.0	µg/L	1	9/25/2013 01:27 PM
1,1-Dichloroethene	U		1.0	µg/L	1	9/25/2013 01:27 PM
1,2,4-Trichlorobenzene	U		1.0	µg/L	1	9/25/2013 01:27 PM
1,2-Dibromo-3-chloropropane	U		1.0	µg/L	1	9/25/2013 01:27 PM
1,2-Dibromoethane	U		1.0	µg/L	1	9/25/2013 01:27 PM
1,2-Dichlorobenzene	U		1.0	µg/L	1	9/25/2013 01:27 PM
1,2-Dichloroethane	U		1.0	µg/L	1	9/25/2013 01:27 PM
1,2-Dichloropropane	U		1.0	µg/L	1	9/25/2013 01:27 PM
1,3-Dichlorobenzene	U		1.0	µg/L	1	9/25/2013 01:27 PM
1,4-Dichlorobenzene	U		1.0	µg/L	1	9/25/2013 01:27 PM
2-Butanone	U		2.0	µg/L	1	9/25/2013 01:27 PM
2-Hexanone	U		2.0	µg/L	1	9/25/2013 01:27 PM
4-Methyl-2-pentanone	U		2.0	µg/L	1	9/25/2013 01:27 PM
Acetone	U		2.0	µg/L	1	9/25/2013 01:27 PM
Benzene	U		1.0	µg/L	1	9/25/2013 01:27 PM
Bromodichloromethane	U		1.0	µg/L	1	9/25/2013 01:27 PM
Bromoform	U		1.0	µg/L	1	9/25/2013 01:27 PM
Bromomethane	U		1.0	µg/L	1	9/25/2013 01:27 PM
Carbon disulfide	U		2.0	µg/L	1	9/25/2013 01:27 PM
Carbon tetrachloride	U		1.0	µg/L	1	9/25/2013 01:27 PM
Chlorobenzene	U		1.0	µg/L	1	9/25/2013 01:27 PM
Chloroethane	U		1.0	µg/L	1	9/25/2013 01:27 PM
Chloroform	U		1.0	µg/L	1	9/25/2013 01:27 PM
Chloromethane	U		1.0	µg/L	1	9/25/2013 01:27 PM
cis-1,2-Dichloroethene	U		1.0	µg/L	1	9/25/2013 01:27 PM
cis-1,3-Dichloropropene	U		1.0	µg/L	1	9/25/2013 01:27 PM
Cyclohexane	U	n	1.0	µg/L	1	9/25/2013 01:27 PM
Dibromochloromethane	U		1.0	µg/L	1	9/25/2013 01:27 PM
Dichlorodifluoromethane	U		1.0	µg/L	1	9/25/2013 01:27 PM
Dichloromethane	U		10	µg/L	1	9/25/2013 01:27 PM
Ethylbenzene	U		1.0	µg/L	1	9/25/2013 01:27 PM
Isopropylbenzene	U		1.0	µg/L	1	9/25/2013 01:27 PM
m,p-Xylene	U		2.0	µg/L	1	9/25/2013 01:27 PM
Methyl acetate	U		1.0	µg/L	1	9/25/2013 01:27 PM
Methyl tert-butyl ether	U		1.0	µg/L	1	9/25/2013 01:27 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 09-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091061

**Sample ID:** Trip Blank 090613-07

**Lab ID:** 13091061-08

**Collection Date:** 9/23/2013

**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		1.0	µg/L	1	9/25/2013 01:27 PM
o-Xylene	U		1.0	µg/L	1	9/25/2013 01:27 PM
Styrene	U		1.0	µg/L	1	9/25/2013 01:27 PM
Tetrachloroethene	U		1.0	µg/L	1	9/25/2013 01:27 PM
Toluene	U		1.0	µg/L	1	9/25/2013 01:27 PM
trans-1,2-Dichloroethene	U		1.0	µg/L	1	9/25/2013 01:27 PM
trans-1,3-Dichloropropene	U		1.0	µg/L	1	9/25/2013 01:27 PM
Trichloroethene	U		1.0	µg/L	1	9/25/2013 01:27 PM
Trichlorofluoromethane	U		1.0	µg/L	1	9/25/2013 01:27 PM
Vinyl chloride	U		1.0	µg/L	1	9/25/2013 01:27 PM
Xylenes, Total	U		3.0	µg/L	1	9/25/2013 01:27 PM
Surr: 1,2-Dichloroethane-d4	95.7		70-125	%REC	1	9/25/2013 01:27 PM
Surr: 4-Bromofluorobenzene	92.5		72-125	%REC	1	9/25/2013 01:27 PM
Surr: Dibromofluoromethane	103		71-125	%REC	1	9/25/2013 01:27 PM
Surr: Toluene-d8	101		75-125	%REC	1	9/25/2013 01:27 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**Work Order:** 13091061  
**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES 136524

**DATES REPORT**

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<b><u>Batch ID 73349</u>      <u>Test Name: Texas TPH - TX1005</u></b>						
13091061-01B	B-10 (34-36)	Soil	9/23/2013 10:00:00 AM		9/25/2013 03:54 PM	9/26/2013 04:18 PM
13091061-02B	B-9 (12-14)		9/23/2013 11:30:00 AM		9/25/2013 03:54 PM	9/26/2013 04:50 PM
13091061-03B	B-11 (26-28)		9/23/2013 1:10:00 PM		9/25/2013 03:54 PM	9/26/2013 02:42 PM
13091061-04B	B-12 (14-16)		9/23/2013 2:35:00 PM		9/25/2013 03:54 PM	9/26/2013 03:14 PM
13091061-06B	B-13 (20-22)		9/23/2013 3:35:00 PM		9/25/2013 03:54 PM	9/26/2013 03:46 PM
13091061-07B	B-14 (26-28)		9/23/2013 4:40:00 PM		9/25/2013 03:54 PM	9/27/2013 12:26 PM
<b><u>Batch ID 73422</u>      <u>Test Name: Low-level Texas TPH - TX1005</u></b>						
13091061-05B	B-12	Water	9/23/2013 2:50:00 PM		9/27/2013 11:00 AM	9/27/2013 05:49 PM
<b><u>Batch ID R154242</u>      <u>Test Name: TCL Volatiles - SW8260C</u></b>						
13091061-04	B-12 (14-16)	Soil	9/23/2013 2:35:00 PM			9/25/2013 02:19 PM
<sup>A</sup> 13091061-06	B-13 (20-22)		9/23/2013 3:35:00 PM			9/25/2013 02:43 PM
<sup>A</sup> 13091061-07	B-14 (26-28)		9/23/2013 4:40:00 PM			9/25/2013 11:31 AM
<sup>A</sup>						
<b><u>Batch ID R154310</u>      <u>Test Name: TCL Volatiles - SW8260C</u></b>						
13091061-08	Trip Blank 090613-07	Water	9/23/2013			9/25/2013 01:27 PM
<sup>A</sup>						
<b><u>Batch ID R154379</u>      <u>Test Name: Volatiles - SW8260C</u></b>						
13091061-01	B-10 (34-36)	Soil	9/23/2013 10:00:00 AM			9/25/2013 10:53 AM
<sup>A</sup> 13091061-02	B-9 (12-14)		9/23/2013 11:30:00 AM			9/25/2013 11:22 AM
<sup>A</sup> 13091061-03	B-11 (26-28)		9/23/2013 1:10:00 PM			9/25/2013 11:50 AM
<sup>A</sup>						
<b><u>Batch ID R154401</u>      <u>Test Name: TCL Volatiles - SW8260C</u></b>						
13091061-07	B-14 (26-28)	Soil	9/23/2013 4:40:00 PM			9/27/2013 11:16 AM
<sup>A</sup>						

**Work Order:** 13091061  
**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES 136524

**DATES REPORT**

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Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
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**Batch ID** R154409    **Test Name:** TCL Volatiles - SW8260C

13091061-05	B-12	Water	9/23/2013 2:50:00 PM			9/26/2013 06:09 PM
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A

ALS Environmental

Date: 09-Oct-13

Client: Kleinfelder

QC BATCH REPORT

Work Order: 13091061

Project: COH-Montrose-Midtown Phase II ES 136524

Batch ID: 73349

Instrument ID FID-10

Method: TX1005

MBLK		Sample ID: FBLKS1-130925-73349			Units: mg/Kg			Analysis Date: 9/26/2013 10:34 AM		
Client ID:		Run ID: FID-10_130925A			SeqNo: 3370348			Prep Date: 9/25/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	U	50								
>nC12 to nC28	U	50								
>nC28 to nC35	U	50								
Total Petroleum Hydrocarbon	U	50								
Surr: 2-Fluorobiphenyl	21.79	0	25	0	87.1	70-130	0			
Surr: Trifluoromethyl benzene	20.14	0	25	0	80.6	70-130	0			

LCS		Sample ID: FLCSS1-130925-73349			Units: mg/Kg			Analysis Date: 9/26/2013 11:04 AM		
Client ID:		Run ID: FID-10_130925A			SeqNo: 3370349			Prep Date: 9/25/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	227.8	50	250	0	91.1	75-125				
>nC12 to nC28	226.7	50	250	0	90.7	75-125				
Surr: 2-Fluorobiphenyl	25.04	0	25	0	100	70-130	0			
Surr: Trifluoromethyl benzene	21.5	0	25	0	86	70-130	0			

LCSD		Sample ID: FLCSDS1-130925-73349			Units: mg/Kg			Analysis Date: 9/26/2013 11:33 AM		
Client ID:		Run ID: FID-10_130925A			SeqNo: 3370350			Prep Date: 9/25/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	234	50	250	0	93.6	75-125	227.8	2.67	20	
>nC12 to nC28	235.5	50	250	0	94.2	75-125	226.7	3.8	20	
Surr: 2-Fluorobiphenyl	25.7	0	25	0	103	70-130	25.04	2.61	20	
Surr: Trifluoromethyl benzene	22.35	0	25	0	89.4	70-130	21.5	3.86	20	

MS		Sample ID: 13091112-01AMS			Units: mg/Kg			Analysis Date: 9/26/2013 11:04 AM		
Client ID:		Run ID: FID-10_130925A			SeqNo: 3370695			Prep Date: 9/25/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	359.3	50	247.8	0	145	75-125				S
>nC12 to nC28	295.5	50	247.8	0	119	75-125				
Surr: 2-Fluorobiphenyl	31.5	0	24.78	0	127	70-130	0			
Surr: Trifluoromethyl benzene	23.16	0	24.78	0	93.5	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **73349**      Instrument ID **FID-10**      Method: **TX1005**

MSD		Sample ID: <b>13091112-01AMSD</b>			Units: <b>mg/Kg</b>			Analysis Date: <b>9/26/2013 11:33 AM</b>			
Client ID:		Run ID: <b>FID-10_130925A</b>			SeqNo: <b>3370696</b>		Prep Date: <b>9/25/2013</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
nC6 to nC12	355.4	50	248.5	0	143	75-125	359.3	1.09	20	S	
>nC12 to nC28	286	50	248.5	0	115	75-125	295.5	3.29	20		
<i>Surr: 2-Fluorobiphenyl</i>	31.38	0	24.85	0	126	70-130	31.5	0.366	20		
<i>Surr: Trifluoromethyl benzene</i>	23.35	0	24.85	0	94	70-130	23.16	0.811	20		

The following samples were analyzed in this batch:

13091061-01B	13091061-02B	13091061-03B
13091061-04B	13091061-06B	13091061-07B

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091061  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: 73422 Instrument ID FID-12 Method: TX1005

MBLK		Sample ID: FBLKW1-130927-73422			Units: mg/L			Analysis Date: 9/27/2013 12:26 PM		
Client ID:		Run ID: FID-12_130927C			SeqNo: 3376775			Prep Date: 9/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	U	0.50								
>nC12 to nC28	U	0.50								
>nC28 to nC35	U	0.50								
Total Petroleum Hydrocarbon	U	0.50								
Surr: 2-Fluorobiphenyl	2.882	0	2.5	0	115	70-130	0			
Surr: Trifluoromethyl benzene	2.497	0	2.5	0	99.9	70-130	0			

LCS		Sample ID: FLCSW1-130927-73422			Units: mg/L			Analysis Date: 9/27/2013 12:58 PM		
Client ID:		Run ID: FID-12_130927C			SeqNo: 3376776			Prep Date: 9/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	22.68	0.50	25	0	90.7	75-125				
>nC12 to nC28	20.53	0.50	25	0	82.1	75-125				
Surr: 2-Fluorobiphenyl	2.633	0	2.5	0	105	70-130	0			
Surr: Trifluoromethyl benzene	1.912	0	2.5	0	76.5	70-130	0			

LCSD		Sample ID: FLCSDW1-130927-73422			Units: mg/L			Analysis Date: 9/27/2013 01:30 PM		
Client ID:		Run ID: FID-12_130927C			SeqNo: 3376777			Prep Date: 9/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	25.49	0.50	25	0	102	75-125	22.68	11.7	20	
>nC12 to nC28	22.81	0.50	25	0	91.2	75-125	20.53	10.5	20	
Surr: 2-Fluorobiphenyl	2.987	0	2.5	0	119	70-130	2.633	12.6	20	
Surr: Trifluoromethyl benzene	2.127	0	2.5	0	85.1	70-130	1.912	10.6	20	

MS		Sample ID: 13091211-11BMS			Units: mg/L			Analysis Date: 9/27/2013 02:35 PM		
Client ID:		Run ID: FID-12_130927C			SeqNo: 3376779			Prep Date: 9/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	28.29	0.48	23.87	0	119	75-125				
>nC12 to nC28	27.49	0.48	23.87	0	115	75-125				
Surr: 2-Fluorobiphenyl	2.936	0	2.387	0	123	70-130	0			
Surr: Trifluoromethyl benzene	2.019	0	2.387	0	84.6	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **73422**      Instrument ID **FID-12**      Method: **TX1005**

MSD		Sample ID: <b>13091211-11BMSD</b>			Units: <b>mg/L</b>			Analysis Date: <b>9/27/2013 03:07 PM</b>		
Client ID:		Run ID: <b>FID-12_130927C</b>			SeqNo: <b>3376780</b>			Prep Date: <b>9/27/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	24.79	0.48	24.08	0	103	75-125	28.29	13.2	20	
>nC12 to nC28	24.81	0.48	24.08	0	103	75-125	27.49	10.2	20	
<i>Surr: 2-Fluorobiphenyl</i>	2.672	0	2.408	0	111	70-130	2.936	9.42	20	
<i>Surr: Trifluoromethyl benzene</i>	1.882	0	2.408	0	78.2	70-130	2.019	7	20	

The following samples were analyzed in this batch:

13091061-05B
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **R154242**      Instrument ID **VOA5**      Method: **SW8260**

**MBLK**      Sample ID: **VBLKS1-092513-R154242**      Units: **µg/Kg**      Analysis Date: **9/25/2013 09:10 AM**

Client ID:      Run ID: **VOA5\_130925A**      SeqNo: **3367860**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	10								
4-Methyl-2-pentanone	U	10								
Acetone	U	20								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	10								
Carbon disulfide	U	10								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	10								
Chloroform	U	5.0								
Chloromethane	U	10								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	5.0								
Dichloromethane	U	10								
Ethylbenzene	U	5.0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	10								
Methyl acetate	U	5.0								

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

## QC BATCH REPORT

Batch ID: <b>R154242</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>						
Methyl tert-butyl ether	U	5.0						
Methylcyclohexane	U	5.0						
o-Xylene	U	5.0						
Styrene	U	5.0						
Tetrachloroethene	U	5.0						
Toluene	U	5.0						
trans-1,2-Dichloroethene	U	5.0						
trans-1,3-Dichloropropene	U	5.0						
Trichloroethene	U	5.0						
Trichlorofluoromethane	U	5.0						
Vinyl chloride	U	2.0						
Xylenes, Total	U	10						
<i>Surr: 1,2-Dichloroethane-d4</i>	46.69	0	50	0	93.4	70-128	0	
<i>Surr: 4-Bromofluorobenzene</i>	48.92	0	50	0	97.8	73-126	0	
<i>Surr: Dibromofluoromethane</i>	47.36	0	50	0	94.7	71-128	0	
<i>Surr: Toluene-d8</i>	50.93	0	50	0	102	73-127	0	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **R154242**      Instrument ID **VOA5**      Method: **SW8260**

**LCS**      Sample ID: **VLCSS1-092513-R154242**      Units: **µg/Kg**      Analysis Date: **9/25/2013 08:23 AM**

Client ID:      Run ID: **VOA5\_130925A**      SeqNo: **3367859**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.63	5.0	50	0	97.3	79-124				
1,1,2,2-Tetrachloroethane	54.06	5.0	50	0	108	75-123				
1,1,2-Trichlor-1,2,2-trifluoroethane	49.51	5.0	50	0	99	79-125				
1,1,2-Trichloroethane	54.48	5.0	50	0	109	79-120				
1,1-Dichloroethane	52.59	5.0	50	0	105	75-124				
1,1-Dichloroethene	50.22	5.0	50	0	100	80-122				
1,2,4-Trichlorobenzene	54.9	5.0	50	0	110	74-128				
1,2-Dibromo-3-chloropropane	52.83	5.0	50	0	106	66-129				
1,2-Dibromoethane	55.53	5.0	50	0	111	70-120				
1,2-Dichlorobenzene	53.67	5.0	50	0	107	75-120				
1,2-Dichloroethane	53.65	5.0	50	0	107	73-121				
1,2-Dichloropropane	53.82	5.0	50	0	108	76-120				
1,3-Dichlorobenzene	54.28	5.0	50	0	109	70-125				
1,4-Dichlorobenzene	54.16	5.0	50	0	108	77-120				
2-Butanone	120.2	10	100	0	120	65-130				
2-Hexanone	114.8	10	100	0	115	65-133				
4-Methyl-2-pentanone	114.4	10	100	0	114	69-130				
Acetone	113	20	100	0	113	53-142				
Benzene	53.7	5.0	50	0	107	79-120				
Bromodichloromethane	52.8	5.0	50	0	106	79-121				
Bromoform	55.6	5.0	50	0	111	74-122				
Bromomethane	51.53	10	50	0	103	68-131				
Carbon disulfide	98.33	10	100	0	98.3	80-124				
Carbon tetrachloride	47.75	5.0	50	0	95.5	74-126				
Chlorobenzene	52.38	5.0	50	0	105	79-120				
Chloroethane	55.49	10	50	0	111	76-126				
Chloroform	53.99	5.0	50	0	108	78-120				
Chloromethane	51.28	10	50	0	103	69-129				
cis-1,2-Dichloroethene	52.63	5.0	50	0	105	80-120				
cis-1,3-Dichloropropene	53.06	5.0	50	0	106	77-123				
Cyclohexane	48.5	5.0	50	0	97	74-126				
Dibromochloromethane	53.44	5.0	50	0	107	78-122				
Dichlorodifluoromethane	47.57	5.0	50	0	95.1	57-140				
Dichloromethane	46.19	10	50	0	92.4	62-130				
Ethylbenzene	54.11	5.0	50	0	108	80-122				
Isopropylbenzene	51.34	5.0	50	0	103	72-127				
m,p-Xylene	108.1	10	100	0	108	79-122				
Methyl acetate	54.85	5.0	50	0	110	69-123				

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

## QC BATCH REPORT

Batch ID: <b>R154242</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	55.87	5.0	50	0	112	76-121	
Methylcyclohexane	48.88	5.0	50	0	97.8	77-126	
o-Xylene	54.24	5.0	50	0	108	80-123	
Styrene	54.97	5.0	50	0	110	78-124	
Tetrachloroethene	51.55	5.0	50	0	103	73-129	
Toluene	53	5.0	50	0	106	79-120	
trans-1,2-Dichloroethene	53.73	5.0	50	0	107	79-122	
trans-1,3-Dichloropropene	51.48	5.0	50	0	103	77-120	
Trichloroethene	53.53	5.0	50	0	107	80-121	
Trichlorofluoromethane	49.78	5.0	50	0	99.6	75-126	
Vinyl chloride	49.63	2.0	50	0	99.3	76-126	
Xylenes, Total	162.3	10	150	0	108	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	49.07	0	50	0	98.1	70-128	0
<i>Surr: 4-Bromofluorobenzene</i>	49.46	0	50	0	98.9	73-126	0
<i>Surr: Dibromofluoromethane</i>	50.27	0	50	0	101	71-128	0
<i>Surr: Toluene-d8</i>	48.75	0	50	0	97.5	73-127	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **R154242**      Instrument ID **VOA5**      Method: **SW8260**

MS		Sample ID: <b>13091060-01AMS</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>9/25/2013 11:55 AM</b>			
Client ID:		Run ID: <b>VOA5_130925A</b>			SeqNo: <b>3368558</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	44.02	5.0	50	0	88	79-124				
1,1,2,2-Tetrachloroethane	43.24	5.0	50	0	86.5	75-123				
1,1,2-Trichlor-1,2,2-trifluoroethane	43.79	5.0	50	0	87.6	79-125				
1,1,2-Trichloroethane	41.87	5.0	50	0	83.7	79-120				
1,1-Dichloroethane	45	5.0	50	0	90	75-124				
1,1-Dichloroethene	45.43	5.0	50	0	90.9	80-122				
1,2,4-Trichlorobenzene	42.32	5.0	50	0	84.6	74-128				
1,2-Dibromo-3-chloropropane	39.82	5.0	50	0	79.6	66-129				
1,2-Dibromoethane	42.72	5.0	50	0	85.4	70-120				
1,2-Dichlorobenzene	43.89	5.0	50	0	87.8	75-120				
1,2-Dichloroethane	42.39	5.0	50	0	84.8	73-121				
1,2-Dichloropropane	43.95	5.0	50	0	87.9	76-120				
1,3-Dichlorobenzene	43.89	5.0	50	0	87.8	70-125				
1,4-Dichlorobenzene	44.07	5.0	50	0	88.1	77-120				
2-Butanone	87.02	10	100	0	87	65-130				
2-Hexanone	85.25	10	100	0	85.2	65-133				
4-Methyl-2-pentanone	83.29	10	100	0	83.3	69-130				
Acetone	95.76	20	100	0	95.8	53-142				
Benzene	44.32	5.0	50	0	88.6	79-120				
Bromodichloromethane	42.5	5.0	50	0	85	79-121				
Bromoform	41.52	5.0	50	0	83	74-122				
Bromomethane	44.85	10	50	0	89.7	68-131				
Carbon disulfide	84.42	10	100	0	84.4	80-124				
Carbon tetrachloride	41.94	5.0	50	0	83.9	74-126				
Chlorobenzene	45.36	5.0	50	0	90.7	79-120				
Chloroethane	46.29	10	50	0	92.6	76-126				
Chloroform	45.94	5.0	50	0	91.9	78-120				
Chloromethane	43.5	10	50	0	87	69-129				
cis-1,2-Dichloroethene	44.06	5.0	50	0	88.1	80-120				
cis-1,3-Dichloropropene	42.21	5.0	50	0	84.4	77-123				
Cyclohexane	42.71	5.0	50	0	85.4	74-126				
Dibromochloromethane	43.6	5.0	50	0	87.2	78-122				
Dichlorodifluoromethane	42.47	5.0	50	0	84.9	57-140				
Dichloromethane	38.96	10	50	0	77.9	62-130				
Ethylbenzene	46.61	5.0	50	0	93.2	80-122				
Isopropylbenzene	43.54	5.0	50	0	87.1	72-127				
m,p-Xylene	91.67	10	100	0	91.7	79-122				
Methyl acetate	42.13	5.0	50	0	84.3	69-123				

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

## QC BATCH REPORT

Batch ID: <b>R154242</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	42.77	5.0	50	0	85.5	76-121	
Methylcyclohexane	42.55	5.0	50	0	85.1	77-126	
o-Xylene	45.07	5.0	50	0	90.1	80-123	
Styrene	45.19	5.0	50	0	90.4	78-124	
Tetrachloroethene	39.54	5.0	50	0	79.1	73-129	
Toluene	46.15	5.0	50	0	92.3	79-120	
trans-1,2-Dichloroethene	46.06	5.0	50	0	92.1	79-122	
trans-1,3-Dichloropropene	39.16	5.0	50	0	78.3	77-120	
Trichloroethene	42.98	5.0	50	0	86	80-121	
Trichlorofluoromethane	43.84	5.0	50	0	87.7	75-126	
Vinyl chloride	42.67	2.0	50	0	85.3	76-126	
Xylenes, Total	136.7	10	150	0	91.2	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	48.55	0	50	0	97.1	70-128	0
<i>Surr: 4-Bromofluorobenzene</i>	49.33	0	50	0	98.7	73-126	0
<i>Surr: Dibromofluoromethane</i>	48.76	0	50	0	97.5	71-128	0
<i>Surr: Toluene-d8</i>	50.37	0	50	0	101	73-127	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091061  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: R154242 Instrument ID VOA5 Method: SW8260

MSD		Sample ID: 13091060-01AMSD			Units: µg/Kg			Analysis Date: 9/25/2013 12:18 PM		
Client ID:		Run ID: VOA5_130925A			SeqNo: 3368559		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.47	5.0	50	0	98.9	79-124	44.02	11.7	30	
1,1,2,2-Tetrachloroethane	54.17	5.0	50	0	108	75-123	43.24	22.4	30	
1,1,2-Trichlor-1,2,2-trifluoroethane	48.96	5.0	50	0	97.9	79-125	43.79	11.2	30	
1,1,2-Trichloroethane	52.62	5.0	50	0	105	79-120	41.87	22.8	30	
1,1-Dichloroethane	51.81	5.0	50	0	104	75-124	45	14.1	30	
1,1-Dichloroethene	47.73	5.0	50	0	95.5	80-122	45.43	4.95	30	
1,2,4-Trichlorobenzene	52.59	5.0	50	0	105	74-128	42.32	21.7	30	
1,2-Dibromo-3-chloropropane	54.73	5.0	50	0	109	66-129	39.82	31.5	30	R
1,2-Dibromoethane	51.07	5.0	50	0	102	70-120	42.72	17.8	30	
1,2-Dichlorobenzene	52.85	5.0	50	0	106	75-120	43.89	18.5	30	
1,2-Dichloroethane	49.52	5.0	50	0	99	73-121	42.39	15.5	30	
1,2-Dichloropropane	53.01	5.0	50	0	106	76-120	43.95	18.7	30	
1,3-Dichlorobenzene	53.68	5.0	50	0	107	70-125	43.89	20.1	30	
1,4-Dichlorobenzene	53.3	5.0	50	0	107	77-120	44.07	19	30	
2-Butanone	113.9	10	100	0	114	65-130	87.02	26.7	30	
2-Hexanone	110.9	10	100	0	111	65-133	85.25	26.2	30	
4-Methyl-2-pentanone	110.9	10	100	0	111	69-130	83.29	28.4	30	
Acetone	127.3	20	100	0	127	53-142	95.76	28.3	30	
Benzene	51.57	5.0	50	0	103	79-120	44.32	15.1	30	
Bromodichloromethane	50.71	5.0	50	0	101	79-121	42.5	17.6	30	
Bromoform	50.52	5.0	50	0	101	74-122	41.52	19.6	30	
Bromomethane	50.22	10	50	0	100	68-131	44.85	11.3	30	
Carbon disulfide	96.01	10	100	0	96	80-124	84.42	12.8	30	
Carbon tetrachloride	46.7	5.0	50	0	93.4	74-126	41.94	10.8	30	
Chlorobenzene	51.5	5.0	50	0	103	79-120	45.36	12.7	30	
Chloroethane	53.79	10	50	0	108	76-126	46.29	15	30	
Chloroform	53.2	5.0	50	0	106	78-120	45.94	14.7	30	
Chloromethane	49.87	10	50	0	99.7	69-129	43.5	13.6	30	
cis-1,2-Dichloroethene	50.65	5.0	50	0	101	80-120	44.06	13.9	30	
cis-1,3-Dichloropropene	50.23	5.0	50	0	100	77-123	42.21	17.3	30	
Cyclohexane	47.79	5.0	50	0	95.6	74-126	42.71	11.2	30	
Dibromochloromethane	51.69	5.0	50	0	103	78-122	43.6	17	30	
Dichlorodifluoromethane	46.1	5.0	50	0	92.2	57-140	42.47	8.19	30	
Dichloromethane	42.72	10	50	0	85.4	62-130	38.96	9.2	30	
Ethylbenzene	52.56	5.0	50	0	105	80-122	46.61	12	30	
Isopropylbenzene	50.02	5.0	50	0	100	72-127	43.54	13.9	30	
m,p-Xylene	106.1	10	100	0	106	79-122	91.67	14.6	30	
Methyl acetate	50.04	5.0	50	0	100	69-123	42.13	17.2	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

## QC BATCH REPORT

Batch ID: <b>R154242</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>								
Methyl tert-butyl ether	52.33	5.0	50	0	105	76-121	42.77	20.1	30	
Methylcyclohexane	48.51	5.0	50	0	97	77-126	42.55	13.1	30	
o-Xylene	53.1	5.0	50	0	106	80-123	45.07	16.4	30	
Styrene	53.38	5.0	50	0	107	78-124	45.19	16.6	30	
Tetrachloroethene	41.69	5.0	50	0	83.4	73-129	39.54	5.28	30	
Toluene	51.96	5.0	50	0	104	79-120	46.15	11.9	30	
trans-1,2-Dichloroethene	52.39	5.0	50	0	105	79-122	46.06	12.9	30	
trans-1,3-Dichloropropene	46.2	5.0	50	0	92.4	77-120	39.16	16.5	30	
Trichloroethene	48.03	5.0	50	0	96.1	80-121	42.98	11.1	30	
Trichlorofluoromethane	49.04	5.0	50	0	98.1	75-126	43.84	11.2	30	
Vinyl chloride	47.31	2.0	50	0	94.6	76-126	42.67	10.3	30	
Xylenes, Total	159.2	10	150	0	106	79-123	136.7	15.2	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	47.16	0	50	0	94.3	70-128	48.55	2.9	30	
<i>Surr: 4-Bromofluorobenzene</i>	48.65	0	50	0	97.3	73-126	49.33	1.4	30	
<i>Surr: Dibromofluoromethane</i>	50.99	0	50	0	102	71-128	48.76	4.46	30	
<i>Surr: Toluene-d8</i>	49.64	0	50	0	99.3	73-127	50.37	1.45	30	

The following samples were analyzed in this batch:

13091061-04A	13091061-06A	13091061-07A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **R154310**      Instrument ID **VOA8**      Method: **SW8260**

**MBLK**      Sample ID: **VBLKW-130925-R154310**      Units: **µg/L**      Analysis Date: **9/25/2013 11:24 AM**

Client ID:      Run ID: **VOA8\_130925A**      SeqNo: **3369585**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	1.0								
1,3-Dichlorobenzene	U	1.0								
1,4-Dichlorobenzene	U	1.0								
2-Butanone	U	2.0								
2-Hexanone	U	2.0								
4-Methyl-2-pentanone	U	2.0								
Acetone	U	2.0								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	2.0								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	1.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Dichloromethane	U	2.0								
Ethylbenzene	U	1.0								
Isopropylbenzene	U	1.0								
m,p-Xylene	U	2.0								
Methyl acetate	U	1.0								

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

## QC BATCH REPORT

Batch ID: <b>R154310</b>	Instrument ID <b>VOA8</b>	Method: <b>SW8260</b>						
Methyl tert-butyl ether	U	1.0						
Methylcyclohexane	U	1.0						
o-Xylene	U	1.0						
Styrene	U	1.0						
Tetrachloroethene	U	1.0						
Toluene	U	1.0						
trans-1,2-Dichloroethene	U	1.0						
trans-1,3-Dichloropropene	U	1.0						
Trichloroethene	U	1.0						
Trichlorofluoromethane	U	1.0						
Vinyl chloride	U	1.0						
Xylenes, Total	U	3.0						
<i>Surr: 1,2-Dichloroethane-d4</i>	47.94	1.0	50	0	95.9	71-125	0	
<i>Surr: 4-Bromofluorobenzene</i>	46.83	1.0	50	0	93.7	70-125	0	
<i>Surr: Dibromofluoromethane</i>	51.51	1.0	50	0	103	74-125	0	
<i>Surr: Toluene-d8</i>	49.94	1.0	50	0	99.9	75-125	0	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **R154310**      Instrument ID **VOA8**      Method: **SW8260**

**LCS**      Sample ID: **VLCSW-130925-R154310**      Units: **µg/L**      Analysis Date: **9/25/2013 10:11 AM**

Client ID:      Run ID: **VOA8\_130925A**      SeqNo: **3369584**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.82	1.0	50	0	97.6	75-130				
1,1,2,2-Tetrachloroethane	43.03	1.0	50	0	86.1	74-123				
1,1,2-Trichlor-1,2,2-trifluoroethane	53.63	1.0	50	0	107	70-130				
1,1,2-Trichloroethane	43.82	1.0	50	0	87.6	80-120				
1,1-Dichloroethane	46.44	1.0	50	0	92.9	80-120				
1,1-Dichloroethene	47.85	1.0	50	0	95.7	75-130				
1,2,4-Trichlorobenzene	53.06	1.0	50	0	106	77-120				
1,2-Dibromo-3-chloropropane	40.47	1.0	50	0	80.9	68-120				
1,2-Dibromoethane	45.61	1.0	50	0	91.2	80-120				
1,2-Dichlorobenzene	48.77	1.0	50	0	97.5	80-120				
1,2-Dichloroethane	45.97	1.0	50	0	91.9	79-120				
1,2-Dichloropropane	48.23	1.0	50	0	96.5	80-120				
1,3-Dichlorobenzene	49.13	1.0	50	0	98.3	80-120				
1,4-Dichlorobenzene	45.55	1.0	50	0	91.1	80-120				
2-Butanone	95.59	2.0	100	0	95.6	60-140				
2-Hexanone	81.36	2.0	100	0	81.4	60-131				
4-Methyl-2-pentanone	94.3	2.0	100	0	94.3	60-135				
Acetone	88.67	2.0	100	0	88.7	60-140				
Benzene	48.47	1.0	50	0	96.9	80-120				
Bromodichloromethane	47.18	1.0	50	0	94.4	75-120				
Bromoform	45.48	1.0	50	0	91	70-130				
Bromomethane	47.59	1.0	50	0	95.2	63-139				
Carbon disulfide	97.45	2.0	100	0	97.5	75-125				
Carbon tetrachloride	49.37	1.0	50	0	98.7	75-125				
Chlorobenzene	44.18	1.0	50	0	88.4	80-120				
Chloroethane	50.06	1.0	50	0	100	70-130				
Chloroform	46.17	1.0	50	0	92.3	70-130				
Chloromethane	44.57	1.0	50	0	89.1	65-130				
cis-1,2-Dichloroethene	47.39	1.0	50	0	94.8	75-125				
cis-1,3-Dichloropropene	54.59	1.0	50	0	109	79-125				
Cyclohexane	49.7	1.0	50	0	99.4	75-125				
Dibromochloromethane	46.03	1.0	50	0	92.1	70-130				
Dichlorodifluoromethane	44.69	1.0	50	0	89.4	60-140				
Dichloromethane	52.46	2.0	50	0	105	65-133				
Ethylbenzene	50.22	1.0	50	0	100	80-120				
Isopropylbenzene	46.07	1.0	50	0	92.1	80-120				
m,p-Xylene	104	2.0	100	0	104	80-120				
Methyl acetate	41.25	1.0	50	0	82.5	76-122				

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

## QC BATCH REPORT

Batch ID: <b>R154310</b>	Instrument ID <b>VOA8</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	46.61	1.0	50	0	93.2	70-125	
Methylcyclohexane	48.88	1.0	50	0	97.8	79-123	
o-Xylene	46.53	1.0	50	0	93.1	80-120	
Styrene	45.54	1.0	50	0	91.1	78-122	
Tetrachloroethene	47.25	1.0	50	0	94.5	75-130	
Toluene	49.77	1.0	50	0	99.5	80-121	
trans-1,2-Dichloroethene	46.72	1.0	50	0	93.4	75-125	
trans-1,3-Dichloropropene	48.52	1.0	50	0	97	76-125	
Trichloroethene	48.29	1.0	50	0	96.6	75-125	
Trichlorofluoromethane	52.48	1.0	50	0	105	72-132	
Vinyl chloride	47.49	1.0	50	0	95	70-135	
Xylenes, Total	150.5	3.0	150	0	100	80-124	
<i>Surr: 1,2-Dichloroethane-d4</i>	44.39	1.0	50	0	88.8	71-125	0
<i>Surr: 4-Bromofluorobenzene</i>	50.63	1.0	50	0	101	70-125	0
<i>Surr: Dibromofluoromethane</i>	48.66	1.0	50	0	97.3	74-125	0
<i>Surr: Toluene-d8</i>	51.16	1.0	50	0	102	75-125	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **R154310**      Instrument ID **VOA8**      Method: **SW8260**

MS		Sample ID: <b>1309917-01AMS</b>			Units: <b>µg/L</b>		Analysis Date: <b>9/25/2013 03:54 PM</b>			
Client ID:		Run ID: <b>VOA8_130925A</b>			SeqNo: <b>3369596</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	53.17	1.0	50	0	106	75-130				
1,1,2,2-Tetrachloroethane	46.29	1.0	50	0	92.6	74-123				
1,1,2-Trichlor-1,2,2-trifluoroethane	60.27	1.0	50	0	121	70-130				
1,1,2-Trichloroethane	45.57	1.0	50	0	91.1	80-120				
1,1-Dichloroethane	49.05	1.0	50	0	98.1	80-120				
1,1-Dichloroethene	52.95	1.0	50	0	106	75-130				
1,2,4-Trichlorobenzene	47.34	1.0	50	0	94.7	77-120				
1,2-Dibromo-3-chloropropane	46.73	1.0	50	0	93.5	68-120				
1,2-Dibromoethane	48.92	1.0	50	0	97.8	80-120				
1,2-Dichlorobenzene	47.67	1.0	50	0	95.3	80-120				
1,2-Dichloroethane	48.43	1.0	50	0	96.9	79-120				
1,2-Dichloropropane	51.23	1.0	50	0	102	80-120				
1,3-Dichlorobenzene	48.11	1.0	50	0	96.2	80-120				
1,4-Dichlorobenzene	44.55	1.0	50	0	89.1	80-120				
2-Butanone	108.4	2.0	100	0	108	60-140				
2-Hexanone	110.2	2.0	100	0	110	60-131				
4-Methyl-2-pentanone	117.8	2.0	100	0	118	60-135				
Acetone	105.1	2.0	100	0	105	60-140				
Benzene	52.78	1.0	50	0	106	80-120				
Bromodichloromethane	49.91	1.0	50	0	99.8	75-120				
Bromoform	47.86	1.0	50	0	95.7	70-130				
Bromomethane	48.02	1.0	50	0	96	63-139				
Carbon disulfide	108.9	2.0	100	0	109	75-125				
Carbon tetrachloride	54.71	1.0	50	0	109	79-120				
Chlorobenzene	46.1	1.0	50	0	92.2	80-120				
Chloroethane	57.48	1.0	50	0	115	70-130				
Chloroform	50.03	1.0	50	0	100	70-130				
Chloromethane	49.09	1.0	50	0	98.2	65-130				
cis-1,2-Dichloroethene	51.01	1.0	50	0	102	75-125				
cis-1,3-Dichloropropene	53.48	1.0	50	0	107	79-125				
Cyclohexane	50.24	1.0	50	0	100	75-125				
Dibromochloromethane	48.75	1.0	50	0	97.5	70-130				
Dichlorodifluoromethane	47.78	1.0	50	0	95.6	60-140				
Dichloromethane	55.77	2.0	50	0	112	65-133				
Ethylbenzene	52.97	1.0	50	0	106	80-120				
Isopropylbenzene	46.9	1.0	50	0	93.8	80-120				
m,p-Xylene	108.2	2.0	100	0	108	80-120				
Methyl acetate	45.25	1.0	50	0	90.5	76-122				

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

## QC BATCH REPORT

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Batch ID: <b>R154310</b>	Instrument ID <b>VOA8</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	50.23	1.0	50	0	100	70-125	
Methylcyclohexane	50.54	1.0	50	0	101	79-123	
o-Xylene	47.28	1.0	50	0	94.6	80-120	
Styrene	46.85	1.0	50	0	93.7	78-122	
Tetrachloroethene	49.32	1.0	50	0	98.6	75-130	
Toluene	53.09	1.0	50	0	106	80-121	
trans-1,2-Dichloroethene	52.09	1.0	50	0	104	75-125	
trans-1,3-Dichloropropene	49.65	1.0	50	0	99.3	76-125	
Trichloroethene	52.68	1.0	50	0	105	75-125	
Trichlorofluoromethane	59.59	1.0	50	0	119	72-132	
Vinyl chloride	52.87	1.0	50	0	106	70-135	
Xylenes, Total	155.5	3.0	150	0	104	80-124	
<i>Surr: 1,2-Dichloroethane-d4</i>	47.43	1.0	50	0	94.9	71-125	0
<i>Surr: 4-Bromofluorobenzene</i>	51.16	1.0	50	0	102	70-125	0
<i>Surr: Dibromofluoromethane</i>	50.3	1.0	50	0	101	74-125	0
<i>Surr: Toluene-d8</i>	51.39	1.0	50	0	103	75-125	0

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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091061  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **R154310** Instrument ID **VOA8** Method: **SW8260**

MSD		Sample ID: <b>1309917-01AMSD</b>			Units: <b>µg/L</b>			Analysis Date: <b>9/25/2013 04:18 PM</b>		
Client ID:		Run ID: <b>VOA8_130925A</b>			SeqNo: <b>3369597</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	52.9	1.0	50	0	106	75-130	53.17	0.505	20	
1,1,2,2-Tetrachloroethane	48.21	1.0	50	0	96.4	74-123	46.29	4.06	20	
1,1,2-Trichlor-1,2,2-trifluoroethane	57.5	1.0	50	0	115	70-130	60.27	4.71	20	
1,1,2-Trichloroethane	47.06	1.0	50	0	94.1	80-120	45.57	3.21	20	
1,1-Dichloroethane	49.13	1.0	50	0	98.3	80-120	49.05	0.172	20	
1,1-Dichloroethene	52.48	1.0	50	0	105	75-130	52.95	0.907	20	
1,2,4-Trichlorobenzene	51.59	1.0	50	0	103	77-120	47.34	8.58	20	
1,2-Dibromo-3-chloropropane	48.36	1.0	50	0	96.7	68-120	46.73	3.42	20	
1,2-Dibromoethane	49.77	1.0	50	0	99.5	80-120	48.92	1.72	20	
1,2-Dichlorobenzene	50.09	1.0	50	0	100	80-120	47.67	4.95	20	
1,2-Dichloroethane	47.54	1.0	50	0	95.1	79-120	48.43	1.84	20	
1,2-Dichloropropane	50.31	1.0	50	0	101	80-120	51.23	1.83	20	
1,3-Dichlorobenzene	50.62	1.0	50	0	101	80-120	48.11	5.07	20	
1,4-Dichlorobenzene	46.39	1.0	50	0	92.8	80-120	44.55	4.05	20	
2-Butanone	106.7	2.0	100	0	107	60-140	108.4	1.64	20	
2-Hexanone	115.3	2.0	100	0	115	60-131	110.2	4.49	20	
4-Methyl-2-pentanone	122.5	2.0	100	0	123	60-135	117.8	3.93	20	
Acetone	102.8	2.0	100	0	103	60-140	105.1	2.17	20	
Benzene	51.59	1.0	50	0	103	80-120	52.78	2.27	20	
Bromodichloromethane	48.65	1.0	50	0	97.3	75-120	49.91	2.55	20	
Bromoform	49.49	1.0	50	0	99	70-130	47.86	3.35	20	
Bromomethane	50.36	1.0	50	0	101	63-139	48.02	4.75	20	
Carbon disulfide	103.9	2.0	100	0	104	75-125	108.9	4.66	20	
Carbon tetrachloride	53.41	1.0	50	0	107	75-125	54.71	2.4	20	
Chlorobenzene	46.8	1.0	50	0	93.6	80-120	46.1	1.5	20	
Chloroethane	55.15	1.0	50	0	110	70-130	57.48	4.15	20	
Chloroform	49.5	1.0	50	0	99	70-130	50.03	1.07	20	
Chloromethane	48.64	1.0	50	0	97.3	65-130	49.09	0.924	20	
cis-1,2-Dichloroethene	50.37	1.0	50	0	101	75-125	51.01	1.25	20	
cis-1,3-Dichloropropene	53.38	1.0	50	0	107	79-125	53.48	0.192	20	
Cyclohexane	49.21	1.0	50	0	98.4	75-125	50.24	2.06	20	
Dibromochloromethane	48.59	1.0	50	0	97.2	70-130	48.75	0.327	20	
Dichlorodifluoromethane	46.44	1.0	50	0	92.9	60-140	47.78	2.83	20	
Dichloromethane	53.7	2.0	50	0	107	65-133	55.77	3.78	20	
Ethylbenzene	53.16	1.0	50	0	106	80-120	52.97	0.348	20	
Isopropylbenzene	48.05	1.0	50	0	96.1	80-120	46.9	2.43	20	
m,p-Xylene	109.8	2.0	100	0	110	80-120	108.2	1.41	20	
Methyl acetate	44.05	1.0	50	0	88.1	76-122	45.25	2.69	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

## QC BATCH REPORT

Batch ID: <b>R154310</b>	Instrument ID <b>VOA8</b>	Method: <b>SW8260</b>								
Methyl tert-butyl ether	50.32	1.0	50	0	101	70-125	50.23	0.167	20	
Methylcyclohexane	48.44	1.0	50	0	96.9	79-123	50.54	4.25	20	
o-Xylene	48.38	1.0	50	0	96.8	80-120	47.28	2.3	20	
Styrene	48.36	1.0	50	0	96.7	78-122	46.85	3.19	20	
Tetrachloroethene	49.88	1.0	50	0	99.8	75-130	49.32	1.13	20	
Toluene	53.27	1.0	50	0	107	80-121	53.09	0.34	20	
trans-1,2-Dichloroethene	50.48	1.0	50	0	101	75-125	52.09	3.13	20	
trans-1,3-Dichloropropene	48.94	1.0	50	0	97.9	76-125	49.65	1.44	20	
Trichloroethene	51.26	1.0	50	0	103	75-120	52.68	2.75	20	
Trichlorofluoromethane	58.14	1.0	50	0	116	72-132	59.59	2.47	20	
Vinyl chloride	51.39	1.0	50	0	103	70-135	52.87	2.82	20	
Xylenes, Total	158.1	3.0	150	0	105	80-124	155.5	1.68	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	45.7	1.0	50	0	91.4	71-125	47.43	3.72	20	
<i>Surr: 4-Bromofluorobenzene</i>	52.26	1.0	50	0	105	70-125	51.16	2.13	20	
<i>Surr: Dibromofluoromethane</i>	50.12	1.0	50	0	100	74-125	50.3	0.345	20	
<i>Surr: Toluene-d8</i>	51.14	1.0	50	0	102	75-125	51.39	0.481	20	

The following samples were analyzed in this batch:

13091061-08A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091061  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: R154379 Instrument ID VOA3 Method: SW8260

MBLK		Sample ID: VBLKS1-092513-R154379			Units: µg/Kg			Analysis Date: 9/25/2013 10:25 AM		
Client ID:		Run ID: VOA3_130925A			SeqNo: 3371067		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
m,p-Xylene	U	10								
Methyl tert-butyl ether	U	5.0								
o-Xylene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	10								
Surr: 1,2-Dichloroethane-d4	44.5	0	50	0	89	70-128	0			
Surr: 4-Bromofluorobenzene	51.31	0	50	0	103	73-126	0			
Surr: Dibromofluoromethane	53.49	0	50	0	107	71-128	0			
Surr: Toluene-d8	49.91	0	50	0	99.8	73-127	0			

LCS		Sample ID: VLCSS1-092513-R154379			Units: µg/Kg			Analysis Date: 9/25/2013 09:29 AM		
Client ID:		Run ID: VOA3_130925A			SeqNo: 3371066		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	53.8	5.0	50	0	108	79-120				
Ethylbenzene	52.69	5.0	50	0	105	80-122				
m,p-Xylene	105.1	10	100	0	105	79-122				
Methyl tert-butyl ether	52.36	5.0	50	0	105	76-121				
o-Xylene	50.72	5.0	50	0	101	80-123				
Toluene	52.45	5.0	50	0	105	79-120				
Xylenes, Total	155.9	10	150	0	104	80-120				
Surr: 1,2-Dichloroethane-d4	49.33	0	50	0	98.7	70-128	0			
Surr: 4-Bromofluorobenzene	53.54	0	50	0	107	73-126	0			
Surr: Dibromofluoromethane	56.37	0	50	0	113	71-128	0			
Surr: Toluene-d8	50.19	0	50	0	100	73-127	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091061  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: R154379 Instrument ID VOA3 Method: SW8260

MS		Sample ID: 13091061-01AMS			Units: µg/Kg			Analysis Date: 9/25/2013 01:16 PM		
Client ID: B-10 (34-36)		Run ID: VOA3_130925A			SeqNo: 3371073		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	59.22	5.0	50	0	118	79-120				
Ethylbenzene	57.19	5.0	50	0	114	80-122				
m,p-Xylene	112.2	10	100	0	112	79-122				
Methyl tert-butyl ether	55.03	5.0	50	0	110	76-121				
o-Xylene	55.36	5.0	50	0	111	80-123				
Toluene	57.04	5.0	50	0	114	79-120				
Xylenes, Total	167.6	10	150	0	112	80-120				
Surr: 1,2-Dichloroethane-d4	50.67	0	50	0	101	70-128	0			
Surr: 4-Bromofluorobenzene	52.21	0	50	0	104	73-126	0			
Surr: Dibromofluoromethane	55.09	0	50	0	110	71-128	0			
Surr: Toluene-d8	50.91	0	50	0	102	73-127	0			

MSD		Sample ID: 13091061-01AMSD			Units: µg/Kg			Analysis Date: 9/25/2013 01:44 PM		
Client ID: B-10 (34-36)		Run ID: VOA3_130925A			SeqNo: 3371074		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	63.1	5.0	50	0	126	79-120	59.22	6.36	30	S
Ethylbenzene	60.97	5.0	50	0	122	80-122	57.19	6.38	30	
m,p-Xylene	120.2	10	100	0	120	79-122	112.2	6.85	30	
Methyl tert-butyl ether	57.4	5.0	50	0	115	76-121	55.03	4.22	30	
o-Xylene	58.18	5.0	50	0	116	80-123	55.36	4.97	30	
Toluene	59.61	5.0	50	0	119	79-120	57.04	4.4	30	
Xylenes, Total	178.3	10	150	0	119	79-123	167.6	6.23	30	
Surr: 1,2-Dichloroethane-d4	49.13	0	50	0	98.3	70-128	50.67	3.08	30	
Surr: 4-Bromofluorobenzene	53.66	0	50	0	107	73-126	52.21	2.75	30	
Surr: Dibromofluoromethane	54.83	0	50	0	110	71-128	55.09	0.482	30	
Surr: Toluene-d8	49.55	0	50	0	99.1	73-127	50.91	2.71	30	

The following samples were analyzed in this batch:

13091061-01A	13091061-02A	13091061-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091061  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **R154401** Instrument ID **VOA3** Method: **SW8260**

**MBLK** Sample ID: **VBLKM1-092413-R154401** Units: **µg/Kg** Analysis Date: **9/27/2013 09:23 AM**

Client ID: Run ID: **VOA3\_130927A** SeqNo: **3371673** Prep Date: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyclohexane	U	250								
Methylcyclohexane	U	250								
Surr: 1,2-Dichloroethane-d4	3141	0	2500	0	126	70-128	0			
Surr: 4-Bromofluorobenzene	2866	0	2500	0	115	73-126	0			
Surr: Dibromofluoromethane	2722	0	2500	0	109	71-128	0			
Surr: Toluene-d8	2451	0	2500	0	98.1	73-127	0			

**LCS** Sample ID: **VLCSW1-092713-R154401** Units: **µg/L** Analysis Date: **9/27/2013 08:28 AM**

Client ID: Run ID: **VOA3\_130927A** SeqNo: **3371672** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyclohexane	54.08	5.0	50	0	108	66-125				
Methylcyclohexane	51.36	5.0	50	0	103	70-122				
Surr: 1,2-Dichloroethane-d4	57.31	5.0	50	0	115	70-125	0			
Surr: 4-Bromofluorobenzene	57.1	5.0	50	0	114	72-125	0			
Surr: Dibromofluoromethane	52.87	5.0	50	0	106	71-125	0			
Surr: Toluene-d8	50.91	5.0	50	0	102	75-125	0			

**MS** Sample ID: **13091061-07AMS** Units: **µg/Kg** Analysis Date: **9/27/2013 11:44 AM**

Client ID: **B-14 (26-28)** Run ID: **VOA3\_130927A** SeqNo: **3372257** Prep Date: DF: **1000**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyclohexane	66150	5,000	50000	16020	100	74-126				
Methylcyclohexane	74480	5,000	50000	26580	95.8	77-126				
Surr: 1,2-Dichloroethane-d4	58760	0	50000	0	118	70-128	0			
Surr: 4-Bromofluorobenzene	55530	0	50000	0	111	73-126	0			
Surr: Dibromofluoromethane	52390	0	50000	0	105	71-128	0			
Surr: Toluene-d8	49230	0	50000	0	98.5	73-127	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **R154401**      Instrument ID **VOA3**      Method: **SW8260**

**MSD**      Sample ID: **13091061-07AMSD**      Units: **µg/Kg**      Analysis Date: **9/27/2013 12:13 PM**

Client ID: **B-14 (26-28)**      Run ID: **VOA3\_130927A**      SeqNo: **3372258**      Prep Date:      DF: **1000**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyclohexane	74260	5,000	50000	16020	116	74-126	66150	11.5	30	
Methylcyclohexane	84630	5,000	50000	26580	116	77-126	74480	12.8	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	58720	0	50000	0	117	70-128	58760	0.0783	30	
<i>Surr: 4-Bromofluorobenzene</i>	53940	0	50000	0	108	73-126	55530	2.91	30	
<i>Surr: Dibromofluoromethane</i>	51880	0	50000	0	104	71-128	52390	0.964	30	
<i>Surr: Toluene-d8</i>	49120	0	50000	0	98.2	73-127	49230	0.239	30	

The following samples were analyzed in this batch:

13091061-07A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **R154409**      Instrument ID **VOA6**      Method: **SW8260**

**MBLK**      Sample ID: **VBLKW-130926-R154409**      Units: **µg/L**      Analysis Date: **9/26/2013 02:14 PM**

Client ID:      Run ID: **VOA6\_130926A**      SeqNo: **3371795**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	10								
4-Methyl-2-pentanone	U	10								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	5.0								
Carbon disulfide	U	10								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	U	5.0								
Chloromethane	U	5.0								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	5.0								
Dichloromethane	U	10								
Ethylbenzene	U	5.0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	10								
Methyl acetate	U	5.0								

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

## QC BATCH REPORT

Batch ID: <b>R154409</b>	Instrument ID <b>VOA6</b>	Method: <b>SW8260</b>						
Methyl tert-butyl ether	U	5.0						
Methylcyclohexane	U	5.0						
o-Xylene	U	5.0						
Styrene	U	5.0						
Tetrachloroethene	U	5.0						
Toluene	U	5.0						
trans-1,2-Dichloroethene	U	5.0						
trans-1,3-Dichloropropene	U	5.0						
Trichloroethene	U	5.0						
Trichlorofluoromethane	U	5.0						
Vinyl chloride	U	2.0						
Xylenes, Total	U	15						
<i>Surr: 1,2-Dichloroethane-d4</i>	53.24	5.0	50	0	106	70-125	0	
<i>Surr: 4-Bromofluorobenzene</i>	48.49	5.0	50	0	97	72-125	0	
<i>Surr: Dibromofluoromethane</i>	52.21	5.0	50	0	104	71-125	0	
<i>Surr: Toluene-d8</i>	48.99	5.0	50	0	98	75-125	0	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **R154409**      Instrument ID **VOA6**      Method: **SW8260**

**LCS**      Sample ID: **VLCSW-130926-R154409**      Units: **µg/L**      Analysis Date: **9/26/2013 01:03 PM**

Client ID:      Run ID: **VOA6\_130926A**      SeqNo: **3371794**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	50.6	5.0	50	0	101	80-120				
1,1,2,2-Tetrachloroethane	44.1	5.0	50	0	88.2	72-120				
1,1,2-Trichlor-1,2,2-trifluoroethane	50.38	5.0	50	0	101	73-123				
1,1,2-Trichloroethane	45.6	5.0	50	0	91.2	80-120				
1,1-Dichloroethane	47.34	5.0	50	0	94.7	76-120				
1,1-Dichloroethene	51.22	5.0	50	0	102	73-124				
1,2,4-Trichlorobenzene	48.86	5.0	50	0	97.7	75-130				
1,2-Dibromo-3-chloropropane	43.33	5.0	50	0	86.7	65-125				
1,2-Dibromoethane	45.96	5.0	50	0	91.9	80-120				
1,2-Dichlorobenzene	47.35	5.0	50	0	94.7	80-120				
1,2-Dichloroethane	48.67	5.0	50	0	97.3	78-120				
1,2-Dichloropropane	48.53	5.0	50	0	97.1	80-120				
1,3-Dichlorobenzene	46.81	5.0	50	0	93.6	80-120				
1,4-Dichlorobenzene	46.21	5.0	50	0	92.4	80-120				
2-Butanone	89.01	10	100	0	89	58-132				
2-Hexanone	82.9	10	100	0	82.9	61-130				
4-Methyl-2-pentanone	81.18	10	100	0	81.2	65-127				
Acetone	90.29	10	100	0	90.3	59-137				
Benzene	47.67	5.0	50	0	95.3	73-121				
Bromodichloromethane	49.2	5.0	50	0	98.4	75-125				
Bromoform	49.86	5.0	50	0	99.7	70-130				
Bromomethane	51.65	5.0	50	0	103	60-145				
Carbon disulfide	95.96	10	100	0	96	68-141				
Carbon tetrachloride	51.23	5.0	50	0	102	75-125				
Chlorobenzene	46.91	5.0	50	0	93.8	80-120				
Chloroethane	46.62	5.0	50	0	93.2	70-130				
Chloroform	49.81	5.0	50	0	99.6	70-130				
Chloromethane	44.53	5.0	50	0	89.1	67-123				
cis-1,2-Dichloroethene	49.58	5.0	50	0	99.2	78-120				
cis-1,3-Dichloropropene	48.37	5.0	50	0	96.7	80-120				
Cyclohexane	47.42	5.0	50	0	94.8	66-125				
Dibromochloromethane	49.11	5.0	50	0	98.2	80-120				
Dichlorodifluoromethane	44.83	5.0	50	0	89.7	63-125				
Dichloromethane	51.19	10	50	0	102	65-133				
Ethylbenzene	47.21	5.0	50	0	94.4	80-120				
Isopropylbenzene	47.46	5.0	50	0	94.9	75-130				
m,p-Xylene	95.82	10	100	0	95.8	78-121				
Methyl acetate	42.52	5.0	50	0	85	60-130				

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

## QC BATCH REPORT

Batch ID: <b>R154409</b>	Instrument ID <b>VOA6</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	44.79	5.0	50	0	89.6	73-121	
Methylcyclohexane	46.64	5.0	50	0	93.3	70-122	
o-Xylene	47.76	5.0	50	0	95.5	80-120	
Styrene	48.41	5.0	50	0	96.8	80-120	
Tetrachloroethene	47	5.0	50	0	94	79-120	
Toluene	46.72	5.0	50	0	93.4	80-120	
trans-1,2-Dichloroethene	49.3	5.0	50	0	98.6	78-120	
trans-1,3-Dichloropropene	47.91	5.0	50	0	95.8	80-120	
Trichloroethene	48.96	5.0	50	0	97.9	80-120	
Trichlorofluoromethane	51.12	5.0	50	0	102	72-130	
Vinyl chloride	47.83	2.0	50	0	95.7	70-127	
Xylenes, Total	143.6	15	150	0	95.7	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	51.15	5.0	50	0	102	70-125	0
<i>Surr: 4-Bromofluorobenzene</i>	49.56	5.0	50	0	99.1	72-125	0
<i>Surr: Dibromofluoromethane</i>	51.77	5.0	50	0	104	71-125	0
<i>Surr: Toluene-d8</i>	49.19	5.0	50	0	98.4	75-125	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **R154409**      Instrument ID **VOA6**      Method: **SW8260**

**MS**      Sample ID: **13091101-30AMS**      Units: **µg/L**      Analysis Date: **9/26/2013 04:13 PM**

Client ID:      Run ID: **VOA6\_130926A**      SeqNo: **3371797**      Prep Date:      DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	212.5	25	250	0	85	80-120				
1,1,2,2-Tetrachloroethane	207.3	25	250	0	82.9	72-120				
1,1,2-Trichlor-1,2,2-trifluoroethane	218.2	25	250	0	87.3	73-123				
1,1,2-Trichloroethane	211.2	25	250	0	84.5	80-120				
1,1-Dichloroethane	216	25	250	0	86.4	76-120				
1,1-Dichloroethene	220.9	25	250	0	88.4	73-124				
1,2,4-Trichlorobenzene	208.9	25	250	0	83.6	75-130				
1,2-Dibromo-3-chloropropane	196	25	250	0	78.4	65-125				
1,2-Dibromoethane	216.3	25	250	0	86.5	80-120				
1,2-Dichlorobenzene	207	25	250	0	82.8	80-120				
1,2-Dichloroethane	223.9	25	250	0	89.5	78-120				
1,2-Dichloropropane	221.8	25	250	0	88.7	80-120				
1,3-Dichlorobenzene	206.7	25	250	0	82.7	80-120				
1,4-Dichlorobenzene	203.9	25	250	0	81.5	80-120				
2-Butanone	402	50	500	0	80.4	58-132				
2-Hexanone	390.5	50	500	0	78.1	61-130				
4-Methyl-2-pentanone	394.8	50	500	0	79	65-127				
Acetone	405.1	50	500	0	81	59-137				
Benzene	215	25	250	0	86	73-121				
Bromodichloromethane	226.2	25	250	0	90.5	75-125				
Bromoform	229.4	25	250	0	91.8	70-130				
Bromomethane	227.9	25	250	0	91.2	60-145				
Carbon disulfide	420	50	500	0	84	68-141				
Carbon tetrachloride	219.1	25	250	0	87.6	75-125				
Chlorobenzene	208.5	25	250	0	83.4	80-120				
Chloroethane	208.8	25	250	0	83.5	70-130				
Chloroform	221	25	250	0	88.4	70-130				
Chloromethane	190.6	25	250	0	76.3	67-123				
cis-1,2-Dichloroethene	723.7	25	250	550.1	69.4	78-120				S
cis-1,3-Dichloropropene	220.2	25	250	0	88.1	80-120				
Cyclohexane	206	25	250	0	82.4	66-125				
Dibromochloromethane	226	25	250	0	90.4	80-120				
Dichlorodifluoromethane	186.5	25	250	0	74.6	63-125				
Dichloromethane	244.3	50	250	6.176	95.3	65-133				
Ethylbenzene	206.8	25	250	0	82.7	80-120				
Isopropylbenzene	207	25	250	0	82.8	75-130				
m,p-Xylene	416.4	50	500	0	83.3	78-121				
Methyl acetate	200.6	25	250	0	80.3	60-130				

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

## QC BATCH REPORT

Batch ID: <b>R154409</b>	Instrument ID <b>VOA6</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	222.3	25	250	0	88.9	73-121	
Methylcyclohexane	231.9	25	250	0	92.8	70-122	
o-Xylene	212.2	25	250	0	84.9	80-120	
Styrene	217.1	25	250	0	86.8	80-120	
Tetrachloroethene	590.4	25	250	407.4	73.2	79-120	S
Toluene	208.8	25	250	0	83.5	80-120	
trans-1,2-Dichloroethene	256.6	25	250	47.21	83.8	78-120	
trans-1,3-Dichloropropene	218.9	25	250	0	87.6	80-120	
Trichloroethene	771.7	25	250	581.8	75.9	80-120	S
Trichlorofluoromethane	212.3	25	250	0	84.9	72-130	
Vinyl chloride	200.1	10	250	2.629	79	70-127	
Xylenes, Total	628.6	75	750	0	83.8	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	251.6	25	250	0	101	70-125	0
<i>Surr: 4-Bromofluorobenzene</i>	248.7	25	250	0	99.5	72-125	0
<i>Surr: Dibromofluoromethane</i>	251.6	25	250	0	101	71-125	0
<i>Surr: Toluene-d8</i>	243.3	25	250	0	97.3	75-125	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091061  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **R154409** Instrument ID **VOA6** Method: **SW8260**

MSD		Sample ID: <b>13091101-30AMSD</b>			Units: <b>µg/L</b>			Analysis Date: <b>9/26/2013 04:36 PM</b>		
Client ID:		Run ID: <b>VOA6_130926A</b>			SeqNo: <b>3371798</b>		Prep Date:		DF: <b>5</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	205.6	25	250	0	82.2	80-120	212.5	3.28	20	
1,1,2,2-Tetrachloroethane	225.3	25	250	0	90.1	72-120	207.3	8.32	20	
1,1,2-Trichlor-1,2,2-trifluoroethane	174	25	250	0	69.6	73-123	218.2	22.5	20	SR
1,1,2-Trichloroethane	227.9	25	250	0	91.2	80-120	211.2	7.62	20	
1,1-Dichloroethane	227.7	25	250	0	91.1	76-120	216	5.27	20	
1,1-Dichloroethene	210.7	25	250	0	84.3	73-124	220.9	4.74	20	
1,2,4-Trichlorobenzene	216.9	25	250	0	86.7	75-130	208.9	3.74	20	
1,2-Dibromo-3-chloropropane	230.4	25	250	0	92.2	65-125	196	16.1	20	
1,2-Dibromoethane	232.8	25	250	0	93.1	80-120	216.3	7.35	20	
1,2-Dichlorobenzene	218.6	25	250	0	87.5	80-120	207	5.46	20	
1,2-Dichloroethane	236.2	25	250	0	94.5	78-120	223.9	5.38	20	
1,2-Dichloropropane	232.7	25	250	0	93.1	80-120	221.8	4.81	20	
1,3-Dichlorobenzene	210.5	25	250	0	84.2	80-120	206.7	1.81	20	
1,4-Dichlorobenzene	212.8	25	250	0	85.1	80-120	203.9	4.28	20	
2-Butanone	451.3	50	500	0	90.3	58-132	402	11.6	20	
2-Hexanone	420.9	50	500	0	84.2	61-130	390.5	7.49	20	
4-Methyl-2-pentanone	425.2	50	500	0	85	65-127	394.8	7.39	20	
Acetone	447.4	50	500	0	89.5	59-137	405.1	9.92	20	
Benzene	219.4	25	250	0	87.8	73-121	215	2.03	20	
Bromodichloromethane	238.3	25	250	0	95.3	75-125	226.2	5.21	20	
Bromoform	251.8	25	250	0	101	70-130	229.4	9.33	20	
Bromomethane	241.8	25	250	0	96.7	60-145	227.9	5.89	20	
Carbon disulfide	412.3	50	500	0	82.5	68-141	420	1.86	20	
Carbon tetrachloride	192.2	25	250	0	76.9	75-125	219.1	13.1	20	
Chlorobenzene	217.3	25	250	0	86.9	80-120	208.5	4.12	20	
Chloroethane	212.6	25	250	0	85	76-121	208.8	1.8	20	
Chloroform	236.4	25	250	0	94.6	70-130	221	6.71	20	
Chloromethane	196.4	25	250	0	78.6	67-123	190.6	3	20	
cis-1,2-Dichloroethene	761.6	25	250	550.1	84.6	78-120	723.7	5.11	20	
cis-1,3-Dichloropropene	234.5	25	250	0	93.8	80-120	220.2	6.29	20	
Cyclohexane	165.9	25	250	0	66.4	66-125	206	21.6	20	R
Dibromochloromethane	242.8	25	250	0	97.1	80-120	226	7.19	20	
Dichlorodifluoromethane	161.7	25	250	0	64.7	63-125	186.5	14.2	20	
Dichloromethane	257.8	50	250	6.176	101	65-133	244.3	5.36	20	
Ethylbenzene	199.2	25	250	0	79.7	80-120	206.8	3.77	20	S
Isopropylbenzene	190.8	25	250	0	76.3	75-130	207	8.12	20	
m,p-Xylene	404.7	50	500	0	80.9	78-121	416.4	2.86	20	
Methyl acetate	220	25	250	0	88	60-130	200.6	9.19	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091061  
**Project:** COH-Montrose-Midtown Phase II ES 136524

## QC BATCH REPORT

Batch ID: <b>R154409</b>	Instrument ID <b>VOA6</b>	Method: <b>SW8260</b>								
Methyl tert-butyl ether	224.9	25	250	0	90	73-121	222.3	1.16	20	
Methylcyclohexane	227	25	250	0	90.8	70-122	231.9	2.12	20	
o-Xylene	212.9	25	250	0	85.2	80-120	212.2	0.357	20	
Styrene	224.3	25	250	0	89.7	80-120	217.1	3.23	20	
Tetrachloroethene	556.7	25	250	407.4	59.7	79-120	590.4	5.88	20	S
Toluene	209.2	25	250	0	83.7	80-120	208.8	0.183	20	
trans-1,2-Dichloroethene	267.3	25	250	47.21	88	78-120	256.6	4.05	20	
trans-1,3-Dichloropropene	236.4	25	250	0	94.5	80-120	218.9	7.67	20	
Trichloroethene	749.1	25	250	581.8	66.9	80-120	771.7	2.97	20	S
Trichlorofluoromethane	185.2	25	250	0	74.1	72-130	212.3	13.6	20	
Vinyl chloride	193.3	10	250	2.629	76.3	70-127	200.1	3.46	20	
Xylenes, Total	617.6	75	750	0	82.3	78-121	628.6	1.77	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	258	25	250	0	103	70-125	251.6	2.54	20	
<i>Surr: 4-Bromofluorobenzene</i>	247.2	25	250	0	98.9	72-125	248.7	0.612	20	
<i>Surr: Dibromofluoromethane</i>	256.9	25	250	0	103	71-125	251.6	2.08	20	
<i>Surr: Toluene-d8</i>	242.6	25	250	0	97	75-125	243.3	0.28	20	

The following samples were analyzed in this batch:

13091061-05A
--------------

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES 136524  
**WorkOrder:** 13091061

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
µg/Kg	Micrograms per Kilogram
µg/L	Micrograms per Liter
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter

Sample Receipt Checklist

Client Name: **CORRIGAN-HOU**

Date/Time Received: **24-Sep-13 09:38**

Work Order: **13091061**

Received by: **ECD**

Checklist completed by Robert D. Harris 24-Sep-13  
eSignature Date

Reviewed by: Sonia West 25-Sep-13  
eSignature Date

Matrices: soils/water

Carrier name: ALS.HS

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container/Temp Blank temperature in compliance? Yes  No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt? Yes  No  N/A

pH adjusted? Yes  No  N/A

pH adjusted by:

Login Notes:

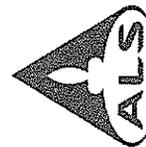


Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



Cincinnati, OH  
+1 513 733 5336  
Everett, WA  
+1 425 356 2600

Fort Collins, CO  
+1 970 490 1511  
Holland, MI  
+1 616 399 6070

# Chain of Custody Form

Page      of     

COC ID: **87861**

## Environmental

# 13091061

CORRIGAN-HOU: Kleinfelder

Project: COH-Montrose-Midtown Phase II ES 136524



ALS Project Manager:

Customer Information				Project Information												
Purchase Order	Project Name	COH-Montrose-Midtown Phase II ES											A	VCC (8260) TCL		
Work Order	Project Number	136524											B	TPH (TX1005)		
Company Name	Bill To Company	Kleinfelder											C	JTS		
Send Report To	Invoice Attn	Jordan Smith											D	BTEX / MTBE (8260)		
Address	Address	12000 Aerospace Ave. Suite 450											E			
City/State/Zip	City/State/Zip	Houston, TX 77034											F			
Phone	Phone	(281) 922-4766											G			
Fax	Fax	(281) 922-4767											H			
e-Mail Address	e-Mail Address	jsmith@kleinfelder.com, rvozan@kleinfelder.com											I			
	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	9/23/13	1000	S	8	2		X	X								
2	1130	1130	S	8	2		X	X								
3	1310	1310	S	8	2		X	X								
4	1435	1435	S	8	2	X	X									
5	1450	1450	W	1,8	6	X	X									
6	1535	1535	S	8	2	X	X									
7	1640	1640	S	8	2	X	X									
8	Trip Blank															
9	of this space Not Used															
10																

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
Jordan P. Smith	Pickup	<input checked="" type="checkbox"/> Std 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24-Hour	
Relinquished by: Jordan P. Smith	Received by: E Davis	Time: 9:30	Time: 9:38
Relinquished by: E Davis	Received by: J Smith	Time: 9:35	Time: 9:38
Logged by (Laboratory):	Checked by (Laboratory):	Notes:	
		Cooler ID: 5505	Cooler Temp:
Preservative Key: 1-HCl 2-HNO <sub>3</sub> 3-H <sub>2</sub> SO <sub>4</sub> 4-NaOH 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 6-NaHSO <sub>3</sub> 7-Other 8-4°C 9-5035	QC Package: (Check One Box Below)	<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP Checklist
		<input type="checkbox"/> Level III Std QC/RAW Data	<input type="checkbox"/> TRRP Level IV
		<input type="checkbox"/> Level IV SW846/CLP	
		<input type="checkbox"/> Other / EDD	

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.  
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.  
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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## Review of Laboratory Analysis Report

Client: City of Houston Date: October 9, 2013

Project: Montrose-Midtown Phase II ESA Reviewed by: K. Scheller

Project No.: 136524, Task 001 Project Manager: R. Voran

Laboratory Report No.: 13091061 (ALS Environmental, Houston, Texas). Samples collected 9-23-2013.

1. The following are attached to report:

- |   |                                     |     |                                     |                                 |
|---|-------------------------------------|-----|-------------------------------------|---------------------------------|
| Completed Chain-of-Custody  | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no                              |
| Analytical results for all requested analyses   | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no                              |
| QA/QC reports for each analytical method  | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no                              |
| 2. Did received temperature meet method criteria?   | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no                              |
| 3. Were extractions and analyses performed using appropriate method and prior to elapse of holding times?   | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no                              |
| 4. Do detection limits meet regulatory or project requirements?   | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no                              |
| 5. Are data for percent recovery and relative percent difference (RPD) for matrix spikes (MS) and matrix spike duplicates (MSD) within acceptable ranges? | <input checked="" type="checkbox"/> | yes | <input checked="" type="checkbox"/> | no <input type="checkbox"/> N/A |
| 6. Are data for percent recovery and RPD for blank spike and blank spike duplicates (BS/BSD or LCS/LSCD) within acceptable ranges?                        | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no                              |
| 7. Were the surrogates recovered within acceptable ranges?  | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no <input type="checkbox"/> N/A |
| 8. Were any compounds/metals reported in the method blanks?   | <input type="checkbox"/>            | yes | <input checked="" type="checkbox"/> | no                              |
| 9. Are analytical data for field blanks, trip blanks, and duplicates acceptable?  | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no <input type="checkbox"/> N/A |

9. Notes:

5). Project sample B-10 (34-36) was used as a MS/MSD sample for the analysis of BTEX and MTBE. Benzene was recovered slightly high in the MSD but since benzene was not detected in any of the associated samples, no benzene results were qualified. Sample B-14 (26-28) was used as the MS/MSD sample for cyclohexane and methylcyclohexane analyses, and percent recoveries and RPDs met criteria.

9). BTEX and MTBE were not detected in the trip blank sample.

It should be noted that some of the concentrations were reported between the sample detection limite (SDL) and the method quantitation limit (MQL) and qualified by the laboratory as estimated values ("J" qualified). As a result of the data quality review, these "J" qualified data remain qualified as such, unless they were qualified by the reviewer as listed above.



03-Oct-2013

Jordan Smith  
Kleinfelder  
12000 Aerospace Ave.  
Suite 450  
Houston, TX 77034

Tel: (281) 922-4766  
Fax: (281) 922-4767

Re: COH-Montrose-Midtown Phase II ES

Work Order: **13091199**

Dear Jordan,

ALS Environmental received 8 samples on 26-Sep-2013 12:40 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 43.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in cursive script that reads "Sonia West".

Electronically approved by: Jumoke M. Lawal

Sonia West  
Project Manager



Certificate No: TX: T104704231-13-12

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

Environmental

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES  
**Work Order:** 13091199

**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
13091199-01	B-22 (26-28)	Soil		9/25/2013 09:05	9/26/2013 12:40	<input type="checkbox"/>
13091199-02	B-23 (34-36)	Soil		9/25/2013 10:35	9/26/2013 12:40	<input type="checkbox"/>
13091199-03	B-24 (24-26)	Soil		9/25/2013 12:00	9/26/2013 12:40	<input type="checkbox"/>
13091199-04	B-25 (34-36)	Soil		9/25/2013 13:15	9/26/2013 12:40	<input type="checkbox"/>
13091199-05	B-26 (34-36)	Soil		9/25/2013 15:15	9/26/2013 12:40	<input type="checkbox"/>
13091199-06	B-27 (30-32)	Soil		9/25/2013 16:35	9/26/2013 12:40	<input type="checkbox"/>
13091199-07	B-29 (20-22)	Soil		9/25/2013 17:50	9/26/2013 12:40	<input type="checkbox"/>
13091199-08	TRIP BLANK-090613-97	Water		9/26/2013 13:16	9/26/2013 12:40	<input type="checkbox"/>

---

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES  
**Work Order:** 13091199

---

**Case Narrative**

Batch 73424, TPH TX1005, Sample 13091124-01B: MS/MSD are for an unrelated sample.

Batch R154368, Volatile Organics, Sample VSTD050: CCV %D was above the control limits for Chloroethane. The associated sample results are Non Detect.

Batch R154368, Volatile Organics 8260, Sample 13091181-02A: MS/MSD are for an unrelated sample.

Batch R154401, Volatile Organics 8260, Sample 13091061-07A: MS/MSD are for an unrelated sample.

Batch R154434, Volatile Organics 8260, Sample 13091148-01A: MS/MSD are for an unrelated sample.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091199

**Sample ID:** B-22 (26-28)

**Lab ID:** 13091199-01

**Collection Date:** 9/25/2013 09:05 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>9/27/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		50	mg/Kg	1	9/29/2013 11:19 PM
>nC12 to nC28	U		50	mg/Kg	1	9/29/2013 11:19 PM
>nC28 to nC35	U		50	mg/Kg	1	9/29/2013 11:19 PM
Total Petroleum Hydrocarbon	U		50	mg/Kg	1	9/29/2013 11:19 PM
<i>Surr: 2-Fluorobiphenyl</i>	87.8		70-130	%REC	1	9/29/2013 11:19 PM
<i>Surr: Trifluoromethyl benzene</i>	95.2		70-130	%REC	1	9/29/2013 11:19 PM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>KKP</b>
1,1,1-Trichloroethane	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
1,1,2,2-Tetrachloroethane	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
1,1,2-Trichloroethane	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
1,1-Dichloroethane	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
1,1-Dichloroethene	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
1,2,4-Trichlorobenzene	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
1,2-Dibromo-3-chloropropane	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
1,2-Dibromoethane	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
1,2-Dichlorobenzene	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
1,2-Dichloroethane	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
1,2-Dichloropropane	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
1,3-Dichlorobenzene	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
1,4-Dichlorobenzene	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
2-Butanone	U		0.010	mg/Kg	1	9/26/2013 09:47 PM
2-Hexanone	U		0.010	mg/Kg	1	9/26/2013 09:47 PM
4-Methyl-2-pentanone	U		0.010	mg/Kg	1	9/26/2013 09:47 PM
Acetone	U		0.020	mg/Kg	1	9/26/2013 09:47 PM
Benzene	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
Bromodichloromethane	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
Bromoform	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
Bromomethane	U		0.010	mg/Kg	1	9/26/2013 09:47 PM
Carbon disulfide	U		0.010	mg/Kg	1	9/26/2013 09:47 PM
Carbon tetrachloride	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
Chlorobenzene	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
Chloroethane	U		0.010	mg/Kg	1	9/26/2013 09:47 PM
Chloroform	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
Chloromethane	U		0.010	mg/Kg	1	9/26/2013 09:47 PM
cis-1,2-Dichloroethene	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
cis-1,3-Dichloropropene	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
Cyclohexane	U	n	0.0050	mg/Kg	1	9/26/2013 09:47 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091199

**Sample ID:** B-22 (26-28)

**Lab ID:** 13091199-01

**Collection Date:** 9/25/2013 09:05 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
Dichlorodifluoromethane	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
Dichloromethane	U		0.010	mg/Kg	1	9/26/2013 09:47 PM
Ethylbenzene	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
Isopropylbenzene	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
m,p-Xylene	U		0.010	mg/Kg	1	9/26/2013 09:47 PM
Methyl acetate	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
Methyl tert-butyl ether	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
Methylcyclohexane	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
o-Xylene	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
Styrene	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
Tetrachloroethene	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
Toluene	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
trans-1,2-Dichloroethene	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
trans-1,3-Dichloropropene	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
Trichloroethene	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
Trichlorofluoromethane	U		0.0050	mg/Kg	1	9/26/2013 09:47 PM
Vinyl chloride	U		0.0020	mg/Kg	1	9/26/2013 09:47 PM
Xylenes, Total	U		0.015	mg/Kg	1	9/26/2013 09:47 PM
Surr: 1,2-Dichloroethane-d4	97.4		70-128	%REC	1	9/26/2013 09:47 PM
Surr: 4-Bromofluorobenzene	103		73-126	%REC	1	9/26/2013 09:47 PM
Surr: Dibromofluoromethane	96.3		71-128	%REC	1	9/26/2013 09:47 PM
Surr: Toluene-d8	99.9		73-127	%REC	1	9/26/2013 09:47 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091199

**Sample ID:** B-23 (34-36)

**Lab ID:** 13091199-02

**Collection Date:** 9/25/2013 10:35 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>9/27/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		50	mg/Kg	1	9/29/2013 11:51 PM
>nC12 to nC28	U		50	mg/Kg	1	9/29/2013 11:51 PM
>nC28 to nC35	U		50	mg/Kg	1	9/29/2013 11:51 PM
Total Petroleum Hydrocarbon	U		50	mg/Kg	1	9/29/2013 11:51 PM
Surr: 2-Fluorobiphenyl	80.5		70-130	%REC	1	9/29/2013 11:51 PM
Surr: Trifluoromethyl benzene	88.9		70-130	%REC	1	9/29/2013 11:51 PM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>KKP</b>
1,1,1-Trichloroethane	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
1,1,2,2-Tetrachloroethane	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
1,1,2-Trichloroethane	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
1,1-Dichloroethane	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
1,1-Dichloroethene	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
1,2,4-Trichlorobenzene	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
1,2-Dibromo-3-chloropropane	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
1,2-Dibromoethane	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
1,2-Dichlorobenzene	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
1,2-Dichloroethane	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
1,2-Dichloropropane	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
1,3-Dichlorobenzene	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
1,4-Dichlorobenzene	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
2-Butanone	U		0.010	mg/Kg	1	9/26/2013 10:10 PM
2-Hexanone	U		0.010	mg/Kg	1	9/26/2013 10:10 PM
4-Methyl-2-pentanone	U		0.010	mg/Kg	1	9/26/2013 10:10 PM
<b>Acetone</b>	<b>0.047</b>		<b>0.020</b>	<b>mg/Kg</b>	1	9/26/2013 10:10 PM
Benzene	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
Bromodichloromethane	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
Bromoform	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
Bromomethane	U		0.010	mg/Kg	1	9/26/2013 10:10 PM
Carbon disulfide	U		0.010	mg/Kg	1	9/26/2013 10:10 PM
Carbon tetrachloride	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
Chlorobenzene	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
Chloroethane	U		0.010	mg/Kg	1	9/26/2013 10:10 PM
Chloroform	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
Chloromethane	U		0.010	mg/Kg	1	9/26/2013 10:10 PM
cis-1,2-Dichloroethene	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
cis-1,3-Dichloropropene	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
Cyclohexane	U	n	0.0050	mg/Kg	1	9/26/2013 10:10 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091199

**Sample ID:** B-23 (34-36)

**Lab ID:** 13091199-02

**Collection Date:** 9/25/2013 10:35 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
Dichlorodifluoromethane	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
Dichloromethane	U		0.010	mg/Kg	1	9/26/2013 10:10 PM
Ethylbenzene	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
Isopropylbenzene	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
m,p-Xylene	U		0.010	mg/Kg	1	9/26/2013 10:10 PM
Methyl acetate	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
Methyl tert-butyl ether	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
Methylcyclohexane	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
o-Xylene	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
Styrene	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
Tetrachloroethene	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
Toluene	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
trans-1,2-Dichloroethene	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
trans-1,3-Dichloropropene	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
Trichloroethene	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
Trichlorofluoromethane	U		0.0050	mg/Kg	1	9/26/2013 10:10 PM
Vinyl chloride	U		0.0020	mg/Kg	1	9/26/2013 10:10 PM
Xylenes, Total	U		0.015	mg/Kg	1	9/26/2013 10:10 PM
Surr: 1,2-Dichloroethane-d4	99.4		70-128	%REC	1	9/26/2013 10:10 PM
Surr: 4-Bromofluorobenzene	97.2		73-126	%REC	1	9/26/2013 10:10 PM
Surr: Dibromofluoromethane	96.6		71-128	%REC	1	9/26/2013 10:10 PM
Surr: Toluene-d8	99.8		73-127	%REC	1	9/26/2013 10:10 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091199

**Sample ID:** B-24 (24-26)

**Lab ID:** 13091199-03

**Collection Date:** 9/25/2013 12:00 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>9/27/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	130		50	mg/Kg	1	9/30/2013 12:23 AM
>nC12 to nC28	U		50	mg/Kg	1	9/30/2013 12:23 AM
>nC28 to nC35	U		50	mg/Kg	1	9/30/2013 12:23 AM
<b>Total Petroleum Hydrocarbon</b>	<b>130</b>		<b>50</b>	<b>mg/Kg</b>	1	9/30/2013 12:23 AM
Surr: 2-Fluorobiphenyl	76.5		70-130	%REC	1	9/30/2013 12:23 AM
Surr: Trifluoromethyl benzene	89.3		70-130	%REC	1	9/30/2013 12:23 AM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>KKP</b>
1,1,1-Trichloroethane	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
1,1,2,2-Tetrachloroethane	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
1,1,2-Trichloroethane	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
1,1-Dichloroethane	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
1,1-Dichloroethene	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
1,2,4-Trichlorobenzene	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
1,2-Dibromo-3-chloropropane	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
1,2-Dibromoethane	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
1,2-Dichlorobenzene	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
1,2-Dichloroethane	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
1,2-Dichloropropane	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
1,3-Dichlorobenzene	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
1,4-Dichlorobenzene	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
2-Butanone	U		0.10	mg/Kg	10	9/26/2013 10:56 PM
2-Hexanone	U		0.10	mg/Kg	10	9/26/2013 10:56 PM
4-Methyl-2-pentanone	U		0.10	mg/Kg	10	9/26/2013 10:56 PM
Acetone	U		0.20	mg/Kg	10	9/26/2013 10:56 PM
<b>Benzene</b>	<b>0.68</b>		<b>0.050</b>	<b>mg/Kg</b>	10	9/26/2013 10:56 PM
Bromodichloromethane	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
Bromoform	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
Bromomethane	U		0.10	mg/Kg	10	9/26/2013 10:56 PM
Carbon disulfide	U		0.10	mg/Kg	10	9/26/2013 10:56 PM
Carbon tetrachloride	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
Chlorobenzene	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
Chloroethane	U		0.10	mg/Kg	10	9/26/2013 10:56 PM
Chloroform	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
Chloromethane	U		0.10	mg/Kg	10	9/26/2013 10:56 PM
cis-1,2-Dichloroethene	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
cis-1,3-Dichloropropene	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
<b>Cyclohexane</b>	<b>0.14</b>	n	<b>0.050</b>	<b>mg/Kg</b>	10	9/26/2013 10:56 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091199

**Sample ID:** B-24 (24-26)

**Lab ID:** 13091199-03

**Collection Date:** 9/25/2013 12:00 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
Dichlorodifluoromethane	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
Dichloromethane	U		0.10	mg/Kg	10	9/26/2013 10:56 PM
<b>Ethylbenzene</b>	<b>12</b>		<b>5.0</b>	<b>mg/Kg</b>	1000	9/27/2013 03:43 PM
<b>Isopropylbenzene</b>	<b>0.32</b>		<b>0.050</b>	<b>mg/Kg</b>	10	9/26/2013 10:56 PM
<b>m,p-Xylene</b>	<b>37</b>		<b>10</b>	<b>mg/Kg</b>	1000	9/27/2013 03:43 PM
Methyl acetate	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
Methyl tert-butyl ether	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
<b>Methylcyclohexane</b>	<b>0.58</b>		<b>0.050</b>	<b>mg/Kg</b>	10	9/26/2013 10:56 PM
<b>o-Xylene</b>	<b>14</b>		<b>5.0</b>	<b>mg/Kg</b>	1000	9/27/2013 03:43 PM
Styrene	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
Tetrachloroethene	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
<b>Toluene</b>	<b>74</b>		<b>5.0</b>	<b>mg/Kg</b>	1000	9/27/2013 03:43 PM
trans-1,2-Dichloroethene	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
trans-1,3-Dichloropropene	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
Trichloroethene	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
Trichlorofluoromethane	U		0.050	mg/Kg	10	9/26/2013 10:56 PM
Vinyl chloride	U		0.020	mg/Kg	10	9/26/2013 10:56 PM
<b>Xylenes, Total</b>	<b>53</b>		<b>15</b>	<b>mg/Kg</b>	1000	9/27/2013 03:43 PM
Surr: 1,2-Dichloroethane-d4	118		70-128	%REC	1000	9/27/2013 03:43 PM
Surr: 1,2-Dichloroethane-d4	91.2		70-128	%REC	10	9/26/2013 10:56 PM
Surr: 4-Bromofluorobenzene	109		73-126	%REC	1000	9/27/2013 03:43 PM
Surr: 4-Bromofluorobenzene	98.8		73-126	%REC	10	9/26/2013 10:56 PM
Surr: Dibromofluoromethane	102		71-128	%REC	1000	9/27/2013 03:43 PM
Surr: Dibromofluoromethane	95.8		71-128	%REC	10	9/26/2013 10:56 PM
Surr: Toluene-d8	98.1		73-127	%REC	1000	9/27/2013 03:43 PM
Surr: Toluene-d8	102		73-127	%REC	10	9/26/2013 10:56 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091199

**Sample ID:** B-25 (34-36)

**Lab ID:** 13091199-04

**Collection Date:** 9/25/2013 01:15 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>9/27/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	21	J	50	mg/Kg	1	9/30/2013 12:55 AM
>nC12 to nC28	U		50	mg/Kg	1	9/30/2013 12:55 AM
>nC28 to nC35	U		50	mg/Kg	1	9/30/2013 12:55 AM
<b>Total Petroleum Hydrocarbon</b>	<b>21.0</b>	<b>J</b>	<b>50</b>	<b>mg/Kg</b>	<b>1</b>	<b>9/30/2013 12:55 AM</b>
Surr: 2-Fluorobiphenyl	73.0		70-130	%REC	1	9/30/2013 12:55 AM
Surr: Trifluoromethyl benzene	88.6		70-130	%REC	1	9/30/2013 12:55 AM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>KKP</b>
1,1,1-Trichloroethane	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
1,1,2,2-Tetrachloroethane	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
1,1,2-Trichloroethane	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
1,1-Dichloroethane	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
1,1-Dichloroethene	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
1,2,4-Trichlorobenzene	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
1,2-Dibromo-3-chloropropane	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
1,2-Dibromoethane	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
1,2-Dichlorobenzene	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
1,2-Dichloroethane	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
1,2-Dichloropropane	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
1,3-Dichlorobenzene	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
1,4-Dichlorobenzene	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
2-Butanone	U		0.10	mg/Kg	10	9/26/2013 11:19 PM
2-Hexanone	U		0.10	mg/Kg	10	9/26/2013 11:19 PM
4-Methyl-2-pentanone	U		0.10	mg/Kg	10	9/26/2013 11:19 PM
Acetone	U		0.20	mg/Kg	10	9/26/2013 11:19 PM
<b>Benzene</b>	<b>1.9</b>		<b>0.25</b>	<b>mg/Kg</b>	<b>50</b>	<b>9/27/2013 04:12 PM</b>
Bromodichloromethane	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
Bromoform	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
Bromomethane	U		0.10	mg/Kg	10	9/26/2013 11:19 PM
Carbon disulfide	U		0.10	mg/Kg	10	9/26/2013 11:19 PM
Carbon tetrachloride	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
Chlorobenzene	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
Chloroethane	U		0.10	mg/Kg	10	9/26/2013 11:19 PM
Chloroform	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
Chloromethane	U		0.10	mg/Kg	10	9/26/2013 11:19 PM
cis-1,2-Dichloroethene	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
cis-1,3-Dichloropropene	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
<b>Cyclohexane</b>	<b>0.75</b>	<b>n</b>	<b>0.050</b>	<b>mg/Kg</b>	<b>10</b>	<b>9/26/2013 11:19 PM</b>

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091199

**Sample ID:** B-25 (34-36)

**Lab ID:** 13091199-04

**Collection Date:** 9/25/2013 01:15 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
Dichlorodifluoromethane	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
Dichloromethane	U		0.10	mg/Kg	10	9/26/2013 11:19 PM
<b>Ethylbenzene</b>	<b>8.4</b>		<b>5.0</b>	<b>mg/Kg</b>	1000	9/27/2013 02:42 PM
<b>Isopropylbenzene</b>	<b>1.3</b>		<b>0.050</b>	<b>mg/Kg</b>	10	9/26/2013 11:19 PM
<b>m,p-Xylene</b>	<b>28</b>		<b>10</b>	<b>mg/Kg</b>	1000	9/27/2013 02:42 PM
Methyl acetate	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
Methyl tert-butyl ether	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
<b>Methylcyclohexane</b>	<b>1.8</b>		<b>0.050</b>	<b>mg/Kg</b>	10	9/26/2013 11:19 PM
<b>o-Xylene</b>	<b>11</b>		<b>5.0</b>	<b>mg/Kg</b>	1000	9/27/2013 02:42 PM
Styrene	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
Tetrachloroethene	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
<b>Toluene</b>	<b>110</b>		<b>5.0</b>	<b>mg/Kg</b>	1000	9/27/2013 02:42 PM
trans-1,2-Dichloroethene	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
trans-1,3-Dichloropropene	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
Trichloroethene	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
Trichlorofluoromethane	U		0.050	mg/Kg	10	9/26/2013 11:19 PM
Vinyl chloride	U		0.020	mg/Kg	10	9/26/2013 11:19 PM
<b>Xylenes, Total</b>	<b>41</b>		<b>15</b>	<b>mg/Kg</b>	1000	9/27/2013 02:42 PM
Surr: 1,2-Dichloroethane-d4	119		70-128	%REC	1000	9/27/2013 02:42 PM
Surr: 1,2-Dichloroethane-d4	115		70-128	%REC	50	9/27/2013 04:12 PM
Surr: 1,2-Dichloroethane-d4	96.2		70-128	%REC	10	9/26/2013 11:19 PM
Surr: 4-Bromofluorobenzene	105		73-126	%REC	1000	9/27/2013 02:42 PM
Surr: 4-Bromofluorobenzene	111		73-126	%REC	50	9/27/2013 04:12 PM
Surr: 4-Bromofluorobenzene	98.7		73-126	%REC	10	9/26/2013 11:19 PM
Surr: Dibromofluoromethane	102		71-128	%REC	1000	9/27/2013 02:42 PM
Surr: Dibromofluoromethane	97.2		71-128	%REC	50	9/27/2013 04:12 PM
Surr: Dibromofluoromethane	89.5		71-128	%REC	10	9/26/2013 11:19 PM
Surr: Toluene-d8	97.4		73-127	%REC	1000	9/27/2013 02:42 PM
Surr: Toluene-d8	96.2		73-127	%REC	50	9/27/2013 04:12 PM
Surr: Toluene-d8	103		73-127	%REC	10	9/26/2013 11:19 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091199

**Sample ID:** B-26 (34-36)

**Lab ID:** 13091199-05

**Collection Date:** 9/25/2013 03:15 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>9/27/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	<b>240</b>		<b>50</b>	<b>mg/Kg</b>	1	9/30/2013 01:27 AM
>nC12 to nC28	U		50	mg/Kg	1	9/30/2013 01:27 AM
>nC28 to nC35	U		50	mg/Kg	1	9/30/2013 01:27 AM
<b>Total Petroleum Hydrocarbon</b>	<b>240</b>		<b>50</b>	<b>mg/Kg</b>	1	9/30/2013 01:27 AM
Surr: 2-Fluorobiphenyl	79.3		70-130	%REC	1	9/30/2013 01:27 AM
Surr: Trifluoromethyl benzene	92.0		70-130	%REC	1	9/30/2013 01:27 AM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>KKP</b>
1,1,1-Trichloroethane	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
1,1,2,2-Tetrachloroethane	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
1,1,2-Trichloroethane	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
1,1-Dichloroethane	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
1,1-Dichloroethene	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
1,2,4-Trichlorobenzene	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
1,2-Dibromo-3-chloropropane	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
1,2-Dibromoethane	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
1,2-Dichlorobenzene	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
1,2-Dichloroethane	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
1,2-Dichloropropane	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
1,3-Dichlorobenzene	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
1,4-Dichlorobenzene	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
2-Butanone	U		0.10	mg/Kg	10	9/26/2013 10:33 PM
2-Hexanone	U		0.10	mg/Kg	10	9/26/2013 10:33 PM
4-Methyl-2-pentanone	U		0.10	mg/Kg	10	9/26/2013 10:33 PM
Acetone	U		0.20	mg/Kg	10	9/26/2013 10:33 PM
<b>Benzene</b>	<b>0.30</b>		<b>0.050</b>	<b>mg/Kg</b>	10	9/26/2013 10:33 PM
Bromodichloromethane	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
Bromoform	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
Bromomethane	U		0.10	mg/Kg	10	9/26/2013 10:33 PM
Carbon disulfide	U		0.10	mg/Kg	10	9/26/2013 10:33 PM
Carbon tetrachloride	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
Chlorobenzene	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
Chloroethane	U		0.10	mg/Kg	10	9/26/2013 10:33 PM
Chloroform	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
Chloromethane	U		0.10	mg/Kg	10	9/26/2013 10:33 PM
cis-1,2-Dichloroethene	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
cis-1,3-Dichloropropene	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
<b>Cyclohexane</b>	<b>0.16</b>	n	<b>0.050</b>	<b>mg/Kg</b>	10	9/26/2013 10:33 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091199

**Sample ID:** B-26 (34-36)

**Lab ID:** 13091199-05

**Collection Date:** 9/25/2013 03:15 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
Dichlorodifluoromethane	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
Dichloromethane	U		0.10	mg/Kg	10	9/26/2013 10:33 PM
<b>Ethylbenzene</b>	<b>2.7</b>		<b>0.50</b>	<b>mg/Kg</b>	100	9/27/2013 01:43 PM
<b>Isopropylbenzene</b>	<b>0.41</b>		<b>0.050</b>	<b>mg/Kg</b>	10	9/26/2013 10:33 PM
<b>m,p-Xylene</b>	<b>9.1</b>		<b>1.0</b>	<b>mg/Kg</b>	100	9/27/2013 01:43 PM
Methyl acetate	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
Methyl tert-butyl ether	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
<b>Methylcyclohexane</b>	<b>0.45</b>		<b>0.050</b>	<b>mg/Kg</b>	10	9/26/2013 10:33 PM
<b>o-Xylene</b>	<b>3.4</b>		<b>0.50</b>	<b>mg/Kg</b>	100	9/27/2013 01:43 PM
Styrene	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
Tetrachloroethene	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
<b>Toluene</b>	<b>27</b>		<b>5.0</b>	<b>mg/Kg</b>	1000	9/27/2013 03:13 PM
trans-1,2-Dichloroethene	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
trans-1,3-Dichloropropene	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
Trichloroethene	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
Trichlorofluoromethane	U		0.050	mg/Kg	10	9/26/2013 10:33 PM
Vinyl chloride	U		0.020	mg/Kg	10	9/26/2013 10:33 PM
<b>Xylenes, Total</b>	<b>13</b>		<b>1.5</b>	<b>mg/Kg</b>	100	9/27/2013 01:43 PM
Surr: 1,2-Dichloroethane-d4	119		70-128	%REC	100	9/27/2013 01:43 PM
Surr: 1,2-Dichloroethane-d4	116		70-128	%REC	1000	9/27/2013 03:13 PM
Surr: 1,2-Dichloroethane-d4	89.7		70-128	%REC	10	9/26/2013 10:33 PM
Surr: 4-Bromofluorobenzene	107		73-126	%REC	100	9/27/2013 01:43 PM
Surr: 4-Bromofluorobenzene	108		73-126	%REC	1000	9/27/2013 03:13 PM
Surr: 4-Bromofluorobenzene	98.5		73-126	%REC	10	9/26/2013 10:33 PM
Surr: Dibromofluoromethane	98.6		71-128	%REC	100	9/27/2013 01:43 PM
Surr: Dibromofluoromethane	101		71-128	%REC	1000	9/27/2013 03:13 PM
Surr: Dibromofluoromethane	98.0		71-128	%REC	10	9/26/2013 10:33 PM
Surr: Toluene-d8	94.2		73-127	%REC	100	9/27/2013 01:43 PM
Surr: Toluene-d8	98.4		73-127	%REC	1000	9/27/2013 03:13 PM
Surr: Toluene-d8	100		73-127	%REC	10	9/26/2013 10:33 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091199

**Sample ID:** B-27 (30-32)

**Lab ID:** 13091199-06

**Collection Date:** 9/25/2013 04:35 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>9/27/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		50	mg/Kg	1	9/30/2013 01:58 AM
>nC12 to nC28	U		50	mg/Kg	1	9/30/2013 01:58 AM
>nC28 to nC35	U		50	mg/Kg	1	9/30/2013 01:58 AM
Total Petroleum Hydrocarbon	U		50	mg/Kg	1	9/30/2013 01:58 AM
<i>Surr: 2-Fluorobiphenyl</i>	82.3		70-130	%REC	1	9/30/2013 01:58 AM
<i>Surr: Trifluoromethyl benzene</i>	91.9		70-130	%REC	1	9/30/2013 01:58 AM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>KKP</b>
1,1,1-Trichloroethane	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
1,1,2,2-Tetrachloroethane	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
1,1,2-Trichloroethane	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
1,1-Dichloroethane	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
1,1-Dichloroethene	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
1,2,4-Trichlorobenzene	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
1,2-Dibromo-3-chloropropane	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
1,2-Dibromoethane	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
1,2-Dichlorobenzene	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
1,2-Dichloroethane	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
1,2-Dichloropropane	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
1,3-Dichlorobenzene	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
1,4-Dichlorobenzene	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
2-Butanone	U		0.010	mg/Kg	1	9/26/2013 09:00 PM
2-Hexanone	U		0.010	mg/Kg	1	9/26/2013 09:00 PM
4-Methyl-2-pentanone	U		0.010	mg/Kg	1	9/26/2013 09:00 PM
Acetone	U		0.020	mg/Kg	1	9/26/2013 09:00 PM
Benzene	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
Bromodichloromethane	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
Bromoform	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
Bromomethane	U		0.010	mg/Kg	1	9/26/2013 09:00 PM
Carbon disulfide	U		0.010	mg/Kg	1	9/26/2013 09:00 PM
Carbon tetrachloride	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
Chlorobenzene	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
Chloroethane	U		0.010	mg/Kg	1	9/26/2013 09:00 PM
Chloroform	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
Chloromethane	U		0.010	mg/Kg	1	9/26/2013 09:00 PM
cis-1,2-Dichloroethene	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
cis-1,3-Dichloropropene	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
Cyclohexane	U	n	0.0050	mg/Kg	1	9/26/2013 09:00 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091199

**Sample ID:** B-27 (30-32)

**Lab ID:** 13091199-06

**Collection Date:** 9/25/2013 04:35 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
Dichlorodifluoromethane	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
Dichloromethane	U		0.010	mg/Kg	1	9/26/2013 09:00 PM
Ethylbenzene	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
Isopropylbenzene	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
m,p-Xylene	U		0.010	mg/Kg	1	9/26/2013 09:00 PM
Methyl acetate	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
Methyl tert-butyl ether	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
Methylcyclohexane	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
o-Xylene	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
Styrene	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
Tetrachloroethene	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
Toluene	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
trans-1,2-Dichloroethene	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
trans-1,3-Dichloropropene	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
Trichloroethene	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
Trichlorofluoromethane	U		0.0050	mg/Kg	1	9/26/2013 09:00 PM
Vinyl chloride	U		0.0020	mg/Kg	1	9/26/2013 09:00 PM
Xylenes, Total	U		0.015	mg/Kg	1	9/26/2013 09:00 PM
Surr: 1,2-Dichloroethane-d4	92.2		70-128	%REC	1	9/26/2013 09:00 PM
Surr: 4-Bromofluorobenzene	95.1		73-126	%REC	1	9/26/2013 09:00 PM
Surr: Dibromofluoromethane	98.4		71-128	%REC	1	9/26/2013 09:00 PM
Surr: Toluene-d8	100		73-127	%REC	1	9/26/2013 09:00 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091199

**Sample ID:** B-29 (20-22)

**Lab ID:** 13091199-07

**Collection Date:** 9/25/2013 05:50 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>9/27/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		50	mg/Kg	1	9/30/2013 02:30 AM
>nC12 to nC28	U		50	mg/Kg	1	9/30/2013 02:30 AM
>nC28 to nC35	U		50	mg/Kg	1	9/30/2013 02:30 AM
Total Petroleum Hydrocarbon	U		50	mg/Kg	1	9/30/2013 02:30 AM
<i>Surr: 2-Fluorobiphenyl</i>	73.0		70-130	%REC	1	9/30/2013 02:30 AM
<i>Surr: Trifluoromethyl benzene</i>	83.3		70-130	%REC	1	9/30/2013 02:30 AM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>KKP</b>
1,1,1-Trichloroethane	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
1,1,2,2-Tetrachloroethane	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
1,1,2-Trichloroethane	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
1,1-Dichloroethane	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
1,1-Dichloroethene	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
1,2,4-Trichlorobenzene	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
1,2-Dibromo-3-chloropropane	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
1,2-Dibromoethane	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
1,2-Dichlorobenzene	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
1,2-Dichloroethane	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
1,2-Dichloropropane	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
1,3-Dichlorobenzene	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
1,4-Dichlorobenzene	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
2-Butanone	U		0.010	mg/Kg	1	9/26/2013 09:23 PM
2-Hexanone	U		0.010	mg/Kg	1	9/26/2013 09:23 PM
4-Methyl-2-pentanone	U		0.010	mg/Kg	1	9/26/2013 09:23 PM
Acetone	U		0.020	mg/Kg	1	9/26/2013 09:23 PM
Benzene	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
Bromodichloromethane	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
Bromoform	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
Bromomethane	U		0.010	mg/Kg	1	9/26/2013 09:23 PM
Carbon disulfide	U		0.010	mg/Kg	1	9/26/2013 09:23 PM
Carbon tetrachloride	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
Chlorobenzene	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
Chloroethane	U		0.010	mg/Kg	1	9/26/2013 09:23 PM
Chloroform	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
Chloromethane	U		0.010	mg/Kg	1	9/26/2013 09:23 PM
cis-1,2-Dichloroethene	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
cis-1,3-Dichloropropene	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
Cyclohexane	U	n	0.0050	mg/Kg	1	9/26/2013 09:23 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091199

**Sample ID:** B-29 (20-22)

**Lab ID:** 13091199-07

**Collection Date:** 9/25/2013 05:50 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
Dichlorodifluoromethane	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
Dichloromethane	U		0.010	mg/Kg	1	9/26/2013 09:23 PM
Ethylbenzene	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
Isopropylbenzene	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
m,p-Xylene	U		0.010	mg/Kg	1	9/26/2013 09:23 PM
Methyl acetate	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
Methyl tert-butyl ether	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
Methylcyclohexane	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
o-Xylene	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
Styrene	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
Tetrachloroethene	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
Toluene	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
trans-1,2-Dichloroethene	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
trans-1,3-Dichloropropene	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
Trichloroethene	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
Trichlorofluoromethane	U		0.0050	mg/Kg	1	9/26/2013 09:23 PM
Vinyl chloride	U		0.0020	mg/Kg	1	9/26/2013 09:23 PM
Xylenes, Total	U		0.015	mg/Kg	1	9/26/2013 09:23 PM
Surr: 1,2-Dichloroethane-d4	97.6		70-128	%REC	1	9/26/2013 09:23 PM
Surr: 4-Bromofluorobenzene	96.2		73-126	%REC	1	9/26/2013 09:23 PM
Surr: Dibromofluoromethane	100		71-128	%REC	1	9/26/2013 09:23 PM
Surr: Toluene-d8	97.3		73-127	%REC	1	9/26/2013 09:23 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091199

**Sample ID:** TRIP BLANK-090613-97

**Lab ID:** 13091199-08

**Collection Date:** 9/26/2013 01:16 PM

**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>PC</b>
1,1,1-Trichloroethane	U		0.0050	mg/L	1	9/27/2013 03:12 PM
1,1,2,2-Tetrachloroethane	U		0.0050	mg/L	1	9/27/2013 03:12 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.0050	mg/L	1	9/27/2013 03:12 PM
1,1,2-Trichloroethane	U		0.0050	mg/L	1	9/27/2013 03:12 PM
1,1-Dichloroethane	U		0.0050	mg/L	1	9/27/2013 03:12 PM
1,1-Dichloroethene	U		0.0050	mg/L	1	9/27/2013 03:12 PM
1,2,4-Trichlorobenzene	U		0.0050	mg/L	1	9/27/2013 03:12 PM
1,2-Dibromo-3-chloropropane	U		0.0050	mg/L	1	9/27/2013 03:12 PM
1,2-Dibromoethane	U		0.0050	mg/L	1	9/27/2013 03:12 PM
1,2-Dichlorobenzene	U		0.0050	mg/L	1	9/27/2013 03:12 PM
1,2-Dichloroethane	U		0.0050	mg/L	1	9/27/2013 03:12 PM
1,2-Dichloropropane	U		0.0050	mg/L	1	9/27/2013 03:12 PM
1,3-Dichlorobenzene	U		0.0050	mg/L	1	9/27/2013 03:12 PM
1,4-Dichlorobenzene	U		0.0050	mg/L	1	9/27/2013 03:12 PM
2-Butanone	U		0.010	mg/L	1	9/27/2013 03:12 PM
2-Hexanone	U		0.010	mg/L	1	9/27/2013 03:12 PM
4-Methyl-2-pentanone	U		0.010	mg/L	1	9/27/2013 03:12 PM
<b>Acetone</b>	<b>0.0027</b>	J	<b>0.010</b>	<b>mg/L</b>	1	9/27/2013 03:12 PM
Benzene	U		0.0050	mg/L	1	9/27/2013 03:12 PM
Bromodichloromethane	U		0.0050	mg/L	1	9/27/2013 03:12 PM
Bromoform	U		0.0050	mg/L	1	9/27/2013 03:12 PM
Bromomethane	U		0.0050	mg/L	1	9/27/2013 03:12 PM
Carbon disulfide	U		0.010	mg/L	1	9/27/2013 03:12 PM
Carbon tetrachloride	U		0.0050	mg/L	1	9/27/2013 03:12 PM
Chlorobenzene	U		0.0050	mg/L	1	9/27/2013 03:12 PM
Chloroethane	U		0.0050	mg/L	1	9/27/2013 03:12 PM
Chloroform	U		0.0050	mg/L	1	9/27/2013 03:12 PM
Chloromethane	U		0.0050	mg/L	1	9/27/2013 03:12 PM
cis-1,2-Dichloroethene	U		0.0050	mg/L	1	9/27/2013 03:12 PM
cis-1,3-Dichloropropene	U		0.0050	mg/L	1	9/27/2013 03:12 PM
Cyclohexane	U	n	0.0050	mg/L	1	9/27/2013 03:12 PM
Dibromochloromethane	U		0.0050	mg/L	1	9/27/2013 03:12 PM
Dichlorodifluoromethane	U		0.0050	mg/L	1	9/27/2013 03:12 PM
<b>Dichloromethane</b>	<b>0.00069</b>	J	<b>0.010</b>	<b>mg/L</b>	1	9/27/2013 03:12 PM
Ethylbenzene	U		0.0050	mg/L	1	9/27/2013 03:12 PM
Isopropylbenzene	U		0.0050	mg/L	1	9/27/2013 03:12 PM
m,p-Xylene	U		0.010	mg/L	1	9/27/2013 03:12 PM
Methyl acetate	U		0.0050	mg/L	1	9/27/2013 03:12 PM
Methyl tert-butyl ether	U		0.0050	mg/L	1	9/27/2013 03:12 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091199

**Sample ID:** TRIP BLANK-090613-97

**Lab ID:** 13091199-08

**Collection Date:** 9/26/2013 01:16 PM

**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.0050	mg/L	1	9/27/2013 03:12 PM
o-Xylene	U		0.0050	mg/L	1	9/27/2013 03:12 PM
Styrene	U		0.0050	mg/L	1	9/27/2013 03:12 PM
Tetrachloroethene	U		0.0050	mg/L	1	9/27/2013 03:12 PM
Toluene	U		0.0050	mg/L	1	9/27/2013 03:12 PM
trans-1,2-Dichloroethene	U		0.0050	mg/L	1	9/27/2013 03:12 PM
trans-1,3-Dichloropropene	U		0.0050	mg/L	1	9/27/2013 03:12 PM
Trichloroethene	U		0.0050	mg/L	1	9/27/2013 03:12 PM
Trichlorofluoromethane	U		0.0050	mg/L	1	9/27/2013 03:12 PM
Vinyl chloride	U		0.0020	mg/L	1	9/27/2013 03:12 PM
Xylenes, Total	U		0.015	mg/L	1	9/27/2013 03:12 PM
Surr: 1,2-Dichloroethane-d4	102		70-125	%REC	1	9/27/2013 03:12 PM
Surr: 4-Bromofluorobenzene	100		72-125	%REC	1	9/27/2013 03:12 PM
Surr: Dibromofluoromethane	103		71-125	%REC	1	9/27/2013 03:12 PM
Surr: Toluene-d8	97.8		75-125	%REC	1	9/27/2013 03:12 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

Work Order: 13091199  
 Client: Kleinfelder  
 Project: COH-Montrose-Midtown Phase II ES

**DATES REPORT**

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<b>Batch ID</b> <u>73424</u> <b>Test Name:</b> <u>Texas TPH - TX1005</u>						
13091199-01	B-22 (26-28)	Soil	9/25/2013 9:05:00 AM		9/27/2013 01:00 PM	9/29/2013 11:19 PM
13091199-02	B-23 (34-36)		9/25/2013 10:35:00 AM		9/27/2013 01:00 PM	9/29/2013 11:51 PM
13091199-03	B-24 (24-26)		9/25/2013 12:00:00 PM		9/27/2013 01:00 PM	9/30/2013 12:23 AM
13091199-04	B-25 (34-36)		9/25/2013 1:15:00 PM		9/27/2013 01:00 PM	9/30/2013 12:55 AM
13091199-05	B-26 (34-36)		9/25/2013 3:15:00 PM		9/27/2013 01:00 PM	9/30/2013 01:27 AM
13091199-06	B-27 (30-32)		9/25/2013 4:35:00 PM		9/27/2013 01:00 PM	9/30/2013 01:58 AM
13091199-07	B-29 (20-22)		9/25/2013 5:50:00 PM		9/27/2013 01:00 PM	9/30/2013 02:30 AM
<b>Batch ID</b> <u>R154368</u> <b>Test Name:</b> <u>TCL Volatiles - SW8260C</u>						
13091199-01	B-22 (26-28)	Soil	9/25/2013 9:05:00 AM			9/26/2013 09:47 PM
13091199-02	B-23 (34-36)		9/25/2013 10:35:00 AM			9/26/2013 10:10 PM
13091199-03	B-24 (24-26)		9/25/2013 12:00:00 PM			9/26/2013 10:56 PM
13091199-04	B-25 (34-36)		9/25/2013 1:15:00 PM			9/26/2013 11:19 PM
13091199-05	B-26 (34-36)		9/25/2013 3:15:00 PM			9/26/2013 10:33 PM
13091199-06	B-27 (30-32)		9/25/2013 4:35:00 PM			9/26/2013 09:00 PM
13091199-07	B-29 (20-22)		9/25/2013 5:50:00 PM			9/26/2013 09:23 PM
<b>Batch ID</b> <u>R154401</u> <b>Test Name:</b> <u>TCL Volatiles - SW8260C</u>						
13091199-03	B-24 (24-26)	Soil	9/25/2013 12:00:00 PM			9/27/2013 03:43 PM
13091199-04	B-25 (34-36)		9/25/2013 1:15:00 PM			9/27/2013 02:42 PM
						9/27/2013 04:12 PM
13091199-05	B-26 (34-36)		9/25/2013 3:15:00 PM			9/27/2013 01:43 PM
						9/27/2013 03:13 PM
<b>Batch ID</b> <u>R154434</u> <b>Test Name:</b> <u>TCL Volatiles - SW8260C</u>						
13091199-08	TRIP BLANK-090613-97	Water	9/26/2013 1:16:00 PM			9/27/2013 03:12 PM

Client: Kleinfelder  
 Work Order: 13091199  
 Project: COH-Montrose-Midtown Phase II ES

**QC BATCH REPORT**

Batch ID: 73424 Instrument ID FID-12 Method: TX1005

MBLK		Sample ID: FBLKS1-130927-73424			Units: mg/Kg			Analysis Date: 9/29/2013 09:12 PM		
Client ID:		Run ID: FID-12_130927B			SeqNo: 3376747			Prep Date: 9/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	U	50								
>nC12 to nC28	U	50								
>nC28 to nC35	U	50								
Total Petroleum Hydrocarbon	U	50								
Surr: 2-Fluorobiphenyl	21.41	0	25	0	85.6	70-130	0			
Surr: Trifluoromethyl benzene	19.83	0	25	0	79.3	70-130	0			

LCS		Sample ID: FLCSS1-130927-73424			Units: mg/Kg			Analysis Date: 9/29/2013 09:44 PM		
Client ID:		Run ID: FID-12_130927B			SeqNo: 3376748			Prep Date: 9/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	250	50	250	0	100	75-125				
>nC12 to nC28	234.8	50	250	0	93.9	75-125				
Surr: 2-Fluorobiphenyl	27.08	0	25	0	108	70-130	0			
Surr: Trifluoromethyl benzene	19.62	0	25	0	78.5	70-130	0			

LCSD		Sample ID: FLCSDS1-130927-73424			Units: mg/Kg			Analysis Date: 9/29/2013 10:16 PM		
Client ID:		Run ID: FID-12_130927B			SeqNo: 3376749			Prep Date: 9/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	241	50	250	0	96.4	75-125	250	3.66	20	
>nC12 to nC28	226.6	50	250	0	90.6	75-125	234.8	3.54	20	
Surr: 2-Fluorobiphenyl	26.74	0	25	0	107	70-130	27.08	1.28	20	
Surr: Trifluoromethyl benzene	19.25	0	25	0	77	70-130	19.62	1.9	20	

MS		Sample ID: 13091124-01BMS			Units: mg/Kg			Analysis Date: 9/29/2013 11:19 PM		
Client ID:		Run ID: FID-12_130927B			SeqNo: 3376751			Prep Date: 9/27/2013		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	349.1	250	248	0	141	75-125				S
>nC12 to nC28	3749	250	248	4282	-215	75-125				SO
Surr: 2-Fluorobiphenyl	25.82	0	24.8	0	104	70-130	0			
Surr: Trifluoromethyl benzene	23.41	0	24.8	0	94.4	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091199  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **73424** Instrument ID **FID-12** Method: **TX1005**

MSD		Sample ID: <b>13091124-01BMSD</b>			Units: <b>mg/Kg</b>			Analysis Date: <b>9/29/2013 11:51 PM</b>			
Client ID:		Run ID: <b>FID-12_130927B</b>			SeqNo: <b>3376752</b>		Prep Date: <b>9/27/2013</b>		DF: <b>5</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
nC6 to nC12	336.7	250	248.8	0	135	75-125	349.1	3.62	20	S	
>nC12 to nC28	3427	250	248.8	4282	-344	75-125	3749	8.96	20	SO	
<i>Surr: 2-Fluorobiphenyl</i>	29.7	0	24.88	0	119	70-130	25.82	14	20		
<i>Surr: Trifluoromethyl benzene</i>	22.06	0	24.88	0	88.7	70-130	23.41	5.94	20		

The following samples were analyzed in this batch:

13091199-01B	13091199-02B	13091199-03B
13091199-04B	13091199-05B	13091199-06B
13091199-07B		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091199  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: R154368 Instrument ID VOA5 Method: SW8260

MBLK Sample ID: VBLKS1-092613-R154368 Units: µg/Kg Analysis Date: 9/26/2013 04:43 PM

Client ID: Run ID: VOA5\_130926A SeqNo: 3370867 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	10								
4-Methyl-2-pentanone	U	10								
Acetone	U	20								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	10								
Carbon disulfide	U	10								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	10								
Chloroform	U	5.0								
Chloromethane	U	10								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	5.0								
Dichloromethane	U	10								
Ethylbenzene	U	5.0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	10								
Methyl acetate	U	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091199  
**Project:** COH-Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R154368</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>						
Methyl tert-butyl ether	U	5.0						
Methylcyclohexane	U	5.0						
o-Xylene	U	5.0						
Styrene	U	5.0						
Tetrachloroethene	U	5.0						
Toluene	U	5.0						
trans-1,2-Dichloroethene	U	5.0						
trans-1,3-Dichloropropene	U	5.0						
Trichloroethene	U	5.0						
Trichlorofluoromethane	U	5.0						
Vinyl chloride	U	2.0						
Xylenes, Total	U	10						
<i>Surr: 1,2-Dichloroethane-d4</i>	44.63	0	50	0	89.3	70-128	0	
<i>Surr: 4-Bromofluorobenzene</i>	49.5	0	50	0	99	73-126	0	
<i>Surr: Dibromofluoromethane</i>	47.4	0	50	0	94.8	71-128	0	
<i>Surr: Toluene-d8</i>	50.33	0	50	0	101	73-127	0	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091199  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: R154368 Instrument ID VOA5 Method: SW8260

LCS		Sample ID: VLCSS1-092613-R154368			Units: µg/Kg			Analysis Date: 9/26/2013 03:56 PM		
Client ID:		Run ID: VOA5_130926A			SeqNo: 3370866		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	56.62	5.0	50	0	113	79-124				
1,1,2,2-Tetrachloroethane	52.42	5.0	50	0	105	75-123				
1,1,2-Trichlor-1,2,2-trifluoroethane	56.06	5.0	50	0	112	79-125				
1,1,2-Trichloroethane	50.84	5.0	50	0	102	79-120				
1,1-Dichloroethane	56.58	5.0	50	0	113	75-124				
1,1-Dichloroethene	54.49	5.0	50	0	109	80-122				
1,2,4-Trichlorobenzene	60.57	5.0	50	0	121	74-128				
1,2-Dibromo-3-chloropropane	42.67	5.0	50	0	85.3	66-129				
1,2-Dibromoethane	52.65	5.0	50	0	105	70-120				
1,2-Dichlorobenzene	57.68	5.0	50	0	115	75-120				
1,2-Dichloroethane	55.66	5.0	50	0	111	73-121				
1,2-Dichloropropane	57.73	5.0	50	0	115	76-120				
1,3-Dichlorobenzene	60.34	5.0	50	0	121	70-125				
1,4-Dichlorobenzene	59.91	5.0	50	0	120	77-120				
2-Butanone	92.23	10	100	0	92.2	65-130				
2-Hexanone	94.71	10	100	0	94.7	65-133				
4-Methyl-2-pentanone	94.49	10	100	0	94.5	69-130				
Acetone	78.37	20	100	0	78.4	53-142				
Benzene	58.17	5.0	50	0	116	79-120				
Bromodichloromethane	55.67	5.0	50	0	111	79-121				
Bromoform	54	5.0	50	0	108	74-122				
Bromomethane	53.78	10	50	0	108	68-131				
Carbon disulfide	108.9	10	100	0	109	80-124				
Carbon tetrachloride	52.5	5.0	50	0	105	74-126				
Chlorobenzene	53.92	5.0	50	0	108	79-120				
Chloroethane	59.49	10	50	0	119	76-126				
Chloroform	57.69	5.0	50	0	115	78-120				
Chloromethane	58.11	10	50	0	116	69-129				
cis-1,2-Dichloroethene	55.19	5.0	50	0	110	80-120				
cis-1,3-Dichloropropene	56.5	5.0	50	0	113	77-123				
Cyclohexane	55.83	5.0	50	0	112	74-126				
Dibromochloromethane	53.13	5.0	50	0	106	78-122				
Dichlorodifluoromethane	53.46	5.0	50	0	107	57-140				
Dichloromethane	51.86	10	50	0	104	62-130				
Ethylbenzene	55.97	5.0	50	0	112	80-122				
Isopropylbenzene	54.19	5.0	50	0	108	72-127				
m,p-Xylene	117.3	10	100	0	117	79-122				
Methyl acetate	45.98	5.0	50	0	92	69-123				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091199  
**Project:** COH-Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R154368</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	55.11	5.0	50	0	110	76-121	
Methylcyclohexane	56.94	5.0	50	0	114	77-126	
o-Xylene	57.4	5.0	50	0	115	80-123	
Styrene	57.01	5.0	50	0	114	78-124	
Tetrachloroethene	57.61	5.0	50	0	115	73-129	
Toluene	55.65	5.0	50	0	111	79-120	
trans-1,2-Dichloroethene	59.06	5.0	50	0	118	79-122	
trans-1,3-Dichloropropene	51.61	5.0	50	0	103	77-120	
Trichloroethene	59.93	5.0	50	0	120	80-121	
Trichlorofluoromethane	56.56	5.0	50	0	113	75-126	
Vinyl chloride	53.26	2.0	50	0	107	76-126	
Xylenes, Total	174.7	10	150	0	116	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	47.16	0	50	0	94.3	70-128	0
<i>Surr: 4-Bromofluorobenzene</i>	45.64	0	50	0	91.3	73-126	0
<i>Surr: Dibromofluoromethane</i>	48.88	0	50	0	97.8	71-128	0
<i>Surr: Toluene-d8</i>	46.23	0	50	0	92.5	73-127	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091199  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: R154368 Instrument ID VOA5 Method: SW8260

MS		Sample ID: 13091181-02AMS			Units: µg/Kg			Analysis Date: 9/26/2013 07:50 PM		
Client ID:		Run ID: VOA5_130926A			SeqNo: 3371096		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	39.47	5.0	50	0	78.9	79-124				S
1,1,2,2-Tetrachloroethane	36.25	5.0	50	0	72.5	75-123				S
1,1,2-Trichlor-1,2,2-trifluoroethane	38.95	5.0	50	0	77.9	79-125				S
1,1,2-Trichloroethane	34.87	5.0	50	0	69.7	79-120				S
1,1-Dichloroethane	39.39	5.0	50	0	78.8	75-124				
1,1-Dichloroethene	39.68	5.0	50	0	79.4	80-122				S
1,2,4-Trichlorobenzene	32.39	5.0	50	0	64.8	74-128				S
1,2-Dibromo-3-chloropropane	36.93	5.0	50	0	73.9	66-129				
1,2-Dibromoethane	35.92	5.0	50	0	71.8	70-120				
1,2-Dichlorobenzene	35.91	5.0	50	0	71.8	75-120				S
1,2-Dichloroethane	38.57	5.0	50	0	77.1	73-121				
1,2-Dichloropropane	38.14	5.0	50	0	76.3	76-120				
1,3-Dichlorobenzene	36.42	5.0	50	0	72.8	70-125				
1,4-Dichlorobenzene	36.02	5.0	50	0	72	77-120				S
2-Butanone	70.33	10	100	0	70.3	65-130				
2-Hexanone	73.32	10	100	0	73.3	65-133				
4-Methyl-2-pentanone	73.59	10	100	0	73.6	69-130				
Acetone	55.96	20	100	0	56	53-142				
Benzene	40.03	5.0	50	0	80.1	79-120				
Bromodichloromethane	39.29	5.0	50	0	78.6	79-121				S
Bromoform	36.34	5.0	50	0	72.7	74-122				S
Bromomethane	39.89	10	50	0	79.8	68-131				
Carbon disulfide	75.5	10	100	0	75.5	80-124				S
Carbon tetrachloride	37.34	5.0	50	0	74.7	74-126				
Chlorobenzene	37.76	5.0	50	0	75.5	79-120				S
Chloroethane	41.19	10	50	0	82.4	76-126				
Chloroform	38.46	5.0	50	0	76.9	78-120				S
Chloromethane	40.09	10	50	0	80.2	69-129				
cis-1,2-Dichloroethene	37.76	5.0	50	0	75.5	80-120				S
cis-1,3-Dichloropropene	37.52	5.0	50	0	75	77-123				S
Cyclohexane	37.81	5.0	50	0	75.6	74-126				
Dibromochloromethane	36.62	5.0	50	0	73.2	78-122				S
Dichlorodifluoromethane	38.01	5.0	50	0	76	57-140				
Dichloromethane	36.92	10	50	3.331	67.2	62-130				
Ethylbenzene	39.39	5.0	50	0	78.8	80-122				S
Isopropylbenzene	37.27	5.0	50	0	74.5	72-127				
m,p-Xylene	78.67	10	100	0	78.7	79-122				S
Methyl acetate	38.67	5.0	50	0	77.3	69-123				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091199  
**Project:** COH-Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R154368</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	38.08	5.0	50	0	76.2	76-121	
Methylcyclohexane	36.33	5.0	50	0	72.7	77-126	S
o-Xylene	38.55	5.0	50	0	77.1	80-123	S
Styrene	39.11	5.0	50	0	78.2	78-124	
Tetrachloroethene	32.45	5.0	50	0	64.9	73-129	S
Toluene	38.64	5.0	50	0	77.3	79-120	S
trans-1,2-Dichloroethene	41.47	5.0	50	0	82.9	79-122	
trans-1,3-Dichloropropene	35.83	5.0	50	0	71.7	77-120	S
Trichloroethene	39.58	5.0	50	0	79.2	80-121	S
Trichlorofluoromethane	41.39	5.0	50	0	82.8	75-126	
Vinyl chloride	39.71	2.0	50	0	79.4	76-126	
Xylenes, Total	117.2	10	150	0	78.1	80-120	S
<i>Surr: 1,2-Dichloroethane-d4</i>	50.62	0	50	0	101	70-128	0
<i>Surr: 4-Bromofluorobenzene</i>	50.33	0	50	0	101	73-126	0
<i>Surr: Dibromofluoromethane</i>	50.72	0	50	0	101	71-128	0
<i>Surr: Toluene-d8</i>	48.43	0	50	0	96.9	73-127	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091199  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: R154368 Instrument ID VOA5 Method: SW8260

MSD		Sample ID: 13091181-02AMSD			Units: µg/Kg			Analysis Date: 9/26/2013 08:14 PM			
Client ID:		Run ID: VOA5_130926A			SeqNo: 3371097		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	38.99	5.0	50	0	78	79-124	39.47	1.23	30	S	
1,1,2,2-Tetrachloroethane	36.15	5.0	50	0	72.3	75-123	36.25	0.277	30	S	
1,1,2-Trichlor-1,2,2-trifluoroethane	39.64	5.0	50	0	79.3	79-125	38.95	1.77	30		
1,1,2-Trichloroethane	37.36	5.0	50	0	74.7	79-120	34.87	6.89	30	S	
1,1-Dichloroethane	39.74	5.0	50	0	79.5	75-124	39.39	0.883	30		
1,1-Dichloroethene	38.2	5.0	50	0	76.4	80-122	39.68	3.82	30	S	
1,2,4-Trichlorobenzene	29.66	5.0	50	0	59.3	74-128	32.39	8.8	30	S	
1,2-Dibromo-3-chloropropane	32.77	5.0	50	0	65.5	66-129	36.93	12	30	S	
1,2-Dibromoethane	38.32	5.0	50	0	76.6	70-120	35.92	6.47	30		
1,2-Dichlorobenzene	33.83	5.0	50	0	67.7	75-120	35.91	5.98	30	S	
1,2-Dichloroethane	36.57	5.0	50	0	73.1	73-121	38.57	5.33	30		
1,2-Dichloropropane	40.02	5.0	50	0	80	76-120	38.14	4.82	30		
1,3-Dichlorobenzene	34.31	5.0	50	0	68.6	70-125	36.42	5.99	30	S	
1,4-Dichlorobenzene	33.64	5.0	50	0	67.3	77-120	36.02	6.84	30	S	
2-Butanone	68.39	10	100	0	68.4	65-130	70.33	2.79	30		
2-Hexanone	72.43	10	100	0	72.4	65-133	73.32	1.21	30		
4-Methyl-2-pentanone	74.5	10	100	0	74.5	69-130	73.59	1.22	30		
Acetone	61.52	20	100	0	61.5	53-142	55.96	9.46	30		
Benzene	39.86	5.0	50	0	79.7	79-120	40.03	0.406	30		
Bromodichloromethane	39.42	5.0	50	0	78.8	79-121	39.29	0.353	30	S	
Bromoform	35.97	5.0	50	0	71.9	74-122	36.34	1.02	30	S	
Bromomethane	38.88	10	50	0	77.8	68-131	39.89	2.57	30		
Carbon disulfide	74.62	10	100	0	74.6	80-124	75.5	1.17	30	S	
Carbon tetrachloride	37.84	5.0	50	0	75.7	74-126	37.34	1.35	30		
Chlorobenzene	37.05	5.0	50	0	74.1	79-120	37.76	1.89	30	S	
Chloroethane	41.57	10	50	0	83.1	76-126	41.19	0.924	30		
Chloroform	40.66	5.0	50	0	81.3	78-120	38.46	5.56	30		
Chloromethane	41.46	10	50	0	82.9	69-129	40.09	3.37	30		
cis-1,2-Dichloroethene	15.64	5.0	50	0	31.3	80-120	37.76	82.8	30	SR	
cis-1,3-Dichloropropene	38.4	5.0	50	0	76.8	77-123	37.52	2.31	30	S	
Cyclohexane	34.93	5.0	50	0	69.9	74-126	37.81	7.91	30	S	
Dibromochloromethane	37.64	5.0	50	0	75.3	78-122	36.62	2.74	30	S	
Dichlorodifluoromethane	38.17	5.0	50	0	76.3	57-140	38.01	0.432	30		
Dichloromethane	40.57	10	50	3.331	74.5	62-130	36.92	9.42	30		
Ethylbenzene	38.87	5.0	50	0	77.7	80-122	39.39	1.33	30	S	
Isopropylbenzene	35.54	5.0	50	0	71.1	72-127	37.27	4.74	30	S	
m,p-Xylene	75.37	10	100	0	75.4	79-122	78.67	4.28	30	S	
Methyl acetate	40.15	5.0	50	0	80.3	69-123	38.67	3.76	30		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091199  
**Project:** COH-Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R154368</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>								
Methyl tert-butyl ether	40.86	5.0	50	0	81.7	76-121	38.08	7.04	30	
Methylcyclohexane	32.66	5.0	50	0	65.3	77-126	36.33	10.6	30	S
o-Xylene	35.4	5.0	50	0	70.8	80-123	38.55	8.53	30	S
Styrene	36.71	5.0	50	0	73.4	78-124	39.11	6.35	30	S
Tetrachloroethene	30.8	5.0	50	0	61.6	73-129	32.45	5.21	30	S
Toluene	38.68	5.0	50	0	77.4	79-120	38.64	0.115	30	S
trans-1,2-Dichloroethene	40.06	5.0	50	0	80.1	79-122	41.47	3.47	30	
trans-1,3-Dichloropropene	36.26	5.0	50	0	72.5	77-120	35.83	1.18	30	S
Trichloroethene	37.44	5.0	50	0	74.9	80-121	39.58	5.56	30	S
Trichlorofluoromethane	40.54	5.0	50	0	81.1	75-126	41.39	2.06	30	
Vinyl chloride	39.91	2.0	50	0	79.8	76-126	39.71	0.497	30	
Xylenes, Total	110.8	10	150	0	73.8	79-123	117.2	5.66	30	S
<i>Surr: 1,2-Dichloroethane-d4</i>	50.07	0	50	0	100	70-128	50.62	1.09	30	
<i>Surr: 4-Bromofluorobenzene</i>	49.46	0	50	0	98.9	73-126	50.33	1.75	30	
<i>Surr: Dibromofluoromethane</i>	51.07	0	50	0	102	71-128	50.72	0.679	30	
<i>Surr: Toluene-d8</i>	48.98	0	50	0	98	73-127	48.43	1.14	30	

**The following samples were analyzed in this batch:**

13091199-01A	13091199-02A	13091199-03A
13091199-04A	13091199-05A	13091199-06A
13091199-07A		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091199  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R154401** Instrument ID **VOA3** Method: **SW8260**

**MBLK** Sample ID: **VBLKM1-092413-R154401** Units: **µg/Kg** Analysis Date: **9/27/2013 09:23 AM**

Client ID: Run ID: **VOA3\_130927A** SeqNo: **3371673** Prep Date: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	250								
Ethylbenzene	U	250								
m,p-Xylene	U	500								
o-Xylene	U	250								
Toluene	U	250								
Xylenes, Total	U	500								
<i>Surr: 1,2-Dichloroethane-d4</i>	3141	0	2500	0	126	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	2866	0	2500	0	115	73-126	0			
<i>Surr: Dibromofluoromethane</i>	2722	0	2500	0	109	71-128	0			
<i>Surr: Toluene-d8</i>	2451	0	2500	0	98.1	73-127	0			

**LCS** Sample ID: **VLCSW1-092713-R154401** Units: **µg/L** Analysis Date: **9/27/2013 08:28 AM**

Client ID: Run ID: **VOA3\_130927A** SeqNo: **3371672** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	51.56	5.0	50	0	103	73-121				
Ethylbenzene	50.5	5.0	50	0	101	80-120				
m,p-Xylene	101.4	10	100	0	101	78-121				
o-Xylene	48.73	5.0	50	0	97.5	80-120				
Toluene	50.84	5.0	50	0	102	80-120				
Xylenes, Total	150.2	15	150	0	100	80-120				
<i>Surr: 1,2-Dichloroethane-d4</i>	57.31	5.0	50	0	115	70-125	0			
<i>Surr: 4-Bromofluorobenzene</i>	57.1	5.0	50	0	114	72-125	0			
<i>Surr: Dibromofluoromethane</i>	52.87	5.0	50	0	106	71-125	0			
<i>Surr: Toluene-d8</i>	50.91	5.0	50	0	102	75-125	0			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091199  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R154401** Instrument ID **VOA3** Method: **SW8260**

MS		Sample ID: <b>13091061-07AMS</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>9/27/2013 11:44 AM</b>		
Client ID:		Run ID: <b>VOA3_130927A</b>			SeqNo: <b>3372257</b>		Prep Date:		DF: <b>1000</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	51280	5,000	50000	0	103	79-120				
Ethylbenzene	50490	5,000	50000	2354	96.3	80-122				
m,p-Xylene	104900	10,000	100000	7794	97.1	79-122				
o-Xylene	49710	5,000	50000	733	98	80-123				
Toluene	48540	5,000	50000	1308	94.5	79-120				
Xylenes, Total	154600	10,000	150000	7794	97.9	80-120				
<i>Surr: 1,2-Dichloroethane-d4</i>	58760	0	50000	0	118	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	55530	0	50000	0	111	73-126	0			
<i>Surr: Dibromofluoromethane</i>	52390	0	50000	0	105	71-128	0			
<i>Surr: Toluene-d8</i>	49230	0	50000	0	98.5	73-127	0			

MSD		Sample ID: <b>13091061-07AMSD</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>9/27/2013 12:13 PM</b>		
Client ID:		Run ID: <b>VOA3_130927A</b>			SeqNo: <b>3372258</b>		Prep Date:		DF: <b>1000</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	60600	5,000	50000	0	121	79-120	51280	16.7	30	S
Ethylbenzene	61140	5,000	50000	2354	118	80-122	50490	19.1	30	
m,p-Xylene	121800	10,000	100000	7794	114	79-122	104900	14.9	30	
o-Xylene	58160	5,000	50000	733	115	80-123	49710	15.7	30	
Toluene	57940	5,000	50000	1308	113	79-120	48540	17.6	30	
Xylenes, Total	179900	10,000	150000	7794	115	79-123	154600	15.1	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	58720	0	50000	0	117	70-128	58760	0.0783	30	
<i>Surr: 4-Bromofluorobenzene</i>	53940	0	50000	0	108	73-126	55530	2.91	30	
<i>Surr: Dibromofluoromethane</i>	51880	0	50000	0	104	71-128	52390	0.964	30	
<i>Surr: Toluene-d8</i>	49120	0	50000	0	98.2	73-127	49230	0.239	30	

The following samples were analyzed in this batch:

13091199-03A	13091199-04A	13091199-05A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091199  
**Project:** COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R154434**      Instrument ID **VOA1**      Method: **SW8260**

**MBLK**      Sample ID: **VBLKW-130927-R154434**      Units: **µg/L**      Analysis Date: **9/27/2013 11:23 AM**

Client ID:      Run ID: **VOA1\_130927A**      SeqNo: **3372354**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	10								
4-Methyl-2-pentanone	U	10								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	5.0								
Carbon disulfide	U	10								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	U	5.0								
Chloromethane	U	5.0								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	5.0								
Dichloromethane	U	10								
Ethylbenzene	U	5.0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	10								
Methyl acetate	U	5.0								

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091199  
**Project:** COH-Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R154434</b>	Instrument ID <b>VOA1</b>	Method: <b>SW8260</b>						
Methyl tert-butyl ether	U	5.0						
Methylcyclohexane	U	5.0						
o-Xylene	U	5.0						
Styrene	U	5.0						
Tetrachloroethene	U	5.0						
Toluene	U	5.0						
trans-1,2-Dichloroethene	U	5.0						
trans-1,3-Dichloropropene	U	5.0						
Trichloroethene	U	5.0						
Trichlorofluoromethane	U	5.0						
Vinyl chloride	U	2.0						
Xylenes, Total	U	15						
<i>Surr: 1,2-Dichloroethane-d4</i>	49.54	5.0	50	0	99.1	70-125	0	
<i>Surr: 4-Bromofluorobenzene</i>	51.43	5.0	50	0	103	72-125	0	
<i>Surr: Dibromofluoromethane</i>	50.04	5.0	50	0	100	71-125	0	
<i>Surr: Toluene-d8</i>	51.33	5.0	50	0	103	75-125	0	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091199  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: R154434 Instrument ID VOA1 Method: SW8260

LCS Sample ID: VLCSW-130927-R154434 Units: µg/L Analysis Date: 9/27/2013 10:32 AM

Client ID: Run ID: VOA1\_130927A SeqNo: 3372353 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	50.44	5.0	50	0	101	80-120				
1,1,2,2-Tetrachloroethane	54.86	5.0	50	0	110	72-120				
1,1,2-Trichlor-1,2,2-trifluoroethane	51.71	5.0	50	0	103	73-123				
1,1,2-Trichloroethane	54.06	5.0	50	0	108	80-120				
1,1-Dichloroethane	51.51	5.0	50	0	103	76-120				
1,1-Dichloroethene	52.34	5.0	50	0	105	73-124				
1,2,4-Trichlorobenzene	54.39	5.0	50	0	109	75-130				
1,2-Dibromo-3-chloropropane	59.58	5.0	50	0	119	65-125				
1,2-Dibromoethane	54.3	5.0	50	0	109	80-120				
1,2-Dichlorobenzene	53.8	5.0	50	0	108	80-120				
1,2-Dichloroethane	51.24	5.0	50	0	102	78-120				
1,2-Dichloropropane	49.38	5.0	50	0	98.8	80-120				
1,3-Dichlorobenzene	55.41	5.0	50	0	111	80-120				
1,4-Dichlorobenzene	51.11	5.0	50	0	102	80-120				
2-Butanone	110.8	10	100	0	111	58-132				
2-Hexanone	105	10	100	0	105	61-130				
4-Methyl-2-pentanone	107.9	10	100	0	108	65-127				
Acetone	105.9	10	100	0	106	59-137				
Benzene	49.24	5.0	50	0	98.5	73-121				
Bromodichloromethane	51.3	5.0	50	0	103	75-125				
Bromoform	51.99	5.0	50	0	104	70-130				
Bromomethane	50.3	5.0	50	0	101	60-145				
Carbon disulfide	106.1	10	100	0	106	68-141				
Carbon tetrachloride	46.83	5.0	50	0	93.7	75-125				
Chlorobenzene	51.98	5.0	50	0	104	80-120				
Chloroethane	51.23	5.0	50	0	102	70-130				
Chloroform	51.43	5.0	50	0	103	70-130				
Chloromethane	50.82	5.0	50	0	102	67-123				
cis-1,2-Dichloroethene	51.88	5.0	50	0	104	78-120				
cis-1,3-Dichloropropene	51.51	5.0	50	0	103	80-120				
Cyclohexane	51.3	5.0	50	0	103	66-125				
Dibromochloromethane	52.57	5.0	50	0	105	80-120				
Dichlorodifluoromethane	52.87	5.0	50	0	106	63-125				
Dichloromethane	51.18	10	50	0	102	65-133				
Ethylbenzene	54.86	5.0	50	0	110	80-120				
Isopropylbenzene	50.5	5.0	50	0	101	75-130				
m,p-Xylene	106.2	10	100	0	106	78-121				
Methyl acetate	54.83	5.0	50	0	110	60-130				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091199  
**Project:** COH-Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R154434</b>	Instrument ID <b>VOA1</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	48.53	5.0	50	0	97.1	73-121	
Methylcyclohexane	53.95	5.0	50	0	108	70-122	
o-Xylene	51.98	5.0	50	0	104	80-120	
Styrene	52.73	5.0	50	0	105	80-120	
Tetrachloroethene	54.91	5.0	50	0	110	79-120	
Toluene	52.28	5.0	50	0	105	80-120	
trans-1,2-Dichloroethene	50.44	5.0	50	0	101	78-120	
trans-1,3-Dichloropropene	50.04	5.0	50	0	100	80-120	
Trichloroethene	50.85	5.0	50	0	102	80-120	
Trichlorofluoromethane	50.64	5.0	50	0	101	72-130	
Vinyl chloride	54.91	2.0	50	0	110	70-127	
Xylenes, Total	158.2	15	150	0	105	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	50.86	5.0	50	0	102	70-125	0
<i>Surr: 4-Bromofluorobenzene</i>	48.16	5.0	50	0	96.3	72-125	0
<i>Surr: Dibromofluoromethane</i>	50.81	5.0	50	0	102	71-125	0
<i>Surr: Toluene-d8</i>	50.34	5.0	50	0	101	75-125	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091199  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: R154434 Instrument ID VOA1 Method: SW8260

MS Sample ID: 13091148-01AMS Units: µg/L Analysis Date: 9/27/2013 01:04 PM

Client ID: Run ID: VOA1\_130927A SeqNo: 3372358 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.7	5.0	50	0	97.4	80-120				
1,1,2,2-Tetrachloroethane	54.87	5.0	50	0	110	72-120				
1,1,2-Trichlor-1,2,2-trifluoroethane	45	5.0	50	0	90	73-123				
1,1,2-Trichloroethane	53.96	5.0	50	0	108	80-120				
1,1-Dichloroethane	52.58	5.0	50	0	105	76-120				
1,1-Dichloroethene	48.54	5.0	50	0	97.1	73-124				
1,2,4-Trichlorobenzene	49.49	5.0	50	0	99	75-130				
1,2-Dibromo-3-chloropropane	56.95	5.0	50	0	114	65-125				
1,2-Dibromoethane	57.38	5.0	50	0	115	80-120				
1,2-Dichlorobenzene	49.79	5.0	50	0	99.6	80-120				
1,2-Dichloroethane	54.6	5.0	50	0	109	78-120				
1,2-Dichloropropane	53.47	5.0	50	0	107	80-120				
1,3-Dichlorobenzene	49.59	5.0	50	0	99.2	80-120				
1,4-Dichlorobenzene	48.14	5.0	50	0	96.3	80-120				
2-Butanone	116	10	100	0	116	58-132				
2-Hexanone	109	10	100	0	109	61-130				
4-Methyl-2-pentanone	116.5	10	100	0	116	65-127				
Acetone	101.9	10	100	0	102	59-137				
Benzene	50.24	5.0	50	0	100	73-121				
Bromodichloromethane	53.16	5.0	50	0	106	75-125				
Bromoform	54.07	5.0	50	0	108	70-130				
Bromomethane	51.07	5.0	50	0	102	60-145				
Carbon disulfide	98.07	10	100	0	98.1	68-141				
Carbon tetrachloride	44.05	5.0	50	0	88.1	75-125				
Chlorobenzene	51.29	5.0	50	0	103	80-120				
Chloroethane	47.5	5.0	50	0	95	70-130				
Chloroform	52.55	5.0	50	0	105	70-130				
Chloromethane	51.02	5.0	50	0	102	67-123				
cis-1,2-Dichloroethene	52.7	5.0	50	0	105	78-120				
cis-1,3-Dichloropropene	52.34	5.0	50	0	105	80-120				
Cyclohexane	46.01	5.0	50	0	92	66-125				
Dibromochloromethane	53.71	5.0	50	0	107	80-120				
Dichlorodifluoromethane	42.62	5.0	50	0	85.2	63-125				
Dichloromethane	55.82	10	50	0	112	65-133				
Ethylbenzene	48.13	5.0	50	0	96.3	80-120				
Isopropylbenzene	45.97	5.0	50	0	91.9	75-130				
m,p-Xylene	94.83	10	100	0	94.8	78-121				
Methyl acetate	56.66	5.0	50	0	113	60-130				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091199  
**Project:** COH-Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R154434</b>	Instrument ID <b>VOA1</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	45.27	5.0	50	0	90.5	73-121	
Methylcyclohexane	33.53	5.0	50	0	67.1	70-122	S
o-Xylene	48.48	5.0	50	0	97	80-120	
Styrene	49.14	5.0	50	0	98.3	80-120	
Tetrachloroethene	43.14	5.0	50	0	86.3	79-120	
Toluene	47.7	5.0	50	0	95.4	80-120	
trans-1,2-Dichloroethene	50.15	5.0	50	0	100	78-120	
trans-1,3-Dichloropropene	57.11	5.0	50	0	114	80-120	
Trichloroethene	48.7	5.0	50	0	97.4	80-120	
Trichlorofluoromethane	44.58	5.0	50	0	89.2	72-130	
Vinyl chloride	49.34	2.0	50	0	98.7	70-127	
Xylenes, Total	143.3	15	150	0	95.5	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	48	5.0	50	0	96	70-125	0
<i>Surr: 4-Bromofluorobenzene</i>	48.06	5.0	50	0	96.1	72-125	0
<i>Surr: Dibromofluoromethane</i>	51.8	5.0	50	0	104	71-125	0
<i>Surr: Toluene-d8</i>	46.48	5.0	50	0	93	75-125	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091199  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: R154434 Instrument ID VOA1 Method: SW8260

MSD	Sample ID: 13091148-01AMSD	Units: µg/L					Analysis Date: 9/27/2013 01:30 PM			
Client ID:	Run ID: VOA1_130927A	SeqNo: 3372359			Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	46.16	5.0	50	0	92.3	80-120	48.7	5.36	20	
1,1,2,2-Tetrachloroethane	51.27	5.0	50	0	103	72-120	54.87	6.79	20	
1,1,2-Trichlor-1,2,2-trifluoroethane	47.56	5.0	50	0	95.1	73-123	45	5.54	20	
1,1,2-Trichloroethane	53.93	5.0	50	0	108	80-120	53.96	0.0523	20	
1,1-Dichloroethane	47.74	5.0	50	0	95.5	76-120	52.58	9.64	20	
1,1-Dichloroethene	47.11	5.0	50	0	94.2	73-124	48.54	2.99	20	
1,2,4-Trichlorobenzene	45.24	5.0	50	0	90.5	75-130	49.49	8.98	20	
1,2-Dibromo-3-chloropropane	53.14	5.0	50	0	106	65-125	56.95	6.92	20	
1,2-Dibromoethane	55.19	5.0	50	0	110	80-120	57.38	3.9	20	
1,2-Dichlorobenzene	48.96	5.0	50	0	97.9	80-120	49.79	1.69	20	
1,2-Dichloroethane	48.59	5.0	50	0	97.2	78-120	54.6	11.7	20	
1,2-Dichloropropane	49.75	5.0	50	0	99.5	80-120	53.47	7.22	20	
1,3-Dichlorobenzene	48.54	5.0	50	0	97.1	80-120	49.59	2.14	20	
1,4-Dichlorobenzene	46.4	5.0	50	0	92.8	80-120	48.14	3.68	20	
2-Butanone	102.9	10	100	0	103	58-132	116	12	20	
2-Hexanone	111.9	10	100	0	112	61-130	109	2.57	20	
4-Methyl-2-pentanone	108.2	10	100	0	108	65-127	116.5	7.34	20	
Acetone	97.35	10	100	0	97.4	59-137	101.9	4.57	20	
Benzene	48.01	5.0	50	0	96	73-121	50.24	4.53	20	
Bromodichloromethane	50.44	5.0	50	0	101	75-125	53.16	5.23	20	
Bromoform	49.95	5.0	50	0	99.9	70-130	54.07	7.93	20	
Bromomethane	50	5.0	50	0	100	60-145	51.07	2.12	20	
Carbon disulfide	96.05	10	100	0	96	68-141	98.07	2.08	20	
Carbon tetrachloride	46.01	5.0	50	0	92	75-125	44.05	4.34	20	
Chlorobenzene	49.04	5.0	50	0	98.1	80-120	51.29	4.47	20	
Chloroethane	46.64	5.0	50	0	93.3	76-121	47.5	1.81	20	
Chloroform	48.55	5.0	50	0	97.1	70-130	52.55	7.93	20	
Chloromethane	46.36	5.0	50	0	92.7	67-123	51.02	9.57	20	
cis-1,2-Dichloroethene	48.46	5.0	50	0	96.9	78-120	52.7	8.38	20	
cis-1,3-Dichloropropene	49.56	5.0	50	0	99.1	80-120	52.34	5.45	20	
Cyclohexane	43.69	5.0	50	0	87.4	66-125	46.01	5.18	20	
Dibromochloromethane	53.32	5.0	50	0	107	80-120	53.71	0.723	20	
Dichlorodifluoromethane	43.16	5.0	50	0	86.3	63-125	42.62	1.26	20	
Dichloromethane	50.16	10	50	0	100	65-133	55.82	10.7	20	
Ethylbenzene	51.72	5.0	50	0	103	80-120	48.13	7.2	20	
Isopropylbenzene	51.36	5.0	50	0	103	75-130	45.97	11.1	20	
m,p-Xylene	102	10	100	0	102	78-121	94.83	7.24	20	
Methyl acetate	53.11	5.0	50	0	106	60-130	56.66	6.47	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091199  
**Project:** COH-Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R154434</b>	Instrument ID <b>VOA1</b>	Method: <b>SW8260</b>								
Methyl tert-butyl ether	47.68	5.0	50	0	95.4	73-121	45.27	5.18	20	
Methylcyclohexane	21.19	5.0	50	0	42.4	70-122	33.53	45.1	20	SR
o-Xylene	49.79	5.0	50	0	99.6	80-120	48.48	2.66	20	
Styrene	50.57	5.0	50	0	101	80-120	49.14	2.88	20	
Tetrachloroethene	48.25	5.0	50	0	96.5	79-120	43.14	11.2	20	
Toluene	50.54	5.0	50	0	101	80-120	47.7	5.78	20	
trans-1,2-Dichloroethene	49.33	5.0	50	0	98.7	78-120	50.15	1.64	20	
trans-1,3-Dichloropropene	50.97	5.0	50	0	102	80-120	57.11	11.4	20	
Trichloroethene	46.67	5.0	50	0	93.3	80-120	48.7	4.25	20	
Trichlorofluoromethane	46.98	5.0	50	0	94	72-130	44.58	5.25	20	
Vinyl chloride	49.12	2.0	50	0	98.2	70-127	49.34	0.445	20	
Xylenes, Total	151.7	15	150	0	101	78-121	143.3	5.71	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	51.38	5.0	50	0	103	70-125	48	6.81	20	
<i>Surr: 4-Bromofluorobenzene</i>	52.05	5.0	50	0	104	72-125	48.06	7.99	20	
<i>Surr: Dibromofluoromethane</i>	49.82	5.0	50	0	99.6	71-125	51.8	3.89	20	
<i>Surr: Toluene-d8</i>	49.56	5.0	50	0	99.1	75-125	46.48	6.43	20	

The following samples were analyzed in this batch:

13091199-08A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES  
**WorkOrder:** 13091199

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter

Sample Receipt Checklist

Client Name: **CORRIGAN-HOU**

Date/Time Received: **26-Sep-13 12:40**

Work Order: **13091199**

Received by: **ECD**

Checklist completed by William Jenkins 26-Sep-13  
eSignature Date

Reviewed by: Sonia West 27-Sep-13  
eSignature Date

Matrices: **SOIL/WATER**

Carrier name: **ALS.HS**

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Container/Temp Blank temperature in compliance? Yes  No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt? Yes  No  N/A

pH adjusted? Yes  No  N/A

pH adjusted by:

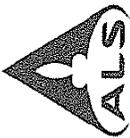
Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



Cincinnati, OH  
+1 513 733 5336  
Everett, WA  
+1 425 356 2600

# Chain of Custody Form

Page 1 of 1

COC ID: 87859

# 13091199

CORRIGAN-HOU: Kleinfeider

Project: COH-Montrose-Midtown Phase II ES

## Environmental

ALS Project Manager:

Customer Information				Project Information													
Purchase Order	Project Name	COH-Montrose-Midtown Phase II ES											A				
Work Order	Project Number	136524											B				
Company Name	Bill To Company	Kleinfeider											C				
Send Report To	Invoice Attn	Jordan Smith <b>Roxie Voran</b>											D				
Address	Address	12000 Aerospace Ave. Suite 450											E				
City/State/Zip	City/State/Zip	Houston, TX 77034											F				
Phone	Phone	(281) 922-4768											G				
Fax	Fax	(281) 922-4767											H				
e-Mail Address	e-Mail Address	jsmith@kco.com <b>Roxie.Voran@...</b>											I				
		j.smith... Roxie.Voran@...											J				
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B-27 (16-28)	9/25/13	905	S	8	2	X	X									
2	B-23 (34-36)		1035				X	X									
3	B-24 (24-26)		1200				X	X									
4	B-25 (34-36)		1315				X	X									
5	B-26 (34-36)		1515				X	X									
6	B-27 (30-32)		1635				X	X									
7	B-29 (20-22)		1750				X	X									
8	Trip Blanks																
9																	
10																	

*That's receipt used*

Shipment Method: **Pick Up**

Required Turnaround Time: (Check Box)  
 Std. 10 Wk Days  
 5 Wk Days  
 24 Hour

Results Due Date:

Received by: **Tracy Harris**  
 Received by (Laboratory): **Tracy Harris**  
 Checked by (Laboratory): **Tracy Harris**

Received by: **Tracy Harris**  
 Received by (Laboratory): **Tracy Harris**  
 Checked by (Laboratory): **Tracy Harris**

Reinquired by: **Jordan Smith** Date: **9/26/13** Time: **11:15**  
 Requiring by: **Jordan Smith** Date: **9/26/13** Time: **12:40**  
 Logged by (Laboratory): **Tracy Harris** Date: **9-26-13** Time: **1:16**

Preservative Key: 1-HCl 2-HNO<sub>3</sub> 3-H<sub>2</sub>SO<sub>4</sub> 4-NaOH 5-Na<sub>2</sub>S<sub>2</sub>O<sub>8</sub> 6-NaHSO<sub>4</sub> 7-Other 8-4°C 9-5035

QC Package: (Check One Box Below)  
 Level II Std QC  
 Level III Std QC/Raw Data  
 Level IV SV/BA/CLP  
 Other / EDD

Cooler ID: **4770**

Cooler Temp: \_\_\_\_\_

Notes:

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.  
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.  
 3. The Chain of Custody is a legal document. All information must be completed accurately.

## Review of Laboratory Analysis Report

Client: City of Houston Date: October 9, 2013

Project: Montrose-Midtown Phase II ESA Reviewed by: K. Scheller

Project No.: 136524, Task 001 Project Manager: R. Voran

Laboratory Report No.: 13091199 (ALS Environmental, Houston, Texas). Samples collected 9-25-2013.

1. The following are attached to report:

- |   |                                     |     |                                     |    |                          |     |
|---|-------------------------------------|-----|-------------------------------------|----|--------------------------|-----|
| Completed Chain-of-Custody  | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| Analytical results for all requested analyses   | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| QA/QC reports for each analytical method  | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| 2. Did received temperature meet method criteria?   | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| 3. Were extractions and analyses performed using appropriate method and prior to elapse of holding times?   | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| 4. Do detection limits meet regulatory or project requirements?   | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| 5. Are data for percent recovery and relative percent difference (RPD) for matrix spikes (MS) and matrix spike duplicates (MSD) within acceptable ranges? | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no | <input type="checkbox"/> | N/A |
| 6. Are data for percent recovery and RPD for blank spike and blank spike duplicates (BS/BSD or LCS/LSCD) within acceptable ranges?                        | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no |                          |     |
| 7. Were the surrogates recovered within acceptable ranges?  | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no | <input type="checkbox"/> | N/A |
| 8. Were any compounds/metals reported in the method blanks?   | <input type="checkbox"/>            | yes | <input checked="" type="checkbox"/> | no |                          |     |
| 9. Are analytical data for field blanks, trip blanks, and duplicates acceptable?  | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no | <input type="checkbox"/> | N/A |

10. Notes:

5). Project sample B-14 (26-28) was used as a MS/MSD sample for the analysis of BTEX, which were diluted due to elevated BTEX concentrations. Percent recoveries and RPDs met objectives.

9). Acetone and dichloromethane were detected in the trip blank sample. No sample data are qualified because either these two VOCs were not detected in the samples, or in the case of acetone, it was detected at concentrations more than ten times (10x) the trip blank concentration.

The laboratory noted that the continuing calibration verification (CCV) percent difference (%D) was above control limits for chloroethane. Chloroethane was not detected in any of the samples and each chloroethane result is qualified as estimated ("UJ" qualified).

It should be noted that some of the concentrations were reported between the sample detection limite (SDL) and the method quantitation limit (MQL) and qualified by the laboratory as estimated values ("J" qualified). As a result of the data quality review, these "J" qualified data remain qualified as such, unless they were qualified by the reviewer as listed above.



03-Oct-2013

Jordan Smith  
Kleinfelder  
12000 Aerospace Ave.  
Suite 450  
Houston, TX 77034

Tel: (281) 922-4766  
Fax: (281) 922-4767

Re: COH-Montrose-Midtown Phase II ES

Work Order: **13091257**

Dear Jordan,

ALS Environmental received 9 samples on 25-Sep-2013 03:55 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 40.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in cursive script that reads "Sonia West".

Electronically approved by: Dayna.Fisher

Sonia West  
Project Manager



Certificate No: TX: T104704231-13-12

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

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RIGHT SOLUTIONS RIGHT PARTNER

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES  
**Work Order:** 13091257

**Work Order Sample Summary**

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<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
13091257-01	B-15 (16-18)	Soil		9/24/2013 08:50	9/25/2013 15:55	<input type="checkbox"/>
13091257-02	B-16 (24-26)	Soil		9/24/2013 10:05	9/25/2013 15:55	<input type="checkbox"/>
13091257-03	B-17 (18-20)	Soil		9/24/2013 10:55	9/25/2013 15:55	<input type="checkbox"/>
13091257-04	B-18 (8-10)	Soil		9/24/2013 11:45	9/25/2013 15:55	<input type="checkbox"/>
13091257-05	B-19 (20-22)	Soil		9/24/2013 13:15	9/25/2013 15:55	<input type="checkbox"/>
13091257-06	B-20 (2-4)	Soil		9/24/2013 15:05	9/25/2013 15:55	<input type="checkbox"/>
13091257-07	B-21 (18-20)	Soil		9/24/2013 15:05	9/25/2013 15:55	<input type="checkbox"/>
13091257-08	B-18	Water		9/24/2013 15:20	9/25/2013 15:55	<input type="checkbox"/>
13091257-09	Trip Blank 090613-30	Water		9/24/2013	9/25/2013 15:55	<input checked="" type="checkbox"/>

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**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES  
**Work Order:** 13091257

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**Case Narrative**

Batch 73475, TPH TX1005, Sample FLCSDS1-130930: The LCSD RPD for nC12-nC28 was outside of the control limits. The LCS and LCSD recoveries were within the control limits.

Batch 73475, TPH TX1005, Sample 13091136-01A: MS/MSD are for an unrelated sample.

Batch R15499, Volatile Organics 8260, Sample B-19 (20-22) (13091257-05A): The MS and/or MSD recovery was outside of the control limits for Trichloroethane.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091257

**Sample ID:** B-15 (16-18)

**Lab ID:** 13091257-01

**Collection Date:** 9/24/2013 08:50 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>9/30/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		50	mg/Kg	1	10/1/2013 01:02 AM
>nC12 to nC28	U		50	mg/Kg	1	10/1/2013 01:02 AM
>nC28 to nC35	U		50	mg/Kg	1	10/1/2013 01:02 AM
Total Petroleum Hydrocarbon	U		50	mg/Kg	1	10/1/2013 01:02 AM
<i>Surr: 2-Fluorobiphenyl</i>	95.9		70-130	%REC	1	10/1/2013 01:02 AM
<i>Surr: Trifluoromethyl benzene</i>	88.5		70-130	%REC	1	10/1/2013 01:02 AM
<b>VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
Benzene	U		5.0	µg/Kg	1	9/27/2013 04:07 PM
Ethylbenzene	U		5.0	µg/Kg	1	9/27/2013 04:07 PM
m,p-Xylene	U		10	µg/Kg	1	9/27/2013 04:07 PM
Methyl tert-butyl ether	U		5.0	µg/Kg	1	9/27/2013 04:07 PM
o-Xylene	U		5.0	µg/Kg	1	9/27/2013 04:07 PM
Toluene	U		5.0	µg/Kg	1	9/27/2013 04:07 PM
Xylenes, Total	U		10	µg/Kg	1	9/27/2013 04:07 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	92.9		70-128	%REC	1	9/27/2013 04:07 PM
<i>Surr: 4-Bromofluorobenzene</i>	99.0		73-126	%REC	1	9/27/2013 04:07 PM
<i>Surr: Dibromofluoromethane</i>	99.6		71-128	%REC	1	9/27/2013 04:07 PM
<i>Surr: Toluene-d8</i>	103		73-127	%REC	1	9/27/2013 04:07 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091257

**Sample ID:** B-16 (24-26)

**Lab ID:** 13091257-02

**Collection Date:** 9/24/2013 10:05 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>9/30/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		50	mg/Kg	1	10/1/2013 01:34 AM
>nC12 to nC28	U		50	mg/Kg	1	10/1/2013 01:34 AM
>nC28 to nC35	U		50	mg/Kg	1	10/1/2013 01:34 AM
Total Petroleum Hydrocarbon	U		50	mg/Kg	1	10/1/2013 01:34 AM
<i>Surr: 2-Fluorobiphenyl</i>	128		70-130	%REC	1	10/1/2013 01:34 AM
<i>Surr: Trifluoromethyl benzene</i>	116		70-130	%REC	1	10/1/2013 01:34 AM
<b>VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
Benzene	U		5.0	µg/Kg	1	9/27/2013 04:56 PM
Ethylbenzene	U		5.0	µg/Kg	1	9/27/2013 04:56 PM
m,p-Xylene	U		10	µg/Kg	1	9/27/2013 04:56 PM
Methyl tert-butyl ether	U		5.0	µg/Kg	1	9/27/2013 04:56 PM
o-Xylene	U		5.0	µg/Kg	1	9/27/2013 04:56 PM
Toluene	U		5.0	µg/Kg	1	9/27/2013 04:56 PM
Xylenes, Total	U		10	µg/Kg	1	9/27/2013 04:56 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	91.8		70-128	%REC	1	9/27/2013 04:56 PM
<i>Surr: 4-Bromofluorobenzene</i>	97.4		73-126	%REC	1	9/27/2013 04:56 PM
<i>Surr: Dibromofluoromethane</i>	95.6		71-128	%REC	1	9/27/2013 04:56 PM
<i>Surr: Toluene-d8</i>	97.3		73-127	%REC	1	9/27/2013 04:56 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091257

**Sample ID:** B-17 (18-20)

**Lab ID:** 13091257-03

**Collection Date:** 9/24/2013 10:55 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>9/30/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		50	mg/Kg	1	10/1/2013 02:06 AM
>nC12 to nC28	U		50	mg/Kg	1	10/1/2013 02:06 AM
>nC28 to nC35	U		50	mg/Kg	1	10/1/2013 02:06 AM
Total Petroleum Hydrocarbon	U		50	mg/Kg	1	10/1/2013 02:06 AM
<i>Surr: 2-Fluorobiphenyl</i>	95.8		70-130	%REC	1	10/1/2013 02:06 AM
<i>Surr: Trifluoromethyl benzene</i>	87.2		70-130	%REC	1	10/1/2013 02:06 AM
<b>VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
Benzene	U		5.0	µg/Kg	1	9/27/2013 04:32 PM
Ethylbenzene	U		5.0	µg/Kg	1	9/27/2013 04:32 PM
m,p-Xylene	U		10	µg/Kg	1	9/27/2013 04:32 PM
Methyl tert-butyl ether	U		5.0	µg/Kg	1	9/27/2013 04:32 PM
o-Xylene	U		5.0	µg/Kg	1	9/27/2013 04:32 PM
Toluene	U		5.0	µg/Kg	1	9/27/2013 04:32 PM
Xylenes, Total	U		10	µg/Kg	1	9/27/2013 04:32 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	96.0		70-128	%REC	1	9/27/2013 04:32 PM
<i>Surr: 4-Bromofluorobenzene</i>	97.6		73-126	%REC	1	9/27/2013 04:32 PM
<i>Surr: Dibromofluoromethane</i>	98.2		71-128	%REC	1	9/27/2013 04:32 PM
<i>Surr: Toluene-d8</i>	99.1		73-127	%REC	1	9/27/2013 04:32 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091257

**Sample ID:** B-18 (8-10)

**Lab ID:** 13091257-04

**Collection Date:** 9/24/2013 11:45 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
1,1,1-Trichloroethane	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
1,1,2,2-Tetrachloroethane	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
1,1,2-Trichlor-1,2,2-trifluoroethane	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
1,1,2-Trichloroethane	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
1,1-Dichloroethane	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
1,1-Dichloroethene	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
1,2,4-Trichlorobenzene	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
1,2-Dibromo-3-chloropropane	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
1,2-Dibromoethane	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
1,2-Dichlorobenzene	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
1,2-Dichloroethane	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
1,2-Dichloropropane	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
1,3-Dichlorobenzene	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
1,4-Dichlorobenzene	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
2-Butanone	U		10	µg/Kg	1	9/30/2013 11:27 AM
2-Hexanone	U		10	µg/Kg	1	9/30/2013 11:27 AM
4-Methyl-2-pentanone	U		10	µg/Kg	1	9/30/2013 11:27 AM
Acetone	U		20	µg/Kg	1	9/30/2013 11:27 AM
<b>Benzene</b>	<b>7.1</b>		<b>5.0</b>	<b>µg/Kg</b>	1	9/30/2013 11:27 AM
Bromodichloromethane	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
Bromoform	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
Bromomethane	U		10	µg/Kg	1	9/30/2013 11:27 AM
Carbon disulfide	U		10	µg/Kg	1	9/30/2013 11:27 AM
Carbon tetrachloride	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
Chlorobenzene	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
Chloroethane	U		10	µg/Kg	1	9/30/2013 11:27 AM
Chloroform	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
Chloromethane	U		10	µg/Kg	1	9/30/2013 11:27 AM
cis-1,2-Dichloroethene	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
cis-1,3-Dichloropropene	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
Cyclohexane	U	n	5.0	µg/Kg	1	9/30/2013 11:27 AM
Dibromochloromethane	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
Dichlorodifluoromethane	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
Dichloromethane	U		10	µg/Kg	1	9/30/2013 11:27 AM
Ethylbenzene	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
Isopropylbenzene	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
m,p-Xylene	U		10	µg/Kg	1	9/30/2013 11:27 AM
Methyl acetate	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
Methyl tert-butyl ether	U		5.0	µg/Kg	1	9/30/2013 11:27 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091257

**Sample ID:** B-18 (8-10)

**Lab ID:** 13091257-04

**Collection Date:** 9/24/2013 11:45 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
o-Xylene	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
Styrene	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
Tetrachloroethene	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
Toluene	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
trans-1,2-Dichloroethene	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
trans-1,3-Dichloropropene	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
Trichloroethene	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
Trichlorofluoromethane	U		5.0	µg/Kg	1	9/30/2013 11:27 AM
Vinyl chloride	U		2.0	µg/Kg	1	9/30/2013 11:27 AM
Xylenes, Total	U		15	µg/Kg	1	9/30/2013 11:27 AM
Surr: 1,2-Dichloroethane-d4	86.8		70-128	%REC	1	9/30/2013 11:27 AM
Surr: 4-Bromofluorobenzene	98.0		73-126	%REC	1	9/30/2013 11:27 AM
Surr: Dibromofluoromethane	94.0		71-128	%REC	1	9/30/2013 11:27 AM
Surr: Toluene-d8	99.3		73-127	%REC	1	9/30/2013 11:27 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091257

**Sample ID:** B-19 (20-22)

**Lab ID:** 13091257-05

**Collection Date:** 9/24/2013 01:15 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
1,1,1-Trichloroethane	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
1,1,2,2-Tetrachloroethane	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
1,1,2-Trichlor-1,2,2-trifluoroethane	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
1,1,2-Trichloroethane	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
1,1-Dichloroethane	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
1,1-Dichloroethene	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
1,2,4-Trichlorobenzene	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
1,2-Dibromo-3-chloropropane	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
1,2-Dibromoethane	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
1,2-Dichlorobenzene	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
1,2-Dichloroethane	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
1,2-Dichloropropane	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
1,3-Dichlorobenzene	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
1,4-Dichlorobenzene	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
2-Butanone	U		10	µg/Kg	1	9/30/2013 11:51 AM
2-Hexanone	U		10	µg/Kg	1	9/30/2013 11:51 AM
4-Methyl-2-pentanone	U		10	µg/Kg	1	9/30/2013 11:51 AM
Acetone	U		20	µg/Kg	1	9/30/2013 11:51 AM
Benzene	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
Bromodichloromethane	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
Bromoform	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
Bromomethane	U		10	µg/Kg	1	9/30/2013 11:51 AM
Carbon disulfide	U		10	µg/Kg	1	9/30/2013 11:51 AM
Carbon tetrachloride	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
Chlorobenzene	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
Chloroethane	U		10	µg/Kg	1	9/30/2013 11:51 AM
Chloroform	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
Chloromethane	U		10	µg/Kg	1	9/30/2013 11:51 AM
cis-1,2-Dichloroethene	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
cis-1,3-Dichloropropene	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
Cyclohexane	U	n	5.0	µg/Kg	1	9/30/2013 11:51 AM
Dibromochloromethane	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
Dichlorodifluoromethane	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
Dichloromethane	U		10	µg/Kg	1	9/30/2013 11:51 AM
Ethylbenzene	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
Isopropylbenzene	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
m,p-Xylene	U		10	µg/Kg	1	9/30/2013 11:51 AM
Methyl acetate	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
Methyl tert-butyl ether	U		5.0	µg/Kg	1	9/30/2013 11:51 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091257

**Sample ID:** B-19 (20-22)

**Lab ID:** 13091257-05

**Collection Date:** 9/24/2013 01:15 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
o-Xylene	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
Styrene	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
Tetrachloroethene	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
Toluene	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
trans-1,2-Dichloroethene	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
trans-1,3-Dichloropropene	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
Trichloroethene	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
Trichlorofluoromethane	U		5.0	µg/Kg	1	9/30/2013 11:51 AM
Vinyl chloride	U		2.0	µg/Kg	1	9/30/2013 11:51 AM
Xylenes, Total	U		15	µg/Kg	1	9/30/2013 11:51 AM
Surr: 1,2-Dichloroethane-d4	93.8		70-128	%REC	1	9/30/2013 11:51 AM
Surr: 4-Bromofluorobenzene	101		73-126	%REC	1	9/30/2013 11:51 AM
Surr: Dibromofluoromethane	97.2		71-128	%REC	1	9/30/2013 11:51 AM
Surr: Toluene-d8	99.2		73-127	%REC	1	9/30/2013 11:51 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091257

**Sample ID:** B-20 (2-4)

**Lab ID:** 13091257-06

**Collection Date:** 9/24/2013 03:05 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
1,1,1-Trichloroethane	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
1,1,2,2-Tetrachloroethane	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
1,1,2-Trichloroethane	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
1,1-Dichloroethane	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
1,1-Dichloroethene	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
1,2,4-Trichlorobenzene	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
1,2-Dibromo-3-chloropropane	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
1,2-Dibromoethane	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
1,2-Dichlorobenzene	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
1,2-Dichloroethane	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
1,2-Dichloropropane	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
1,3-Dichlorobenzene	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
1,4-Dichlorobenzene	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
2-Butanone	U		10	µg/Kg	1	9/30/2013 12:15 PM
2-Hexanone	U		10	µg/Kg	1	9/30/2013 12:15 PM
4-Methyl-2-pentanone	U		10	µg/Kg	1	9/30/2013 12:15 PM
Acetone	U		20	µg/Kg	1	9/30/2013 12:15 PM
Benzene	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
Bromodichloromethane	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
Bromoform	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
Bromomethane	U		10	µg/Kg	1	9/30/2013 12:15 PM
Carbon disulfide	U		10	µg/Kg	1	9/30/2013 12:15 PM
Carbon tetrachloride	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
Chlorobenzene	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
Chloroethane	U		10	µg/Kg	1	9/30/2013 12:15 PM
Chloroform	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
Chloromethane	U		10	µg/Kg	1	9/30/2013 12:15 PM
cis-1,2-Dichloroethene	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
cis-1,3-Dichloropropene	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
Cyclohexane	U	n	5.0	µg/Kg	1	9/30/2013 12:15 PM
Dibromochloromethane	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
Dichlorodifluoromethane	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
Dichloromethane	U		10	µg/Kg	1	9/30/2013 12:15 PM
Ethylbenzene	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
Isopropylbenzene	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
m,p-Xylene	U		10	µg/Kg	1	9/30/2013 12:15 PM
Methyl acetate	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
Methyl tert-butyl ether	U		5.0	µg/Kg	1	9/30/2013 12:15 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091257

**Sample ID:** B-20 (2-4)

**Lab ID:** 13091257-06

**Collection Date:** 9/24/2013 03:05 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
o-Xylene	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
Styrene	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
Tetrachloroethene	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
Toluene	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
trans-1,2-Dichloroethene	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
trans-1,3-Dichloropropene	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
Trichloroethene	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
Trichlorofluoromethane	U		5.0	µg/Kg	1	9/30/2013 12:15 PM
Vinyl chloride	U		2.0	µg/Kg	1	9/30/2013 12:15 PM
Xylenes, Total	U		15	µg/Kg	1	9/30/2013 12:15 PM
Surr: 1,2-Dichloroethane-d4	92.6		70-128	%REC	1	9/30/2013 12:15 PM
Surr: 4-Bromofluorobenzene	97.8		73-126	%REC	1	9/30/2013 12:15 PM
Surr: Dibromofluoromethane	94.0		71-128	%REC	1	9/30/2013 12:15 PM
Surr: Toluene-d8	99.5		73-127	%REC	1	9/30/2013 12:15 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091257

**Sample ID:** B-21 (18-20)

**Lab ID:** 13091257-07

**Collection Date:** 9/24/2013 03:05 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>9/30/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	U		50	mg/Kg	1	10/1/2013 02:39 AM
>nC12 to nC28	U		50	mg/Kg	1	10/1/2013 02:39 AM
>nC28 to nC35	U		50	mg/Kg	1	10/1/2013 02:39 AM
Total Petroleum Hydrocarbon	U		50	mg/Kg	1	10/1/2013 02:39 AM
Surr: 2-Fluorobiphenyl	109		70-130	%REC	1	10/1/2013 02:39 AM
Surr: Trifluoromethyl benzene	99.1		70-130	%REC	1	10/1/2013 02:39 AM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
1,1,1-Trichloroethane	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
1,1,2,2-Tetrachloroethane	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
1,1,2-Trichloroethane	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
1,1-Dichloroethane	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
1,1-Dichloroethene	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
1,2,4-Trichlorobenzene	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
1,2-Dibromo-3-chloropropane	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
1,2-Dibromoethane	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
1,2-Dichlorobenzene	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
1,2-Dichloroethane	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
1,2-Dichloropropane	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
1,3-Dichlorobenzene	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
1,4-Dichlorobenzene	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
2-Butanone	U		10	µg/Kg	1	9/30/2013 12:38 PM
2-Hexanone	U		10	µg/Kg	1	9/30/2013 12:38 PM
4-Methyl-2-pentanone	U		10	µg/Kg	1	9/30/2013 12:38 PM
Acetone	U		20	µg/Kg	1	9/30/2013 12:38 PM
Benzene	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
Bromodichloromethane	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
Bromoform	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
Bromomethane	U		10	µg/Kg	1	9/30/2013 12:38 PM
Carbon disulfide	U		10	µg/Kg	1	9/30/2013 12:38 PM
Carbon tetrachloride	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
Chlorobenzene	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
Chloroethane	U		10	µg/Kg	1	9/30/2013 12:38 PM
Chloroform	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
Chloromethane	U		10	µg/Kg	1	9/30/2013 12:38 PM
cis-1,2-Dichloroethene	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
cis-1,3-Dichloropropene	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
Cyclohexane	U	n	5.0	µg/Kg	1	9/30/2013 12:38 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091257

**Sample ID:** B-21 (18-20)

**Lab ID:** 13091257-07

**Collection Date:** 9/24/2013 03:05 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
Dichlorodifluoromethane	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
Dichloromethane	U		10	µg/Kg	1	9/30/2013 12:38 PM
Ethylbenzene	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
Isopropylbenzene	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
m,p-Xylene	U		10	µg/Kg	1	9/30/2013 12:38 PM
Methyl acetate	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
Methyl tert-butyl ether	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
Methylcyclohexane	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
o-Xylene	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
Styrene	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
Tetrachloroethene	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
Toluene	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
trans-1,2-Dichloroethene	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
trans-1,3-Dichloropropene	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
Trichloroethene	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
Trichlorofluoromethane	U		5.0	µg/Kg	1	9/30/2013 12:38 PM
Vinyl chloride	U		2.0	µg/Kg	1	9/30/2013 12:38 PM
Xylenes, Total	U		15	µg/Kg	1	9/30/2013 12:38 PM
Surr: 1,2-Dichloroethane-d4	92.1		70-128	%REC	1	9/30/2013 12:38 PM
Surr: 4-Bromofluorobenzene	99.5		73-126	%REC	1	9/30/2013 12:38 PM
Surr: Dibromofluoromethane	91.2		71-128	%REC	1	9/30/2013 12:38 PM
Surr: Toluene-d8	99.4		73-127	%REC	1	9/30/2013 12:38 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091257

**Sample ID:** B-18

**Lab ID:** 13091257-08

**Collection Date:** 9/24/2013 03:20 PM

**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: PC
1,1,1-Trichloroethane	U		5.0	µg/L	1	9/30/2013 04:47 PM
1,1,2,2-Tetrachloroethane	U		5.0	µg/L	1	9/30/2013 04:47 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	U		5.0	µg/L	1	9/30/2013 04:47 PM
1,1,2-Trichloroethane	U		5.0	µg/L	1	9/30/2013 04:47 PM
1,1-Dichloroethane	U		5.0	µg/L	1	9/30/2013 04:47 PM
1,1-Dichloroethene	U		5.0	µg/L	1	9/30/2013 04:47 PM
1,2,4-Trichlorobenzene	U		5.0	µg/L	1	9/30/2013 04:47 PM
1,2-Dibromo-3-chloropropane	U		5.0	µg/L	1	9/30/2013 04:47 PM
1,2-Dibromoethane	U		5.0	µg/L	1	9/30/2013 04:47 PM
1,2-Dichlorobenzene	U		5.0	µg/L	1	9/30/2013 04:47 PM
1,2-Dichloroethane	U		5.0	µg/L	1	9/30/2013 04:47 PM
1,2-Dichloropropane	U		5.0	µg/L	1	9/30/2013 04:47 PM
1,3-Dichlorobenzene	U		5.0	µg/L	1	9/30/2013 04:47 PM
1,4-Dichlorobenzene	U		5.0	µg/L	1	9/30/2013 04:47 PM
2-Butanone	U		10	µg/L	1	9/30/2013 04:47 PM
2-Hexanone	U		10	µg/L	1	9/30/2013 04:47 PM
4-Methyl-2-pentanone	U		10	µg/L	1	9/30/2013 04:47 PM
<b>Acetone</b>	<b>6.7</b>	J	<b>10</b>	<b>µg/L</b>	1	9/30/2013 04:47 PM
<b>Benzene</b>	<b>7.2</b>		<b>5.0</b>	<b>µg/L</b>	1	9/30/2013 04:47 PM
Bromodichloromethane	U		5.0	µg/L	1	9/30/2013 04:47 PM
Bromoform	U		5.0	µg/L	1	9/30/2013 04:47 PM
Bromomethane	U		5.0	µg/L	1	9/30/2013 04:47 PM
Carbon disulfide	U		10	µg/L	1	9/30/2013 04:47 PM
Carbon tetrachloride	U		5.0	µg/L	1	9/30/2013 04:47 PM
Chlorobenzene	U		5.0	µg/L	1	9/30/2013 04:47 PM
Chloroethane	U		5.0	µg/L	1	9/30/2013 04:47 PM
Chloroform	U		5.0	µg/L	1	9/30/2013 04:47 PM
Chloromethane	U		5.0	µg/L	1	9/30/2013 04:47 PM
cis-1,2-Dichloroethene	U		5.0	µg/L	1	9/30/2013 04:47 PM
cis-1,3-Dichloropropene	U		5.0	µg/L	1	9/30/2013 04:47 PM
<b>Cyclohexane</b>	<b>15</b>	n	<b>5.0</b>	<b>µg/L</b>	1	9/30/2013 04:47 PM
Dibromochloromethane	U		5.0	µg/L	1	9/30/2013 04:47 PM
Dichlorodifluoromethane	U		5.0	µg/L	1	9/30/2013 04:47 PM
Dichloromethane	U		10	µg/L	1	9/30/2013 04:47 PM
Ethylbenzene	U		5.0	µg/L	1	9/30/2013 04:47 PM
<b>Isopropylbenzene</b>	<b>0.73</b>	J	<b>5.0</b>	<b>µg/L</b>	1	9/30/2013 04:47 PM
<b>m,p-Xylene</b>	<b>0.66</b>	J	<b>10</b>	<b>µg/L</b>	1	9/30/2013 04:47 PM
Methyl acetate	U		5.0	µg/L	1	9/30/2013 04:47 PM
<b>Methyl tert-butyl ether</b>	<b>72</b>		<b>5.0</b>	<b>µg/L</b>	1	9/30/2013 04:47 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 03-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES

**Work Order:** 13091257

**Sample ID:** B-18

**Lab ID:** 13091257-08

**Collection Date:** 9/24/2013 03:20 PM

**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Methylcyclohexane</b>	<b>14</b>		<b>5.0</b>	<b>µg/L</b>	<b>1</b>	9/30/2013 04:47 PM
o-Xylene	U		5.0	µg/L	1	9/30/2013 04:47 PM
Styrene	U		5.0	µg/L	1	9/30/2013 04:47 PM
Tetrachloroethene	U		5.0	µg/L	1	9/30/2013 04:47 PM
Toluene	U		5.0	µg/L	1	9/30/2013 04:47 PM
trans-1,2-Dichloroethene	U		5.0	µg/L	1	9/30/2013 04:47 PM
trans-1,3-Dichloropropene	U		5.0	µg/L	1	9/30/2013 04:47 PM
Trichloroethene	U		5.0	µg/L	1	9/30/2013 04:47 PM
Trichlorofluoromethane	U		5.0	µg/L	1	9/30/2013 04:47 PM
Vinyl chloride	U		2.0	µg/L	1	9/30/2013 04:47 PM
Xylenes, Total	U		15	µg/L	1	9/30/2013 04:47 PM
Surr: 1,2-Dichloroethane-d4	99.8		70-125	%REC	1	9/30/2013 04:47 PM
Surr: 4-Bromofluorobenzene	96.9		72-125	%REC	1	9/30/2013 04:47 PM
Surr: Dibromofluoromethane	101		71-125	%REC	1	9/30/2013 04:47 PM
Surr: Toluene-d8	99.6		75-125	%REC	1	9/30/2013 04:47 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

Work Order: 13091257  
 Client: Kleinfelder  
 Project: COH-Montrose-Midtown Phase II ES

**DATES REPORT**

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<b>Batch ID</b> <u>73475</u> <b>Test Name:</b> <u>Texas TPH - TX1005</u>						
13091257-01B	B-15 (16-18)	Soil	9/24/2013 8:50:00 AM		9/30/2013 05:19 PM	10/1/2013 01:02 AM
13091257-02B	B-16 (24-26)		9/24/2013 10:05:00 AM		9/30/2013 05:19 PM	10/1/2013 01:34 AM
13091257-03B	B-17 (18-20)		9/24/2013 10:55:00 AM		9/30/2013 05:19 PM	10/1/2013 02:06 AM
13091257-07B	B-21 (18-20)		9/24/2013 3:05:00 PM		9/30/2013 05:19 PM	10/1/2013 02:39 AM
<b>Batch ID</b> <u>R154410</u> <b>Test Name:</b> <u>Volatiles - SW8260C</u>						
13091257-01A	B-15 (16-18)	Soil	9/24/2013 8:50:00 AM			9/27/2013 04:07 PM
13091257-02A	B-16 (24-26)		9/24/2013 10:05:00 AM			9/27/2013 04:56 PM
13091257-03A	B-17 (18-20)		9/24/2013 10:55:00 AM			9/27/2013 04:32 PM
<b>Batch ID</b> <u>R154499</u> <b>Test Name:</b> <u>TCL Volatiles - SW8260C</u>						
13091257-04A	B-18 (8-10)	Soil	9/24/2013 11:45:00 AM			9/30/2013 11:27 AM
13091257-05A	B-19 (20-22)		9/24/2013 1:15:00 PM			9/30/2013 11:51 AM
13091257-06A	B-20 (2-4)		9/24/2013 3:05:00 PM			9/30/2013 12:15 PM
13091257-07A	B-21 (18-20)					9/30/2013 12:38 PM
<b>Batch ID</b> <u>R154577</u> <b>Test Name:</b> <u>TCL Volatiles - SW8260C</u>						
13091257-08A	B-18	Water	9/24/2013 3:20:00 PM			9/30/2013 04:47 PM

Client: Kleinfelder  
 Work Order: 13091257  
 Project: COH-Montrose-Midtown Phase II ES

**QC BATCH REPORT**

Batch ID: **73475** Instrument ID **FID-12** Method: **TX1005**

MBLK		Sample ID: <b>FBLKS1-130930-73475</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>9/30/2013 04:42 PM</b>			
Client ID:		Run ID: <b>FID-12_130930A</b>				SeqNo: <b>3376400</b>		Prep Date: <b>9/30/2013</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
nC6 to nC12	U	50									
>nC12 to nC28	U	50									
>nC28 to nC35	U	50									
Total Petroleum Hydrocarbon	U	50									
<i>Surr: 2-Fluorobiphenyl</i>	22.69	0	25	0	90.8	70-130	0				
<i>Surr: Trifluoromethyl benzene</i>	20.61	0	25	0	82.4	70-130	0				

LCS		Sample ID: <b>FLCSS1-130930-73475</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>9/30/2013 05:14 PM</b>			
Client ID:		Run ID: <b>FID-12_130930A</b>				SeqNo: <b>3376401</b>		Prep Date: <b>9/30/2013</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
nC6 to nC12	253.9	50	250	0	102	75-125					
>nC12 to nC28	239.4	50	250	0	95.8	75-125					
<i>Surr: 2-Fluorobiphenyl</i>	28.11	0	25	0	112	70-130	0				
<i>Surr: Trifluoromethyl benzene</i>	20.72	0	25	0	82.9	70-130	0				

LCSD		Sample ID: <b>FLCSDS1-130930-73475</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>9/30/2013 05:46 PM</b>			
Client ID:		Run ID: <b>FID-12_130930A</b>				SeqNo: <b>3376402</b>		Prep Date: <b>9/30/2013</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
nC6 to nC12	299	50	250	0	120	75-125	253.9	16.3	20		
>nC12 to nC28	299	50	250	0	120	75-125	239.4	22.1	20	R	
<i>Surr: 2-Fluorobiphenyl</i>	29.11	0	25	0	116	70-130	28.11	3.49	20		
<i>Surr: Trifluoromethyl benzene</i>	23.69	0	25	0	94.8	70-130	20.72	13.4	20		

MS		Sample ID: <b>13091136-01AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>9/30/2013 06:51 PM</b>			
Client ID:		Run ID: <b>FID-12_130930A</b>				SeqNo: <b>3376404</b>		Prep Date: <b>9/30/2013</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
nC6 to nC12	279.6	50	249	1.708	112	75-125					
>nC12 to nC28	4465	50	249	6942	-995	75-125				SEO	
<i>Surr: 2-Fluorobiphenyl</i>	44.6	0	24.9	0	179	70-130	0			S	
<i>Surr: Trifluoromethyl benzene</i>	23.89	0	24.9	0	96	70-130	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091257  
**Project:** COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **73475**      Instrument ID **FID-12**      Method: **TX1005**

MSD		Sample ID: <b>13091136-01AMSD</b>			Units: <b>mg/Kg</b>			Analysis Date: <b>9/30/2013 07:23 PM</b>		
Client ID:		Run ID: <b>FID-12_130930A</b>			SeqNo: <b>3376405</b>			Prep Date: <b>9/30/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	285.8	50	249.5	1.708	114	75-125	279.6	2.22	20	
>nC12 to nC28	4608	50	249.5	6942	-936	75-125	4465	3.16	20	SEO
<i>Surr: 2-Fluorobiphenyl</i>	64.04	0	24.95	0	257	70-130	44.6	35.8	20	SR
<i>Surr: Trifluoromethyl benzene</i>	23.87	0	24.95	0	95.7	70-130	23.89	0.0987	20	

The following samples were analyzed in this batch:

13091257-01B	13091257-02B	13091257-03B
13091257-07B		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091257  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R154410** Instrument ID **VOA5** Method: **SW8260**

MBLK		Sample ID: <b>VBLKS1-092713-R154410</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>9/27/2013 09:20 AM</b>		
Client ID:		Run ID: <b>VOA5_130927A</b>			SeqNo: <b>3371792</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
m,p-Xylene	U	10								
Methyl tert-butyl ether	U	5.0								
o-Xylene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	10								
<i>Surr: 1,2-Dichloroethane-d4</i>	44.46	0	50	0	88.9	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.57	0	50	0	99.1	73-126	0			
<i>Surr: Dibromofluoromethane</i>	48.05	0	50	0	96.1	71-128	0			
<i>Surr: Toluene-d8</i>	49.76	0	50	0	99.5	73-127	0			

LCS		Sample ID: <b>VLCSS1-092713-R154410</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>9/27/2013 08:34 AM</b>		
Client ID:		Run ID: <b>VOA5_130927A</b>			SeqNo: <b>3371791</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	54.12	5.0	50	0	108	79-120				
Ethylbenzene	54.41	5.0	50	0	109	80-122				
m,p-Xylene	111	10	100	0	111	79-122				
Methyl tert-butyl ether	54.53	5.0	50	0	109	76-121				
o-Xylene	54.18	5.0	50	0	108	80-123				
Toluene	54.17	5.0	50	0	108	79-120				
Xylenes, Total	165.2	10	150	0	110	80-120				
<i>Surr: 1,2-Dichloroethane-d4</i>	49.08	0	50	0	98.2	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.4	0	50	0	98.8	73-126	0			
<i>Surr: Dibromofluoromethane</i>	50.76	0	50	0	102	71-128	0			
<i>Surr: Toluene-d8</i>	49.06	0	50	0	98.1	73-127	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091257  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R154410** Instrument ID **VOA5** Method: **SW8260**

MS		Sample ID: <b>13091184-01AMS</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>9/27/2013 11:18 AM</b>		
Client ID:		Run ID: <b>VOA5_130927A</b>			SeqNo: <b>3372282</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.47	5.0	50	0	101	79-120				
Ethylbenzene	49.18	5.0	50	0	98.4	80-122				
m,p-Xylene	102.2	10	100	0	102	79-122				
Methyl tert-butyl ether	47.87	5.0	50	0	95.7	76-121				
o-Xylene	49.54	5.0	50	0	99.1	80-123				
Toluene	51.1	5.0	50	0	102	79-120				
Xylenes, Total	151.8	10	150	0	101	80-120				
<i>Surr: 1,2-Dichloroethane-d4</i>	48.75	0	50	0	97.5	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.36	0	50	0	98.7	73-126	0			
<i>Surr: Dibromofluoromethane</i>	50.35	0	50	0	101	71-128	0			
<i>Surr: Toluene-d8</i>	49.4	0	50	0	98.8	73-127	0			

MSD		Sample ID: <b>13091184-01AMSD</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>9/27/2013 11:42 AM</b>		
Client ID:		Run ID: <b>VOA5_130927A</b>			SeqNo: <b>3372283</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	57.69	5.0	50	0	115	79-120	50.47	13.4	30	
Ethylbenzene	57.28	5.0	50	0	115	80-122	49.18	15.2	30	
m,p-Xylene	115.6	10	100	0	116	79-122	102.2	12.2	30	
Methyl tert-butyl ether	54.66	5.0	50	0	109	76-121	47.87	13.2	30	
o-Xylene	57.71	5.0	50	0	115	80-123	49.54	15.2	30	
Toluene	57	5.0	50	0	114	79-120	51.1	10.9	30	
Xylenes, Total	173.3	10	150	0	116	79-123	151.8	13.2	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	48.14	0	50	0	96.3	70-128	48.75	1.26	30	
<i>Surr: 4-Bromofluorobenzene</i>	49.13	0	50	0	98.3	73-126	49.36	0.464	30	
<i>Surr: Dibromofluoromethane</i>	51.06	0	50	0	102	71-128	50.35	1.4	30	
<i>Surr: Toluene-d8</i>	48.5	0	50	0	97	73-127	49.4	1.83	30	

The following samples were analyzed in this batch:

13091257-01A	13091257-02A	13091257-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091257  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R154499** Instrument ID **VOA5** Method: **SW8260**

MBLK Sample ID: **VBLKS1-093013-R154499** Units: **µg/Kg** Analysis Date: **9/30/2013 11:03 AM**

Client ID: Run ID: **VOA5\_130930A** SeqNo: **3375495** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	10								
4-Methyl-2-pentanone	U	10								
Acetone	U	20								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	10								
Carbon disulfide	U	10								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	10								
Chloroform	U	5.0								
Chloromethane	U	10								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	5.0								
Dichloromethane	U	10								
Ethylbenzene	U	5.0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	10								
Methyl acetate	U	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091257  
**Project:** COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: <b>R154499</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>						
Methyl tert-butyl ether	U	5.0						
Methylcyclohexane	U	5.0						
o-Xylene	U	5.0						
Styrene	U	5.0						
Tetrachloroethene	U	5.0						
Toluene	U	5.0						
trans-1,2-Dichloroethene	U	5.0						
trans-1,3-Dichloropropene	U	5.0						
Trichloroethene	U	5.0						
Trichlorofluoromethane	U	5.0						
Vinyl chloride	U	2.0						
Xylenes, Total	U	10						
<i>Surr: 1,2-Dichloroethane-d4</i>	45.2	0	50	0	90.4	70-128	0	
<i>Surr: 4-Bromofluorobenzene</i>	48.43	0	50	0	96.9	73-126	0	
<i>Surr: Dibromofluoromethane</i>	48.04	0	50	0	96.1	71-128	0	
<i>Surr: Toluene-d8</i>	48.9	0	50	0	97.8	73-127	0	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091257  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: R154499 Instrument ID VOA5 Method: SW8260

LCS		Sample ID: VLCSS1-093013-R154499			Units: µg/Kg			Analysis Date: 9/30/2013 10:17 AM		
Client ID:		Run ID: VOA5_130930A			SeqNo: 3375494		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	54.19	5.0	50	0	108	79-124				
1,1,2,2-Tetrachloroethane	54.13	5.0	50	0	108	75-123				
1,1,2-Trichlor-1,2,2-trifluoroethane	52.86	5.0	50	0	106	79-125				
1,1,2-Trichloroethane	52.84	5.0	50	0	106	79-120				
1,1-Dichloroethane	54.98	5.0	50	0	110	75-124				
1,1-Dichloroethene	52.61	5.0	50	0	105	80-122				
1,2,4-Trichlorobenzene	56.64	5.0	50	0	113	74-128				
1,2-Dibromo-3-chloropropane	50.8	5.0	50	0	102	66-129				
1,2-Dibromoethane	56.36	5.0	50	0	113	70-120				
1,2-Dichlorobenzene	56.28	5.0	50	0	113	75-120				
1,2-Dichloroethane	53.85	5.0	50	0	108	73-121				
1,2-Dichloropropane	56.83	5.0	50	0	114	76-120				
1,3-Dichlorobenzene	56.96	5.0	50	0	114	70-125				
1,4-Dichlorobenzene	56.42	5.0	50	0	113	77-120				
2-Butanone	102	10	100	0	102	65-130				
2-Hexanone	104.4	10	100	0	104	65-133				
4-Methyl-2-pentanone	107.5	10	100	0	107	69-130				
Acetone	98.71	20	100	0	98.7	53-142				
Benzene	56.3	5.0	50	0	113	79-120				
Bromodichloromethane	55.97	5.0	50	0	112	79-121				
Bromoform	56.11	5.0	50	0	112	74-122				
Bromomethane	53.52	10	50	0	107	68-131				
Carbon disulfide	104.7	10	100	0	105	80-124				
Carbon tetrachloride	52.97	5.0	50	0	106	74-126				
Chlorobenzene	55.81	5.0	50	0	112	79-120				
Chloroethane	57.32	10	50	0	115	76-126				
Chloroform	56.38	5.0	50	0	113	78-120				
Chloromethane	52.8	10	50	0	106	69-129				
cis-1,2-Dichloroethene	55.11	5.0	50	0	110	80-120				
cis-1,3-Dichloropropene	56.85	5.0	50	0	114	77-123				
Cyclohexane	51.69	5.0	50	0	103	74-126				
Dibromochloromethane	54.04	5.0	50	0	108	78-122				
Dichlorodifluoromethane	47.41	5.0	50	0	94.8	57-140				
Dichloromethane	47.91	10	50	0	95.8	62-130				
Ethylbenzene	58.03	5.0	50	0	116	80-122				
Isopropylbenzene	54.74	5.0	50	0	109	72-127				
m,p-Xylene	117.9	10	100	0	118	79-122				
Methyl acetate	50.57	5.0	50	0	101	69-123				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091257  
**Project:** COH-Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R154499</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	57.06	5.0	50	0	114	76-121	
Methylcyclohexane	52.64	5.0	50	0	105	77-126	
o-Xylene	57.29	5.0	50	0	115	80-123	
Styrene	57.52	5.0	50	0	115	78-124	
Tetrachloroethene	52.41	5.0	50	0	105	73-129	
Toluene	56.75	5.0	50	0	114	79-120	
trans-1,2-Dichloroethene	57.51	5.0	50	0	115	79-122	
trans-1,3-Dichloropropene	52.16	5.0	50	0	104	77-120	
Trichloroethene	57.01	5.0	50	0	114	80-121	
Trichlorofluoromethane	54.63	5.0	50	0	109	75-126	
Vinyl chloride	50.52	2.0	50	0	101	76-126	
Xylenes, Total	175.2	10	150	0	117	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	48.84	0	50	0	97.7	70-128	0
<i>Surr: 4-Bromofluorobenzene</i>	49.68	0	50	0	99.4	73-126	0
<i>Surr: Dibromofluoromethane</i>	50.82	0	50	0	102	71-128	0
<i>Surr: Toluene-d8</i>	48.75	0	50	0	97.5	73-127	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091257  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: R154499 Instrument ID VOA5 Method: SW8260

MS		Sample ID: 13091257-05AMS			Units: µg/Kg		Analysis Date: 9/30/2013 01:02 PM			
Client ID: B-19 (20-22)		Run ID: VOA5_130930A			SeqNo: 3375497		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.94	5.0	50	0	104	79-124				
1,1,2,2-Tetrachloroethane	46.09	5.0	50	0	92.2	75-123				
1,1,2-Trichlor-1,2,2-trifluoroethane	51.75	5.0	50	0	103	79-125				
1,1,2-Trichloroethane	50.01	5.0	50	0	100	79-120				
1,1-Dichloroethane	53.63	5.0	50	0	107	75-124				
1,1-Dichloroethene	50.97	5.0	50	0	102	80-122				
1,2,4-Trichlorobenzene	52.25	5.0	50	0	104	74-128				
1,2-Dibromo-3-chloropropane	45.86	5.0	50	0	91.7	66-129				
1,2-Dibromoethane	49.46	5.0	50	0	98.9	70-120				
1,2-Dichlorobenzene	50.42	5.0	50	0	101	75-120				
1,2-Dichloroethane	51.05	5.0	50	0	102	73-121				
1,2-Dichloropropane	52.66	5.0	50	0	105	76-120				
1,3-Dichlorobenzene	52.18	5.0	50	0	104	70-125				
1,4-Dichlorobenzene	52.35	5.0	50	0	105	77-120				
2-Butanone	96.34	10	100	0	96.3	65-130				
2-Hexanone	92.21	10	100	0	92.2	65-133				
4-Methyl-2-pentanone	92.39	10	100	0	92.4	69-130				
Acetone	91.89	20	100	0	91.9	53-142				
Benzene	54.25	5.0	50	0	109	79-120				
Bromodichloromethane	50.93	5.0	50	0	102	79-121				
Bromoform	51.09	5.0	50	0	102	74-122				
Bromomethane	52.57	10	50	0	105	68-131				
Carbon disulfide	99.96	10	100	0	100	80-124				
Carbon tetrachloride	51.27	5.0	50	0	103	74-126				
Chlorobenzene	52.71	5.0	50	0	105	79-120				
Chloroethane	55.96	10	50	0	112	76-126				
Chloroform	53.43	5.0	50	0	107	78-120				
Chloromethane	50.4	10	50	0	101	69-129				
cis-1,2-Dichloroethene	52.56	5.0	50	0	105	80-120				
cis-1,3-Dichloropropene	51.83	5.0	50	0	104	77-123				
Cyclohexane	48.89	5.0	50	0	97.8	74-126				
Dibromochloromethane	51.65	5.0	50	0	103	78-122				
Dichlorodifluoromethane	43.13	5.0	50	0	86.3	57-140				
Dichloromethane	46.7	10	50	0	93.4	62-130				
Ethylbenzene	53.9	5.0	50	0	108	80-122				
Isopropylbenzene	51.93	5.0	50	0	104	72-127				
m,p-Xylene	111.3	10	100	0	111	79-122				
Methyl acetate	43.82	5.0	50	0	87.6	69-123				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091257  
**Project:** COH-Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R154499</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	50.2	5.0	50	0	100	76-121	
Methylcyclohexane	51.78	5.0	50	0	104	77-126	
o-Xylene	54.85	5.0	50	0	110	80-123	
Styrene	54.49	5.0	50	0	109	78-124	
Tetrachloroethene	57.84	5.0	50	0	116	73-129	
Toluene	54.76	5.0	50	0	110	79-120	
trans-1,2-Dichloroethene	54.26	5.0	50	0	109	79-122	
trans-1,3-Dichloropropene	48.83	5.0	50	0	97.7	77-120	
Trichloroethene	58.14	5.0	50	0	116	80-121	
Trichlorofluoromethane	52.24	5.0	50	0	104	75-126	
Vinyl chloride	49.92	2.0	50	0	99.8	76-126	
Xylenes, Total	166.1	10	150	0	111	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	48.99	0	50	0	98	70-128	0
<i>Surr: 4-Bromofluorobenzene</i>	51.53	0	50	0	103	73-126	0
<i>Surr: Dibromofluoromethane</i>	48.88	0	50	0	97.8	71-128	0
<i>Surr: Toluene-d8</i>	48.93	0	50	0	97.9	73-127	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091257  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: R154499 Instrument ID VOA5 Method: SW8260

MSD	Sample ID: 13091257-05AMSD	Units: µg/Kg					Analysis Date: 9/30/2013 01:26 PM				
Client ID: B-19 (20-22)	Run ID: VOA5_130930A	SeqNo: 3375498	Prep Date:	DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	52.94	5.0	50	0	106	79-124	51.94	1.91	30		
1,1,2,2-Tetrachloroethane	50.54	5.0	50	0	101	75-123	46.09	9.21	30		
1,1,2-Trichlor-1,2,2-trifluoroethane	51.96	5.0	50	0	104	79-125	51.75	0.407	30		
1,1,2-Trichloroethane	52.08	5.0	50	0	104	79-120	50.01	4.05	30		
1,1-Dichloroethane	53.3	5.0	50	0	107	75-124	53.63	0.606	30		
1,1-Dichloroethene	50.47	5.0	50	0	101	80-122	50.97	0.976	30		
1,2,4-Trichlorobenzene	52.74	5.0	50	0	105	74-128	52.25	0.941	30		
1,2-Dibromo-3-chloropropane	51.99	5.0	50	0	104	66-129	45.86	12.5	30		
1,2-Dibromoethane	54.07	5.0	50	0	108	70-120	49.46	8.9	30		
1,2-Dichlorobenzene	52.81	5.0	50	0	106	75-120	50.42	4.63	30		
1,2-Dichloroethane	52.57	5.0	50	0	105	73-121	51.05	2.92	30		
1,2-Dichloropropane	56.23	5.0	50	0	112	76-120	52.66	6.57	30		
1,3-Dichlorobenzene	55.42	5.0	50	0	111	70-125	52.18	6.02	30		
1,4-Dichlorobenzene	53.87	5.0	50	0	108	77-120	52.35	2.87	30		
2-Butanone	108.7	10	100	0	109	65-130	96.34	12.1	30		
2-Hexanone	110.5	10	100	0	110	65-133	92.21	18	30		
4-Methyl-2-pentanone	109.6	10	100	0	110	69-130	92.39	17.1	30		
Acetone	116.7	20	100	0	117	53-142	91.89	23.8	30		
Benzene	57.24	5.0	50	0	114	79-120	54.25	5.36	30		
Bromodichloromethane	55.13	5.0	50	0	110	79-121	50.93	7.92	30		
Bromoform	55.21	5.0	50	0	110	74-122	51.09	7.76	30		
Bromomethane	51.61	10	50	0	103	68-131	52.57	1.85	30		
Carbon disulfide	104.1	10	100	0	104	80-124	99.96	4.05	30		
Carbon tetrachloride	53.43	5.0	50	0	107	74-126	51.27	4.13	30		
Chlorobenzene	54.83	5.0	50	0	110	79-120	52.71	3.95	30		
Chloroethane	56.73	10	50	0	113	76-126	55.96	1.36	30		
Chloroform	55.96	5.0	50	0	112	78-120	53.43	4.62	30		
Chloromethane	51.82	10	50	0	104	69-129	50.4	2.77	30		
cis-1,2-Dichloroethene	55.31	5.0	50	0	111	80-120	52.56	5.1	30		
cis-1,3-Dichloropropene	56.22	5.0	50	0	112	77-123	51.83	8.14	30		
Cyclohexane	51.49	5.0	50	0	103	74-126	48.89	5.19	30		
Dibromochloromethane	53.56	5.0	50	0	107	78-122	51.65	3.63	30		
Dichlorodifluoromethane	44.27	5.0	50	0	88.5	57-140	43.13	2.6	30		
Dichloromethane	48	10	50	0	96	62-130	46.7	2.74	30		
Ethylbenzene	56.61	5.0	50	0	113	80-122	53.9	4.91	30		
Isopropylbenzene	53.19	5.0	50	0	106	72-127	51.93	2.39	30		
m,p-Xylene	113	10	100	0	113	79-122	111.3	1.52	30		
Methyl acetate	48.27	5.0	50	0	96.5	69-123	43.82	9.67	30		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091257  
**Project:** COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: <b>R154499</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>								
Methyl tert-butyl ether	54.57	5.0	50	0	109	76-121	50.2	8.35	30	
Methylcyclohexane	52.78	5.0	50	0	106	77-126	51.78	1.91	30	
o-Xylene	55.4	5.0	50	0	111	80-123	54.85	0.984	30	
Styrene	55.57	5.0	50	0	111	78-124	54.49	1.97	30	
Tetrachloroethene	63.82	5.0	50	0	128	73-129	57.84	9.84	30	
Toluene	55.51	5.0	50	0	111	79-120	54.76	1.36	30	
trans-1,2-Dichloroethene	55.44	5.0	50	0	111	79-122	54.26	2.16	30	
trans-1,3-Dichloropropene	51.12	5.0	50	0	102	77-120	48.83	4.58	30	
Trichloroethene	61.42	5.0	50	0	123	80-121	58.14	5.49	30	S
Trichlorofluoromethane	52.67	5.0	50	0	105	75-126	52.24	0.819	30	
Vinyl chloride	49.35	2.0	50	0	98.7	76-126	49.92	1.15	30	
Xylenes, Total	168.4	10	150	0	112	79-123	166.1	1.35	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	49.71	0	50	0	99.4	70-128	48.99	1.46	30	
<i>Surr: 4-Bromofluorobenzene</i>	51.28	0	50	0	103	73-126	51.53	0.489	30	
<i>Surr: Dibromofluoromethane</i>	49.59	0	50	0	99.2	71-128	48.88	1.46	30	
<i>Surr: Toluene-d8</i>	49.2	0	50	0	98.4	73-127	48.93	0.531	30	

The following samples were analyzed in this batch:

13091257-04A	13091257-05A	13091257-06A
13091257-07A		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091257  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R154577** Instrument ID **VOA1** Method: **SW8260**

MBLK Sample ID: **VBLKW-130930-R154577** Units: **µg/L** Analysis Date: **9/30/2013 11:43 AM**

Client ID: Run ID: **VOA1\_130930A** SeqNo: **3376091** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	10								
4-Methyl-2-pentanone	U	10								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	5.0								
Carbon disulfide	U	10								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	U	5.0								
Chloromethane	U	5.0								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	5.0								
Dichloromethane	U	10								
Ethylbenzene	U	5.0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	10								
Methyl acetate	U	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091257  
**Project:** COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: <b>R154577</b>	Instrument ID <b>VOA1</b>	Method: <b>SW8260</b>						
Methyl tert-butyl ether	U	5.0						
Methylcyclohexane	U	5.0						
o-Xylene	U	5.0						
Styrene	U	5.0						
Tetrachloroethene	U	5.0						
Toluene	U	5.0						
trans-1,2-Dichloroethene	U	5.0						
trans-1,3-Dichloropropene	U	5.0						
Trichloroethene	U	5.0						
Trichlorofluoromethane	U	5.0						
Vinyl chloride	U	2.0						
Xylenes, Total	U	15						
<i>Surr: 1,2-Dichloroethane-d4</i>	49.6	5.0	50	0	99.2	70-125	0	
<i>Surr: 4-Bromofluorobenzene</i>	50.61	5.0	50	0	101	72-125	0	
<i>Surr: Dibromofluoromethane</i>	51.2	5.0	50	0	102	71-125	0	
<i>Surr: Toluene-d8</i>	50.28	5.0	50	0	101	75-125	0	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091257  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R154577** Instrument ID **VOA1** Method: **SW8260**

LCS		Sample ID: <b>VLCSW-130930-R154577</b>			Units: <b>µg/L</b>		Analysis Date: <b>9/30/2013 10:52 AM</b>			
Client ID:		Run ID: <b>VOA1_130930A</b>			SeqNo: <b>3376090</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.24	5.0	50	0	98.5	80-120				
1,1,2,2-Tetrachloroethane	50.77	5.0	50	0	102	72-120				
1,1,2-Trichlor-1,2,2-trifluoroethane	50.77	5.0	50	0	102	73-123				
1,1,2-Trichloroethane	49.42	5.0	50	0	98.8	80-120				
1,1-Dichloroethane	51.04	5.0	50	0	102	76-120				
1,1-Dichloroethene	52.53	5.0	50	0	105	73-124				
1,2,4-Trichlorobenzene	50.69	5.0	50	0	101	75-130				
1,2-Dibromo-3-chloropropane	51.78	5.0	50	0	104	65-125				
1,2-Dibromoethane	50.96	5.0	50	0	102	80-120				
1,2-Dichlorobenzene	50.98	5.0	50	0	102	80-120				
1,2-Dichloroethane	52.28	5.0	50	0	105	78-120				
1,2-Dichloropropane	50.75	5.0	50	0	101	80-120				
1,3-Dichlorobenzene	49.81	5.0	50	0	99.6	80-120				
1,4-Dichlorobenzene	48.34	5.0	50	0	96.7	80-120				
2-Butanone	106.5	10	100	0	106	58-132				
2-Hexanone	99.48	10	100	0	99.5	61-130				
4-Methyl-2-pentanone	101.7	10	100	0	102	65-127				
Acetone	105.5	10	100	0	106	59-137				
Benzene	50.9	5.0	50	0	102	73-121				
Bromodichloromethane	50.49	5.0	50	0	101	75-125				
Bromoform	50.1	5.0	50	0	100	70-130				
Bromomethane	44.82	5.0	50	0	89.6	60-145				
Carbon disulfide	96.33	10	100	0	96.3	68-141				
Carbon tetrachloride	49.53	5.0	50	0	99.1	75-125				
Chlorobenzene	48.41	5.0	50	0	96.8	80-120				
Chloroethane	45.39	5.0	50	0	90.8	70-130				
Chloroform	52.01	5.0	50	0	104	70-130				
Chloromethane	47.17	5.0	50	0	94.3	67-123				
cis-1,2-Dichloroethene	50.73	5.0	50	0	101	78-120				
cis-1,3-Dichloropropene	51.36	5.0	50	0	103	80-120				
Cyclohexane	47.74	5.0	50	0	95.5	66-125				
Dibromochloromethane	49.78	5.0	50	0	99.6	80-120				
Dichlorodifluoromethane	50.36	5.0	50	0	101	63-125				
Dichloromethane	49.7	10	50	0	99.4	65-133				
Ethylbenzene	46.6	5.0	50	0	93.2	80-120				
Isopropylbenzene	43.81	5.0	50	0	87.6	75-130				
m,p-Xylene	101.6	10	100	0	102	78-121				
Methyl acetate	54.02	5.0	50	0	108	60-130				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091257  
**Project:** COH-Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R154577</b>	Instrument ID <b>VOA1</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	51.51	5.0	50	0	103	73-121	
Methylcyclohexane	47.66	5.0	50	0	95.3	70-122	
o-Xylene	49	5.0	50	0	98	80-120	
Styrene	49.35	5.0	50	0	98.7	80-120	
Tetrachloroethene	48.3	5.0	50	0	96.6	79-120	
Toluene	49.25	5.0	50	0	98.5	80-120	
trans-1,2-Dichloroethene	49.65	5.0	50	0	99.3	78-120	
trans-1,3-Dichloropropene	51.89	5.0	50	0	104	80-120	
Trichloroethene	51.07	5.0	50	0	102	80-120	
Trichlorofluoromethane	52.22	5.0	50	0	104	72-130	
Vinyl chloride	48.35	2.0	50	0	96.7	70-127	
Xylenes, Total	150.6	15	150	0	100	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	49.94	5.0	50	0	99.9	70-125	0
<i>Surr: 4-Bromofluorobenzene</i>	48.86	5.0	50	0	97.7	72-125	0
<i>Surr: Dibromofluoromethane</i>	49.48	5.0	50	0	99	71-125	0
<i>Surr: Toluene-d8</i>	48.73	5.0	50	0	97.5	75-125	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091257  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R154577** Instrument ID **VOA1** Method: **SW8260**

MS		Sample ID: <b>13091322-01AMS</b>			Units: <b>µg/L</b>			Analysis Date: <b>9/30/2013 03:31 PM</b>		
Client ID:		Run ID: <b>VOA1_130930A</b>			SeqNo: <b>3376100</b>		Prep Date:		DF: <b>25</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1228	120	1250	0	98.2	80-120				
1,1,2,2-Tetrachloroethane	1270	120	1250	0	102	72-120				
1,1,2-Trichlor-1,2,2-trifluoroethane	1193	120	1250	0	95.5	73-123				
1,1,2-Trichloroethane	1271	120	1250	0	102	80-120				
1,1-Dichloroethane	1239	120	1250	0	99.1	76-120				
1,1-Dichloroethene	1185	120	1250	0	94.8	73-124				
1,2,4-Trichlorobenzene	1179	120	1250	0	94.3	75-130				
1,2-Dibromo-3-chloropropane	1272	120	1250	0	102	65-125				
1,2-Dibromoethane	1300	120	1250	0	104	80-120				
1,2-Dichlorobenzene	1213	120	1250	0	97	80-120				
1,2-Dichloroethane	1314	120	1250	0	105	78-120				
1,2-Dichloropropane	1322	120	1250	0	106	80-120				
1,3-Dichlorobenzene	1182	120	1250	0	94.5	80-120				
1,4-Dichlorobenzene	1190	120	1250	0	95.2	80-120				
2-Butanone	2818	250	2500	0	113	58-132				
2-Hexanone	2672	250	2500	0	107	61-130				
4-Methyl-2-pentanone	2714	250	2500	0	109	65-127				
Acetone	2461	250	2500	0	98.4	59-137				
Benzene	1310	120	1250	0	105	73-121				
Bromodichloromethane	1314	120	1250	0	105	75-125				
Bromoform	1276	120	1250	0	102	70-130				
Bromomethane	1146	120	1250	0	91.7	60-145				
Carbon disulfide	2489	250	2500	0	99.6	68-141				
Carbon tetrachloride	1236	120	1250	0	98.9	75-125				
Chlorobenzene	1255	120	1250	17.66	99	80-120				
Chloroethane	1199	120	1250	0	96	70-130				
Chloroform	2241	120	1250	994.1	99.7	70-130				
Chloromethane	1123	120	1250	0	89.9	67-123				
cis-1,2-Dichloroethene	1289	120	1250	0	103	78-120				
cis-1,3-Dichloropropene	1324	120	1250	0	106	80-120				
Cyclohexane	1250	120	1250	0	100	66-125				
Dibromochloromethane	1278	120	1250	0	102	80-120				
Dichlorodifluoromethane	977.7	120	1250	0	78.2	63-125				
Dichloromethane	1295	250	1250	0	104	65-133				
Ethylbenzene	1209	120	1250	0	96.7	80-120				
Isopropylbenzene	1187	120	1250	0	95	75-130				
m,p-Xylene	2525	250	2500	0	101	78-121				
Methyl acetate	1302	120	1250	0	104	60-130				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091257  
**Project:** COH-Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R154577</b>	Instrument ID <b>VOA1</b>		Method: <b>SW8260</b>				
Methyl tert-butyl ether	1143	120	1250	0	91.5	73-121	
Methylcyclohexane	1129	120	1250	0	90.4	70-122	
o-Xylene	1216	120	1250	0	97.3	80-120	
Styrene	1233	120	1250	0	98.6	80-120	
Tetrachloroethene	1140	120	1250	0	91.2	79-120	
Toluene	1162	120	1250	0	92.9	80-120	
trans-1,2-Dichloroethene	1227	120	1250	0	98.1	78-120	
trans-1,3-Dichloropropene	1327	120	1250	0	106	80-120	
Trichloroethene	1310	120	1250	0	105	80-120	
Trichlorofluoromethane	1158	120	1250	0	92.6	72-130	
Vinyl chloride	1219	50	1250	0	97.5	70-127	
Xylenes, Total	3741	380	3750	0	99.8	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	1241	120	1250	0	99.3	70-125	0
<i>Surr: 4-Bromofluorobenzene</i>	1240	120	1250	0	99.2	72-125	0
<i>Surr: Dibromofluoromethane</i>	1294	120	1250	0	104	71-125	0
<i>Surr: Toluene-d8</i>	1190	120	1250	0	95.2	75-125	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091257  
 Project: COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: R154577 Instrument ID VOA1 Method: SW8260

MSD		Sample ID: 13091322-01AMSD			Units: µg/L			Analysis Date: 9/30/2013 03:56 PM		
Client ID:		Run ID: VOA1_130930A			SeqNo: 3376101		Prep Date:		DF: 25	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1177	120	1250	0	94.2	80-120	1228	4.23	20	
1,1,2,2-Tetrachloroethane	1259	120	1250	0	101	72-120	1270	0.844	20	
1,1,2-Trichlor-1,2,2-trifluoroethane	1186	120	1250	0	94.9	73-123	1193	0.637	20	
1,1,2-Trichloroethane	1314	120	1250	0	105	80-120	1271	3.29	20	
1,1-Dichloroethane	1260	120	1250	0	101	76-120	1239	1.64	20	
1,1-Dichloroethene	1212	120	1250	0	97	73-124	1185	2.25	20	
1,2,4-Trichlorobenzene	1173	120	1250	0	93.8	75-130	1179	0.49	20	
1,2-Dibromo-3-chloropropane	1382	120	1250	0	111	65-125	1272	8.29	20	
1,2-Dibromoethane	1304	120	1250	0	104	80-120	1300	0.354	20	
1,2-Dichlorobenzene	1183	120	1250	0	94.6	80-120	1213	2.47	20	
1,2-Dichloroethane	1212	120	1250	0	97	78-120	1314	8.06	20	
1,2-Dichloropropane	1201	120	1250	0	96.1	80-120	1322	9.55	20	
1,3-Dichlorobenzene	1170	120	1250	0	93.6	80-120	1182	1.01	20	
1,4-Dichlorobenzene	1151	120	1250	0	92.1	80-120	1190	3.33	20	
2-Butanone	2716	250	2500	0	109	58-132	2818	3.68	20	
2-Hexanone	2647	250	2500	0	106	61-130	2672	0.925	20	
4-Methyl-2-pentanone	2795	250	2500	0	112	65-127	2714	2.96	20	
Acetone	2594	250	2500	0	104	59-137	2461	5.27	20	
Benzene	1200	120	1250	0	96	73-121	1310	8.74	20	
Bromodichloromethane	1260	120	1250	0	101	75-125	1314	4.14	20	
Bromoform	1280	120	1250	0	102	70-130	1276	0.358	20	
Bromomethane	1128	120	1250	0	90.2	60-145	1146	1.61	20	
Carbon disulfide	2387	250	2500	0	95.5	68-141	2489	4.2	20	
Carbon tetrachloride	1153	120	1250	0	92.2	75-125	1236	6.92	20	
Chlorobenzene	1247	120	1250	17.66	98.3	80-120	1255	0.673	20	
Chloroethane	1149	120	1250	0	91.9	76-121	1199	4.31	20	
Chloroform	2149	120	1250	994.1	92.4	70-130	2241	4.18	20	
Chloromethane	1090	120	1250	0	87.2	67-123	1123	3	20	
cis-1,2-Dichloroethene	1215	120	1250	0	97.2	78-120	1289	5.87	20	
cis-1,3-Dichloropropene	1219	120	1250	0	97.5	80-120	1324	8.27	20	
Cyclohexane	1131	120	1250	0	90.5	66-125	1250	9.99	20	
Dibromochloromethane	1247	120	1250	0	99.7	80-120	1278	2.49	20	
Dichlorodifluoromethane	984.3	120	1250	0	78.7	63-125	977.7	0.671	20	
Dichloromethane	1241	250	1250	0	99.3	65-133	1295	4.29	20	
Ethylbenzene	1209	120	1250	0	96.7	80-120	1209	0.0247	20	
Isopropylbenzene	1185	120	1250	0	94.8	75-130	1187	0.165	20	
m,p-Xylene	2392	250	2500	0	95.7	78-121	2525	5.41	20	
Methyl acetate	1359	120	1250	0	109	60-130	1302	4.27	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091257  
**Project:** COH-Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: <b>R154577</b>	Instrument ID <b>VOA1</b>		Method: <b>SW8260</b>							
Methyl tert-butyl ether	1188	120	1250	0	95.1	73-121	1143	3.88	20	
Methylcyclohexane	1087	120	1250	0	87	70-122	1129	3.8	20	
o-Xylene	1221	120	1250	0	97.7	80-120	1216	0.404	20	
Styrene	1244	120	1250	0	99.6	80-120	1233	0.93	20	
Tetrachloroethene	1177	120	1250	0	94.2	79-120	1140	3.21	20	
Toluene	1198	120	1250	0	95.9	80-120	1162	3.1	20	
trans-1,2-Dichloroethene	1187	120	1250	0	95	78-120	1227	3.26	20	
trans-1,3-Dichloropropene	1264	120	1250	0	101	80-120	1327	4.91	20	
Trichloroethene	1223	120	1250	0	97.9	80-120	1310	6.86	20	
Trichlorofluoromethane	1150	120	1250	0	92	72-130	1158	0.704	20	
Vinyl chloride	1187	50	1250	0	95	70-127	1219	2.65	20	
Xylenes, Total	3613	380	3750	0	96.3	78-121	3741	3.49	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	1265	120	1250	0	101	70-125	1241	1.91	20	
<i>Surr: 4-Bromofluorobenzene</i>	1176	120	1250	0	94.1	72-125	1240	5.25	20	
<i>Surr: Dibromofluoromethane</i>	1239	120	1250	0	99.1	71-125	1294	4.33	20	
<i>Surr: Toluene-d8</i>	1230	120	1250	0	98.4	75-125	1190	3.33	20	

The following samples were analyzed in this batch:

13091257-08A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES  
**WorkOrder:** 13091257

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
µg/Kg	Micrograms per Kilogram
µg/L	Micrograms per Liter
mg/Kg	Milligrams per Kilogram

Sample Receipt Checklist

Client Name: **CORRIGAN-HOU**

Date/Time Received: **25-Sep-13 15:55**

Work Order: **13091257**

Received by: **AMN**

Checklist completed by Robert D. Harris  
eSignature

27-Sep-13  
Date

Reviewed by: \_\_\_\_\_  
eSignature

\_\_\_\_\_  
Date

Matrices: soils/waters

Carrier name: ALS.HS

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Container/Temp Blank temperature in compliance? Yes  No

Temperature(s)/Thermometer(s): 1.4c/1.4c c/u IR1

Cooler(s)/Kit(s): 5504

Date/Time sample(s) sent to storage: 9/27/13 15:30

Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt? Yes  No  N/A

pH adjusted? Yes  No  N/A

pH adjusted by: \_\_\_\_\_

Login Notes:

-----

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

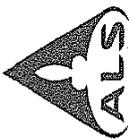
Regarding:

Comments:

\_\_\_\_\_

CorrectiveAction:

\_\_\_\_\_



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+1 425 356 2600

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Holland, MI  
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# Chain of Custody Form

Page 1 of 1

COC ID: 87864

13091257

CORRIGAN-HOU: Kleinfelder

Project: COH-Montrose-Midtown Phase II ES

## ALS Environmental

ALS Project Manager:

Customer Information				Project Information													
Purchase Order	Project Name	ALS Project Manager:		A	B	C	D										
Work Order	Project Number	CCH-Montrose-Midtown Phase II ES		X	X												
Company Name	Bill To Company	Kleinfelder		X	X												
Send Report To	Invoice Attn	Jordan Smith		X	X												
Address	Address	12000 Aerospace Ave.															
City/State/Zip	City/State/Zip	Houston, TX 77034															
Phone	Phone	(281) 922-4766															
Fax	Fax	(281) 922-4767															
e-Mail Address	e-Mail Address																
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B-15 (16-16)	9/24/13	8:50	Soil	8	2	X	X									
2	B-16 (24-26)		10:05	Soil	8	2	X	X									
3	B-17 (18-20)		10:55	Soil	8	2	X	X									
4	B-18 (8-10)		11:45	Soil	8	1					X						
5	B-19 (20-22)		1315	Soil	8	1					X						
6	B-20 (2-4)		1355	Soil	8	1					X						
7	B-21 (18-20)		1505	Soil	8	2		X			X						
8	B-18		1520	Water	1,8	3					X						
9	Trip Blank			Water	1,8	2					X						X
10																	

Sampler(s) Please Print & Sign: Warren Brown  
 Relinquished by: [Signature]  
 Date: 9/25/13 Time: 3:54  
 Required Turnaround Time: (Check Box)  Std 10 WJK Days  5 WJK Days  2 MK Days  24 Hour  
 Results Due Date:  
 Received by: [Signature]  
 Date: 9/26/13 Time: 11:45  
 Received by (Laboratory): [Signature]  
 Checked by (Laboratory): [Signature]  
 Cooler ID: [ ] Cooler Temp: [ ]  
 QC Package: (Check One Box Below)  Level II Std QC  TRRP Checklist  
 Level III Std QC/Raw Data  TRRP Level IV  
 Level IV SW/46/CLP  Other / EDD  
 Preservative Key: 1-HCl 2-HNO<sub>3</sub> 3-H<sub>2</sub>SO<sub>4</sub> 4-NaOH 5-Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-NaHSO<sub>4</sub> 7-Other 8-4°C 9-8035  
 Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.  
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.  
 3. The Chain of Custody is a legal document. All information must be recorded accurately.

## Review of Laboratory Analysis Report

Client: City of Houston Date: October 9, 2013

Project: Montrose-Midtown Phase II ESA Reviewed by: K. Scheller

Project No.: 136524, Task 001 Project Manager: R. Voran

Laboratory Report No.: 13091257 (ALS Environmental, Houston, Texas). Samples collected 9-27-2013.

1. The following are attached to report:

- |   |                                     |     |                                     |  |
|---|-------------------------------------|-----|-------------------------------------|--|
| Completed Chain-of-Custody  | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no   |
| Analytical results for all requested analyses   | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no   |
| QA/QC reports for each analytical method  | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no   |
| 2. Did received temperature meet method criteria?   | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no   |
| 3. Were extractions and analyses performed using appropriate method and prior to elapse of holding times?   | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no   |
| 4. Do detection limits meet regulatory or project requirements?   | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no   |
| 5. Are data for percent recovery and relative percent difference (RPD) for matrix spikes (MS) and matrix spike duplicates (MSD) within acceptable ranges? | <input checked="" type="checkbox"/> | yes | <input checked="" type="checkbox"/> | no <input type="checkbox"/> N/A            |
| 6. Are data for percent recovery and RPD for blank spike and blank spike duplicates (BS/BSD or LCS/LSCD) within acceptable ranges?                        | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no   |
| 7. Were the surrogates recovered within acceptable ranges?  | <input checked="" type="checkbox"/> | yes | <input type="checkbox"/>            | no <input type="checkbox"/> N/A            |
| 8. Were any compounds/metals reported in the method blanks?   | <input type="checkbox"/>            | yes | <input checked="" type="checkbox"/> | no   |
| 9. Are analytical data for field blanks, trip blanks, and duplicates acceptable?  | <input type="checkbox"/>            | yes | <input type="checkbox"/>            | no <input checked="" type="checkbox"/> N/A |

9. Notes:

5). Project sample B-19 (20-22) was used as a MS/MSD sample for the analysis of VOCs in one of the VOCs laboratory analytical batches. Trichloroethene (TCE) was recovered slightly high in the MSD but since TCE was not detected in any of the associated samples, no TCE results were qualified. Groundwater sample B-34 was used as the MS/MSD sample for the analysis of TPH, and percent recoveries and RPDs met objectives. Soil sample B-37 (14-16) was used as the MS/MSD sample for the analysis of BTEX and MTBE, and percent recoveries and RPDs met objectives.

9). The trip blank sample was placed on hold and was not analyzed.

It should be noted that some of the concentrations were reported between the sample detection limite (SDL) and the method quantitation limit (MQL) and qualified by the laboratory as estimated values ("J" qualified). As a result of the data quality review, these "J" qualified data remain qualified as such, unless they were qualified by the reviewer as listed above.



07-Oct-2013

Jordan Smith  
Kleinfelder  
12000 Aerospace Ave.  
Suite 450  
Houston, TX 77034

Tel: (281) 922-4766  
Fax: (281) 922-4767

Re: COH - Montrose-Midtown Phase II ES

Work Order: **13091286**

Dear Jordan,

ALS Environmental received 6 samples on 27-Sep-2013 10:45 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 27.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in cursive script that reads "Sonia West".

Electronically approved by: Jumoke M. Lawal

Sonia West  
Project Manager



Certificate No: TX: T104704231-13-12

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

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RIGHT SOLUTIONS RIGHT PARTNER

**Client:** Kleinfelder  
**Project:** COH - Montrose-Midtown Phase II ES  
**Work Order:** 13091286

**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
13091286-01	B-28 (16-18)	Soil		9/26/2013 09:15	9/27/2013 10:45	<input type="checkbox"/>
13091286-02	B-30 (20-22)	Soil		9/26/2013 10:55	9/27/2013 10:45	<input type="checkbox"/>
13091286-03	B-31 (18-20)	Soil		9/26/2013 12:25	9/27/2013 10:45	<input type="checkbox"/>
13091286-04	B-32 (14-16)	Soil		9/26/2013 13:55	9/27/2013 10:45	<input type="checkbox"/>
13091286-05	B-33 (20-22)	Soil		9/26/2013 16:20	9/27/2013 10:45	<input type="checkbox"/>
13091286-06	Trip blank	Water		9/26/2013	9/27/2013 10:45	<input type="checkbox"/>

---

**Client:** Kleinfelder  
**Project:** COH - Montrose-Midtown Phase II ES  
**Work Order:** 13091286

**Case Narrative**

---

Batch R154499, Volatile Organics by Method 8260, Sample: 13091257-05: MS/MSD performed on an unrelated sample.

# ALS Environmental

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH - Montrose-Midtown Phase II ES

**Work Order:** 13091286

**Sample ID:** B-28 (16-18)

**Lab ID:** 13091286-01

**Collection Date:** 9/26/2013 09:15 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: 10/1/2013	Analyst: RPM
nC6 to nC12	ND		50	mg/Kg	1	10/2/2013 08:55 AM
>nC12 to nC28	ND		50	mg/Kg	1	10/2/2013 08:55 AM
>nC28 to nC35	ND		50	mg/Kg	1	10/2/2013 08:55 AM
Total Petroleum Hydrocarbon	ND		50	mg/Kg	1	10/2/2013 08:55 AM
<i>Surr: 2-Fluorobiphenyl</i>	102		70-130	%REC	1	10/2/2013 08:55 AM
<i>Surr: Trifluoromethyl benzene</i>	92.9		70-130	%REC	1	10/2/2013 08:55 AM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: WLR
1,1,1-Trichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
1,1,2,2-Tetrachloroethane	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
1,1,2-Trichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
1,1-Dichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
1,1-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
1,2,4-Trichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
1,2-Dibromo-3-chloropropane	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
1,2-Dibromoethane	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
1,2-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
1,2-Dichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
1,2-Dichloropropane	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
1,3-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
1,4-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
2-Butanone	ND		0.010	mg/Kg	1	9/30/2013 05:47 PM
2-Hexanone	ND		0.010	mg/Kg	1	9/30/2013 05:47 PM
4-Methyl-2-pentanone	ND		0.010	mg/Kg	1	9/30/2013 05:47 PM
Acetone	ND		0.020	mg/Kg	1	9/30/2013 05:47 PM
Benzene	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
Bromodichloromethane	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
Bromoform	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
Bromomethane	ND		0.010	mg/Kg	1	9/30/2013 05:47 PM
Carbon disulfide	ND		0.010	mg/Kg	1	9/30/2013 05:47 PM
Carbon tetrachloride	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
Chlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
Chloroethane	ND		0.010	mg/Kg	1	9/30/2013 05:47 PM
Chloroform	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
Chloromethane	ND		0.010	mg/Kg	1	9/30/2013 05:47 PM
cis-1,2-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
cis-1,3-Dichloropropene	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
Cyclohexane	ND	n	0.0050	mg/Kg	1	9/30/2013 05:47 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH - Montrose-Midtown Phase II ES

**Work Order:** 13091286

**Sample ID:** B-28 (16-18)

**Lab ID:** 13091286-01

**Collection Date:** 9/26/2013 09:15 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
Dichlorodifluoromethane	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
Dichloromethane	ND		0.010	mg/Kg	1	9/30/2013 05:47 PM
Ethylbenzene	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
Isopropylbenzene	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
m,p-Xylene	ND		0.010	mg/Kg	1	9/30/2013 05:47 PM
Methyl acetate	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
Methyl tert-butyl ether	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
Methylcyclohexane	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
o-Xylene	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
Styrene	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
Tetrachloroethene	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
Toluene	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
trans-1,2-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
trans-1,3-Dichloropropene	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
Trichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
Trichlorofluoromethane	ND		0.0050	mg/Kg	1	9/30/2013 05:47 PM
Vinyl chloride	ND		0.0020	mg/Kg	1	9/30/2013 05:47 PM
Xylenes, Total	ND		0.015	mg/Kg	1	9/30/2013 05:47 PM
Surr: 1,2-Dichloroethane-d4	91.1		70-128	%REC	1	9/30/2013 05:47 PM
Surr: 4-Bromofluorobenzene	96.3		73-126	%REC	1	9/30/2013 05:47 PM
Surr: Dibromofluoromethane	96.2		71-128	%REC	1	9/30/2013 05:47 PM
Surr: Toluene-d8	98.6		73-127	%REC	1	9/30/2013 05:47 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH - Montrose-Midtown Phase II ES

**Work Order:** 13091286

**Sample ID:** B-30 (20-22)

**Lab ID:** 13091286-02

**Collection Date:** 9/26/2013 10:55 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/1/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	ND		50	mg/Kg	1	10/2/2013 09:28 AM
>nC12 to nC28	ND		50	mg/Kg	1	10/2/2013 09:28 AM
>nC28 to nC35	ND		50	mg/Kg	1	10/2/2013 09:28 AM
Total Petroleum Hydrocarbon	ND		50	mg/Kg	1	10/2/2013 09:28 AM
<i>Surr: 2-Fluorobiphenyl</i>	105		70-130	%REC	1	10/2/2013 09:28 AM
<i>Surr: Trifluoromethyl benzene</i>	95.9		70-130	%REC	1	10/2/2013 09:28 AM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
1,1,1-Trichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
1,1,2,2-Tetrachloroethane	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
1,1,2-Trichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
1,1-Dichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
1,1-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
1,2,4-Trichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
1,2-Dibromo-3-chloropropane	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
1,2-Dibromoethane	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
1,2-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
1,2-Dichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
1,2-Dichloropropane	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
1,3-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
1,4-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
2-Butanone	ND		0.010	mg/Kg	1	9/30/2013 06:11 PM
2-Hexanone	ND		0.010	mg/Kg	1	9/30/2013 06:11 PM
4-Methyl-2-pentanone	ND		0.010	mg/Kg	1	9/30/2013 06:11 PM
Acetone	ND		0.020	mg/Kg	1	9/30/2013 06:11 PM
Benzene	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
Bromodichloromethane	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
Bromoform	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
Bromomethane	ND		0.010	mg/Kg	1	9/30/2013 06:11 PM
Carbon disulfide	ND		0.010	mg/Kg	1	9/30/2013 06:11 PM
Carbon tetrachloride	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
Chlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
Chloroethane	ND		0.010	mg/Kg	1	9/30/2013 06:11 PM
Chloroform	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
Chloromethane	ND		0.010	mg/Kg	1	9/30/2013 06:11 PM
cis-1,2-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
cis-1,3-Dichloropropene	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
Cyclohexane	ND	n	0.0050	mg/Kg	1	9/30/2013 06:11 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH - Montrose-Midtown Phase II ES

**Work Order:** 13091286

**Sample ID:** B-30 (20-22)

**Lab ID:** 13091286-02

**Collection Date:** 9/26/2013 10:55 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
Dichlorodifluoromethane	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
Dichloromethane	ND		0.010	mg/Kg	1	9/30/2013 06:11 PM
Ethylbenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
Isopropylbenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
m,p-Xylene	ND		0.010	mg/Kg	1	9/30/2013 06:11 PM
Methyl acetate	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
Methyl tert-butyl ether	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
Methylcyclohexane	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
o-Xylene	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
Styrene	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
Tetrachloroethene	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
Toluene	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
trans-1,2-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
trans-1,3-Dichloropropene	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
Trichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
Trichlorofluoromethane	ND		0.0050	mg/Kg	1	9/30/2013 06:11 PM
Vinyl chloride	ND		0.0020	mg/Kg	1	9/30/2013 06:11 PM
Xylenes, Total	ND		0.015	mg/Kg	1	9/30/2013 06:11 PM
Surr: 1,2-Dichloroethane-d4	95.8		70-128	%REC	1	9/30/2013 06:11 PM
Surr: 4-Bromofluorobenzene	99.3		73-126	%REC	1	9/30/2013 06:11 PM
Surr: Dibromofluoromethane	103		71-128	%REC	1	9/30/2013 06:11 PM
Surr: Toluene-d8	97.3		73-127	%REC	1	9/30/2013 06:11 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH - Montrose-Midtown Phase II ES

**Work Order:** 13091286

**Sample ID:** B-31 (18-20)

**Lab ID:** 13091286-03

**Collection Date:** 9/26/2013 12:25 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: 10/1/2013	Analyst: RPM
nC6 to nC12	ND		50	mg/Kg	1	10/2/2013 10:00 AM
>nC12 to nC28	ND		50	mg/Kg	1	10/2/2013 10:00 AM
>nC28 to nC35	ND		50	mg/Kg	1	10/2/2013 10:00 AM
Total Petroleum Hydrocarbon	ND		50	mg/Kg	1	10/2/2013 10:00 AM
<i>Surr: 2-Fluorobiphenyl</i>	84.5		70-130	%REC	1	10/2/2013 10:00 AM
<i>Surr: Trifluoromethyl benzene</i>	79.2		70-130	%REC	1	10/2/2013 10:00 AM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: WLR
1,1,1-Trichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
1,1,2,2-Tetrachloroethane	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
1,1,2-Trichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
1,1-Dichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
1,1-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
1,2,4-Trichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
1,2-Dibromo-3-chloropropane	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
1,2-Dibromoethane	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
1,2-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
1,2-Dichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
1,2-Dichloropropane	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
1,3-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
1,4-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
2-Butanone	ND		0.010	mg/Kg	1	9/30/2013 06:34 PM
2-Hexanone	ND		0.010	mg/Kg	1	9/30/2013 06:34 PM
4-Methyl-2-pentanone	ND		0.010	mg/Kg	1	9/30/2013 06:34 PM
Acetone	ND		0.020	mg/Kg	1	9/30/2013 06:34 PM
Benzene	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
Bromodichloromethane	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
Bromoform	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
Bromomethane	ND		0.010	mg/Kg	1	9/30/2013 06:34 PM
Carbon disulfide	ND		0.010	mg/Kg	1	9/30/2013 06:34 PM
Carbon tetrachloride	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
Chlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
Chloroethane	ND		0.010	mg/Kg	1	9/30/2013 06:34 PM
Chloroform	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
Chloromethane	ND		0.010	mg/Kg	1	9/30/2013 06:34 PM
cis-1,2-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
cis-1,3-Dichloropropene	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
Cyclohexane	ND	n	0.0050	mg/Kg	1	9/30/2013 06:34 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH - Montrose-Midtown Phase II ES

**Work Order:** 13091286

**Sample ID:** B-31 (18-20)

**Lab ID:** 13091286-03

**Collection Date:** 9/26/2013 12:25 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
Dichlorodifluoromethane	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
Dichloromethane	ND		0.010	mg/Kg	1	9/30/2013 06:34 PM
Ethylbenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
Isopropylbenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
m,p-Xylene	ND		0.010	mg/Kg	1	9/30/2013 06:34 PM
Methyl acetate	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
Methyl tert-butyl ether	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
Methylcyclohexane	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
o-Xylene	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
Styrene	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
Tetrachloroethene	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
Toluene	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
trans-1,2-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
trans-1,3-Dichloropropene	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
Trichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
Trichlorofluoromethane	ND		0.0050	mg/Kg	1	9/30/2013 06:34 PM
Vinyl chloride	ND		0.0020	mg/Kg	1	9/30/2013 06:34 PM
Xylenes, Total	ND		0.015	mg/Kg	1	9/30/2013 06:34 PM
Surr: 1,2-Dichloroethane-d4	90.7		70-128	%REC	1	9/30/2013 06:34 PM
Surr: 4-Bromofluorobenzene	98.2		73-126	%REC	1	9/30/2013 06:34 PM
Surr: Dibromofluoromethane	97.5		71-128	%REC	1	9/30/2013 06:34 PM
Surr: Toluene-d8	99.4		73-127	%REC	1	9/30/2013 06:34 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH - Montrose-Midtown Phase II ES

**Work Order:** 13091286

**Sample ID:** B-32 (14-16)

**Lab ID:** 13091286-04

**Collection Date:** 9/26/2013 01:55 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: 10/1/2013	Analyst: RPM
nC6 to nC12	ND		50	mg/Kg	1	10/2/2013 10:33 AM
>nC12 to nC28	ND		50	mg/Kg	1	10/2/2013 10:33 AM
>nC28 to nC35	ND		50	mg/Kg	1	10/2/2013 10:33 AM
Total Petroleum Hydrocarbon	ND		50	mg/Kg	1	10/2/2013 10:33 AM
<i>Surr: 2-Fluorobiphenyl</i>	87.3		70-130	%REC	1	10/2/2013 10:33 AM
<i>Surr: Trifluoromethyl benzene</i>	79.5		70-130	%REC	1	10/2/2013 10:33 AM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: WLR
1,1,1-Trichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
1,1,2,2-Tetrachloroethane	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
1,1,2-Trichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
1,1-Dichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
1,1-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
1,2,4-Trichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
1,2-Dibromo-3-chloropropane	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
1,2-Dibromoethane	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
1,2-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
1,2-Dichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
1,2-Dichloropropane	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
1,3-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
1,4-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
2-Butanone	ND		0.010	mg/Kg	1	9/30/2013 06:58 PM
2-Hexanone	ND		0.010	mg/Kg	1	9/30/2013 06:58 PM
4-Methyl-2-pentanone	ND		0.010	mg/Kg	1	9/30/2013 06:58 PM
Acetone	ND		0.020	mg/Kg	1	9/30/2013 06:58 PM
Benzene	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
Bromodichloromethane	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
Bromoform	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
Bromomethane	ND		0.010	mg/Kg	1	9/30/2013 06:58 PM
Carbon disulfide	ND		0.010	mg/Kg	1	9/30/2013 06:58 PM
Carbon tetrachloride	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
Chlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
Chloroethane	ND		0.010	mg/Kg	1	9/30/2013 06:58 PM
Chloroform	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
Chloromethane	ND		0.010	mg/Kg	1	9/30/2013 06:58 PM
cis-1,2-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
cis-1,3-Dichloropropene	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
Cyclohexane	ND	n	0.0050	mg/Kg	1	9/30/2013 06:58 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH - Montrose-Midtown Phase II ES

**Work Order:** 13091286

**Sample ID:** B-32 (14-16)

**Lab ID:** 13091286-04

**Collection Date:** 9/26/2013 01:55 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
Dichlorodifluoromethane	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
Dichloromethane	ND		0.010	mg/Kg	1	9/30/2013 06:58 PM
Ethylbenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
Isopropylbenzene	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
m,p-Xylene	ND		0.010	mg/Kg	1	9/30/2013 06:58 PM
Methyl acetate	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
Methyl tert-butyl ether	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
Methylcyclohexane	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
o-Xylene	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
Styrene	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
Tetrachloroethene	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
Toluene	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
trans-1,2-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
trans-1,3-Dichloropropene	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
Trichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
Trichlorofluoromethane	ND		0.0050	mg/Kg	1	9/30/2013 06:58 PM
Vinyl chloride	ND		0.0020	mg/Kg	1	9/30/2013 06:58 PM
Xylenes, Total	ND		0.015	mg/Kg	1	9/30/2013 06:58 PM
Surr: 1,2-Dichloroethane-d4	89.1		70-128	%REC	1	9/30/2013 06:58 PM
Surr: 4-Bromofluorobenzene	99.0		73-126	%REC	1	9/30/2013 06:58 PM
Surr: Dibromofluoromethane	98.6		71-128	%REC	1	9/30/2013 06:58 PM
Surr: Toluene-d8	99.1		73-127	%REC	1	9/30/2013 06:58 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH - Montrose-Midtown Phase II ES

**Work Order:** 13091286

**Sample ID:** B-33 (20-22)

**Lab ID:** 13091286-05

**Collection Date:** 9/26/2013 04:20 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: 10/1/2013	Analyst: RPM
nC6 to nC12	ND		50	mg/Kg	1	10/2/2013 11:06 AM
>nC12 to nC28	ND		50	mg/Kg	1	10/2/2013 11:06 AM
>nC28 to nC35	ND		50	mg/Kg	1	10/2/2013 11:06 AM
Total Petroleum Hydrocarbon	ND		50	mg/Kg	1	10/2/2013 11:06 AM
Surr: 2-Fluorobiphenyl	92.6		70-130	%REC	1	10/2/2013 11:06 AM
Surr: Trifluoromethyl benzene	86.2		70-130	%REC	1	10/2/2013 11:06 AM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: WLR
1,1,1-Trichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
1,1,2,2-Tetrachloroethane	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
1,1,2-Trichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
1,1-Dichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
1,1-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
1,2,4-Trichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
1,2-Dibromo-3-chloropropane	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
1,2-Dibromoethane	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
1,2-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
1,2-Dichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
1,2-Dichloropropane	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
1,3-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
1,4-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
2-Butanone	ND		0.010	mg/Kg	1	9/30/2013 07:21 PM
2-Hexanone	ND		0.010	mg/Kg	1	9/30/2013 07:21 PM
4-Methyl-2-pentanone	ND		0.010	mg/Kg	1	9/30/2013 07:21 PM
Acetone	ND		0.020	mg/Kg	1	9/30/2013 07:21 PM
Benzene	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
Bromodichloromethane	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
Bromoform	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
Bromomethane	ND		0.010	mg/Kg	1	9/30/2013 07:21 PM
Carbon disulfide	ND		0.010	mg/Kg	1	9/30/2013 07:21 PM
Carbon tetrachloride	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
Chlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
Chloroethane	ND		0.010	mg/Kg	1	9/30/2013 07:21 PM
Chloroform	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
Chloromethane	ND		0.010	mg/Kg	1	9/30/2013 07:21 PM
cis-1,2-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
cis-1,3-Dichloropropene	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
Cyclohexane	ND	n	0.0050	mg/Kg	1	9/30/2013 07:21 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH - Montrose-Midtown Phase II ES

**Work Order:** 13091286

**Sample ID:** B-33 (20-22)

**Lab ID:** 13091286-05

**Collection Date:** 9/26/2013 04:20 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
Dichlorodifluoromethane	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
Dichloromethane	ND		0.010	mg/Kg	1	9/30/2013 07:21 PM
Ethylbenzene	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
Isopropylbenzene	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
m,p-Xylene	ND		0.010	mg/Kg	1	9/30/2013 07:21 PM
Methyl acetate	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
Methyl tert-butyl ether	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
Methylcyclohexane	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
o-Xylene	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
Styrene	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
Tetrachloroethene	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
Toluene	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
trans-1,2-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
trans-1,3-Dichloropropene	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
Trichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
Trichlorofluoromethane	ND		0.0050	mg/Kg	1	9/30/2013 07:21 PM
Vinyl chloride	ND		0.0020	mg/Kg	1	9/30/2013 07:21 PM
Xylenes, Total	ND		0.015	mg/Kg	1	9/30/2013 07:21 PM
Surr: 1,2-Dichloroethane-d4	88.7		70-128	%REC	1	9/30/2013 07:21 PM
Surr: 4-Bromofluorobenzene	97.5		73-126	%REC	1	9/30/2013 07:21 PM
Surr: Dibromofluoromethane	98.5		71-128	%REC	1	9/30/2013 07:21 PM
Surr: Toluene-d8	98.7		73-127	%REC	1	9/30/2013 07:21 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

Work Order: 13091286  
 Client: Kleinfelder  
 Project: COH - Montrose-Midtown Phase II ES

**DATES REPORT**

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
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**Batch ID** 73509      **Test Name:** Texas TPH - TX1005

13091286-01	B-28 (16-18)	Soil	9/26/2013 9:15:00 AM		10/1/2013 04:53 PM	10/2/2013 08:55 AM
13091286-02	B-30 (20-22)		9/26/2013 10:55:00 AM		10/1/2013 04:53 PM	10/2/2013 09:28 AM
13091286-03	B-31 (18-20)		9/26/2013 12:25:00 PM		10/1/2013 04:53 PM	10/2/2013 10:00 AM
13091286-04	B-32 (14-16)		9/26/2013 1:55:00 PM		10/1/2013 04:53 PM	10/2/2013 10:33 AM
13091286-05	B-33 (20-22)		9/26/2013 4:20:00 PM		10/1/2013 04:53 PM	10/2/2013 11:06 AM

**Batch ID** R154499      **Test Name:** TCL Volatiles - SW8260C

13091286-01	B-28 (16-18)	Soil	9/26/2013 9:15:00 AM			9/30/2013 05:47 PM
13091286-02	B-30 (20-22)		9/26/2013 10:55:00 AM			9/30/2013 06:11 PM
13091286-03	B-31 (18-20)		9/26/2013 12:25:00 PM			9/30/2013 06:34 PM
13091286-04	B-32 (14-16)		9/26/2013 1:55:00 PM			9/30/2013 06:58 PM
13091286-05	B-33 (20-22)		9/26/2013 4:20:00 PM			9/30/2013 07:21 PM

Client: Kleinfelder

**QC BATCH REPORT**

Work Order: 13091286

Project: COH - Montrose-Midtown Phase II ES

Batch ID: 73509

Instrument ID FID-12

Method: TX1005

MBLK		Sample ID: FBLKS1-131001-73509				Units: mg/Kg		Analysis Date: 10/1/2013 10:11 PM			
Client ID:		Run ID: FID-12_131001A				SeqNo: 3377689		Prep Date: 10/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
nC6 to nC12	ND	50									
>nC12 to nC28	ND	50									
>nC28 to nC35	ND	50									
Total Petroleum Hydrocarbon	ND	50									
<i>Surr: 2-Fluorobiphenyl</i>	22.87	0	25	0	91.5	70-130	0				
<i>Surr: Trifluoromethyl benzene</i>	21.02	0	25	0	84.1	70-130	0				

LCS		Sample ID: FLCSS1-131001-73509				Units: mg/Kg		Analysis Date: 10/1/2013 10:43 PM			
Client ID:		Run ID: FID-12_131001A				SeqNo: 3377690		Prep Date: 10/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
nC6 to nC12	267.2	50	250	0	107	75-125					
>nC12 to nC28	257.8	50	250	0	103	75-125					
<i>Surr: 2-Fluorobiphenyl</i>	29.4	0	25	0	118	70-130	0				
<i>Surr: Trifluoromethyl benzene</i>	21.76	0	25	0	87	70-130	0				

LCSD		Sample ID: FLCSDS1-131001-73509				Units: mg/Kg		Analysis Date: 10/1/2013 11:16 PM			
Client ID:		Run ID: FID-12_131001A				SeqNo: 3377691		Prep Date: 10/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
nC6 to nC12	295.6	50	250	0	118	75-125	267.2	10.1	20		
>nC12 to nC28	259.6	50	250	0	104	75-125	257.8	0.718	20		
<i>Surr: 2-Fluorobiphenyl</i>	28.21	0	25	0	113	70-130	29.4	4.13	20		
<i>Surr: Trifluoromethyl benzene</i>	24.25	0	25	0	97	70-130	21.76	10.8	20		

MS		Sample ID: 1310024-01BMS				Units: mg/Kg		Analysis Date: 10/2/2013 12:20 AM			
Client ID:		Run ID: FID-12_131001A				SeqNo: 3377693		Prep Date: 10/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
nC6 to nC12	247.6	50	250	0	99	75-125					
>nC12 to nC28	228.5	50	250	0	91.4	75-125					
<i>Surr: 2-Fluorobiphenyl</i>	27.28	0	25	0	109	70-130	0				
<i>Surr: Trifluoromethyl benzene</i>	20.59	0	25	0	82.4	70-130	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091286  
**Project:** COH - Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **73509**      Instrument ID **FID-12**      Method: **TX1005**

MSD		Sample ID: <b>1310024-01BMSD</b>			Units: <b>mg/Kg</b>			Analysis Date: <b>10/2/2013 12:52 AM</b>		
Client ID:		Run ID: <b>FID-12_131001A</b>			SeqNo: <b>3377694</b>		Prep Date: <b>10/1/2013</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	259.7	50	250	0	104	75-125	247.6	4.76	20	
>nC12 to nC28	244.1	50	250	0	97.6	75-125	228.5	6.6	20	
<i>Surr: 2-Fluorobiphenyl</i>	28.59	0	25	0	114	70-130	27.28	4.69	20	
<i>Surr: Trifluoromethyl benzene</i>	21.58	0	25	0	86.3	70-130	20.59	4.68	20	

The following samples were analyzed in this batch:

13091286-01B	13091286-02B	13091286-03B
13091286-04B	13091286-05B	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091286  
**Project:** COH - Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R154499**      Instrument ID **VOA5**      Method: **SW8260**

**MBLK**      Sample ID: **VBLKS1-093013-R154499**      Units: **µg/Kg**      Analysis Date: **9/30/2013 11:03 AM**

Client ID:      Run ID: **VOA5\_130930A**      SeqNo: **3375495**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2-Butanone	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	20								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	10								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	10								
Chloroform	ND	5.0								
Chloromethane	ND	10								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Cyclohexane	ND	5.0								
Dibromochloromethane	ND	5.0								
Dichlorodifluoromethane	ND	5.0								
Dichloromethane	ND	10								
Ethylbenzene	ND	5.0								
Isopropylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methyl acetate	ND	5.0								

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091286  
**Project:** COH - Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R154499</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	ND	5.0					
Methylcyclohexane	ND	5.0					
o-Xylene	ND	5.0					
Styrene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	2.0					
Xylenes, Total	ND	10					
<i>Surr: 1,2-Dichloroethane-d4</i>	45.2	0	50	0	90.4	70-128	0
<i>Surr: 4-Bromofluorobenzene</i>	48.43	0	50	0	96.9	73-126	0
<i>Surr: Dibromofluoromethane</i>	48.04	0	50	0	96.1	71-128	0
<i>Surr: Toluene-d8</i>	48.9	0	50	0	97.8	73-127	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091286  
 Project: COH - Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: R154499 Instrument ID VOA5 Method: SW8260

LCS Sample ID: VLCSS1-093013-R154499 Units: µg/Kg Analysis Date: 9/30/2013 10:17 AM

Client ID: Run ID: VOA5\_130930A SeqNo: 3375494 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	54.19	5.0	50	0	108	79-124				
1,1,2,2-Tetrachloroethane	54.13	5.0	50	0	108	75-123				
1,1,2-Trichlor-1,2,2-trifluoroethane	52.86	5.0	50	0	106	79-125				
1,1,2-Trichloroethane	52.84	5.0	50	0	106	79-120				
1,1-Dichloroethane	54.98	5.0	50	0	110	75-124				
1,1-Dichloroethene	52.61	5.0	50	0	105	80-122				
1,2,4-Trichlorobenzene	56.64	5.0	50	0	113	74-128				
1,2-Dibromo-3-chloropropane	50.8	5.0	50	0	102	66-129				
1,2-Dibromoethane	56.36	5.0	50	0	113	70-120				
1,2-Dichlorobenzene	56.28	5.0	50	0	113	75-120				
1,2-Dichloroethane	53.85	5.0	50	0	108	73-121				
1,2-Dichloropropane	56.83	5.0	50	0	114	76-120				
1,3-Dichlorobenzene	56.96	5.0	50	0	114	70-125				
1,4-Dichlorobenzene	56.42	5.0	50	0	113	77-120				
2-Butanone	102	10	100	0	102	65-130				
2-Hexanone	104.4	10	100	0	104	65-133				
4-Methyl-2-pentanone	107.5	10	100	0	107	69-130				
Acetone	98.71	20	100	0	98.7	53-142				
Benzene	56.3	5.0	50	0	113	79-120				
Bromodichloromethane	55.97	5.0	50	0	112	79-121				
Bromoform	56.11	5.0	50	0	112	74-122				
Bromomethane	53.52	10	50	0	107	68-131				
Carbon disulfide	104.7	10	100	0	105	80-124				
Carbon tetrachloride	52.97	5.0	50	0	106	74-126				
Chlorobenzene	55.81	5.0	50	0	112	79-120				
Chloroethane	57.32	10	50	0	115	76-126				
Chloroform	56.38	5.0	50	0	113	78-120				
Chloromethane	52.8	10	50	0	106	69-129				
cis-1,2-Dichloroethene	55.11	5.0	50	0	110	80-120				
cis-1,3-Dichloropropene	56.85	5.0	50	0	114	77-123				
Cyclohexane	51.69	5.0	50	0	103	74-126				
Dibromochloromethane	54.04	5.0	50	0	108	78-122				
Dichlorodifluoromethane	47.41	5.0	50	0	94.8	57-140				
Dichloromethane	47.91	10	50	0	95.8	62-130				
Ethylbenzene	58.03	5.0	50	0	116	80-122				
Isopropylbenzene	54.74	5.0	50	0	109	72-127				
m,p-Xylene	117.9	10	100	0	118	79-122				
Methyl acetate	50.57	5.0	50	0	101	69-123				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091286  
**Project:** COH - Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R154499</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	57.06	5.0	50	0	114	76-121	
Methylcyclohexane	52.64	5.0	50	0	105	77-126	
o-Xylene	57.29	5.0	50	0	115	80-123	
Styrene	57.52	5.0	50	0	115	78-124	
Tetrachloroethene	52.41	5.0	50	0	105	73-129	
Toluene	56.75	5.0	50	0	114	79-120	
trans-1,2-Dichloroethene	57.51	5.0	50	0	115	79-122	
trans-1,3-Dichloropropene	52.16	5.0	50	0	104	77-120	
Trichloroethene	57.01	5.0	50	0	114	80-121	
Trichlorofluoromethane	54.63	5.0	50	0	109	75-126	
Vinyl chloride	50.52	2.0	50	0	101	76-126	
Xylenes, Total	175.2	10	150	0	117	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	48.84	0	50	0	97.7	70-128	0
<i>Surr: 4-Bromofluorobenzene</i>	49.68	0	50	0	99.4	73-126	0
<i>Surr: Dibromofluoromethane</i>	50.82	0	50	0	102	71-128	0
<i>Surr: Toluene-d8</i>	48.75	0	50	0	97.5	73-127	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091286  
**Project:** COH - Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: **R154499**      Instrument ID **VOA5**      Method: **SW8260**

**MS**      Sample ID: **13091257-05AMS**      Units: **µg/Kg**      Analysis Date: **9/30/2013 01:02 PM**

Client ID:      Run ID: **VOA5\_130930A**      SeqNo: **3375497**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.94	5.0	50	0	104	79-124				
1,1,2,2-Tetrachloroethane	46.09	5.0	50	0	92.2	75-123				
1,1,2-Trichlor-1,2,2-trifluoroethane	51.75	5.0	50	0	103	79-125				
1,1,2-Trichloroethane	50.01	5.0	50	0	100	79-120				
1,1-Dichloroethane	53.63	5.0	50	0	107	75-124				
1,1-Dichloroethene	50.97	5.0	50	0	102	80-122				
1,2,4-Trichlorobenzene	52.25	5.0	50	0	104	74-128				
1,2-Dibromo-3-chloropropane	45.86	5.0	50	0	91.7	66-129				
1,2-Dibromoethane	49.46	5.0	50	0	98.9	70-120				
1,2-Dichlorobenzene	50.42	5.0	50	0	101	75-120				
1,2-Dichloroethane	51.05	5.0	50	0	102	73-121				
1,2-Dichloropropane	52.66	5.0	50	0	105	76-120				
1,3-Dichlorobenzene	52.18	5.0	50	0	104	70-125				
1,4-Dichlorobenzene	52.35	5.0	50	0	105	77-120				
2-Butanone	96.34	10	100	0	96.3	65-130				
2-Hexanone	92.21	10	100	0	92.2	65-133				
4-Methyl-2-pentanone	92.39	10	100	0	92.4	69-130				
Acetone	91.89	20	100	0	91.9	53-142				
Benzene	54.25	5.0	50	0	109	79-120				
Bromodichloromethane	50.93	5.0	50	0	102	79-121				
Bromoform	51.09	5.0	50	0	102	74-122				
Bromomethane	52.57	10	50	0	105	68-131				
Carbon disulfide	99.96	10	100	0	100	80-124				
Carbon tetrachloride	51.27	5.0	50	0	103	74-126				
Chlorobenzene	52.71	5.0	50	0	105	79-120				
Chloroethane	55.96	10	50	0	112	76-126				
Chloroform	53.43	5.0	50	0	107	78-120				
Chloromethane	50.4	10	50	0	101	69-129				
cis-1,2-Dichloroethene	52.56	5.0	50	0	105	80-120				
cis-1,3-Dichloropropene	51.83	5.0	50	0	104	77-123				
Cyclohexane	48.89	5.0	50	0	97.8	74-126				
Dibromochloromethane	51.65	5.0	50	0	103	78-122				
Dichlorodifluoromethane	43.13	5.0	50	0	86.3	57-140				
Dichloromethane	46.7	10	50	0	93.4	62-130				
Ethylbenzene	53.9	5.0	50	0	108	80-122				
Isopropylbenzene	51.93	5.0	50	0	104	72-127				
m,p-Xylene	111.3	10	100	0	111	79-122				
Methyl acetate	43.82	5.0	50	0	87.6	69-123				

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091286  
**Project:** COH - Montrose-Midtown Phase II ES

## QC BATCH REPORT

Batch ID: <b>R154499</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	50.2	5.0	50	0	100	76-121	
Methylcyclohexane	51.78	5.0	50	0	104	77-126	
o-Xylene	54.85	5.0	50	0	110	80-123	
Styrene	54.49	5.0	50	0	109	78-124	
Tetrachloroethene	57.84	5.0	50	0	116	73-129	
Toluene	54.76	5.0	50	0	110	79-120	
trans-1,2-Dichloroethene	54.26	5.0	50	0	109	79-122	
trans-1,3-Dichloropropene	48.83	5.0	50	0	97.7	77-120	
Trichloroethene	58.14	5.0	50	0	116	80-121	
Trichlorofluoromethane	52.24	5.0	50	0	104	75-126	
Vinyl chloride	49.92	2.0	50	0	99.8	76-126	
Xylenes, Total	166.1	10	150	0	111	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	48.99	0	50	0	98	70-128	0
<i>Surr: 4-Bromofluorobenzene</i>	51.53	0	50	0	103	73-126	0
<i>Surr: Dibromofluoromethane</i>	48.88	0	50	0	97.8	71-128	0
<i>Surr: Toluene-d8</i>	48.93	0	50	0	97.9	73-127	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091286  
 Project: COH - Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: R154499 Instrument ID VOA5 Method: SW8260

MSD	Sample ID: 13091257-05AMSD	Units: µg/Kg					Analysis Date: 9/30/2013 01:26 PM				
Client ID:	Run ID: VOA5_130930A	SeqNo: 3375498			Prep Date:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	52.94	5.0	50	0	106	79-124	51.94	1.91	30		
1,1,2,2-Tetrachloroethane	50.54	5.0	50	0	101	75-123	46.09	9.21	30		
1,1,2-Trichlor-1,2,2-trifluoroethane	51.96	5.0	50	0	104	79-125	51.75	0.407	30		
1,1,2-Trichloroethane	52.08	5.0	50	0	104	79-120	50.01	4.05	30		
1,1-Dichloroethane	53.3	5.0	50	0	107	75-124	53.63	0.606	30		
1,1-Dichloroethene	50.47	5.0	50	0	101	80-122	50.97	0.976	30		
1,2,4-Trichlorobenzene	52.74	5.0	50	0	105	74-128	52.25	0.941	30		
1,2-Dibromo-3-chloropropane	51.99	5.0	50	0	104	66-129	45.86	12.5	30		
1,2-Dibromoethane	54.07	5.0	50	0	108	70-120	49.46	8.9	30		
1,2-Dichlorobenzene	52.81	5.0	50	0	106	75-120	50.42	4.63	30		
1,2-Dichloroethane	52.57	5.0	50	0	105	73-121	51.05	2.92	30		
1,2-Dichloropropane	56.23	5.0	50	0	112	76-120	52.66	6.57	30		
1,3-Dichlorobenzene	55.42	5.0	50	0	111	70-125	52.18	6.02	30		
1,4-Dichlorobenzene	53.87	5.0	50	0	108	77-120	52.35	2.87	30		
2-Butanone	108.7	10	100	0	109	65-130	96.34	12.1	30		
2-Hexanone	110.5	10	100	0	110	65-133	92.21	18	30		
4-Methyl-2-pentanone	109.6	10	100	0	110	69-130	92.39	17.1	30		
Acetone	116.7	20	100	0	117	53-142	91.89	23.8	30		
Benzene	57.24	5.0	50	0	114	79-120	54.25	5.36	30		
Bromodichloromethane	55.13	5.0	50	0	110	79-121	50.93	7.92	30		
Bromoform	55.21	5.0	50	0	110	74-122	51.09	7.76	30		
Bromomethane	51.61	10	50	0	103	68-131	52.57	1.85	30		
Carbon disulfide	104.1	10	100	0	104	80-124	99.96	4.05	30		
Carbon tetrachloride	53.43	5.0	50	0	107	74-126	51.27	4.13	30		
Chlorobenzene	54.83	5.0	50	0	110	79-120	52.71	3.95	30		
Chloroethane	56.73	10	50	0	113	76-126	55.96	1.36	30		
Chloroform	55.96	5.0	50	0	112	78-120	53.43	4.62	30		
Chloromethane	51.82	10	50	0	104	69-129	50.4	2.77	30		
cis-1,2-Dichloroethene	55.31	5.0	50	0	111	80-120	52.56	5.1	30		
cis-1,3-Dichloropropene	56.22	5.0	50	0	112	77-123	51.83	8.14	30		
Cyclohexane	51.49	5.0	50	0	103	74-126	48.89	5.19	30		
Dibromochloromethane	53.56	5.0	50	0	107	78-122	51.65	3.63	30		
Dichlorodifluoromethane	44.27	5.0	50	0	88.5	57-140	43.13	2.6	30		
Dichloromethane	48	10	50	0	96	62-130	46.7	2.74	30		
Ethylbenzene	56.61	5.0	50	0	113	80-122	53.9	4.91	30		
Isopropylbenzene	53.19	5.0	50	0	106	72-127	51.93	2.39	30		
m,p-Xylene	113	10	100	0	113	79-122	111.3	1.52	30		
Methyl acetate	48.27	5.0	50	0	96.5	69-123	43.82	9.67	30		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091286  
 Project: COH - Montrose-Midtown Phase II ES

# QC BATCH REPORT

Batch ID: <b>R154499</b>	Instrument ID <b>VOA5</b>			Method: <b>SW8260</b>						
Methyl tert-butyl ether	54.57	5.0	50	0	109	76-121	50.2	8.35	30	
Methylcyclohexane	52.78	5.0	50	0	106	77-126	51.78	1.91	30	
o-Xylene	55.4	5.0	50	0	111	80-123	54.85	0.984	30	
Styrene	55.57	5.0	50	0	111	78-124	54.49	1.97	30	
Tetrachloroethene	63.82	5.0	50	0	128	73-129	57.84	9.84	30	
Toluene	55.51	5.0	50	0	111	79-120	54.76	1.36	30	
trans-1,2-Dichloroethene	55.44	5.0	50	0	111	79-122	54.26	2.16	30	
trans-1,3-Dichloropropene	51.12	5.0	50	0	102	77-120	48.83	4.58	30	
Trichloroethene	61.42	5.0	50	0	123	80-121	58.14	5.49	30	S
Trichlorofluoromethane	52.67	5.0	50	0	105	75-126	52.24	0.819	30	
Vinyl chloride	49.35	2.0	50	0	98.7	76-126	49.92	1.15	30	
Xylenes, Total	168.4	10	150	0	112	79-123	166.1	1.35	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	49.71	0	50	0	99.4	70-128	48.99	1.46	30	
<i>Surr: 4-Bromofluorobenzene</i>	51.28	0	50	0	103	73-126	51.53	0.489	30	
<i>Surr: Dibromofluoromethane</i>	49.59	0	50	0	99.2	71-128	48.88	1.46	30	
<i>Surr: Toluene-d8</i>	49.2	0	50	0	98.4	73-127	48.93	0.531	30	

The following samples were analyzed in this batch:

13091286-01A	13091286-02A	13091286-03A
13091286-04A	13091286-05A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Project:** COH - Montrose-Midtown Phase II ES  
**WorkOrder:** 13091286

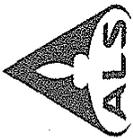
**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/Kg	Milligrams per Kilogram





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Chain of Custody Form

Page 1 of 1

COC ID: 87858

13091286

CORRIGAN-HOU: Kleinfelder

Project: COH - Montrose-Midtown Phase II ES

Environmental

Customer Information				Project Information				ALS Project Manager:											
Purchase Order	Project Name	COH-Montrose-Midtown Phase II ES		A	VOC (8260) TCL														
Work Order	Project Number	139524		B	TPH (TX1005)														
Company Name	Bill To Company	Kleinfelder		C	Midtown														
Send Report To	Invoice Attn	Jordan Smith, Route Varan		D															
Address	Address	12000 Aerospace Ave.		E															
City/State/Zip	City/State/Zip	Houston, TX 77034		F															
Phone	Phone	(281) 922-4766		G															
Fax	Fax	(281) 922-4767		H															
e-Mail Address	e-Mail Address	jsmith@kleinfelder.com, RVaran@kleinfelder.com		I															
				J															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	B-29 (16-18)	9/26/13	915	S	g	2	X	X											
2	B-30 (20-22)		1055				X	X											
3	B-31 (18-20)		1225				X	X											
4	B-32 (14-16)		1355				X	X											
5	B-33 (20-22)		1620				X	X											
6	Trip Blank																		
7	This Space Not Used																		
8																			
9																			
10																			

Sampler(s) Please Print & Sign: Jordan Smith, Jordan P. Smith

Relinquished by: Jordan Smith Date: 9/27/13

Received by: Anna Wagner Date: 10:45

Shipment Method: Pick-up

Required Turnaround Time: (Check Box)  Std 10 WK Days  5 WK Days  2 WK Days  24 Hour

Results Due Date:

QC Package: (Check One Box Below)  Level II Std QC  TRRP Checklist  Level III Std QC/Raw Data  TRRP Level IV  Level IV SW846/CLP  Other / EDD

Cooler ID: 5198

Cooler Temp:

Notes:

Preservative Key: 1-HCl 2-HNO<sub>3</sub> 3-H<sub>2</sub>SO<sub>4</sub> 4-NaOH 5-Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-NaHSO<sub>4</sub> 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.  
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.

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## Review of Laboratory Analysis Report

Client: City of Houston Date: October 9, 2013

Project: Montrose-Midtown Phase II ESA Reviewed by: K. Scheller

Project No.: 136524, Task 001 Project Manager: R. Voran

Laboratory Report No.: 13091286 (ALS Environmental, Houston, Texas). Samples collected 9-26-2013.

1. The following are attached to report:

Completed Chain-of-Custody  yes  no

Analytical results for all requested analyses  yes  no

QA/QC reports for each analytical method  yes  no

2. Did received temperature meet method criteria?  yes  no

3. Were extractions and analyses performed using appropriate method and prior to elapse of holding times?  yes  no

4. Do detection limits meet regulatory or project requirements?  yes  no

5. Are data for percent recovery and relative percent difference (RPD) for matrix spikes (MS) and matrix spike duplicates (MSD) within acceptable ranges?  yes  no  N/A

6. Are data for percent recovery and RPD for blank spike and blank spike duplicates (BS/BSD or LCS/LSCD) within acceptable ranges?  yes  no

7. Were the surrogates recovered within acceptable ranges?  yes  no  N/A

8. Were any compounds/metals reported in the method blanks?  yes  no

9. Are analytical data for field blanks, trip blanks, and duplicates acceptable?  yes  no  N/A

9. Notes:

5). No project samples were used as MS/MSD samples and, therefore, the matrix effect could not be evaluated.

9). The trip blank sample was placed on hold and was not analyzed.



07-Oct-2013

Jordan Smith  
Kleinfelder  
12000 Aerospace Ave.  
Suite 450  
Houston, TX 77034

Tel: (281) 922-4766  
Fax: (281) 922-4767

Re: COH-Montrose-Midtown Phase II ES 136524

Work Order: **13091294**

Dear Jordan,

ALS Environmental received 8 samples on 27-Sep-2013 03:27 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 46.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in cursive script that reads "Sonia West".

Electronically approved by: Jumoke M. Lawal

Sonia West  
Project Manager



Certificate No: TX: T104704231-13-12

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

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RIGHT SOLUTIONS RIGHT PARTNER

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES 136524  
**Work Order:** 13091294

**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
13091294-01	B-34 (24-26)	Soil		9/27/2013 08:35	9/27/2013 15:27	<input type="checkbox"/>
13091294-02	B-34	Water		9/27/2013 08:45	9/27/2013 15:27	<input type="checkbox"/>
13091294-03	B-36 (20-22)	Soil		9/27/2013 10:10	9/27/2013 15:27	<input type="checkbox"/>
13091294-04	B-37 (14-16)	Soil		9/27/2013 11:15	9/27/2013 15:27	<input type="checkbox"/>
13091294-05	B-38 (20-22)	Soil		9/27/2013 12:05	9/27/2013 15:27	<input type="checkbox"/>
13091294-06	B-38	Water		9/27/2013 12:15	9/27/2013 15:27	<input type="checkbox"/>
13091294-07	B-39	Soil		9/27/2013 14:15	9/27/2013 15:27	<input type="checkbox"/>
13091294-08	Trip Blank 090613-98	Water		9/27/2013	9/27/2013 15:27	<input type="checkbox"/>

---

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES 136524  
**Work Order:** 13091294

---

**Case Narrative**

Batch 73581, PCBs by Method 8082, Insufficient sample available for MS/MSD. A LCS/LCSD pair provided as batch quality control.

Batch 73485, TPH by Method TX1005, LCS/LCSD RPD criteria was not met for the surrogate 2-fluorobiphenyl; the individual percent recoveries were within control limits.

Batch R154499, Volatile Organics by Method 8260, Sample 13091257-05: MS/MSD performed on an unrelated sample.

# ALS Environmental

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091294

**Sample ID:** B-34 (24-26)

**Lab ID:** 13091294-01

**Collection Date:** 9/27/2013 08:35 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/2/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	ND		50	mg/Kg	1	10/3/2013 02:35 AM
>nC12 to nC28	ND		50	mg/Kg	1	10/3/2013 02:35 AM
>nC28 to nC35	ND		50	mg/Kg	1	10/3/2013 02:35 AM
Total Petroleum Hydrocarbon	ND		50	mg/Kg	1	10/3/2013 02:35 AM
<i>Surr: 2-Fluorobiphenyl</i>	92.7		70-130	%REC	1	10/3/2013 02:35 AM
<i>Surr: Trifluoromethyl benzene</i>	98.4		70-130	%REC	1	10/3/2013 02:35 AM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
1,1,1-Trichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
1,1,2,2-Tetrachloroethane	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
1,1,2-Trichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
1,1-Dichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
1,1-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
1,2,4-Trichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
1,2-Dibromo-3-chloropropane	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
1,2-Dibromoethane	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
1,2-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
1,2-Dichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
1,2-Dichloropropane	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
1,3-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
1,4-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
2-Butanone	ND		0.010	mg/Kg	1	9/30/2013 07:45 PM
2-Hexanone	ND		0.010	mg/Kg	1	9/30/2013 07:45 PM
4-Methyl-2-pentanone	ND		0.010	mg/Kg	1	9/30/2013 07:45 PM
Acetone	ND		0.020	mg/Kg	1	9/30/2013 07:45 PM
Benzene	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
Bromodichloromethane	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
Bromoform	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
Bromomethane	ND		0.010	mg/Kg	1	9/30/2013 07:45 PM
Carbon disulfide	ND		0.010	mg/Kg	1	9/30/2013 07:45 PM
Carbon tetrachloride	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
Chlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
Chloroethane	ND		0.010	mg/Kg	1	9/30/2013 07:45 PM
Chloroform	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
Chloromethane	ND		0.010	mg/Kg	1	9/30/2013 07:45 PM
cis-1,2-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
cis-1,3-Dichloropropene	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
Cyclohexane	ND	n	0.0050	mg/Kg	1	9/30/2013 07:45 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091294

**Sample ID:** B-34 (24-26)

**Lab ID:** 13091294-01

**Collection Date:** 9/27/2013 08:35 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
Dichlorodifluoromethane	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
Dichloromethane	ND		0.010	mg/Kg	1	9/30/2013 07:45 PM
Ethylbenzene	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
Isopropylbenzene	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
m,p-Xylene	ND		0.010	mg/Kg	1	9/30/2013 07:45 PM
Methyl acetate	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
Methyl tert-butyl ether	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
Methylcyclohexane	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
o-Xylene	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
Styrene	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
Tetrachloroethene	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
Toluene	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
trans-1,2-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
trans-1,3-Dichloropropene	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
Trichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
Trichlorofluoromethane	ND		0.0050	mg/Kg	1	9/30/2013 07:45 PM
Vinyl chloride	ND		0.0020	mg/Kg	1	9/30/2013 07:45 PM
Xylenes, Total	ND		0.015	mg/Kg	1	9/30/2013 07:45 PM
Surr: 1,2-Dichloroethane-d4	94.9		70-128	%REC	1	9/30/2013 07:45 PM
Surr: 4-Bromofluorobenzene	99.2		73-126	%REC	1	9/30/2013 07:45 PM
Surr: Dibromofluoromethane	101		71-128	%REC	1	9/30/2013 07:45 PM
Surr: Toluene-d8	96.5		73-127	%REC	1	9/30/2013 07:45 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091294

**Sample ID:** B-34

**Lab ID:** 13091294-02

**Collection Date:** 9/27/2013 08:45 AM

**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>LOW-LEVEL TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/1/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	ND		0.47	mg/L	1	10/2/2013 05:38 AM
>nC12 to nC28	ND		0.47	mg/L	1	10/2/2013 05:38 AM
>nC28 to nC35	ND		0.47	mg/L	1	10/2/2013 05:38 AM
Total Petroleum Hydrocarbon	ND		0.47	mg/L	1	10/2/2013 05:38 AM
<i>Surr: 2-Fluorobiphenyl</i>	78.7		70-130	%REC	1	10/2/2013 05:38 AM
<i>Surr: Trifluoromethyl benzene</i>	77.5		70-130	%REC	1	10/2/2013 05:38 AM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>PC</b>
1,1,1-Trichloroethane	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
1,1,2,2-Tetrachloroethane	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
1,1,2-Trichloroethane	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
1,1-Dichloroethane	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
1,1-Dichloroethene	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
1,2,4-Trichlorobenzene	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
1,2-Dibromo-3-chloropropane	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
1,2-Dibromoethane	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
1,2-Dichlorobenzene	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
1,2-Dichloroethane	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
1,2-Dichloropropane	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
1,3-Dichlorobenzene	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
1,4-Dichlorobenzene	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
2-Butanone	ND		0.010	mg/L	1	9/30/2013 05:12 PM
2-Hexanone	ND		0.010	mg/L	1	9/30/2013 05:12 PM
4-Methyl-2-pentanone	ND		0.010	mg/L	1	9/30/2013 05:12 PM
Acetone	ND		0.010	mg/L	1	9/30/2013 05:12 PM
Benzene	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
Bromodichloromethane	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
Bromoform	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
Bromomethane	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
Carbon disulfide	ND		0.010	mg/L	1	9/30/2013 05:12 PM
Carbon tetrachloride	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
Chlorobenzene	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
Chloroethane	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
Chloroform	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
Chloromethane	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
cis-1,2-Dichloroethene	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
cis-1,3-Dichloropropene	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
Cyclohexane	ND	n	0.0050	mg/L	1	9/30/2013 05:12 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091294

**Sample ID:** B-34

**Lab ID:** 13091294-02

**Collection Date:** 9/27/2013 08:45 AM

**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
Dichlorodifluoromethane	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
Dichloromethane	ND		0.010	mg/L	1	9/30/2013 05:12 PM
Ethylbenzene	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
Isopropylbenzene	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
m,p-Xylene	ND		0.010	mg/L	1	9/30/2013 05:12 PM
Methyl acetate	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
Methyl tert-butyl ether	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
Methylcyclohexane	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
o-Xylene	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
Styrene	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
Tetrachloroethene	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
Toluene	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
trans-1,2-Dichloroethene	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
trans-1,3-Dichloropropene	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
Trichloroethene	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
Trichlorofluoromethane	ND		0.0050	mg/L	1	9/30/2013 05:12 PM
Vinyl chloride	ND		0.0020	mg/L	1	9/30/2013 05:12 PM
Xylenes, Total	ND		0.015	mg/L	1	9/30/2013 05:12 PM
Surr: 1,2-Dichloroethane-d4	98.9		70-125	%REC	1	9/30/2013 05:12 PM
Surr: 4-Bromofluorobenzene	96.1		72-125	%REC	1	9/30/2013 05:12 PM
Surr: Dibromofluoromethane	103		71-125	%REC	1	9/30/2013 05:12 PM
Surr: Toluene-d8	98.8		75-125	%REC	1	9/30/2013 05:12 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091294

**Sample ID:** B-36 (20-22)

**Lab ID:** 13091294-03

**Collection Date:** 9/27/2013 10:10 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/2/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	ND		50	mg/Kg	1	10/3/2013 03:07 AM
>nC12 to nC28	ND		50	mg/Kg	1	10/3/2013 03:07 AM
>nC28 to nC35	ND		50	mg/Kg	1	10/3/2013 03:07 AM
Total Petroleum Hydrocarbon	ND		50	mg/Kg	1	10/3/2013 03:07 AM
Surr: 2-Fluorobiphenyl	82.8		70-130	%REC	1	10/3/2013 03:07 AM
Surr: Trifluoromethyl benzene	92.7		70-130	%REC	1	10/3/2013 03:07 AM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
1,1,1-Trichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
1,1,2,2-Tetrachloroethane	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
1,1,2-Trichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
1,1-Dichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
1,1-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
1,2,4-Trichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
1,2-Dibromo-3-chloropropane	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
1,2-Dibromoethane	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
1,2-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
1,2-Dichloroethane	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
1,2-Dichloropropane	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
1,3-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
1,4-Dichlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
2-Butanone	ND		0.010	mg/Kg	1	9/30/2013 08:08 PM
2-Hexanone	ND		0.010	mg/Kg	1	9/30/2013 08:08 PM
4-Methyl-2-pentanone	ND		0.010	mg/Kg	1	9/30/2013 08:08 PM
Acetone	ND		0.020	mg/Kg	1	9/30/2013 08:08 PM
Benzene	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
Bromodichloromethane	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
Bromoform	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
Bromomethane	ND		0.010	mg/Kg	1	9/30/2013 08:08 PM
Carbon disulfide	ND		0.010	mg/Kg	1	9/30/2013 08:08 PM
Carbon tetrachloride	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
Chlorobenzene	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
Chloroethane	ND		0.010	mg/Kg	1	9/30/2013 08:08 PM
Chloroform	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
Chloromethane	ND		0.010	mg/Kg	1	9/30/2013 08:08 PM
cis-1,2-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
cis-1,3-Dichloropropene	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
Cyclohexane	ND	n	0.0050	mg/Kg	1	9/30/2013 08:08 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091294

**Sample ID:** B-36 (20-22)

**Lab ID:** 13091294-03

**Collection Date:** 9/27/2013 10:10 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
Dichlorodifluoromethane	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
Dichloromethane	ND		0.010	mg/Kg	1	9/30/2013 08:08 PM
Ethylbenzene	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
Isopropylbenzene	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
m,p-Xylene	ND		0.010	mg/Kg	1	9/30/2013 08:08 PM
Methyl acetate	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
Methyl tert-butyl ether	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
Methylcyclohexane	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
o-Xylene	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
Styrene	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
Tetrachloroethene	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
Toluene	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
trans-1,2-Dichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
trans-1,3-Dichloropropene	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
Trichloroethene	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
Trichlorofluoromethane	ND		0.0050	mg/Kg	1	9/30/2013 08:08 PM
Vinyl chloride	ND		0.0020	mg/Kg	1	9/30/2013 08:08 PM
Xylenes, Total	ND		0.015	mg/Kg	1	9/30/2013 08:08 PM
Surr: 1,2-Dichloroethane-d4	90.0		70-128	%REC	1	9/30/2013 08:08 PM
Surr: 4-Bromofluorobenzene	96.3		73-126	%REC	1	9/30/2013 08:08 PM
Surr: Dibromofluoromethane	92.9		71-128	%REC	1	9/30/2013 08:08 PM
Surr: Toluene-d8	98.4		73-127	%REC	1	9/30/2013 08:08 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091294

**Sample ID:** B-37 (14-16)

**Lab ID:** 13091294-04

**Collection Date:** 9/27/2013 11:15 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>PCBS BY SW8082A</b>			<b>SW8082</b>		Prep Date: <b>9/30/2013</b>	Analyst: <b>SE</b>
Aroclor 1016	ND		17	µg/Kg	1	10/1/2013 12:27 PM
Aroclor 1221	ND		17	µg/Kg	1	10/1/2013 12:27 PM
Aroclor 1232	ND		17	µg/Kg	1	10/1/2013 12:27 PM
Aroclor 1242	ND		17	µg/Kg	1	10/1/2013 12:27 PM
Aroclor 1248	ND		17	µg/Kg	1	10/1/2013 12:27 PM
Aroclor 1254	ND		17	µg/Kg	1	10/1/2013 12:27 PM
Aroclor 1260	ND		17	µg/Kg	1	10/1/2013 12:27 PM
Surr: Decachlorobiphenyl	91.4		54-143	%REC	1	10/1/2013 12:27 PM
Surr: Tetrachloro-m-xylene	75.4		55-137	%REC	1	10/1/2013 12:27 PM
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/2/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	ND		50	mg/Kg	1	10/3/2013 03:38 AM
>nC12 to nC28	ND		50	mg/Kg	1	10/3/2013 03:38 AM
>nC28 to nC35	ND		50	mg/Kg	1	10/3/2013 03:38 AM
Total Petroleum Hydrocarbon	ND		50	mg/Kg	1	10/3/2013 03:38 AM
Surr: 2-Fluorobiphenyl	104		70-130	%REC	1	10/3/2013 03:38 AM
Surr: Trifluoromethyl benzene	107		70-130	%REC	1	10/3/2013 03:38 AM
<b>VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
Benzene	ND		5.0	µg/Kg	1	10/2/2013 10:41 AM
Ethylbenzene	ND		5.0	µg/Kg	1	10/2/2013 10:41 AM
m,p-Xylene	ND		10	µg/Kg	1	10/2/2013 10:41 AM
Methyl tert-butyl ether	ND		5.0	µg/Kg	1	10/2/2013 10:41 AM
o-Xylene	ND		5.0	µg/Kg	1	10/2/2013 10:41 AM
Toluene	ND		5.0	µg/Kg	1	10/2/2013 10:41 AM
Xylenes, Total	ND		10	µg/Kg	1	10/2/2013 10:41 AM
Surr: 1,2-Dichloroethane-d4	100		70-128	%REC	1	10/2/2013 10:41 AM
Surr: 4-Bromofluorobenzene	101		73-126	%REC	1	10/2/2013 10:41 AM
Surr: Dibromofluoromethane	98.7		71-128	%REC	1	10/2/2013 10:41 AM
Surr: Toluene-d8	97.6		73-127	%REC	1	10/2/2013 10:41 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091294

**Sample ID:** B-38 (20-22)

**Lab ID:** 13091294-05

**Collection Date:** 9/27/2013 12:05 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>PCBS BY SW8082A</b>			<b>SW8082</b>		Prep Date: <b>9/30/2013</b>	Analyst: <b>SE</b>
Aroclor 1016	ND		17	µg/Kg	1	10/1/2013 12:42 PM
Aroclor 1221	ND		17	µg/Kg	1	10/1/2013 12:42 PM
Aroclor 1232	ND		17	µg/Kg	1	10/1/2013 12:42 PM
Aroclor 1242	ND		17	µg/Kg	1	10/1/2013 12:42 PM
Aroclor 1248	ND		17	µg/Kg	1	10/1/2013 12:42 PM
Aroclor 1254	ND		17	µg/Kg	1	10/1/2013 12:42 PM
Aroclor 1260	ND		17	µg/Kg	1	10/1/2013 12:42 PM
Surr: Decachlorobiphenyl	94.0		54-143	%REC	1	10/1/2013 12:42 PM
Surr: Tetrachloro-m-xylene	79.4		55-137	%REC	1	10/1/2013 12:42 PM
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/2/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	ND		50	mg/Kg	1	10/3/2013 04:10 AM
>nC12 to nC28	ND		50	mg/Kg	1	10/3/2013 04:10 AM
>nC28 to nC35	ND		50	mg/Kg	1	10/3/2013 04:10 AM
Total Petroleum Hydrocarbon	ND		50	mg/Kg	1	10/3/2013 04:10 AM
Surr: 2-Fluorobiphenyl	76.4		70-130	%REC	1	10/3/2013 04:10 AM
Surr: Trifluoromethyl benzene	83.2		70-130	%REC	1	10/3/2013 04:10 AM
<b>VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
Benzene	ND		5.0	µg/Kg	1	10/2/2013 05:25 PM
Ethylbenzene	ND		5.0	µg/Kg	1	10/2/2013 05:25 PM
m,p-Xylene	ND		10	µg/Kg	1	10/2/2013 05:25 PM
Methyl tert-butyl ether	ND		5.0	µg/Kg	1	10/2/2013 05:25 PM
o-Xylene	ND		5.0	µg/Kg	1	10/2/2013 05:25 PM
Toluene	ND		5.0	µg/Kg	1	10/2/2013 05:25 PM
Xylenes, Total	ND		10	µg/Kg	1	10/2/2013 05:25 PM
Surr: 1,2-Dichloroethane-d4	90.4		70-128	%REC	1	10/2/2013 05:25 PM
Surr: 4-Bromofluorobenzene	96.7		73-126	%REC	1	10/2/2013 05:25 PM
Surr: Dibromofluoromethane	99.0		71-128	%REC	1	10/2/2013 05:25 PM
Surr: Toluene-d8	96.0		73-127	%REC	1	10/2/2013 05:25 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091294

**Sample ID:** B-38

**Lab ID:** 13091294-06

**Collection Date:** 9/27/2013 12:15 PM

**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>PCBS BY SW8082A</b>			<b>SW8082</b>		Prep Date: <b>10/4/2013</b>	Analyst: <b>SE</b>
Aroclor 1016	ND		0.500	µg/L	1	10/4/2013 02:19 PM
Aroclor 1221	ND		0.500	µg/L	1	10/4/2013 02:19 PM
Aroclor 1232	ND		0.500	µg/L	1	10/4/2013 02:19 PM
Aroclor 1242	ND		0.500	µg/L	1	10/4/2013 02:19 PM
Aroclor 1248	ND		0.500	µg/L	1	10/4/2013 02:19 PM
Aroclor 1254	ND		0.500	µg/L	1	10/4/2013 02:19 PM
Aroclor 1260	ND		0.500	µg/L	1	10/4/2013 02:19 PM
Surr: Decachlorobiphenyl	82.6		54-140	%REC	1	10/4/2013 02:19 PM
Surr: Tetrachloro-m-xylene	70.3		53-137	%REC	1	10/4/2013 02:19 PM
<b>LOW-LEVEL TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/1/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	ND		0.47	mg/L	1	10/1/2013 08:23 PM
>nC12 to nC28	ND		0.47	mg/L	1	10/1/2013 08:23 PM
>nC28 to nC35	ND		0.47	mg/L	1	10/1/2013 08:23 PM
Total Petroleum Hydrocarbon	ND		0.47	mg/L	1	10/1/2013 08:23 PM
Surr: 2-Fluorobiphenyl	71.4		70-130	%REC	1	10/1/2013 08:23 PM
Surr: Trifluoromethyl benzene	70.9		70-130	%REC	1	10/1/2013 08:23 PM
<b>TCL VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>PC</b>
1,1,1-Trichloroethane	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
1,1,2,2-Tetrachloroethane	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
1,1,2-Trichloroethane	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
1,1-Dichloroethane	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
1,1-Dichloroethene	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
1,2,4-Trichlorobenzene	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
1,2-Dibromo-3-chloropropane	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
1,2-Dibromoethane	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
1,2-Dichlorobenzene	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
1,2-Dichloroethane	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
1,2-Dichloropropane	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
1,3-Dichlorobenzene	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
1,4-Dichlorobenzene	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
2-Butanone	ND		0.010	mg/L	1	9/30/2013 05:38 PM
2-Hexanone	ND		0.010	mg/L	1	9/30/2013 05:38 PM
4-Methyl-2-pentanone	ND		0.010	mg/L	1	9/30/2013 05:38 PM
Acetone	ND		0.010	mg/L	1	9/30/2013 05:38 PM
Benzene	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
Bromodichloromethane	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
Bromoform	ND		0.0050	mg/L	1	9/30/2013 05:38 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091294

**Sample ID:** B-38

**Lab ID:** 13091294-06

**Collection Date:** 9/27/2013 12:15 PM

**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Bromomethane	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
Carbon disulfide	ND		0.010	mg/L	1	9/30/2013 05:38 PM
Carbon tetrachloride	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
Chlorobenzene	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
Chloroethane	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
Chloroform	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
Chloromethane	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
cis-1,2-Dichloroethene	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
cis-1,3-Dichloropropene	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
Cyclohexane	ND	n	0.0050	mg/L	1	9/30/2013 05:38 PM
Dibromochloromethane	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
Dichlorodifluoromethane	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
Dichloromethane	ND		0.010	mg/L	1	9/30/2013 05:38 PM
Ethylbenzene	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
Isopropylbenzene	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
m,p-Xylene	ND		0.010	mg/L	1	9/30/2013 05:38 PM
Methyl acetate	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
Methyl tert-butyl ether	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
Methylcyclohexane	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
o-Xylene	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
Styrene	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
Tetrachloroethene	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
Toluene	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
trans-1,2-Dichloroethene	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
trans-1,3-Dichloropropene	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
Trichloroethene	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
Trichlorofluoromethane	ND		0.0050	mg/L	1	9/30/2013 05:38 PM
Vinyl chloride	ND		0.0020	mg/L	1	9/30/2013 05:38 PM
Xylenes, Total	ND		0.015	mg/L	1	9/30/2013 05:38 PM
Surr: 1,2-Dichloroethane-d4	102		70-125	%REC	1	9/30/2013 05:38 PM
Surr: 4-Bromofluorobenzene	99.1		72-125	%REC	1	9/30/2013 05:38 PM
Surr: Dibromofluoromethane	104		71-125	%REC	1	9/30/2013 05:38 PM
Surr: Toluene-d8	101		75-125	%REC	1	9/30/2013 05:38 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 07-Oct-13

**Client:** Kleinfelder

**Project:** COH-Montrose-Midtown Phase II ES 136524

**Work Order:** 13091294

**Sample ID:** B-39

**Lab ID:** 13091294-07

**Collection Date:** 9/27/2013 02:15 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>PCBS BY SW8082A</b>			<b>SW8082</b>		Prep Date: <b>9/30/2013</b>	Analyst: <b>SE</b>
Aroclor 1016	ND		17	µg/Kg	1	10/2/2013 10:50 AM
Aroclor 1221	ND		17	µg/Kg	1	10/2/2013 10:50 AM
Aroclor 1232	ND		17	µg/Kg	1	10/2/2013 10:50 AM
Aroclor 1242	ND		17	µg/Kg	1	10/2/2013 10:50 AM
Aroclor 1248	ND		17	µg/Kg	1	10/2/2013 10:50 AM
Aroclor 1254	ND		17	µg/Kg	1	10/2/2013 10:50 AM
Aroclor 1260	ND		17	µg/Kg	1	10/2/2013 10:50 AM
Surr: Decachlorobiphenyl	87.4		54-143	%REC	1	10/2/2013 10:50 AM
Surr: Tetrachloro-m-xylene	82.3		55-137	%REC	1	10/2/2013 10:50 AM
<b>TEXAS TPH - TX1005</b>			<b>TX1005</b>		Prep Date: <b>10/2/2013</b>	Analyst: <b>RPM</b>
nC6 to nC12	ND		50	mg/Kg	1	10/3/2013 04:41 AM
>nC12 to nC28	ND		50	mg/Kg	1	10/3/2013 04:41 AM
>nC28 to nC35	ND		50	mg/Kg	1	10/3/2013 04:41 AM
Total Petroleum Hydrocarbon	ND		50	mg/Kg	1	10/3/2013 04:41 AM
Surr: 2-Fluorobiphenyl	90.0		70-130	%REC	1	10/3/2013 04:41 AM
Surr: Trifluoromethyl benzene	95.5		70-130	%REC	1	10/3/2013 04:41 AM
<b>VOLATILES - SW8260C</b>			<b>SW8260</b>			Analyst: <b>WLR</b>
Benzene	ND		5.0	µg/Kg	1	10/3/2013 10:18 AM
Ethylbenzene	ND		5.0	µg/Kg	1	10/3/2013 10:18 AM
m,p-Xylene	ND		10	µg/Kg	1	10/3/2013 10:18 AM
Methyl tert-butyl ether	ND		5.0	µg/Kg	1	10/3/2013 10:18 AM
o-Xylene	ND		5.0	µg/Kg	1	10/3/2013 10:18 AM
Toluene	ND		5.0	µg/Kg	1	10/3/2013 10:18 AM
Xylenes, Total	ND		10	µg/Kg	1	10/3/2013 10:18 AM
Surr: 1,2-Dichloroethane-d4	93.9		70-128	%REC	1	10/3/2013 10:18 AM
Surr: 4-Bromofluorobenzene	101		73-126	%REC	1	10/3/2013 10:18 AM
Surr: Dibromofluoromethane	99.9		71-128	%REC	1	10/3/2013 10:18 AM
Surr: Toluene-d8	96.7		73-127	%REC	1	10/3/2013 10:18 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

Work Order: 13091294  
 Client: Kleinfelder  
 Project: COH-Montrose-Midtown Phase II ES 136524

**DATES REPORT**

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<b>Batch ID</b> <u>73443a</u> <b>Test Name:</b> <u>PCBs by SW8082A</u>						
13091294-04	B-37 (14-16)	Soil	9/27/2013 11:15:00 AM		9/30/2013 11:00 AM	10/1/2013 12:27 PM
13091294-05	B-38 (20-22)		9/27/2013 12:05:00 PM		9/30/2013 11:00 AM	10/1/2013 12:42 PM
13091294-07	B-39		9/27/2013 2:15:00 PM		9/30/2013 11:00 AM	10/2/2013 10:50 AM
<b>Batch ID</b> <u>73485</u> <b>Test Name:</b> <u>Low-level Texas TPH - TX1005</u>						
13091294-02	B-34	Water	9/27/2013 8:45:00 AM		10/1/2013 10:13 AM	10/2/2013 05:38 AM
13091294-06	B-38		9/27/2013 12:15:00 PM		10/1/2013 10:13 AM	10/1/2013 08:23 PM
<b>Batch ID</b> <u>73529</u> <b>Test Name:</b> <u>Texas TPH - TX1005</u>						
13091294-01	B-34 (24-26)	Soil	9/27/2013 8:35:00 AM		10/2/2013 02:10 PM	10/3/2013 02:35 AM
13091294-03	B-36 (20-22)		9/27/2013 10:10:00 AM		10/2/2013 02:10 PM	10/3/2013 03:07 AM
13091294-04	B-37 (14-16)		9/27/2013 11:15:00 AM		10/2/2013 02:10 PM	10/3/2013 03:38 AM
13091294-05	B-38 (20-22)		9/27/2013 12:05:00 PM		10/2/2013 02:10 PM	10/3/2013 04:10 AM
13091294-07	B-39		9/27/2013 2:15:00 PM		10/2/2013 02:10 PM	10/3/2013 04:41 AM
<b>Batch ID</b> <u>73581</u> <b>Test Name:</b> <u>PCBs by SW8082A</u>						
13091294-06	B-38	Water	9/27/2013 12:15:00 PM		10/4/2013 07:34 AM	10/4/2013 02:19 PM
<b>Batch ID</b> <u>R154499</u> <b>Test Name:</b> <u>TCL Volatiles - SW8260C</u>						
13091294-01	B-34 (24-26)	Soil	9/27/2013 8:35:00 AM			9/30/2013 07:45 PM
13091294-03	B-36 (20-22)		9/27/2013 10:10:00 AM			9/30/2013 08:08 PM
<b>Batch ID</b> <u>R154577</u> <b>Test Name:</b> <u>TCL Volatiles - SW8260C</u>						
13091294-02	B-34	Water	9/27/2013 8:45:00 AM			9/30/2013 05:12 PM
13091294-06	B-38		9/27/2013 12:15:00 PM			9/30/2013 05:38 PM

Work Order: 13091294  
 Client: Kleinfelder  
 Project: COH-Montrose-Midtown Phase II ES 136524

**DATES REPORT**

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<b>Batch ID R154629 Test Name: Volatiles - SW8260C</b>						
13091294-04	B-37 (14-16)	Soil	9/27/2013 11:15:00 AM			10/2/2013 10:41 AM
<sup>A</sup>						
13091294-05	B-38 (20-22)		9/27/2013 12:05:00 PM			10/2/2013 05:25 PM
<sup>A</sup>						
<b>Batch ID R154717 Test Name: Volatiles - SW8260C</b>						
13091294-07	B-39	Soil	9/27/2013 2:15:00 PM			10/3/2013 10:18 AM
<sup>A</sup>						

Client: Kleinfelder

**QC BATCH REPORT**

Work Order: 13091294

Project: COH-Montrose-Midtown Phase II ES 136524

Batch ID: **73443a** Instrument ID **ECD\_7** Method: **SW8082**

MBLK		Sample ID: <b>PBLKS1-130930-73443a</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>10/1/2013 12:11 AM</b>		
Client ID:		Run ID: <b>ECD_7_130930B</b>			SeqNo: <b>3379687</b>		Prep Date: <b>9/30/2013</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	17								
Aroclor 1221	ND	17								
Aroclor 1232	ND	17								
Aroclor 1242	ND	17								
Aroclor 1248	ND	17								
Aroclor 1254	ND	17								
Aroclor 1260	ND	17								
<i>Surr: Decachlorobiphenyl</i>	6.014	1.6	6.667	0	90.2	54-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	5.527	1.6	6.667	0	82.9	55-137	0			

LCS		Sample ID: <b>PLCSS1-130930-73443a</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>10/1/2013 12:26 AM</b>		
Client ID:		Run ID: <b>ECD_7_130930B</b>			SeqNo: <b>3379688</b>		Prep Date: <b>9/30/2013</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	150.7	17	166.7	0	90.4	53-135				
Aroclor 1260	146.3	17	166.7	0	87.8	54-137				
<i>Surr: Decachlorobiphenyl</i>	5.792	1.6	6.667	0	86.9	54-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	5.231	1.6	6.667	0	78.5	55-137	0			

MS		Sample ID: <b>13091317-01AMS</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>10/1/2013 01:41 AM</b>		
Client ID:		Run ID: <b>ECD_7_130930B</b>			SeqNo: <b>3379690</b>		Prep Date: <b>9/30/2013</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	133.2	17	166.6	0	79.9	53-135				
Aroclor 1260	128	17	166.6	0	76.8	54-137				
<i>Surr: Decachlorobiphenyl</i>	5.675	1.6	6.664	0	85.2	54-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	4.8	1.6	6.664	0	72	55-137	0			

MSD		Sample ID: <b>13091317-01AMSD</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>10/1/2013 01:56 AM</b>		
Client ID:		Run ID: <b>ECD_7_130930B</b>			SeqNo: <b>3379691</b>		Prep Date: <b>9/30/2013</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	138.5	17	166.6	0	83.1	53-135	133.2	3.91	30	
Aroclor 1260	126.8	17	166.6	0	76.1	54-137	128	0.925	30	
<i>Surr: Decachlorobiphenyl</i>	5.632	1.6	6.664	0	84.5	54-143	5.675	0.749	30	
<i>Surr: Tetrachloro-m-xylene</i>	4.856	1.6	6.664	0	72.9	55-137	4.8	1.17	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091294  
**Project:** COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

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Batch ID: **73443a**      Instrument ID **ECD\_7**      Method: **SW8082**

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**The following samples were analyzed in this batch:**

13091294-04C	13091294-05C	13091294-07C
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091294  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **73581** Instrument ID **ECD\_7** Method: **SW8082**

**MBLK** Sample ID: **PBLKW1-131004-73581** Units: **µg/L** Analysis Date: **10/4/2013 01:34 PM**

Client ID: Run ID: **ECD\_7\_131004A** SeqNo: **3382450** Prep Date: **10/4/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.500								
Aroclor 1221	ND	0.500								
Aroclor 1232	ND	0.500								
Aroclor 1242	ND	0.500								
Aroclor 1248	ND	0.500								
Aroclor 1254	ND	0.500								
Aroclor 1260	ND	0.500								
<i>Surr: Decachlorobiphenyl</i>	0.1559	0.0500	0.2	0	77.9	54-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.1517	0.0500	0.2	0	75.8	53-137	0			

**LCS** Sample ID: **PLCSW1-131004-73581** Units: **µg/L** Analysis Date: **10/4/2013 01:49 PM**

Client ID: Run ID: **ECD\_7\_131004A** SeqNo: **3382451** Prep Date: **10/4/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	3.522	0.500	5	0	70.4	54-138				
Aroclor 1260	3.298	0.500	5	0	66	57-136				
<i>Surr: Decachlorobiphenyl</i>	0.1351	0.0500	0.2	0	67.6	54-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.1271	0.0500	0.2	0	63.6	53-137	0			

**LCSD** Sample ID: **PLCSDW1-131004-73581** Units: **µg/L** Analysis Date: **10/4/2013 02:04 PM**

Client ID: Run ID: **ECD\_7\_131004A** SeqNo: **3382452** Prep Date: **10/4/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	3.652	0.500	5	0	73	54-138	3.522	3.62	20	
Aroclor 1260	3.483	0.500	5	0	69.7	57-136	3.298	5.45	20	
<i>Surr: Decachlorobiphenyl</i>	0.1439	0.0500	0.2	0	72	54-140	0.1351	6.29	20	
<i>Surr: Tetrachloro-m-xylene</i>	0.1337	0.0500	0.2	0	66.9	53-137	0.1271	5.04	20	

The following samples were analyzed in this batch:

13091294-06C
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091294  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: 73485 Instrument ID FID-10 Method: TX1005

**MBLK** Sample ID: FBLKW1-131001-73485 Units: mg/L Analysis Date: 10/1/2013 10:19 PM

Client ID: Run ID: FID-10\_131001A SeqNo: 3379648 Prep Date: 10/1/2013 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	ND	0.50								
>nC12 to nC28	ND	0.50								
>nC28 to nC35	ND	0.50								
Total Petroleum Hydrocarbon	ND	0.50								
Surr: 2-Fluorobiphenyl	2.32	0	2.5	0	92.8	70-130	0			
Surr: Trifluoromethyl benzene	2.217	0	2.5	0	88.7	70-130	0			

**LCS** Sample ID: FLCSW1-131001-73485 Units: mg/L Analysis Date: 10/1/2013 10:49 PM

Client ID: Run ID: FID-10\_131001A SeqNo: 3379649 Prep Date: 10/1/2013 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	22.78	0.50	25	0	91.1	75-125				
>nC12 to nC28	21.54	0.50	25	0	86.1	75-125				
Surr: 2-Fluorobiphenyl	2.637	0	2.5	0	105	70-130	0			
Surr: Trifluoromethyl benzene	2.132	0	2.5	0	85.3	70-130	0			

**LCSD** Sample ID: FLCSDW1-131001-73485 Units: mg/L Analysis Date: 10/1/2013 11:18 PM

Client ID: Run ID: FID-10\_131001A SeqNo: 3379650 Prep Date: 10/1/2013 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	20.8	0.50	25	0	83.2	75-125	22.78	9.09	20	
>nC12 to nC28	20.37	0.50	25	0	81.5	75-125	21.54	5.57	20	
Surr: 2-Fluorobiphenyl	1.955	0	2.5	0	78.2	70-130	2.637	29.7	20	R
Surr: Trifluoromethyl benzene	1.797	0	2.5	0	71.9	70-130	2.132	17	20	

**MS** Sample ID: 13091294-02BMS Units: mg/L Analysis Date: 10/2/2013 06:07 AM

Client ID: B-34 Run ID: FID-10\_131001A SeqNo: 3379661 Prep Date: 10/1/2013 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	21.33	0.48	23.82	0	89.5	75-125				
>nC12 to nC28	20.65	0.48	23.82	0	86.7	75-125				
Surr: 2-Fluorobiphenyl	2.382	0	2.382	0	100	70-130	0			
Surr: Trifluoromethyl benzene	1.886	0	2.382	0	79.2	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091294  
**Project:** COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **73485**      Instrument ID **FID-10**      Method: **TX1005**

MSD		Sample ID: <b>13091294-02BMSD</b>			Units: <b>mg/L</b>		Analysis Date: <b>10/2/2013 06:36 AM</b>			
Client ID: <b>B-34</b>		Run ID: <b>FID-10_131001A</b>			SeqNo: <b>3379662</b>		Prep Date: <b>10/1/2013</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	19.74	0.47	23.6	0	83.7	75-125	21.33	7.74	20	
>nC12 to nC28	18.93	0.47	23.6	0	80.2	75-125	20.65	8.69	20	
<i>Surr: 2-Fluorobiphenyl</i>	2.191	0	2.36	0	92.8	70-130	2.382	8.38	20	
<i>Surr: Trifluoromethyl benzene</i>	1.794	0	2.36	0	76	70-130	1.886	5.02	20	

The following samples were analyzed in this batch:

13091294-02B	13091294-06B
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091294  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: 73529 Instrument ID FID-12 Method: TX1005

MBLK		Sample ID: FBLKS2-131002-73529			Units: mg/Kg			Analysis Date: 10/2/2013 10:21 PM		
Client ID:		Run ID: FID-12_131002A			SeqNo: 3379385			Prep Date: 10/2/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	ND	50								
>nC12 to nC28	ND	50								
>nC28 to nC35	ND	50								
Total Petroleum Hydrocarbon	ND	50								
Surr: 2-Fluorobiphenyl	21.35	0	25	0	85.4	70-130	0			
Surr: Trifluoromethyl benzene	20.11	0	25	0	80.5	70-130	0			

LCS		Sample ID: FLCSS2-131002-73529			Units: mg/Kg			Analysis Date: 10/2/2013 10:53 PM		
Client ID:		Run ID: FID-12_131002A			SeqNo: 3379386			Prep Date: 10/2/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	256	50	250	0	102	75-125				
>nC12 to nC28	205.9	50	250	0	82.4	75-125				
Surr: 2-Fluorobiphenyl	27.4	0	25	0	110	70-130	0			
Surr: Trifluoromethyl benzene	21.35	0	25	0	85.4	70-130	0			

LCSD		Sample ID: FLCSDS2-131002-73529			Units: mg/Kg			Analysis Date: 10/2/2013 11:24 PM		
Client ID:		Run ID: FID-12_131002A			SeqNo: 3379387			Prep Date: 10/2/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	246.2	50	250	0	98.5	75-125	256	3.9	20	
>nC12 to nC28	193.7	50	250	0	77.5	75-125	205.9	6.13	20	
Surr: 2-Fluorobiphenyl	26.01	0	25	0	104	70-130	27.4	5.22	20	
Surr: Trifluoromethyl benzene	21.02	0	25	0	84.1	70-130	21.35	1.57	20	

MS		Sample ID: 1310070-01AMS			Units: mg/Kg			Analysis Date: 10/3/2013 12:28 AM		
Client ID:		Run ID: FID-12_131002A			SeqNo: 3379389			Prep Date: 10/2/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	227.8	50	249.3	0	91.4	75-125				
>nC12 to nC28	204	50	249.3	0	81.8	75-125				
Surr: 2-Fluorobiphenyl	24.25	0	24.93	0	97.3	70-130	0			
Surr: Trifluoromethyl benzene	19.13	0	24.93	0	76.8	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091294  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: 73529 Instrument ID FID-12 Method: TX1005

MSD		Sample ID: 1310070-01AMSD			Units: mg/Kg			Analysis Date: 10/3/2013 01:00 AM		
Client ID:		Run ID: FID-12_131002A			SeqNo: 3379390			Prep Date: 10/2/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	244.2	50	248	0	98.5	75-125	227.8	6.95	20	
>nC12 to nC28	211	50	248	0	85.1	75-125	204	3.4	20	
<i>Surr: 2-Fluorobiphenyl</i>	26.29	0	24.8	0	106	70-130	24.25	8.05	20	
<i>Surr: Trifluoromethyl benzene</i>	20.6	0	24.8	0	83.1	70-130	19.13	7.42	20	

The following samples were analyzed in this batch:

13091294-01B	13091294-03B	13091294-04B
13091294-05B	13091294-07B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091294  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **R154499** Instrument ID **VOA5** Method: **SW8260**

MBLK Sample ID: **VBLKS1-093013-R154499** Units: **µg/Kg** Analysis Date: **9/30/2013 11:03 AM**

Client ID: Run ID: **VOA5\_130930A** SeqNo: **3375495** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2-Butanone	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	20								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	10								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	10								
Chloroform	ND	5.0								
Chloromethane	ND	10								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Cyclohexane	ND	5.0								
Dibromochloromethane	ND	5.0								
Dichlorodifluoromethane	ND	5.0								
Dichloromethane	ND	10								
Ethylbenzene	ND	5.0								
Isopropylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methyl acetate	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091294  
**Project:** COH-Montrose-Midtown Phase II ES 136524

## QC BATCH REPORT

Batch ID: <b>R154499</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>						
Methyl tert-butyl ether	ND	5.0						
Methylcyclohexane	ND	5.0						
o-Xylene	ND	5.0						
Styrene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,2-Dichloroethene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Trichlorofluoromethane	ND	5.0						
Vinyl chloride	ND	2.0						
Xylenes, Total	ND	10						
<i>Surr: 1,2-Dichloroethane-d4</i>	45.2	0	50	0	90.4	70-128	0	
<i>Surr: 4-Bromofluorobenzene</i>	48.43	0	50	0	96.9	73-126	0	
<i>Surr: Dibromofluoromethane</i>	48.04	0	50	0	96.1	71-128	0	
<i>Surr: Toluene-d8</i>	48.9	0	50	0	97.8	73-127	0	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091294  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: R154499 Instrument ID VOA5 Method: SW8260

LCS Sample ID: VLCSS1-093013-R154499 Units: µg/Kg Analysis Date: 9/30/2013 10:17 AM

Client ID: Run ID: VOA5\_130930A SeqNo: 3375494 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	54.19	5.0	50	0	108	79-124				
1,1,2,2-Tetrachloroethane	54.13	5.0	50	0	108	75-123				
1,1,2-Trichlor-1,2,2-trifluoroethane	52.86	5.0	50	0	106	79-125				
1,1,2-Trichloroethane	52.84	5.0	50	0	106	79-120				
1,1-Dichloroethane	54.98	5.0	50	0	110	75-124				
1,1-Dichloroethene	52.61	5.0	50	0	105	80-122				
1,2,4-Trichlorobenzene	56.64	5.0	50	0	113	74-128				
1,2-Dibromo-3-chloropropane	50.8	5.0	50	0	102	66-129				
1,2-Dibromoethane	56.36	5.0	50	0	113	70-120				
1,2-Dichlorobenzene	56.28	5.0	50	0	113	75-120				
1,2-Dichloroethane	53.85	5.0	50	0	108	73-121				
1,2-Dichloropropane	56.83	5.0	50	0	114	76-120				
1,3-Dichlorobenzene	56.96	5.0	50	0	114	70-125				
1,4-Dichlorobenzene	56.42	5.0	50	0	113	77-120				
2-Butanone	102	10	100	0	102	65-130				
2-Hexanone	104.4	10	100	0	104	65-133				
4-Methyl-2-pentanone	107.5	10	100	0	107	69-130				
Acetone	98.71	20	100	0	98.7	53-142				
Benzene	56.3	5.0	50	0	113	79-120				
Bromodichloromethane	55.97	5.0	50	0	112	79-121				
Bromoform	56.11	5.0	50	0	112	74-122				
Bromomethane	53.52	10	50	0	107	68-131				
Carbon disulfide	104.7	10	100	0	105	80-124				
Carbon tetrachloride	52.97	5.0	50	0	106	74-126				
Chlorobenzene	55.81	5.0	50	0	112	79-120				
Chloroethane	57.32	10	50	0	115	76-126				
Chloroform	56.38	5.0	50	0	113	78-120				
Chloromethane	52.8	10	50	0	106	69-129				
cis-1,2-Dichloroethene	55.11	5.0	50	0	110	80-120				
cis-1,3-Dichloropropene	56.85	5.0	50	0	114	77-123				
Cyclohexane	51.69	5.0	50	0	103	74-126				
Dibromochloromethane	54.04	5.0	50	0	108	78-122				
Dichlorodifluoromethane	47.41	5.0	50	0	94.8	57-140				
Dichloromethane	47.91	10	50	0	95.8	62-130				
Ethylbenzene	58.03	5.0	50	0	116	80-122				
Isopropylbenzene	54.74	5.0	50	0	109	72-127				
m,p-Xylene	117.9	10	100	0	118	79-122				
Methyl acetate	50.57	5.0	50	0	101	69-123				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091294  
**Project:** COH-Montrose-Midtown Phase II ES 136524

## QC BATCH REPORT

Batch ID: <b>R154499</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	57.06	5.0	50	0	114	76-121	
Methylcyclohexane	52.64	5.0	50	0	105	77-126	
o-Xylene	57.29	5.0	50	0	115	80-123	
Styrene	57.52	5.0	50	0	115	78-124	
Tetrachloroethene	52.41	5.0	50	0	105	73-129	
Toluene	56.75	5.0	50	0	114	79-120	
trans-1,2-Dichloroethene	57.51	5.0	50	0	115	79-122	
trans-1,3-Dichloropropene	52.16	5.0	50	0	104	77-120	
Trichloroethene	57.01	5.0	50	0	114	80-121	
Trichlorofluoromethane	54.63	5.0	50	0	109	75-126	
Vinyl chloride	50.52	2.0	50	0	101	76-126	
Xylenes, Total	175.2	10	150	0	117	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	48.84	0	50	0	97.7	70-128	0
<i>Surr: 4-Bromofluorobenzene</i>	49.68	0	50	0	99.4	73-126	0
<i>Surr: Dibromofluoromethane</i>	50.82	0	50	0	102	71-128	0
<i>Surr: Toluene-d8</i>	48.75	0	50	0	97.5	73-127	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091294  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: R154499 Instrument ID VOA5 Method: SW8260

MS		Sample ID: 13091257-05AMS			Units: µg/Kg			Analysis Date: 9/30/2013 01:02 PM		
Client ID:		Run ID: VOA5_130930A			SeqNo: 3375497		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.94	5.0	50	0	104	79-124				
1,1,2,2-Tetrachloroethane	46.09	5.0	50	0	92.2	75-123				
1,1,2-Trichlor-1,2,2-trifluoroethane	51.75	5.0	50	0	103	79-125				
1,1,2-Trichloroethane	50.01	5.0	50	0	100	79-120				
1,1-Dichloroethane	53.63	5.0	50	0	107	75-124				
1,1-Dichloroethene	50.97	5.0	50	0	102	80-122				
1,2,4-Trichlorobenzene	52.25	5.0	50	0	104	74-128				
1,2-Dibromo-3-chloropropane	45.86	5.0	50	0	91.7	66-129				
1,2-Dibromoethane	49.46	5.0	50	0	98.9	70-120				
1,2-Dichlorobenzene	50.42	5.0	50	0	101	75-120				
1,2-Dichloroethane	51.05	5.0	50	0	102	73-121				
1,2-Dichloropropane	52.66	5.0	50	0	105	76-120				
1,3-Dichlorobenzene	52.18	5.0	50	0	104	70-125				
1,4-Dichlorobenzene	52.35	5.0	50	0	105	77-120				
2-Butanone	96.34	10	100	0	96.3	65-130				
2-Hexanone	92.21	10	100	0	92.2	65-133				
4-Methyl-2-pentanone	92.39	10	100	0	92.4	69-130				
Acetone	91.89	20	100	0	91.9	53-142				
Benzene	54.25	5.0	50	0	109	79-120				
Bromodichloromethane	50.93	5.0	50	0	102	79-121				
Bromoform	51.09	5.0	50	0	102	74-122				
Bromomethane	52.57	10	50	0	105	68-131				
Carbon disulfide	99.96	10	100	0	100	80-124				
Carbon tetrachloride	51.27	5.0	50	0	103	74-126				
Chlorobenzene	52.71	5.0	50	0	105	79-120				
Chloroethane	55.96	10	50	0	112	76-126				
Chloroform	53.43	5.0	50	0	107	78-120				
Chloromethane	50.4	10	50	0	101	69-129				
cis-1,2-Dichloroethene	52.56	5.0	50	0	105	80-120				
cis-1,3-Dichloropropene	51.83	5.0	50	0	104	77-123				
Cyclohexane	48.89	5.0	50	0	97.8	74-126				
Dibromochloromethane	51.65	5.0	50	0	103	78-122				
Dichlorodifluoromethane	43.13	5.0	50	0	86.3	57-140				
Dichloromethane	46.7	10	50	0	93.4	62-130				
Ethylbenzene	53.9	5.0	50	0	108	80-122				
Isopropylbenzene	51.93	5.0	50	0	104	72-127				
m,p-Xylene	111.3	10	100	0	111	79-122				
Methyl acetate	43.82	5.0	50	0	87.6	69-123				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091294  
**Project:** COH-Montrose-Midtown Phase II ES 136524

## QC BATCH REPORT

Batch ID: <b>R154499</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	50.2	5.0	50	0	100	76-121	
Methylcyclohexane	51.78	5.0	50	0	104	77-126	
o-Xylene	54.85	5.0	50	0	110	80-123	
Styrene	54.49	5.0	50	0	109	78-124	
Tetrachloroethene	57.84	5.0	50	0	116	73-129	
Toluene	54.76	5.0	50	0	110	79-120	
trans-1,2-Dichloroethene	54.26	5.0	50	0	109	79-122	
trans-1,3-Dichloropropene	48.83	5.0	50	0	97.7	77-120	
Trichloroethene	58.14	5.0	50	0	116	80-121	
Trichlorofluoromethane	52.24	5.0	50	0	104	75-126	
Vinyl chloride	49.92	2.0	50	0	99.8	76-126	
Xylenes, Total	166.1	10	150	0	111	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	48.99	0	50	0	98	70-128	0
<i>Surr: 4-Bromofluorobenzene</i>	51.53	0	50	0	103	73-126	0
<i>Surr: Dibromofluoromethane</i>	48.88	0	50	0	97.8	71-128	0
<i>Surr: Toluene-d8</i>	48.93	0	50	0	97.9	73-127	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091294  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: R154499 Instrument ID VOA5 Method: SW8260

MSD		Sample ID: 13091257-05AMSD			Units: µg/Kg			Analysis Date: 9/30/2013 01:26 PM		
Client ID:		Run ID: VOA5_130930A			SeqNo: 3375498		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	52.94	5.0	50	0	106	79-124	51.94	1.91	30	
1,1,2,2-Tetrachloroethane	50.54	5.0	50	0	101	75-123	46.09	9.21	30	
1,1,2-Trichlor-1,2,2-trifluoroethane	51.96	5.0	50	0	104	79-125	51.75	0.407	30	
1,1,2-Trichloroethane	52.08	5.0	50	0	104	79-120	50.01	4.05	30	
1,1-Dichloroethane	53.3	5.0	50	0	107	75-124	53.63	0.606	30	
1,1-Dichloroethene	50.47	5.0	50	0	101	80-122	50.97	0.976	30	
1,2,4-Trichlorobenzene	52.74	5.0	50	0	105	74-128	52.25	0.941	30	
1,2-Dibromo-3-chloropropane	51.99	5.0	50	0	104	66-129	45.86	12.5	30	
1,2-Dibromoethane	54.07	5.0	50	0	108	70-120	49.46	8.9	30	
1,2-Dichlorobenzene	52.81	5.0	50	0	106	75-120	50.42	4.63	30	
1,2-Dichloroethane	52.57	5.0	50	0	105	73-121	51.05	2.92	30	
1,2-Dichloropropane	56.23	5.0	50	0	112	76-120	52.66	6.57	30	
1,3-Dichlorobenzene	55.42	5.0	50	0	111	70-125	52.18	6.02	30	
1,4-Dichlorobenzene	53.87	5.0	50	0	108	77-120	52.35	2.87	30	
2-Butanone	108.7	10	100	0	109	65-130	96.34	12.1	30	
2-Hexanone	110.5	10	100	0	110	65-133	92.21	18	30	
4-Methyl-2-pentanone	109.6	10	100	0	110	69-130	92.39	17.1	30	
Acetone	116.7	20	100	0	117	53-142	91.89	23.8	30	
Benzene	57.24	5.0	50	0	114	79-120	54.25	5.36	30	
Bromodichloromethane	55.13	5.0	50	0	110	79-121	50.93	7.92	30	
Bromoform	55.21	5.0	50	0	110	74-122	51.09	7.76	30	
Bromomethane	51.61	10	50	0	103	68-131	52.57	1.85	30	
Carbon disulfide	104.1	10	100	0	104	80-124	99.96	4.05	30	
Carbon tetrachloride	53.43	5.0	50	0	107	74-126	51.27	4.13	30	
Chlorobenzene	54.83	5.0	50	0	110	79-120	52.71	3.95	30	
Chloroethane	56.73	10	50	0	113	76-126	55.96	1.36	30	
Chloroform	55.96	5.0	50	0	112	78-120	53.43	4.62	30	
Chloromethane	51.82	10	50	0	104	69-129	50.4	2.77	30	
cis-1,2-Dichloroethene	55.31	5.0	50	0	111	80-120	52.56	5.1	30	
cis-1,3-Dichloropropene	56.22	5.0	50	0	112	77-123	51.83	8.14	30	
Cyclohexane	51.49	5.0	50	0	103	74-126	48.89	5.19	30	
Dibromochloromethane	53.56	5.0	50	0	107	78-122	51.65	3.63	30	
Dichlorodifluoromethane	44.27	5.0	50	0	88.5	57-140	43.13	2.6	30	
Dichloromethane	48	10	50	0	96	62-130	46.7	2.74	30	
Ethylbenzene	56.61	5.0	50	0	113	80-122	53.9	4.91	30	
Isopropylbenzene	53.19	5.0	50	0	106	72-127	51.93	2.39	30	
m,p-Xylene	113	10	100	0	113	79-122	111.3	1.52	30	
Methyl acetate	48.27	5.0	50	0	96.5	69-123	43.82	9.67	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091294  
**Project:** COH-Montrose-Midtown Phase II ES 136524

## QC BATCH REPORT

Batch ID: <b>R154499</b>	Instrument ID <b>VOA5</b>	Method: <b>SW8260</b>								
Methyl tert-butyl ether	54.57	5.0	50	0	109	76-121	50.2	8.35	30	
Methylcyclohexane	52.78	5.0	50	0	106	77-126	51.78	1.91	30	
o-Xylene	55.4	5.0	50	0	111	80-123	54.85	0.984	30	
Styrene	55.57	5.0	50	0	111	78-124	54.49	1.97	30	
Tetrachloroethene	63.82	5.0	50	0	128	73-129	57.84	9.84	30	
Toluene	55.51	5.0	50	0	111	79-120	54.76	1.36	30	
trans-1,2-Dichloroethene	55.44	5.0	50	0	111	79-122	54.26	2.16	30	
trans-1,3-Dichloropropene	51.12	5.0	50	0	102	77-120	48.83	4.58	30	
Trichloroethene	61.42	5.0	50	0	123	80-121	58.14	5.49	30	S
Trichlorofluoromethane	52.67	5.0	50	0	105	75-126	52.24	0.819	30	
Vinyl chloride	49.35	2.0	50	0	98.7	76-126	49.92	1.15	30	
Xylenes, Total	168.4	10	150	0	112	79-123	166.1	1.35	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	49.71	0	50	0	99.4	70-128	48.99	1.46	30	
<i>Surr: 4-Bromofluorobenzene</i>	51.28	0	50	0	103	73-126	51.53	0.489	30	
<i>Surr: Dibromofluoromethane</i>	49.59	0	50	0	99.2	71-128	48.88	1.46	30	
<i>Surr: Toluene-d8</i>	49.2	0	50	0	98.4	73-127	48.93	0.531	30	

The following samples were analyzed in this batch:

13091294-01A	13091294-03A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091294  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **R154577** Instrument ID **VOA1** Method: **SW8260**

MBLK Sample ID: **VBLKW-130930-R154577** Units: **µg/L** Analysis Date: **9/30/2013 11:43 AM**

Client ID: Run ID: **VOA1\_130930A** SeqNo: **3376091** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2-Butanone	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Cyclohexane	ND	5.0								
Dibromochloromethane	ND	5.0								
Dichlorodifluoromethane	ND	5.0								
Dichloromethane	ND	10								
Ethylbenzene	ND	5.0								
Isopropylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methyl acetate	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091294  
**Project:** COH-Montrose-Midtown Phase II ES 136524

## QC BATCH REPORT

Batch ID: <b>R154577</b>	Instrument ID <b>VOA1</b>	Method: <b>SW8260</b>						
Methyl tert-butyl ether	ND	5.0						
Methylcyclohexane	ND	5.0						
o-Xylene	ND	5.0						
Styrene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,2-Dichloroethene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Trichlorofluoromethane	ND	5.0						
Vinyl chloride	ND	2.0						
Xylenes, Total	ND	15						
<i>Surr: 1,2-Dichloroethane-d4</i>	49.6	5.0	50	0	99.2	70-125	0	
<i>Surr: 4-Bromofluorobenzene</i>	50.61	5.0	50	0	101	72-125	0	
<i>Surr: Dibromofluoromethane</i>	51.2	5.0	50	0	102	71-125	0	
<i>Surr: Toluene-d8</i>	50.28	5.0	50	0	101	75-125	0	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091294  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: R154577 Instrument ID VOA1 Method: SW8260

LCS Sample ID: VLCSW-130930-R154577 Units: µg/L Analysis Date: 9/30/2013 10:52 AM

Client ID: Run ID: VOA1\_130930A SeqNo: 3376090 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.24	5.0	50	0	98.5	80-120				
1,1,2,2-Tetrachloroethane	50.77	5.0	50	0	102	72-120				
1,1,2-Trichlor-1,2,2-trifluoroethane	50.77	5.0	50	0	102	73-123				
1,1,2-Trichloroethane	49.42	5.0	50	0	98.8	80-120				
1,1-Dichloroethane	51.04	5.0	50	0	102	76-120				
1,1-Dichloroethene	52.53	5.0	50	0	105	73-124				
1,2,4-Trichlorobenzene	50.69	5.0	50	0	101	75-130				
1,2-Dibromo-3-chloropropane	51.78	5.0	50	0	104	65-125				
1,2-Dibromoethane	50.96	5.0	50	0	102	80-120				
1,2-Dichlorobenzene	50.98	5.0	50	0	102	80-120				
1,2-Dichloroethane	52.28	5.0	50	0	105	78-120				
1,2-Dichloropropane	50.75	5.0	50	0	101	80-120				
1,3-Dichlorobenzene	49.81	5.0	50	0	99.6	80-120				
1,4-Dichlorobenzene	48.34	5.0	50	0	96.7	80-120				
2-Butanone	106.5	10	100	0	106	58-132				
2-Hexanone	99.48	10	100	0	99.5	61-130				
4-Methyl-2-pentanone	101.7	10	100	0	102	65-127				
Acetone	105.5	10	100	0	106	59-137				
Benzene	50.9	5.0	50	0	102	73-121				
Bromodichloromethane	50.49	5.0	50	0	101	75-125				
Bromoform	50.1	5.0	50	0	100	70-130				
Bromomethane	44.82	5.0	50	0	89.6	60-145				
Carbon disulfide	96.33	10	100	0	96.3	68-141				
Carbon tetrachloride	49.53	5.0	50	0	99.1	75-125				
Chlorobenzene	48.41	5.0	50	0	96.8	80-120				
Chloroethane	45.39	5.0	50	0	90.8	70-130				
Chloroform	52.01	5.0	50	0	104	70-130				
Chloromethane	47.17	5.0	50	0	94.3	67-123				
cis-1,2-Dichloroethene	50.73	5.0	50	0	101	78-120				
cis-1,3-Dichloropropene	51.36	5.0	50	0	103	80-120				
Cyclohexane	47.74	5.0	50	0	95.5	66-125				
Dibromochloromethane	49.78	5.0	50	0	99.6	80-120				
Dichlorodifluoromethane	50.36	5.0	50	0	101	63-125				
Dichloromethane	49.7	10	50	0	99.4	65-133				
Ethylbenzene	46.6	5.0	50	0	93.2	80-120				
Isopropylbenzene	43.81	5.0	50	0	87.6	75-130				
m,p-Xylene	101.6	10	100	0	102	78-121				
Methyl acetate	54.02	5.0	50	0	108	60-130				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091294  
**Project:** COH-Montrose-Midtown Phase II ES 136524

## QC BATCH REPORT

Batch ID: <b>R154577</b>	Instrument ID <b>VOA1</b>	Method: <b>SW8260</b>					
Methyl tert-butyl ether	51.51	5.0	50	0	103	73-121	
Methylcyclohexane	47.66	5.0	50	0	95.3	70-122	
o-Xylene	49	5.0	50	0	98	80-120	
Styrene	49.35	5.0	50	0	98.7	80-120	
Tetrachloroethene	48.3	5.0	50	0	96.6	79-120	
Toluene	49.25	5.0	50	0	98.5	80-120	
trans-1,2-Dichloroethene	49.65	5.0	50	0	99.3	78-120	
trans-1,3-Dichloropropene	51.89	5.0	50	0	104	80-120	
Trichloroethene	51.07	5.0	50	0	102	80-120	
Trichlorofluoromethane	52.22	5.0	50	0	104	72-130	
Vinyl chloride	48.35	2.0	50	0	96.7	70-127	
Xylenes, Total	150.6	15	150	0	100	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	49.94	5.0	50	0	99.9	70-125	0
<i>Surr: 4-Bromofluorobenzene</i>	48.86	5.0	50	0	97.7	72-125	0
<i>Surr: Dibromofluoromethane</i>	49.48	5.0	50	0	99	71-125	0
<i>Surr: Toluene-d8</i>	48.73	5.0	50	0	97.5	75-125	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091294  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: R154577 Instrument ID VOA1 Method: SW8260

MS Sample ID: 13091322-01AMS Units: µg/L Analysis Date: 9/30/2013 03:31 PM

Client ID: Run ID: VOA1\_130930A SeqNo: 3376100 Prep Date: DF: 25

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1228	120	1250	0	98.2	80-120				
1,1,2,2-Tetrachloroethane	1270	120	1250	0	102	72-120				
1,1,2-Trichlor-1,2,2-trifluoroethane	1193	120	1250	0	95.5	73-123				
1,1,2-Trichloroethane	1271	120	1250	0	102	80-120				
1,1-Dichloroethane	1239	120	1250	0	99.1	76-120				
1,1-Dichloroethene	1185	120	1250	0	94.8	73-124				
1,2,4-Trichlorobenzene	1179	120	1250	0	94.3	75-130				
1,2-Dibromo-3-chloropropane	1272	120	1250	0	102	65-125				
1,2-Dibromoethane	1300	120	1250	0	104	80-120				
1,2-Dichlorobenzene	1213	120	1250	0	97	80-120				
1,2-Dichloroethane	1314	120	1250	0	105	78-120				
1,2-Dichloropropane	1322	120	1250	0	106	80-120				
1,3-Dichlorobenzene	1182	120	1250	0	94.5	80-120				
1,4-Dichlorobenzene	1190	120	1250	0	95.2	80-120				
2-Butanone	2818	250	2500	0	113	58-132				
2-Hexanone	2672	250	2500	0	107	61-130				
4-Methyl-2-pentanone	2714	250	2500	0	109	65-127				
Acetone	2461	250	2500	0	98.4	59-137				
Benzene	1310	120	1250	0	105	73-121				
Bromodichloromethane	1314	120	1250	0	105	75-125				
Bromoform	1276	120	1250	0	102	70-130				
Bromomethane	1146	120	1250	0	91.7	60-145				
Carbon disulfide	2489	250	2500	0	99.6	68-141				
Carbon tetrachloride	1236	120	1250	0	98.9	75-125				
Chlorobenzene	1255	120	1250	17.66	99	80-120				
Chloroethane	1199	120	1250	0	96	70-130				
Chloroform	2241	120	1250	994.1	99.7	70-130				
Chloromethane	1123	120	1250	0	89.9	67-123				
cis-1,2-Dichloroethene	1289	120	1250	0	103	78-120				
cis-1,3-Dichloropropene	1324	120	1250	0	106	80-120				
Cyclohexane	1250	120	1250	0	100	66-125				
Dibromochloromethane	1278	120	1250	0	102	80-120				
Dichlorodifluoromethane	977.7	120	1250	0	78.2	63-125				
Dichloromethane	1295	250	1250	0	104	65-133				
Ethylbenzene	1209	120	1250	0	96.7	80-120				
Isopropylbenzene	1187	120	1250	0	95	75-130				
m,p-Xylene	2525	250	2500	0	101	78-121				
Methyl acetate	1302	120	1250	0	104	60-130				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091294  
**Project:** COH-Montrose-Midtown Phase II ES 136524

## QC BATCH REPORT

Batch ID: <b>R154577</b>	Instrument ID <b>VOA1</b>		Method: <b>SW8260</b>				
Methyl tert-butyl ether	1143	120	1250	0	91.5	73-121	
Methylcyclohexane	1129	120	1250	0	90.4	70-122	
o-Xylene	1216	120	1250	0	97.3	80-120	
Styrene	1233	120	1250	0	98.6	80-120	
Tetrachloroethene	1140	120	1250	0	91.2	79-120	
Toluene	1162	120	1250	0	92.9	80-120	
trans-1,2-Dichloroethene	1227	120	1250	0	98.1	78-120	
trans-1,3-Dichloropropene	1327	120	1250	0	106	80-120	
Trichloroethene	1310	120	1250	0	105	80-120	
Trichlorofluoromethane	1158	120	1250	0	92.6	72-130	
Vinyl chloride	1219	50	1250	0	97.5	70-127	
Xylenes, Total	3741	380	3750	0	99.8	80-120	
<i>Surr: 1,2-Dichloroethane-d4</i>	1241	120	1250	0	99.3	70-125	0
<i>Surr: 4-Bromofluorobenzene</i>	1240	120	1250	0	99.2	72-125	0
<i>Surr: Dibromofluoromethane</i>	1294	120	1250	0	104	71-125	0
<i>Surr: Toluene-d8</i>	1190	120	1250	0	95.2	75-125	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091294  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: R154577 Instrument ID VOA1 Method: SW8260

MSD		Sample ID: 13091322-01AMSD			Units: µg/L			Analysis Date: 9/30/2013 03:56 PM		
Client ID:		Run ID: VOA1_130930A			SeqNo: 3376101		Prep Date:		DF: 25	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1177	120	1250	0	94.2	80-120	1228	4.23	20	
1,1,2,2-Tetrachloroethane	1259	120	1250	0	101	72-120	1270	0.844	20	
1,1,2-Trichlor-1,2,2-trifluoroethane	1186	120	1250	0	94.9	73-123	1193	0.637	20	
1,1,2-Trichloroethane	1314	120	1250	0	105	80-120	1271	3.29	20	
1,1-Dichloroethane	1260	120	1250	0	101	76-120	1239	1.64	20	
1,1-Dichloroethene	1212	120	1250	0	97	73-124	1185	2.25	20	
1,2,4-Trichlorobenzene	1173	120	1250	0	93.8	75-130	1179	0.49	20	
1,2-Dibromo-3-chloropropane	1382	120	1250	0	111	65-125	1272	8.29	20	
1,2-Dibromoethane	1304	120	1250	0	104	80-120	1300	0.354	20	
1,2-Dichlorobenzene	1183	120	1250	0	94.6	80-120	1213	2.47	20	
1,2-Dichloroethane	1212	120	1250	0	97	78-120	1314	8.06	20	
1,2-Dichloropropane	1201	120	1250	0	96.1	80-120	1322	9.55	20	
1,3-Dichlorobenzene	1170	120	1250	0	93.6	80-120	1182	1.01	20	
1,4-Dichlorobenzene	1151	120	1250	0	92.1	80-120	1190	3.33	20	
2-Butanone	2716	250	2500	0	109	58-132	2818	3.68	20	
2-Hexanone	2647	250	2500	0	106	61-130	2672	0.925	20	
4-Methyl-2-pentanone	2795	250	2500	0	112	65-127	2714	2.96	20	
Acetone	2594	250	2500	0	104	59-137	2461	5.27	20	
Benzene	1200	120	1250	0	96	73-121	1310	8.74	20	
Bromodichloromethane	1260	120	1250	0	101	75-125	1314	4.14	20	
Bromoform	1280	120	1250	0	102	70-130	1276	0.358	20	
Bromomethane	1128	120	1250	0	90.2	60-145	1146	1.61	20	
Carbon disulfide	2387	250	2500	0	95.5	68-141	2489	4.2	20	
Carbon tetrachloride	1153	120	1250	0	92.2	75-125	1236	6.92	20	
Chlorobenzene	1247	120	1250	17.66	98.3	80-120	1255	0.673	20	
Chloroethane	1149	120	1250	0	91.9	76-121	1199	4.31	20	
Chloroform	2149	120	1250	994.1	92.4	70-130	2241	4.18	20	
Chloromethane	1090	120	1250	0	87.2	67-123	1123	3	20	
cis-1,2-Dichloroethene	1215	120	1250	0	97.2	78-120	1289	5.87	20	
cis-1,3-Dichloropropene	1219	120	1250	0	97.5	80-120	1324	8.27	20	
Cyclohexane	1131	120	1250	0	90.5	66-125	1250	9.99	20	
Dibromochloromethane	1247	120	1250	0	99.7	80-120	1278	2.49	20	
Dichlorodifluoromethane	984.3	120	1250	0	78.7	63-125	977.7	0.671	20	
Dichloromethane	1241	250	1250	0	99.3	65-133	1295	4.29	20	
Ethylbenzene	1209	120	1250	0	96.7	80-120	1209	0.0247	20	
Isopropylbenzene	1185	120	1250	0	94.8	75-130	1187	0.165	20	
m,p-Xylene	2392	250	2500	0	95.7	78-121	2525	5.41	20	
Methyl acetate	1359	120	1250	0	109	60-130	1302	4.27	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Work Order:** 13091294  
**Project:** COH-Montrose-Midtown Phase II ES 136524

## QC BATCH REPORT

Batch ID: <b>R154577</b>	Instrument ID <b>VOA1</b>		Method: <b>SW8260</b>							
Methyl tert-butyl ether	1188	120	1250	0	95.1	73-121	1143	3.88	20	
Methylcyclohexane	1087	120	1250	0	87	70-122	1129	3.8	20	
o-Xylene	1221	120	1250	0	97.7	80-120	1216	0.404	20	
Styrene	1244	120	1250	0	99.6	80-120	1233	0.93	20	
Tetrachloroethene	1177	120	1250	0	94.2	79-120	1140	3.21	20	
Toluene	1198	120	1250	0	95.9	80-120	1162	3.1	20	
trans-1,2-Dichloroethene	1187	120	1250	0	95	78-120	1227	3.26	20	
trans-1,3-Dichloropropene	1264	120	1250	0	101	80-120	1327	4.91	20	
Trichloroethene	1223	120	1250	0	97.9	80-120	1310	6.86	20	
Trichlorofluoromethane	1150	120	1250	0	92	72-130	1158	0.704	20	
Vinyl chloride	1187	50	1250	0	95	70-127	1219	2.65	20	
Xylenes, Total	3613	380	3750	0	96.3	78-121	3741	3.49	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	1265	120	1250	0	101	70-125	1241	1.91	20	
<i>Surr: 4-Bromofluorobenzene</i>	1176	120	1250	0	94.1	72-125	1240	5.25	20	
<i>Surr: Dibromofluoromethane</i>	1239	120	1250	0	99.1	71-125	1294	4.33	20	
<i>Surr: Toluene-d8</i>	1230	120	1250	0	98.4	75-125	1190	3.33	20	

The following samples were analyzed in this batch:

13091294-02A	13091294-06A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091294  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: **R154629** Instrument ID **VOA5** Method: **SW8260**

**MBLK** Sample ID: **VBLKS1-100213-R154629** Units: **µg/Kg** Analysis Date: **10/2/2013 10:17 AM**

Client ID: Run ID: **VOA5\_131002A** SeqNo: **3378156** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methyl tert-butyl ether	ND	5.0								
o-Xylene	ND	5.0								
Toluene	ND	5.0								
Xylenes, Total	ND	10								
<i>Surr: 1,2-Dichloroethane-d4</i>	45.93	0	50	0	91.9	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.89	0	50	0	97.8	73-126	0			
<i>Surr: Dibromofluoromethane</i>	48.4	0	50	0	96.8	71-128	0			
<i>Surr: Toluene-d8</i>	48.87	0	50	0	97.7	73-127	0			

**LCS** Sample ID: **VLCSS1-100213-R154629** Units: **µg/Kg** Analysis Date: **10/2/2013 09:06 AM**

Client ID: Run ID: **VOA5\_131002A** SeqNo: **3378155** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.55	5.0	50	0	97.1	79-120				
Ethylbenzene	49.42	5.0	50	0	98.8	80-122				
m,p-Xylene	100.4	10	100	0	100	79-122				
Methyl tert-butyl ether	45.73	5.0	50	0	91.5	76-121				
o-Xylene	48.29	5.0	50	0	96.6	80-123				
Toluene	48.27	5.0	50	0	96.5	79-120				
Xylenes, Total	148.7	10	150	0	99.1	80-120				
<i>Surr: 1,2-Dichloroethane-d4</i>	49.46	0	50	0	98.9	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.61	0	50	0	97.2	73-126	0			
<i>Surr: Dibromofluoromethane</i>	50.44	0	50	0	101	71-128	0			
<i>Surr: Toluene-d8</i>	49.25	0	50	0	98.5	73-127	0			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091294  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: R154629 Instrument ID VOA5 Method: SW8260

MS		Sample ID: 13091294-04AMS			Units: µg/Kg		Analysis Date: 10/2/2013 11:50 AM			
Client ID: B-37 (14-16)		Run ID: VOA5_131002A			SeqNo: 3378160		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	41.16	5.0	50	0	82.3	79-120				
Ethylbenzene	42.6	5.0	50	0	85.2	80-122				
m,p-Xylene	86.35	10	100	0	86.3	79-122				
Methyl tert-butyl ether	38.85	5.0	50	0	77.7	76-121				
o-Xylene	42.43	5.0	50	0	84.9	80-123				
Toluene	42.24	5.0	50	0	84.5	79-120				
Xylenes, Total	128.8	10	150	0	85.8	80-120				
Surr: 1,2-Dichloroethane-d4	47.78	0	50	0	95.6	70-128	0			
Surr: 4-Bromofluorobenzene	51.67	0	50	0	103	73-126	0			
Surr: Dibromofluoromethane	49.51	0	50	0	99	71-128	0			
Surr: Toluene-d8	49.17	0	50	0	98.3	73-127	0			

MSD		Sample ID: 13091294-04AMSD			Units: µg/Kg		Analysis Date: 10/2/2013 12:14 PM			
Client ID: B-37 (14-16)		Run ID: VOA5_131002A			SeqNo: 3378161		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.11	5.0	50	0	100	79-120	41.16	19.6	30	
Ethylbenzene	51.57	5.0	50	0	103	80-122	42.6	19	30	
m,p-Xylene	103.7	10	100	0	104	79-122	86.35	18.2	30	
Methyl tert-butyl ether	45.89	5.0	50	0	91.8	76-121	38.85	16.6	30	
o-Xylene	50.09	5.0	50	0	100	80-123	42.43	16.6	30	
Toluene	49.66	5.0	50	0	99.3	79-120	42.24	16.1	30	
Xylenes, Total	153.8	10	150	0	103	79-123	128.8	17.7	30	
Surr: 1,2-Dichloroethane-d4	47.06	0	50	0	94.1	70-128	47.78	1.52	30	
Surr: 4-Bromofluorobenzene	50.73	0	50	0	101	73-126	51.67	1.84	30	
Surr: Dibromofluoromethane	50.07	0	50	0	100	71-128	49.51	1.12	30	
Surr: Toluene-d8	49.96	0	50	0	99.9	73-127	49.17	1.59	30	

The following samples were analyzed in this batch:

13091294-04A	13091294-05A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091294  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: R154717 Instrument ID VOA5 Method: SW8260

MBLK Sample ID: VBLKS1-100313-R154717 Units: µg/Kg Analysis Date: 10/3/2013 09:30 AM

Client ID: Run ID: VOA5\_131003A SeqNo: 3379316 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methyl tert-butyl ether	ND	5.0								
o-Xylene	ND	5.0								
Toluene	ND	5.0								
Xylenes, Total	ND	10								
Surr: 1,2-Dichloroethane-d4	45.94	0	50	0	91.9	70-128	0			
Surr: 4-Bromofluorobenzene	48.37	0	50	0	96.7	73-126	0			
Surr: Dibromofluoromethane	48.93	0	50	0	97.9	71-128	0			
Surr: Toluene-d8	48.17	0	50	0	96.3	73-127	0			

LCS Sample ID: VLCSS1-100313-R154717 Units: µg/Kg Analysis Date: 10/3/2013 08:20 AM

Client ID: Run ID: VOA5\_131003A SeqNo: 3379315 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	52.47	5.0	50	0	105	79-120				
Ethylbenzene	53.77	5.0	50	0	108	80-122				
m,p-Xylene	106.4	10	100	0	106	79-122				
Methyl tert-butyl ether	52.94	5.0	50	0	106	76-121				
o-Xylene	51.91	5.0	50	0	104	80-123				
Toluene	51.44	5.0	50	0	103	79-120				
Xylenes, Total	158.4	10	150	0	106	80-120				
Surr: 1,2-Dichloroethane-d4	48.72	0	50	0	97.4	70-128	0			
Surr: 4-Bromofluorobenzene	49.67	0	50	0	99.3	73-126	0			
Surr: Dibromofluoromethane	50.34	0	50	0	101	71-128	0			
Surr: Toluene-d8	47.09	0	50	0	94.2	73-127	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Kleinfelder  
 Work Order: 13091294  
 Project: COH-Montrose-Midtown Phase II ES 136524

# QC BATCH REPORT

Batch ID: R154717 Instrument ID VOA5 Method: SW8260

MS		Sample ID: 13091332-02AMS			Units: µg/Kg			Analysis Date: 10/3/2013 11:05 AM		
Client ID:		Run ID: VOA5_131003A			SeqNo: 3379844		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	53.52	5.0	50	0	107	79-120				
Ethylbenzene	54.64	5.0	50	0	109	80-122				
m,p-Xylene	111.7	10	100	0	112	79-122				
Methyl tert-butyl ether	49.52	5.0	50	0	99	76-121				
o-Xylene	54.54	5.0	50	0	109	80-123				
Toluene	55.91	5.0	50	0	112	79-120				
Xylenes, Total	166.2	10	150	0	111	80-120				
Surr: 1,2-Dichloroethane-d4	47.69	0	50	0	95.4	70-128	0			
Surr: 4-Bromofluorobenzene	52.55	0	50	0	105	73-126	0			
Surr: Dibromofluoromethane	50.56	0	50	0	101	71-128	0			
Surr: Toluene-d8	50.06	0	50	0	100	73-127	0			

MSD		Sample ID: 13091332-02AMSD			Units: µg/Kg			Analysis Date: 10/3/2013 11:52 AM		
Client ID:		Run ID: VOA5_131003A			SeqNo: 3379845		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	58.22	5.0	50	0	116	79-120	53.52	8.4	30	
Ethylbenzene	58.84	5.0	50	0	118	80-122	54.64	7.4	30	
m,p-Xylene	118.9	10	100	0	119	79-122	111.7	6.22	30	
Methyl tert-butyl ether	53.58	5.0	50	0	107	76-121	49.52	7.87	30	
o-Xylene	57.69	5.0	50	0	115	80-123	54.54	5.61	30	
Toluene	57.19	5.0	50	0	114	79-120	55.91	2.26	30	
Xylenes, Total	176.5	10	150	0	118	79-123	166.2	6.02	30	
Surr: 1,2-Dichloroethane-d4	46.67	0	50	0	93.3	70-128	47.69	2.15	30	
Surr: 4-Bromofluorobenzene	48.72	0	50	0	97.4	73-126	52.55	7.57	30	
Surr: Dibromofluoromethane	50.35	0	50	0	101	71-128	50.56	0.409	30	
Surr: Toluene-d8	48.21	0	50	0	96.4	73-127	50.06	3.77	30	

The following samples were analyzed in this batch:

13091294-07A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Kleinfelder  
**Project:** COH-Montrose-Midtown Phase II ES 136524  
**WorkOrder:** 13091294

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
µg/Kg	Micrograms per Kilogram
µg/L	Micrograms per Liter
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter





Cincinnati, OH  
+1 513 733 5336  
Everett, WA  
+1 425 356 2600

Fort Collins, CO  
+1 970 490 1511  
Holland, MI  
+1 616 399 6070

# Chain of Custody Form

Page 1 of 1

# 13091294

CORRIGAN-HOU: Kleinfelder

Project: COH-Montrose-Midtown Phase II ES 136524

COC ID: 87862

## Environmental

## ALS Project Manager:



Customer Information				Project Information			
Purchase Order	Project Name	COH-Montrose-Midtown Phase II ES		A	BTEX/MTBE (8260)		
Work Order	Project Number	136524		B	TPH (TX1005)		
Company Name	Bill To Company	Kleinfelder		C	PCBs (8082)		
Send Report To	Invoice Attn	Jordan Smith		D	Moisture		
Address	Address	12000 Aerospace Ave. Suite 450		E	VOC 8260 TCL		
City/State/Zip	City/State/Zip	Houston, TX 77034		F			
Phone	Phone	(281) 922-4766		G			
Fax	Fax	(281) 922-4767		H			
e-Mail Address	e-Mail Address			I			
				J			

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B-34 (24-26)	9/27/13	8:35	soil	8	2		X			X						
2	B-34		8:45	w	8,1	6		X			X						
3	B-36 (20-22)		10:10	soil	8	2		X			X						
4	B-37 (14-16)		11:15	soil	8	3		X			X						
5	B-38 (20-22)		12:05	soil	8	3		X			X						
6	B-38		12:15	w	8,1	8		X			X						
7	B-39		14:15	soil	8	3		X			X						
8	Trip Blank																X
9																	
10																	

Warren Brown, Dan Brown

Requested by: Warren Brown, Dan Brown  
 Date: 9/27/13  
 Time: 1527

Relinquished by: [Signature]  
 Date: 9/27/13  
 Time: 1527

Logged by (Laboratory): [Signature]  
 Date: 9/27/13  
 Time: 1527

Preservative Key: 1-HCl 2-HNO<sub>3</sub> 3-H<sub>2</sub>SO<sub>4</sub> 4-NaOH 5-Na<sub>2</sub>S<sub>2</sub>O<sub>8</sub> 6-NaHSO<sub>3</sub> 7-Other 8-4°C 9-5035

Shipment Method: [Blank]

Required Turnaround Time: (Check Box)  
 Std 10 WK Days  
 5 WK Days  
 2 WK Days  
 24-Hour  
 Other: [Blank]

QC Package: (Check One Box Below)  
 Level II Std QC  
 Level III Std QC/Flow Data  
 Level IV SW846/CLP  
 Other / EDD

Results Due Date: [Blank]

Cooler ID: 1911  
 Cooler Temp: [Blank]

Notes: [Blank]

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.  
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.  
 3. The Chain of Custody is a legal document. All information must be completed accurately.



# **APPENDIX F**

Waste Disposal Documentation

SeaBreeze Environmental LF  
 10310 FM-523  
 Angleton, TX 77515

000282 GAINCO, INC.  
 P. O. BOX 309  
 PORTLAND TX 78374

01	00259608	LOOSE		Rosalinda J	
DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/31/13	10/31/13	08:16	08:36	PICK UP	13-1122
REFERENCE			ORIGIN		
13-1122DR					

Scale 2 Gross Wt. 15860 LB  
 Scale 3 Tare Wt. 13580 LB  
 Net Weight 2280 LB

Inbound - Charge ticket

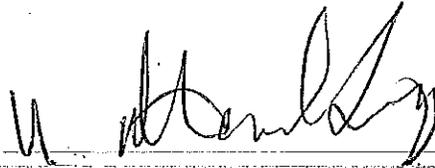
QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
5.00	UNIT	C2 DRUM				

PHONE: (979)864-4442

Comment: CITY OF HOUSTON  
 NOTES: C2-SOIL CUTTINGS

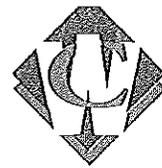
Manifest: 64510

SIGNATURE



NET AMOUNT
TENDERED
CHANGE
CHECK NO.

KLE 13-36007



Pickup 64510  
 15800

WASTE CONNECTIONS OF TEXAS

### WASTE MANIFEST NON-HAZARDOUS

GENERATOR INFORMATION		CUSTOMER/BILLING INFORMATION	
Generator Name: CITY OF HOUSTON		Billing Name: GAINCO, INC.	
Address: P.O. BOX 61189		Address: P.O. BOX 309	
City: HOUSTON	Country:	City: PORTLAND	Country:
State: TX	Zip: 77208	State: TX	Zip: 78374
Site Location (if different): 850 Gillette Street, Houston 77019		RSI Customer #: 0000282	

Approval Number	Description of Waste	Volume/Weight	Expiration Date	Container Type
13-1122	SOIL CUTTING	5	10/16/2014	DM

\*Attach Additional Sheet if necessary.

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 cfr 261 or any applicable state law. Further, that the above named materials are probably classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Warren Brown  
 Generator/Authorized Agent Name

X [Signature]  
 Signature

Date Shipped

### TRANSPORTER INFORMATION

Transporter Name: GAINCO, INC. EPA ID Number: \_\_\_\_\_  
 Address: 900 FLOERKE ROAD Truck Number: \_\_\_\_\_  
 PORTLAND TX 78374 Phone Number: 361-543-4378

I certify no hazardous waste or other regulated substance was knowingly introduced to the waste while in my custody. The waste transported in this vehicle is the waste identified above, to the best of my knowledge.

Name of Authorized Agent X [Signature] Date Delivered 10-3-13

### DISPOSAL SITE INFORMATION

Site Name: Seabreeze Environmental Landfill Landfill Permit #: 1539A  
 Address: 10310 FM523, Angleton, TX 77515 Phone Number: 979.864.4442

I hereby acknowledge receipt of the above described materials Tons Received \_\_\_\_\_

Name (Print or Type) X [Signature] Date Received 10-3-13

LANDFILL