Introduction

On May 23, 2006, an addendum work plan was submitted to the EPA to perform pipeline clean out and abandonment activities, in compliance with the approved Removal Action Work Plan for the Falcon Refinery Superfund Site, which is dated June 29, 2004. After reviewing the work plan, the EPA On-Scene Coordinator (OSC) approved the plan with required changes. A map showing the locations of the initial pipeline cuts can be found in Figure 1. Pipeline details for the initial cut points, which were at point where the pipelines go underground near Bishop Avenue and adjacent to Sunray Road, are also provided on Figure 1. The results of the initial pipeline clean out activities were reported in Addendum No.1a, which was submitted on December 15, 2006.

The initial pipeline clean out included pigging and vacuuming the pipelines from near Bishop Avenue to the Sunray Road location. At the Sunray Road location, the pipelines were also vacuumed from Sunray Road to the former barge dock facility.

To complete the pipeline clean out, NORCO hired a contractor to locate and stake the exact location of the former barge dock facility and submitted a plan to ensure that all fluid was removed from the pipelines from Sunray Road to the former barge dock facility. This report describes the completion of the pipeline clean out.

During the second pipeline cleanout, the EPA, Kleinfelder and the contractor decided that the pipelines leading from the former barge dock were at a higher elevation that the area where the jetting of the pipelines (toward the wetland area) was performed and that any liquids present between the former dock and the jetting area would be retrieved at the excavation. The concurrence was that the lines leading from the former dock to the excavation area in the wetlands were adequately cleaned. These activities will be discussed in this report.

The EPA OSC was provided five days notice of the pipeline cleanout and abandonment.

Safety and Health

Prior to each day's activities, a safety tailgate meeting was held and the procedures outlined in the approved Safety and Health Plan were followed. On-site safety equipment for the pipeline clean out and abandonment included hard hats, steel toe boots, gloves, safety glasses, an explosive meter, photoionization detector (PID), fire extinguishers, absorbent material, oil booms and a first aid kit. Paul Supak (Kleinfelder) was the designated Site Safety Officer for the pipeline activities. All on site personnel had 40-hour HAZWOPER training and valid 8-hour refresher training. Personal protective equipment (PPE) also included organic vapor respirators.

No excavations extended deeper than four feet and as a result shoring was not required.

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Pipeline Cleanout Activities

Under the supervision of Kleinfelder, USA Environmental, L.P. (USA) performed pipeline cleanout activities from May 7, 2007 to May 18, 2007.

USA (Casey Wills, Darren Billiot) arrived on site on May 7, 2007 and met with Paul Supak (Kleinfelder) who provided USA with the approved Site Specific Health and Safety Plan.

The following chronology of activities is provided.

Monday, May 7 and Tuesday May 8

Prior to the initiation of field activities, the on-site personnel, which included Paul Supak (Kleinfelder), Casey Wills (USA) and Darren Billiot (USA), held a site safety meeting and discussed the location and the telephone numbers of emergency services. Prior to mobilizing a line locator had been called and utilities in the area were marked. After the safety meeting, a thorough site reconnaissance was performed

USA began excavating at Area 1 (Figure 1) and only one pipeline was located in the excavation (Photo 1). A new location approximately 100 ft inland was selected and designated as Area 2. Again, only one line was located in the excavation. A third location was selected approximately 600 ft from area 2 and designated as Area 3. Ten pipelines were exposed at the Area 3 location (Photo 2).

Representatives of the EPA (Rafael Casanova), TCEQ (Phil Winsor), and USFW (Tammy Ash), who were present at the site, expressed their preference to excavate and perform the pipeline clean out in the wetlands at a location designated as Area 4 (Photo 3). This area was then excavated and 10 pipelines were located at a depth of approximately four feet. The pipelines consisted of one 12-inch, three 10-inch, four 8-inch and two 6-inch pipelines as shown in the pipeline detail for Area 4 on Figure 1.

Area 4 had been the location of a previous pipeline release and during excavating, hydrocarbon stained sediment and soil was evident (Photo 4). Excavation material was sampled on May 8, 2007 (EXC 1) and sent to STL for analysis (Appendix 1) of volatile organic compounds (VOC), semi-volatile compounds (SVOC) and total petroleum hydrocarbons (TPH). Several potential constituents of concern were detected.

Water from the wetlands seeped into the excavation and a vacuum truck was used to remove the water and hydrocarbons (Photo 5).

Several of the pipelines had circular saw holes already cut into them from a previous release investigation. The 12-inch pipeline had approximately a 4-foot section cut out, with plugs inserted into each end.

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Prior to cutting any pipelines, holes were drilled into the tops of the pipelines that were not already cut to determine if liquid was present. A vacuum truck was on site to remove fluids that seeped into the excavation and fluid from the pipelines. All the pipelines lines were filled with water with the exception of first 10-inch pipeline (from the left as shown on the pipeline detail on Figure 1) the 12-inch, which was dry and the third 8-inch pipeline, which contained oil. Also prior to cutting, all lines were checked for explosive vapors and all levels were acceptable. USA cut six to eight foot sections out of each pipeline.

Wednesday May 9 and Wednesday May 18

Prior to the initiation of field activities, the on-site personnel, which included Paul Supak (Kleinfelder), Casey Wills (USA) and Darren Billiot (USA) and personnel from Shoreline Plumbing, held a site safety meeting and discussed the location and the telephone numbers of emergency services and thoroughly discussed project safety.

Pipeline cutting continued (Photo 6) on the morning of the 9th and the plan to insert a camera to inspect the contents of the pipelines was abandoned due to the poor conditions of the pipelines and oily waste. A conference was held at the site with the EPA and state trustees and the decision was made to jet out the contents of the pipelines with fresh water. Excavated soil that was dry was initially placed on plastic (Photo 7) and then transferred to a roll-off box (Photo 8) pending classification and disposal. Impacted soil and sediment were removed from the excavation pit and placed into a roll-off box.

On May 9th at 3:45 Shoreline Plumbing began water-jetting the pipelines (Photos 9 and 10) from the excavation area to the previous pipeline capping point near Sunray Rd. The distance was approximately 600 ft. The 8-inch pipeline, which contained oil, was cleaned three times and the 10-inch pipeline, which contained diesel, was cleaned twice and the remaining lines were cleaned on the first pass. EPA Remedial Project manager, Rafael Casanova, was on site during the water-jetting procedures and indicated satisfaction with the pipeline cleanout.

After the cleanout, foam plugs were inserted into the ends of each pipe and the ends were then filled with concrete (Photo 11).

After waste characterization and waste facility authorization, the wet soil and sediment were sent to US Ecology in Robstown and the dry soil to the El Centro landfill for disposal. Approximately 15 cubic yards went to each of the facilities on May 18th.

A sample from the excavation bottom was taken on May 11, 2007 (Floor 1) and the results, are provided in Appendix 2.

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Project Completion

After all fluid and visually impacted soil and sediment were removed and verified with analytical results 85% of the excavation pit was backfilled with material provided by Offshore Specialty. The remaining 15% was filled with sand purchased from Coast Materials Inc. (2 truckloads).

All removed fluids were off-loaded into Tank 27 at the Falcon Refinery. The total removed fluid was approximately 27,000 gallons, which included water that seeped into the excavation, fluids from the pipelines and clean water provided by Offshore Specialty to jet the pipelines.

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APPENDIX 1

STL

ANALYTICAL REPORT

Job Number: 560-4594-1

Job Description: Falcon Refinery/59752

For:
Kleinfelder Inc
3601 Manor Road
Austin, TX 78723

Attention: Mr. Steve Halasz

Timothy L. Kellogg
Project Manager II
tkellogg@stl-inc.com
05/10/2007

Project Manager: Timothy L. Kellogg

The test results entered in this report meet all NELAC requirements for accredited parameters. Any exceptions to NELAC requirements are noted in the report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. STL Corpus Christi Certifications and Approvals: NELAC TX T104704210-06-TX, NELAC KS E-10362, NELAC LA 03034, Oklahoma 9968, USDA Soil Permit S-42935 Revised.

Volatile Organic Compounds (VOC) Analysis (EPA 8260B)

It was noted during the analysis that some of the matrix spike and matrix spike duplicate (MS/MSD) recoveries for STL Corpus Christi sample 560-4594-1 were outside of the normal laboratory acceptance criteria. It is suspected that the recoveries are due to matrix interferences inherent to the sample. All of the rest of the associated quality control for this analysis was acceptable.

EXECUTIVE SUMMARY - Detections

Client: Kleinfelder Inc

Job Number: 560-4594-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
560-4594-1	**EXC 1 SAND**					
Benzene		24		5.8	ug/Kg	8260B
Carbon disulfide		0.81	J	5.8	ug/Kg	8260B
Ethylbenzene		11		5.8	ug/Kg	8260B
Methyl Ethyl Ketone		2.0	J	12	ug/Kg	8260B
Toluene		2.4	J	5.8	ug/Kg	8260B
1,3,5-Trimethylbenzene		12		5.8	ug/Kg	8260B
1,2,4-Trimethylbenzene		38		5.8	ug/Kg	8260B
Xylenes, Total		23		17	ug/Kg	8260B
Benzo[a]anthracene		410		390	ug/Kg	8270C
Benzo[a]pyrene		300	J	390	ug/Kg	8270C
Benzo[b]fluoranthene		260	J	390	ug/Kg	8270C
Benzo[g,h,i]perylene		190	J	390	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		640		390	ug/Kg	8270C
Chrysene		990		390	ug/Kg	8270C
Dibenz(a,h)anthracene		64	J	390	ug/Kg	8270C
Di-n-octyl phthalate		180	J	390	ug/Kg	8270C
Fluoranthene		100	J	390	ug/Kg	8270C
Fluorene		96	J	390	ug/Kg	8270C
2-Methylnaphthalene		79	J	390	ug/Kg	8270C
Naphthalene		110	J	390	ug/Kg	8270C
Phenanthrene		300	J	390	ug/Kg	8270C
Pyrene		350	J	390	ug/Kg	8270C
>C12-C28		210		59	mg/Kg	TX 1005
>C28-C35		120		59	mg/Kg	TX 1005
Total Petroleum Hydrocarbons (C6-C35)		330		59	mg/Kg	TX 1005
Percent Moisture		15		0.010	%	PercentMoisture
Percent Solids		85		0.010	%	PercentMoisture

METHOD SUMMARY

Client: Kleinfelder Inc

Job Number: 560-4594-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS	STL CC	SW846 8260B	
Purge and Trap for Solids	STL CC		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	STL CC	SW846 8270C	
Ultrasonic Extraction	STL CC		SW846 3550B
TPH by Texas 1005	STL CC	TCEQ TX 1005	
TPH by Texas 1005 Solid Prep	STL CC		TCEQ TX_1005_S_Prep
Percent Moisture	STL CC	EPA PercentMoisture	

LAB REFERENCES:

STL CC = STL Corpus Christi

METHOD REFERENCES:

EPA - US Environmental Protection Agency

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TCEQ - Texas Commission of Environmental Quality

METHOD / ANALYST SUMMARY

Client: Kleinfelder Inc

Job Number: 560-4594-1

Method	Analyst	Analyst ID
SW846 8260B	Newman, David	DN
SW846 8270C	Fisher, Gayland E	GEF
TCEQ TX 1005	Cady, Iryna M	IMC
EPA PercentMoisture	Henny, April	AH

SAMPLE SUMMARY

Client: Kleinfelder Inc

Job Number: 560-4594-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
560-4594-1	EXC 1 Sand	Solid	05/08/2007 0730	05/08/2007 0951

Client: Kleinfelder Inc

Job Number: 560-4594-1

Client Sample ID: **EXC 1 Sand**

Lab Sample ID: 560-4594-1
Client Matrix: Solid
% Moisture: 14.9
Date Sampled: 05/08/2007 0730
Date Received: 05/08/2007 0951

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/09/2007 1515
Date Prepared: 05/09/2007 1515

Analysis Batch: 560-11285

Instrument ID: Agilent GCMS [Method
Lab File ID: 05090713.D
Initial Weight/Volume: 5.07 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		ND		5.8	23
Acetonitrile		ND		5.8	58
Acrolein		ND		5.8	58
Acrylonitrile		ND		5.8	58
Benzene		24		0.58	5.8
Bromoform		ND		0.58	5.8
Bromomethane		ND		0.39	5.8
Carbon disulfide		0.81	J	0.35	5.8
Carbon tetrachloride		ND		0.58	5.8
Chlorobenzene		ND		0.58	5.8
Chlorodibromomethane		ND		0.58	5.8
Chloroethane		ND		0.58	5.8
Chloroform		ND		0.58	5.8
Chloromethane		ND		0.31	5.8
cis-1,2-Dichloroethene		ND		0.58	5.8
cis-1,3-Dichloropropene		ND		0.58	5.8
Dibromomethane		ND		0.58	5.8
Dichlorobromomethane		ND		0.58	5.8
Dichlorodifluoromethane		ND		0.58	5.8
1,1-Dichloroethane		ND		0.58	5.8
1,2-Dichloroethane		ND		0.58	5.8
1,1-Dichloroethene		ND		0.58	5.8
2,2-Dichloropropane		ND		0.58	5.8
1,2-Dichloropropane		ND		0.58	5.8
1,3-Dichloropropane		ND		0.58	5.8
1,1-Dichloropropene		ND		0.58	5.8
1,4-Dioxane		ND		11	120
Ethyl acetate		ND		0.39	5.8
Ethylbenzene		11		0.58	5.8
Ethylene Dibromide		ND		0.58	5.8
Ethyl ether		ND		0.58	5.8
Ethyl methacrylate		ND		0.58	5.8
2-Hexanone		ND		0.29	5.8
Iodomethane		ND		0.58	5.8
Methylene Chloride		ND		5.8	23
Methyl Ethyl Ketone		2.0	J	0.57	12
methyl isobutyl ketone		ND		0.58	5.8
Methyl methacrylate		ND		0.58	5.8
Methyl tert-butyl ether		ND		0.58	5.8
2-Nitropropane		ND		1.2	5.8
Styrene		ND		0.58	5.8
1,1,2,2-Tetrachloroethane		ND		0.58	5.8
Tetrachloroethene		ND		0.58	5.8

Client: Kleinfelder Inc

Job Number: 560-4594-1

Client Sample ID: **EXC 1 Sand**

Lab Sample ID: 560-4594-1
Client Matrix: Solid
% Moisture: 14.9
Date Sampled: 05/08/2007 0730
Date Received: 05/08/2007 0951

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/09/2007 1515
Date Prepared: 05/09/2007 1515

Analysis Batch: 560-11285

Instrument ID: Agilent GCMS [Method
Lab File ID: 05090713.D
Initial Weight/Volume: 5.07 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Toluene		2.4	J	0.58	5.8
trans-1,2-Dichloroethene		ND		0.58	5.8
trans-1,3-Dichloropropene		ND		0.58	5.8
1,2,3-Trichlorobenzene		ND		0.58	5.8
1,1,1-Trichloroethane		ND		0.58	5.8
1,1,2-Trichloroethane		ND		0.58	5.8
Trichloroethene		ND		0.58	5.8
Trichlorofluoromethane		ND		0.36	5.8
1,2,3-Trichloropropane		ND		0.58	5.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.31	5.8
1,3,5-Trimethylbenzene		12		0.58	5.8
1,2,4-Trimethylbenzene		38		0.58	5.8
Vinyl acetate		ND		0.58	5.8
Vinyl chloride		ND		0.58	5.8
Xylenes, Total		23		1.7	17

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane (Surr)	88	59 - 120
1,2-Dichloroethane-d4 (Surr)	93	71 - 120
Toluene-d8 (Surr)	78	57 - 120
4-Bromofluorobenzene (Surr)	87	47 - 120

Client: Kleinfelder Inc

Job Number: 560-4594-1

Client Sample ID: **EXC 1 Sand**

Lab Sample ID: 560-4594-1
Client Matrix: Solid
% Moisture: 14.9
Date Sampled: 05/08/2007 0730
Date Received: 05/08/2007 0951

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 05/10/2007 1146
Date Prepared: 05/09/2007 0800

Analysis Batch: 560-11309
Prep Batch: 560-11283

Instrument ID: Agilent GCMS [Method
Lab File ID: 05100711.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		ND		59	390
Acenaphthylene		ND		59	390
Anthracene		ND		59	390
Benzo[a]anthracene		410		59	390
Benzo[a]pyrene		300	J	59	390
Benzo[b]fluoranthene		260	J	59	390
Benzo[g,h,i]perylene		190	J	59	390
Benzo[k]fluoranthene		ND		59	390
Benzyl alcohol		ND		59	390
Bis(2-chloroethoxy)methane		ND		59	390
Bis(2-chloroethyl)ether		ND		44	390
Bis(2-ethylhexyl) phthalate		640		59	390
4-Bromophenyl phenyl ether		ND		59	390
Butyl benzyl phthalate		ND		59	390
4-Chloroaniline		ND		200	390
4-Chloro-3-methylphenol		ND		59	390
2-Chloronaphthalene		ND		59	390
2-Chlorophenol		ND		33	390
4-Chlorophenyl phenyl ether		ND		59	390
Chrysene		990		59	390
Dibenz(a,h)anthracene		64	J	59	390
Dibenzofuran		ND		59	390
1,3-Dichlorobenzene		ND		51	390
1,4-Dichlorobenzene		ND		54	390
1,2-Dichlorobenzene		ND		61	390
3,3'-Dichlorobenzidine		ND		200	390
2,4-Dichlorophenol		ND		59	390
Diethyl phthalate		ND		59	390
2,4-Dimethylphenol		ND		59	390
Dimethyl phthalate		ND		59	390
Di-n-butyl phthalate		ND		59	390
4,6-Dinitro-2-methylphenol		ND		200	2000
2,4-Dinitrophenol		ND		390	2000
2,6-Dinitrotoluene		ND		59	390
2,4-Dinitrotoluene		ND		200	390
Di-n-octyl phthalate		180	J	59	390
Fluoranthene		100	J	59	390
Fluorene		96	J	59	390
Hexachlorobenzene		ND		59	390
Hexachlorobutadiene		ND		53	390
Hexachlorocyclopentadiene		ND		78	790
Hexachloroethane		ND		59	390
Indeno[1,2,3-cd]pyrene		ND		59	390

Client: Kleinfelder Inc

Job Number: 560-4594-1

Client Sample ID: **EXC 1 Sand**

Lab Sample ID: 560-4594-1
Client Matrix: Solid
% Moisture: 14.9
Date Sampled: 05/08/2007 0730
Date Received: 05/08/2007 0951

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 05/10/2007 1146
Date Prepared: 05/09/2007 0800

Analysis Batch: 560-11309
Prep Batch: 560-11283

Instrument ID: Agilent GCMS [Method
Lab File ID: 05100711.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Isophorone		ND		59	390
2-Methylnaphthalene		79	J	37	390
2-Methylphenol		ND		39	390
3 & 4 Methylphenol		ND		59	390
Naphthalene		110	J	49	390
2-Nitroaniline		ND		59	390
3-Nitroaniline		ND		200	390
4-Nitroaniline		ND		33	390
Nitrobenzene		ND		43	390
2-Nitrophenol		ND		59	390
4-Nitrophenol		ND		200	2000
N-Nitrosodi-n-propylamine		ND		59	390
N-Nitrosodiphenylamine		ND		59	390
2,2'-oxybis(2-chloropropane)		ND		48	390
Pentachlorophenol		ND		200	2000
Phenanthrene		300	J	59	390
Phenol		ND		59	390
Pyrene		350	J	59	390
1,2,4-Trichlorobenzene		ND		54	390
2,4,6-Trichlorophenol		ND		59	390
2,4,5-Trichlorophenol		ND		59	390

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	79	45 - 105
2-Fluorophenol	76	35 - 105
Nitrobenzene-d5	72	35 - 100
Phenol-d5	78	40 - 100
Terphenyl-d14	99	30 - 125
2,4,6-Tribromophenol	99	35 - 125

Client: Kleinfelder Inc

Job Number: 560-4594-1

Client Sample ID: **EXC 1 Sand**

Lab Sample ID: 560-4594-1
Client Matrix: Solid
% Moisture: 14.9
Date Sampled: 05/08/2007 0730
Date Received: 05/08/2007 0951

TX 1005 TPH by Texas 1005

Method: TX 1005
Preparation: TX_1005_S_Prep
Dilution: 1.0
Date Analyzed: 05/09/2007 1004
Date Prepared: 05/08/2007 1400

Analysis Batch: 560-11300
Prep Batch: 560-11236

Instrument ID: Agilent GC [Method
Lab File ID: 05070754.D
Initial Weight/Volume: 10.01 g
Final Weight/Volume: 10.0 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
>C12-C28		210		7.0	59
>C28-C35		120		7.0	59
C6-C12		ND		7.0	59
Total Petroleum Hydrocarbons (C6-C35)		330		7.0	59

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	110	70 - 130

Client: Kleinfelder Inc

Job Number: 560-4594-1

General Chemistry

Client Sample ID: **EXC 1 Sand**

Lab Sample ID: 560-4594-1
Client Matrix: Solid

Date Sampled: 05/08/2007 0730
Date Received: 05/08/2007 0951

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	15		%	0.010	0.010	1.0	PercentMoisture
	Anly Batch: 560-11271	Date Analyzed	05/08/2007 1445				
Percent Solids	85		%	0.010	0.010	1.0	PercentMoisture
	Anly Batch: 560-11271	Date Analyzed	05/08/2007 1445				

DATA REPORTING QUALIFIERS

Client: Kleinfelder Inc

Job Number: 560-4594-1

Lab Section	Qualifier	Description
GC/MS VOA		
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC/MS Semi VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Kleinfelder Inc

Job Number: 560-4594-1

Method Blank - Batch: 560-11285

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 560-11285/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/09/2007 1449
Date Prepared: 05/09/2007 1449

Analysis Batch: 560-11285
Prep Batch: N/A
Units: ug/Kg

Instrument ID: Agilent GCMS [Method 8260
Lab File ID: 05090712.D
Initial Weight/Volume: 5.00 g
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	ND		5.0	20
Acetonitrile	ND		5.0	50
Acrolein	ND		5.0	50
Acrylonitrile	ND		5.0	50
Benzene	ND		0.50	5.0
Bromoform	ND		0.50	5.0
Bromomethane	ND		0.34	5.0
Carbon disulfide	ND		0.30	5.0
Carbon tetrachloride	ND		0.50	5.0
Chlorobenzene	ND		0.50	5.0
Chlorodibromomethane	ND		0.50	5.0
Chloroethane	ND		0.50	5.0
Chloroform	ND		0.50	5.0
Chloromethane	ND		0.27	5.0
cis-1,2-Dichloroethene	ND		0.50	5.0
cis-1,3-Dichloropropene	ND		0.50	5.0
Dibromomethane	ND		0.50	5.0
Dichlorobromomethane	ND		0.50	5.0
Dichlorodifluoromethane	ND		0.50	5.0
1,1-Dichloroethane	ND		0.50	5.0
1,2-Dichloroethane	ND		0.50	5.0
1,1-Dichloroethene	ND		0.50	5.0
2,2-Dichloropropane	ND		0.50	5.0
1,2-Dichloropropane	ND		0.50	5.0
1,3-Dichloropropane	ND		0.50	5.0
1,1-Dichloropropene	ND		0.50	5.0
1,4-Dioxane	ND		9.2	100
Ethyl acetate	ND		0.34	5.0
Ethylbenzene	ND		0.50	5.0
Ethylene Dibromide	ND		0.50	5.0
Ethyl ether	ND		0.50	5.0
Ethyl methacrylate	ND		0.50	5.0
2-Hexanone	ND		0.25	5.0
Iodomethane	ND		0.50	5.0
Methylene Chloride	ND		5.0	20
Methyl Ethyl Ketone	ND		0.49	10
methyl isobutyl ketone	ND		0.50	5.0
Methyl methacrylate	ND		0.50	5.0
Methyl tert-butyl ether	ND		0.50	5.0
2-Nitropropane	ND		1.0	5.0
Styrene	ND		0.50	5.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4594-1

Method Blank - Batch: 560-11285

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 560-11285/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/09/2007 1449
Date Prepared: 05/09/2007 1449

Analysis Batch: 560-11285
Prep Batch: N/A
Units: ug/Kg

Instrument ID: Agilent GCMS [Method 8260
Lab File ID: 05090712.D
Initial Weight/Volume: 5.00 g
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,2,2-Tetrachloroethane	ND		0.50	5.0
Tetrachloroethene	ND		0.50	5.0
Toluene	ND		0.50	5.0
trans-1,2-Dichloroethene	ND		0.50	5.0
trans-1,3-Dichloropropene	ND		0.50	5.0
1,2,3-Trichlorobenzene	ND		0.50	5.0
1,1,1-Trichloroethane	ND		0.50	5.0
1,1,2-Trichloroethane	ND		0.50	5.0
Trichloroethene	ND		0.50	5.0
Trichlorofluoromethane	ND		0.31	5.0
1,2,3-Trichloropropane	ND		0.50	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.27	5.0
1,3,5-Trimethylbenzene	ND		0.50	5.0
1,2,4-Trimethylbenzene	ND		0.50	5.0
Vinyl acetate	ND		0.50	5.0
Vinyl chloride	ND		0.50	5.0
Xylenes, Total	ND		1.5	15

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane (Surr)	104	59 - 120
1,2-Dichloroethane-d4 (Surr)	106	71 - 120
Toluene-d8 (Surr)	93	57 - 120
4-Bromofluorobenzene (Surr)	98	47 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4594-1

Laboratory Control Sample - Batch: 560-11285

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 560-11285/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/09/2007 1330
Date Prepared: 05/09/2007 1330

Analysis Batch: 560-11285
Prep Batch: N/A
Units: ug/Kg

Instrument ID: Agilent GCMS [Method 826
Lab File ID: 05090709.D
Initial Weight/Volume: 5.00 g
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	50.0	62.4	125	20 - 160	
Acetonitrile	500	583	117	60 - 151	
Acrolein	500	560	112	30 - 175	
Acrylonitrile	500	542	108	77 - 123	
Benzene	50.0	55.3	111	75 - 125	
Bromoform	50.0	46.3	93	55 - 135	
Bromomethane	50.0	54.7	109	30 - 160	
Carbon disulfide	50.0	58.7	117	45 - 160	
Carbon tetrachloride	50.0	59.5	119	65 - 135	
Chlorobenzene	50.0	51.3	103	75 - 125	
Chlorodibromomethane	50.0	54.0	108	65 - 130	
Chloroethane	50.0	55.5	111	40 - 155	
Chloroform	50.0	56.8	114	70 - 125	
Chloromethane	50.0	54.5	109	50 - 130	
cis-1,2-Dichloroethene	50.0	58.1	116	65 - 125	
cis-1,3-Dichloropropene	50.0	40.9	82	70 - 125	
Dibromomethane	50.0	52.9	106	75 - 130	
Dichlorobromomethane	50.0	54.6	109	70 - 130	
Dichlorodifluoromethane	50.0	48.9	98	35 - 135	
1,1-Dichloroethane	50.0	56.7	113	75 - 125	
1,2-Dichloroethane	50.0	55.6	111	70 - 135	
1,1-Dichloroethene	50.0	56.5	113	65 - 135	
2,2-Dichloropropane	50.0	65.8	132	65 - 135	
1,2-Dichloropropane	50.0	53.5	107	70 - 120	
1,3-Dichloropropane	50.0	48.7	97	75 - 125	
1,1-Dichloropropene	50.0	51.7	103	70 - 135	
1,4-Dioxane	1000	935	93	70 - 135	
Ethyl acetate	50.0	49.0	98	75 - 120	
Ethylbenzene	50.0	54.0	108	75 - 125	
Ethylene Dibromide	50.0	50.3	101	70 - 125	
Ethyl ether	50.0	58.6	117	80 - 131	
Ethyl methacrylate	50.0	43.6	87	45 - 121	
2-Hexanone	50.0	46.4	93	45 - 145	
Iodomethane	50.0	60.0	120	58 - 142	
Methylene Chloride	50.0	59.6	119	55 - 140	
Methyl Ethyl Ketone	50.0	47.2	94	30 - 160	
methyl isobutyl ketone	50.0	50.1	100	45 - 145	
Methyl methacrylate	50.0	44.1	88	80 - 132	
Methyl tert-butyl ether	50.0	57.9	116	78 - 126	
2-Nitropropane	50.0	50.6	101	54 - 123	
Styrene	50.0	54.0	108	75 - 125	
1,1,2,2-Tetrachloroethane	50.0	50.8	102	55 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4594-1

Laboratory Control Sample - Batch: 560-11285

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 560-11285/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/09/2007 1330
Date Prepared: 05/09/2007 1330

Analysis Batch: 560-11285
Prep Batch: N/A
Units: ug/Kg

Instrument ID: Agilent GCMS [Method 826
Lab File ID: 05090709.D
Initial Weight/Volume: 5.00 g
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tetrachloroethene	50.0	49.4	99	65 - 140	
Toluene	50.0	49.2	98	70 - 125	
trans-1,2-Dichloroethene	50.0	56.5	113	65 - 135	
trans-1,3-Dichloropropene	50.0	49.1	98	65 - 125	
1,2,3-Trichlorobenzene	50.0	60.4	121	60 - 135	
1,1,1-Trichloroethane	50.0	59.0	118	70 - 135	
1,1,2-Trichloroethane	50.0	50.8	102	60 - 125	
Trichloroethene	50.0	52.3	105	75 - 125	
Trichlorofluoromethane	50.0	57.0	114	25 - 185	
1,2,3-Trichloropropane	50.0	54.0	108	65 - 130	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.2	104	64 - 120	
1,3,5-Trimethylbenzene	50.0	53.4	107	65 - 135	
1,2,4-Trimethylbenzene	50.0	53.3	107	65 - 135	
Vinyl acetate	50.0	55.4	111	80 - 153	
Vinyl chloride	50.0	56.6	113	60 - 125	
Xylenes, Total	150	163	108	80 - 120	

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane (Surr)	112	59 - 120
1,2-Dichloroethane-d4 (Surr)	108	71 - 120
Toluene-d8 (Surr)	97	57 - 120
4-Bromofluorobenzene (Surr)	101	47 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4594-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 560-11285

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 560-4594-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/09/2007 1954
Date Prepared: 05/09/2007 1954

Analysis Batch: 560-11285
Prep Batch: N/A

Instrument ID: Agilent GCMS [Method 826
Lab File ID: 05090724.D
Initial Weight/Volume: 4.99 g
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 560-4594-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/09/2007 2019
Date Prepared: 05/09/2007 2019

Analysis Batch: 560-11285
Prep Batch: N/A

Instrument ID: Agilent GCMS [Method 826
Lab File ID: 05090725.D
Initial Weight/Volume: 4.98 g
Final Weight/Volume: 5 mL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	126	129	20 - 160	2.6	30.0		
Acetonitrile	80	75	60 - 151	6.7	30.0		
Acrolein	50	57	50 - 175	14.2	30.0		
Acrylonitrile	90	96	77 - 123	6.1	30.0		
Benzene	79	71	75 - 125	6.8	30.0		F
Bromoform	61	69	55 - 135	12.7	30.0		
Bromomethane	66	77	30 - 160	16.3	30.0		
Carbon disulfide	63	63	45 - 160	0.5	30.0		
Carbon tetrachloride	57	64	65 - 135	12.4	30.0	F	F
Chlorobenzene	70	74	75 - 125	5.6	30.0	F	F
Chlorodibromomethane	78	85	65 - 130	8.3	30.0		
Chloroethane	63	72	40 - 155	13.4	30.0		
Chloroform	79	84	70 - 125	5.4	30.0		
Chloromethane	70	75	50 - 130	7.8	30.0		
cis-1,2-Dichloroethene	77	81	65 - 125	4.8	30.0		
cis-1,3-Dichloropropene	61	65	70 - 125	6.9	30.0	F	F
Dibromomethane	88	92	75 - 130	5.4	30.0		
Dichlorobromomethane	79	85	70 - 130	8.0	30.0		
Dichlorodifluoromethane	55	55	35 - 135	0.3	30.0		
1,1-Dichloroethane	77	80	75 - 125	4.3	30.0		
1,2-Dichloroethane	93	97	70 - 135	4.6	30.0		
1,1-Dichloroethene	69	71	65 - 135	2.7	30.0		
2,2-Dichloropropane	65	70	65 - 135	7.5	30.0		
1,2-Dichloropropane	80	85	70 - 120	6.5	30.0		
1,3-Dichloropropane	86	89	75 - 125	3.4	30.0		
1,1-Dichloropropene	59	63	70 - 135	5.6	30.0	F	F
1,4-Dioxane	93	71	70 - 135	27.2	30.0		
Ethyl acetate	77	77	75 - 120	0.7	30.0		
Ethylbenzene	66	66	75 - 125	0.2	30.0	F	F
Ethylene Dibromide	88	93	70 - 125	5.8	30.0		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4594-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 560-11285

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 560-4594-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/09/2007 1954
Date Prepared: 05/09/2007 1954

Analysis Batch: 560-11285
Prep Batch: N/A

Instrument ID: Agilent GCMS [Method 826
Lab File ID: 05090724.D
Initial Weight/Volume: 4.99 g
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 560-4594-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/09/2007 2019
Date Prepared: 05/09/2007 2019

Analysis Batch: 560-11285
Prep Batch: N/A

Instrument ID: Agilent GCMS [Method 826
Lab File ID: 05090725.D
Initial Weight/Volume: 4.98 g
Final Weight/Volume: 5 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ethyl ether	96	101	80 - 131	5.4	30.0		
Ethyl methacrylate	73	78	45 - 121	6.4	30.0		
2-Hexanone	88	101	45 - 145	14.2	30.0		
Iodomethane	76	77	58 - 142	2.3	30.0		
Methylene Chloride	95	97	55 - 140	2.3	30.0		
Methyl Ethyl Ketone	89	95	30 - 160	6.4	30.0		
methyl isobutyl ketone	91	103	45 - 145	12.1	30.0		
Methyl methacrylate	92	98	80 - 132	6.8	30.0		
Methyl tert-butyl ether	93	100	78 - 126	8.1	30.0		
2-Nitropropane	88	93	54 - 123	5.0	30.0		
Styrene	73	79	75 - 125	7.5	30.0	F	
1,1,2,2-Tetrachloroethane	80	89	55 - 130	11.3	30.0		
Tetrachloroethene	73	82	65 - 140	11.7	30.0		
Toluene	62	65	70 - 125	3.8	30.0	F	F
trans-1,2-Dichloroethene	70	72	65 - 135	3.1	30.0		
trans-1,3-Dichloropropene	76	83	65 - 125	8.2	30.0		
1,2,3-Trichlorobenzene	46	53	60 - 135	14.2	30.0	F	F
1,1,1-Trichloroethane	63	67	70 - 135	6.4	30.0	F	F
1,1,2-Trichloroethane	89	94	60 - 125	5.3	30.0		
Trichloroethene	68	72	75 - 125	6.1	30.0	F	F
Trichlorofluoromethane	55	60	25 - 185	9.5	30.0		
1,2,3-Trichloropropane	93	102	65 - 130	8.9	30.0		
1,1,2-Trichloro-1,2,2-trifluoroethane	56	59	64 - 120	4.3	30.0	F	F
1,3,5-Trimethylbenzene	61	64	65 - 135	4.0	30.0	F	F
1,2,4-Trimethylbenzene	57	56	65 - 135	1.0	30.0	F	F
Vinyl acetate	31	32	80 - 153	3.8	30.0	F	F
Vinyl chloride	66	69	60 - 125	4.8	30.0		
Xylenes, Total	67	69	80 - 120	2.6	30.0	F	F

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4594-1

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Dibromofluoromethane (Surr)	83	84	59 - 120
1,2-Dichloroethane-d4 (Surr)	91	94	71 - 120
Toluene-d8 (Surr)	66	67	57 - 120
4-Bromofluorobenzene (Surr)	75	77	47 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4594-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 560-11285

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 560-4594-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/09/2007 1954
Date Prepared: 05/09/2007 1954

Units: ug/Kg

MSD Lab Sample ID: 560-4594-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/09/2007 2019
Date Prepared: 05/09/2007 2019

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Acetone	ND		58.9	59.0	74.0		76.0	
Acetonitrile	ND		589	590	474		443	
Acrolein	ND		589	590	292		336	
Acrylonitrile	ND		589	590	530		564	
Benzene	24		58.9	59.0	70.7		66.0	F
Bromoform	ND		58.9	59.0	35.8		40.7	
Bromomethane	ND		58.9	59.0	38.8		45.6	
Carbon disulfide	0.81	J	58.9	59.0	37.8		38.0	
Carbon tetrachloride	ND		58.9	59.0	33.6	F	38.0	F
Chlorobenzene	ND		58.9	59.0	41.2	F	43.6	F
Chlorodibromomethane	ND		58.9	59.0	46.1		50.1	
Chloroethane	ND		58.9	59.0	37.3		42.6	
Chloroform	ND		58.9	59.0	46.8		49.4	
Chloromethane	ND		58.9	59.0	41.0		44.4	
cis-1,2-Dichloroethene	ND		58.9	59.0	45.6		47.9	
cis-1,3-Dichloropropene	ND		58.9	59.0	35.8	F	38.4	F
Dibromomethane	ND		58.9	59.0	51.6		54.4	
Dichlorobromomethane	ND		58.9	59.0	46.3		50.1	
Dichlorodifluoromethane	ND		58.9	59.0	32.4		32.3	
1,1-Dichloroethane	ND		58.9	59.0	45.2		47.1	
1,2-Dichloroethane	ND		58.9	59.0	54.8		57.3	
1,1-Dichloroethene	ND		58.9	59.0	40.8		41.9	
2,2-Dichloropropane	ND		58.9	59.0	38.5		41.6	
1,2-Dichloropropane	ND		58.9	59.0	47.2		50.4	
1,3-Dichloropropane	ND		58.9	59.0	50.5		52.2	
1,1-Dichloropropene	ND		58.9	59.0	35.0	F	37.0	F
1,4-Dioxane	ND		1180	1180	1100		837	
Ethyl acetate	ND		58.9	59.0	45.3		45.7	
Ethylbenzene	11		58.9	59.0	50.0	F	50.1	F
Ethylene Dibromide	ND		58.9	59.0	51.6		54.7	
Ethyl ether	ND		58.9	59.0	56.3		59.4	
Ethyl methacrylate	ND		58.9	59.0	43.1		45.9	
2-Hexanone	ND		58.9	59.0	51.6		59.5	
Iodomethane	ND		58.9	59.0	44.6		45.6	
Methylene Chloride	ND		58.9	59.0	55.9		57.2	
Methyl Ethyl Ketone	2.0	J	58.9	59.0	54.6		58.2	
methyl isobutyl ketone	ND		58.9	59.0	53.7		60.6	
Methyl methacrylate	ND		58.9	59.0	54.2		58.0	
Methyl tert-butyl ether	ND		58.9	59.0	54.6		59.2	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4594-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 560-11285

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 560-4594-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/09/2007 1954
Date Prepared: 05/09/2007 1954

Units: ug/Kg

MSD Lab Sample ID: 560-4594-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/09/2007 2019
Date Prepared: 05/09/2007 2019

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
2-Nitropropane	ND		58.9	59.0	52.0		54.7	
Styrene	ND		58.9	59.0	43.3	F	46.6	
1,1,2,2-Tetrachloroethane	ND		58.9	59.0	47.2		52.8	
Tetrachloroethene	ND		58.9	59.0	42.9		48.2	
Toluene	2.4	J	58.9	59.0	39.2	F	40.7	F
trans-1,2-Dichloroethene	ND		58.9	59.0	41.3		42.6	
trans-1,3-Dichloropropene	ND		58.9	59.0	44.9		48.8	
1,2,3-Trichlorobenzene	ND		58.9	59.0	27.2	F	31.4	F
1,1,1-Trichloroethane	ND		58.9	59.0	37.1	F	39.6	F
1,1,2-Trichloroethane	ND		58.9	59.0	52.4		55.2	
Trichloroethene	ND		58.9	59.0	40.1	F	42.6	F
Trichlorofluoromethane	ND		58.9	59.0	32.3		35.6	
1,2,3-Trichloropropane	ND		58.9	59.0	54.9		60.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		58.9	59.0	33.2	F	34.6	F
1,3,5-Trimethylbenzene	12		58.9	59.0	47.6	F	49.6	F
1,2,4-Trimethylbenzene	38		58.9	59.0	71.3	F	70.6	F
Vinyl acetate	ND		58.9	59.0	18.3	F	19.0	F
Vinyl chloride	ND		58.9	59.0	38.6		40.5	
Xylenes, Total	23		177	177	141	F	145	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4594-1

Method Blank - Batch: 560-11283

Method: 8270C
Preparation: 3550B

Lab Sample ID: MB 560-11283/1-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/10/2007 0856
Date Prepared: 05/09/2007 0800

Analysis Batch: 560-11309
Prep Batch: 560-11283
Units: ug/Kg

Instrument ID: Agilent GCMS [Method 8270
Lab File ID: 05100705.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result	Qual	MDL	RL
Acenaphthene	ND		50	330
Acenaphthylene	ND		50	330
Anthracene	ND		50	330
Benzo[a]anthracene	ND		50	330
Benzo[a]pyrene	ND		50	330
Benzo[b]fluoranthene	ND		50	330
Benzo[g,h,i]perylene	ND		50	330
Benzo[k]fluoranthene	ND		50	330
Benzyl alcohol	ND		50	330
Bis(2-chloroethoxy)methane	ND		50	330
Bis(2-chloroethyl)ether	ND		37	330
Bis(2-ethylhexyl) phthalate	ND		50	330
4-Bromophenyl phenyl ether	ND		50	330
Butyl benzyl phthalate	ND		50	330
4-Chloroaniline	ND		170	330
4-Chloro-3-methylphenol	ND		50	330
2-Chloronaphthalene	ND		50	330
2-Chlorophenol	ND		28	330
4-Chlorophenyl phenyl ether	ND		50	330
Chrysene	ND		50	330
Dibenz(a,h)anthracene	ND		50	330
Dibenzofuran	ND		50	330
1,3-Dichlorobenzene	ND		44	330
1,4-Dichlorobenzene	ND		46	330
1,2-Dichlorobenzene	ND		52	330
3,3'-Dichlorobenzidine	ND		170	330
2,4-Dichlorophenol	ND		50	330
Diethyl phthalate	ND		50	330
2,4-Dimethylphenol	ND		50	330
Dimethyl phthalate	ND		50	330
Di-n-butyl phthalate	ND		50	330
4,6-Dinitro-2-methylphenol	ND		170	1700
2,4-Dinitrophenol	ND		330	1700
2,6-Dinitrotoluene	ND		50	330
2,4-Dinitrotoluene	ND		170	330
Di-n-octyl phthalate	ND		50	330
Fluoranthene	ND		50	330
Fluorene	ND		50	330
Hexachlorobenzene	ND		50	330
Hexachlorobutadiene	ND		45	330
Hexachlorocyclopentadiene	ND		67	670

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4594-1

Method Blank - Batch: 560-11283

Method: 8270C
Preparation: 3550B

Lab Sample ID: MB 560-11283/1-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/10/2007 0856
Date Prepared: 05/09/2007 0800

Analysis Batch: 560-11309
Prep Batch: 560-11283
Units: ug/Kg

Instrument ID: Agilent GCMS [Method 8270
Lab File ID: 05100705.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result	Qual	MDL	RL
Hexachloroethane	ND		50	330
Indeno[1,2,3-cd]pyrene	ND		50	330
Isophorone	ND		50	330
2-Methylnaphthalene	ND		31	330
2-Methylphenol	ND		33	330
3 & 4 Methylphenol	ND		50	330
Naphthalene	ND		42	330
2-Nitroaniline	ND		50	330
3-Nitroaniline	ND		170	330
4-Nitroaniline	ND		28	330
Nitrobenzene	ND		36	330
2-Nitrophenol	ND		50	330
4-Nitrophenol	ND		170	1700
N-Nitrosodi-n-propylamine	ND		50	330
N-Nitrosodiphenylamine	ND		50	330
2,2'-oxybis(2-chloropropane)	ND		41	330
Pentachlorophenol	ND		170	1700
Phenanthrene	ND		50	330
Phenol	ND		50	330
Pyrene	ND		50	330
1,2,4-Trichlorobenzene	ND		46	330
2,4,6-Trichlorophenol	ND		50	330
2,4,5-Trichlorophenol	ND		50	330

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	81	45 - 105
2-Fluorophenol	81	35 - 105
Nitrobenzene-d5	74	35 - 100
Phenol-d5	81	40 - 100
Terphenyl-d14	96	30 - 125
2,4,6-Tribromophenol	93	35 - 125

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4594-1

Laboratory Control Sample - Batch: 560-11283

Method: 8270C
Preparation: 3550B

Lab Sample ID: LCS 560-11283/2-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/10/2007 0924
Date Prepared: 05/09/2007 0800

Analysis Batch: 560-11309
Prep Batch: 560-11283
Units: ug/Kg

Instrument ID: Agilent GCMS [Method 827
Lab File ID: 05100706.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	3330	2560	77	45 - 110	
Acenaphthylene	3330	2560	77	45 - 105	
Anthracene	3330	2610	78	55 - 105	
Benzo[a]anthracene	3330	2770	83	50 - 110	
Benzo[a]pyrene	3330	2740	82	50 - 110	
Benzo[b]fluoranthene	3330	2880	87	45 - 115	
Benzo[g,h,i]perylene	3330	2620	79	40 - 125	
Benzo[k]fluoranthene	3330	2730	82	45 - 125	
Benzyl alcohol	3330	2840	85	20 - 125	
Bis(2-chloroethoxy)methane	3330	2500	75	45 - 110	
Bis(2-chloroethyl)ether	3330	2210	66	40 - 105	
Bis(2-ethylhexyl) phthalate	3330	2810	84	45 - 125	
4-Bromophenyl phenyl ether	3330	2760	83	45 - 115	
Butyl benzyl phthalate	3330	2770	83	50 - 125	
4-Chloroaniline	3330	2390	72	25 - 125	
4-Chloro-3-methylphenol	3330	2690	81	45 - 115	
2-Chloronaphthalene	3330	2460	74	50 - 120	
2-Chlorophenol	3330	2520	76	45 - 105	
4-Chlorophenyl phenyl ether	3330	2680	81	45 - 110	
Chrysene	3330	2730	82	55 - 110	
Dibenz(a,h)anthracene	3330	2780	83	40 - 125	
Dibenzofuran	3330	2570	77	50 - 105	
1,3-Dichlorobenzene	3330	2190	66	40 - 100	
1,4-Dichlorobenzene	3330	2210	66	35 - 105	
1,2-Dichlorobenzene	3330	2210	66	45 - 95	
3,3'-Dichlorobenzidine	3330	2540	76	25 - 128	
2,4-Dichlorophenol	3330	2620	79	45 - 110	
Diethyl phthalate	3330	2720	81	50 - 115	
2,4-Dimethylphenol	3330	2690	81	30 - 105	
Dimethyl phthalate	3330	2720	82	50 - 110	
Di-n-butyl phthalate	3330	2740	82	55 - 110	
4,6-Dinitro-2-methylphenol	3330	2860	86	30 - 135	
2,4-Dinitrophenol	3330	2930	88	15 - 130	
2,6-Dinitrotoluene	3330	2740	82	50 - 110	
2,4-Dinitrotoluene	3330	2650	80	50 - 115	
Di-n-octyl phthalate	3330	2850	86	40 - 130	
Fluoranthene	3330	2650	79	55 - 115	
Fluorene	3330	2620	79	50 - 110	
Hexachlorobenzene	3330	2720	82	45 - 120	
Hexachlorobutadiene	3330	2410	72	40 - 115	
Hexachlorocyclopentadiene	3330	2310	69	44 - 120	
Hexachloroethane	3330	2140	64	35 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4594-1

Laboratory Control Sample - Batch: 560-11283

Method: 8270C
Preparation: 3550B

Lab Sample ID: LCS 560-11283/2-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/10/2007 0924
Date Prepared: 05/09/2007 0800

Analysis Batch: 560-11309
Prep Batch: 560-11283
Units: ug/Kg

Instrument ID: Agilent GCMS [Method 827
Lab File ID: 05100706.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Indeno[1,2,3-cd]pyrene	3330	2780	83	40 - 120	
Isophorone	3330	2360	71	45 - 110	
2-Methylnaphthalene	3330	2540	76	45 - 105	
2-Methylphenol	3330	2640	79	40 - 105	
3 & 4 Methylphenol	6670	5370	81	40 - 105	
Naphthalene	3330	2380	71	40 - 105	
2-Nitroaniline	3330	2610	78	45 - 120	
3-Nitroaniline	3330	2500	75	25 - 110	
4-Nitroaniline	3330	2530	76	35 - 115	
Nitrobenzene	3330	2320	70	40 - 115	
2-Nitrophenol	3330	2540	76	40 - 110	
4-Nitrophenol	3330	3240	97	15 - 140	
N-Nitrosodi-n-propylamine	3330	2430	73	40 - 115	
N-Nitrosodiphenylamine	3330	2650	80	50 - 115	
2,2'-oxybis(2-chloropropane)	3330	2240	67	20 - 115	
Pentachlorophenol	3330	2810	84	25 - 120	
Phenanthrene	3330	2670	80	50 - 110	
Phenol	3330	2350	70	40 - 100	
Pyrene	3330	2730	82	45 - 125	
1,2,4-Trichlorobenzene	3330	2380	71	45 - 110	
2,4,6-Trichlorophenol	3330	2770	83	45 - 110	
2,4,5-Trichlorophenol	3330	2740	82	50 - 110	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	77	45 - 105
2-Fluorophenol	77	35 - 105
Nitrobenzene-d5	71	35 - 100
Phenol-d5	80	40 - 100
Terphenyl-d14	93	30 - 125
2,4,6-Tribromophenol	93	35 - 125

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4594-1

Method Blank - Batch: 560-11236

Method: TX 1005
Preparation: TX_1005_S_Prep

Lab Sample ID: MB 560-11236/1-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/08/2007 1749
Date Prepared: 05/08/2007 1400

Analysis Batch: 560-11300
Prep Batch: 560-11236
Units: mg/Kg

Instrument ID: Agilent GC [Method
Lab File ID: 05070706.D
Initial Weight/Volume: 10.00 g
Final Weight/Volume: 10.0 mL
Injection Volume:

Analyte	Result	Qual	MDL	RL
>C12-C28	ND		6.0	50
>C28-C35	ND		6.0	50
C6-C12	ND		6.0	50
Total Petroleum Hydrocarbons (C6-C35)	ND		6.0	50

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	91	70 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 560-11236

Method: TX 1005
Preparation: TX_1005_S_Prep

LCS Lab Sample ID: LCS 560-11236/2-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/08/2007 1830
Date Prepared: 05/08/2007 1400

Analysis Batch: 560-11300
Prep Batch: 560-11236
Units: mg/Kg

Instrument ID: Agilent GC [Method
Lab File ID: 05070708.D
Initial Weight/Volume: 10.05 g
Final Weight/Volume: 10.0 mL
Injection Volume:

LCSD Lab Sample ID: LCSD 560-11236/3-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/08/2007 1910
Date Prepared: 05/08/2007 1400

Analysis Batch: 560-11300
Prep Batch: 560-11236
Units: mg/Kg

Instrument ID: Agilent GC [Method
Lab File ID: 05070710.D
Initial Weight/Volume: 10.03 g
Final Weight/Volume: 10.0 mL
Injection Volume:

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Petroleum Hydrocarbons (C6-C35)	92	96	75 - 125	4	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	90	92	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4594-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 560-11236

Method: TX 1005
Preparation: TX_1005_S_Prep

LCS Lab Sample ID: LCS 560-11236/2-AA
Units: mg/Kg
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/08/2007 1830
Date Prepared: 05/08/2007 1400

LCSD Lab Sample ID: LCSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/08/2007 1910
Date Prepared: 05/08/2007 1400

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Petroleum Hydrocarbons (C6-C35)	249	249	230	240

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT SERVICES

STL Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408

1.8 1.4

No. 007766

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: KLEINFELDER	PROJECT NAME/NUMBER: FALCON / 59752
SEND REPORT TO: STEVE HALASZ	**BILLING INFORMATION**
ADDRESS: 3601 MANOR ROAD	BILL TO: KLEINFELDER
AUSTIN, TX 78723	ADDRESS: 3601 MANOR ROAD
	AUSTIN TX 78723
PHONE: 512 926 6650	PHONE: 512 926 6650
FAX: 512 926 3312	FAX: 512926 3312 PO NO.:

LAB JOB NO.: 4594

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	VOCs	SVOCs	TPH					REMARKS/PRECAUTIONS
EXC 1	SAND	5.8.07	07:30		9 oz		1	X	X	X					

SAMPLER: PAUL SUPAK

SHIPMENT METHOD:

AIRBILL NO.:

REQUIRED TURNAROUND* ☒ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER _____

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: [signature]	5.8.07	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: PAUL SUPAK / KLEINFELDER	TIME 1451	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: [signature]	05/08/07	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Dermott	TIME 1451	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

STL Corpus Christi is a part of Severn Trent Laboratories, Inc.

STL-8222-CC (0700)

RUSH TURNAROUND MAY REQUIRE SURCHARGE

05/10/2007

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Kleinfelder Inc

Job Number: 560-4594-1

Login Number: 4594

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	1.8C
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	NA	
Samples do not require splitting or compositing.	NA	

SEVERN TRENT SERVICES

STL Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408

1.8 1K

No. 007766

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: KLEINFELDER	PROJECT NAME/NUMBER: FALCON / 59752
SEND REPORT TO: STEVE HALASZ	**BILLING INFORMATION**
ADDRESS: 3601 MANOR ROAD	BILL TO: KLEINFELDER
AUSTIN, TX 78723	ADDRESS: 3601 MANOR ROAD
	AUSTIN TX 78723
PHONE: 512 926 6650	PHONE: 512 926 6650
FAX: 512 926 3312	FAX: 512 926 3312 PO NO.:

LAB JOB NO. 4594

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	VOCs	SVOCs	TPH						REMARKS/PRECAUTIONS
EXC 1	SAND	5.8.07	07:30		9 oz		1	X	X	X						

SAMPLER: PAUL SUPAK SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* ☒ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER _____

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	5-8-07	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: PAUL SUPAK / KLEINFELDER	TIME 1451	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	050807	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Dermott	TIME 1451	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

STL Corpus Christi is a part of Severn Trent Laboratories, Inc.

STL-8222-CC (0700)

APPENDIX 2

STL

ANALYTICAL REPORT

Job Number: 560-4634-1

Job Description: Falcon Refinery/59752

For:
Kleinfelder Inc
3601 Manor Road
Austin, TX 78723

Attention: Mr. Steve Halasz

Timothy L. Kellogg
Project Manager II
tkellogg@stl-inc.com
05/22/2007

Project Manager: Timothy L. Kellogg

The test results entered in this report meet all NELAC requirements for accredited parameters. Any exceptions to NELAC requirements are noted in the report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. STL Corpus Christi Certifications and Approvals: NELAC TX T104704210-06-TX, NELAC KS E-10362, NELAC LA 03034, Oklahoma 9968, USDA Soil Permit S-42935 Revised.

Job Narrative
560-J4634-1

Volatile Organic Compounds (VOCs) Analysis

Sample 560-4634-1 was analyzed for VOCs using EPA method 8260B. The percent recovery result for total xylenes analyte in the MSD associated with this sample was below acceptance limits. The matrix spike and LCS recoveries were within acceptable limits, therefore data is reported.

EXECUTIVE SUMMARY - Detections

Client: Kleinfelder Inc

Job Number: 560-4634-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
560-4634-1	**FLOOR 1 TAN SAND**					
Acetone		9.3	J	23	ug/Kg	8260B
1,1-Dichloroethene		3.0	J	5.8	ug/Kg	8260B
Methylene Chloride		6.8	J	23	ug/Kg	8260B
Percent Moisture		15		0.010	%	PercentMoisture
Percent Solids		85		0.010	%	PercentMoisture

METHOD SUMMARY

Client: Kleinfelder Inc

Job Number: 560-4634-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS	STL CC	SW846 8260B	
Purge and Trap for Solids	STL CC		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	STL CC	SW846 8270C	
Ultrasonic Extraction	STL CC		SW846 3550B
TPH by Texas 1005	STL CC	TCEQ TX 1005	
TPH by Texas 1005 Solid Prep	STL CC		TCEQ TX_1005_S_Prep
Percent Moisture	STL CC	EPA PercentMoisture	

LAB REFERENCES:

STL CC = STL Corpus Christi

METHOD REFERENCES:

TCEQ - Texas Commission of Environmental Quality

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

EPA - US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: Kleinfelder Inc

Job Number: 560-4634-1

Method	Analyst	Analyst ID
SW846 8260B	Newman, David	DN
SW846 8270C	Fisher, Gayland E	GEF
TCEQ TX 1005	Cady, Iryna M	IMC
EPA PercentMoisture	Zwierzykowski, Hanna M	HMZ

SAMPLE SUMMARY

Client: Kleinfelder Inc

Job Number: 560-4634-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
560-4634-1	FLOOR 1 TAN SAND	Solid	05/11/2007 0930	05/11/2007 1045

Client: Kleinfelder Inc

Job Number: 560-4634-1

Client Sample ID: **FLOOR 1 TAN SAND**

Lab Sample ID: 560-4634-1
Client Matrix: Solid
% Moisture: 14.8
Date Sampled: 05/11/2007 0930
Date Received: 05/11/2007 1045

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/14/2007 1331
Date Prepared: 05/14/2007 1331

Analysis Batch: 560-11383

Instrument ID: Agilent GCMS [Method
Lab File ID: 05140707.D
Initial Weight/Volume: 5.08 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		9.3	J	5.8	23
Acetonitrile		ND		5.8	58
Acrolein		ND		5.8	58
Acrylonitrile		ND		5.8	58
Benzene		ND		0.58	5.8
Bromoform		ND		0.58	5.8
Bromomethane		ND		0.39	5.8
Carbon disulfide		ND		0.35	5.8
Carbon tetrachloride		ND		0.58	5.8
Chlorobenzene		ND		0.58	5.8
Chlorodibromomethane		ND		0.58	5.8
Chloroethane		ND		0.58	5.8
Chloroform		ND		0.58	5.8
Chloromethane		ND		0.31	5.8
cis-1,2-Dichloroethene		ND		0.58	5.8
cis-1,3-Dichloropropene		ND		0.58	5.8
Dibromomethane		ND		0.58	5.8
Dichlorobromomethane		ND		0.58	5.8
Dichlorodifluoromethane		ND		0.58	5.8
1,1-Dichloroethane		ND		0.58	5.8
1,2-Dichloroethane		ND		0.58	5.8
1,1-Dichloroethene		3.0	J	0.58	5.8
2,2-Dichloropropane		ND		0.58	5.8
1,2-Dichloropropane		ND		0.58	5.8
1,3-Dichloropropane		ND		0.58	5.8
1,1-Dichloropropene		ND		0.58	5.8
1,4-Dioxane		ND		11	120
Ethyl acetate		ND		0.39	5.8
Ethylbenzene		ND		0.58	5.8
Ethylene Dibromide		ND		0.58	5.8
Ethyl ether		ND		0.58	5.8
Ethyl methacrylate		ND		0.58	5.8
2-Hexanone		ND		0.29	5.8
Iodomethane		ND		0.58	5.8
Methylene Chloride		6.8	J	5.8	23
Methyl Ethyl Ketone		ND		0.57	12
methyl isobutyl ketone		ND		0.58	5.8
Methyl methacrylate		ND		0.58	5.8
Methyl tert-butyl ether		ND		0.58	5.8
2-Nitropropane		ND		1.2	5.8
Styrene		ND		0.58	5.8
1,1,2,2-Tetrachloroethane		ND		0.58	5.8
Tetrachloroethene		ND		0.58	5.8

Client: Kleinfelder Inc

Job Number: 560-4634-1

Client Sample ID: **FLOOR 1 TAN SAND**

Lab Sample ID: 560-4634-1
Client Matrix: Solid
% Moisture: 14.8
Date Sampled: 05/11/2007 0930
Date Received: 05/11/2007 1045

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/14/2007 1331
Date Prepared: 05/14/2007 1331

Analysis Batch: 560-11383

Instrument ID: Agilent GCMS [Method
Lab File ID: 05140707.D
Initial Weight/Volume: 5.08 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Toluene		ND		0.58	5.8
trans-1,2-Dichloroethene		ND		0.58	5.8
trans-1,3-Dichloropropene		ND		0.58	5.8
1,2,3-Trichlorobenzene		ND		0.58	5.8
1,1,1-Trichloroethane		ND		0.58	5.8
1,1,2-Trichloroethane		ND		0.58	5.8
Trichloroethene		ND		0.58	5.8
Trichlorofluoromethane		ND		0.36	5.8
1,2,3-Trichloropropane		ND		0.58	5.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.31	5.8
1,3,5-Trimethylbenzene		ND		0.58	5.8
1,2,4-Trimethylbenzene		ND		0.58	5.8
Vinyl acetate		ND		0.58	5.8
Vinyl chloride		ND		0.58	5.8
Xylenes, Total		ND		1.7	17

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane (Surr)	98	59 - 120
1,2-Dichloroethane-d4 (Surr)	99	71 - 120
Toluene-d8 (Surr)	96	57 - 120
4-Bromofluorobenzene (Surr)	102	47 - 120

Client: Kleinfelder Inc

Job Number: 560-4634-1

Client Sample ID: **FLOOR 1 TAN SAND**

Lab Sample ID: 560-4634-1
Client Matrix: Solid
% Moisture: 14.8
Date Sampled: 05/11/2007 0930
Date Received: 05/11/2007 1045

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 05/14/2007 1703
Date Prepared: 05/11/2007 0900

Analysis Batch: 560-11401
Prep Batch: 560-11358

Instrument ID: Agilent GCMS [Method
Lab File ID: 05140717.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		ND		59	390
Acenaphthylene		ND		59	390
Anthracene		ND		59	390
Benzo[a]anthracene		ND		59	390
Benzo[a]pyrene		ND		59	390
Benzo[b]fluoranthene		ND		59	390
Benzo[g,h,i]perylene		ND		59	390
Benzo[k]fluoranthene		ND		59	390
Benzyl alcohol		ND		59	390
Bis(2-chloroethoxy)methane		ND		59	390
Bis(2-chloroethyl)ether		ND		44	390
Bis(2-ethylhexyl) phthalate		ND		59	390
4-Bromophenyl phenyl ether		ND		59	390
Butyl benzyl phthalate		ND		59	390
4-Chloroaniline		ND		200	390
4-Chloro-3-methylphenol		ND		59	390
2-Chloronaphthalene		ND		59	390
2-Chlorophenol		ND		33	390
4-Chlorophenyl phenyl ether		ND		59	390
Chrysene		ND		59	390
Dibenz(a,h)anthracene		ND		59	390
Dibenzofuran		ND		59	390
1,3-Dichlorobenzene		ND		51	390
1,4-Dichlorobenzene		ND		54	390
1,2-Dichlorobenzene		ND		61	390
3,3'-Dichlorobenzidine		ND		200	390
2,4-Dichlorophenol		ND		59	390
Diethyl phthalate		ND		59	390
2,4-Dimethylphenol		ND		59	390
Dimethyl phthalate		ND		59	390
Di-n-butyl phthalate		ND		59	390
4,6-Dinitro-2-methylphenol		ND		200	2000
2,4-Dinitrophenol		ND		390	2000
2,6-Dinitrotoluene		ND		59	390
2,4-Dinitrotoluene		ND		200	390
Di-n-octyl phthalate		ND		59	390
Fluoranthene		ND		59	390
Fluorene		ND		59	390
Hexachlorobenzene		ND		59	390
Hexachlorobutadiene		ND		52	390
Hexachlorocyclopentadiene		ND		78	790
Hexachloroethane		ND		59	390
Indeno[1,2,3-cd]pyrene		ND		59	390

Client: Kleinfelder Inc

Job Number: 560-4634-1

Client Sample ID: **FLOOR 1 TAN SAND**

Lab Sample ID:	560-4634-1			Date Sampled:	05/11/2007 0930
Client Matrix:	Solid	% Moisture:	14.8	Date Received:	05/11/2007 1045

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 560-11401		Instrument ID:	Agilent GCMS [Method
Preparation:	3550B	Prep Batch: 560-11358		Lab File ID:	05140717.D
Dilution:	1.0			Initial Weight/Volume:	30 g
Date Analyzed:	05/14/2007 1703			Final Weight/Volume:	1 mL
Date Prepared:	05/11/2007 0900			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Isophorone		ND		59	390
2-Methylnaphthalene		ND		37	390
2-Methylphenol		ND		39	390
3 & 4 Methylphenol		ND		59	390
Naphthalene		ND		49	390
2-Nitroaniline		ND		59	390
3-Nitroaniline		ND		200	390
4-Nitroaniline		ND		33	390
Nitrobenzene		ND		43	390
2-Nitrophenol		ND		59	390
4-Nitrophenol		ND		200	2000
N-Nitrosodi-n-propylamine		ND		59	390
N-Nitrosodiphenylamine		ND		59	390
2,2'-oxybis(2-chloropropane)		ND		48	390
Pentachlorophenol		ND		200	2000
Phenanthrene		ND		59	390
Phenol		ND		59	390
Pyrene		ND		59	390
1,2,4-Trichlorobenzene		ND		54	390
2,4,6-Trichlorophenol		ND		59	390
2,4,5-Trichlorophenol		ND		59	390

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	82	45 - 105
2-Fluorophenol	81	35 - 105
Nitrobenzene-d5	77	35 - 100
Phenol-d5	81	40 - 100
Terphenyl-d14	99	30 - 125
2,4,6-Tribromophenol	101	35 - 125

Client: Kleinfelder Inc

Job Number: 560-4634-1

Client Sample ID: **FLOOR 1 TAN SAND**

Lab Sample ID:	560-4634-1			Date Sampled:	05/11/2007 0930
Client Matrix:	Solid	% Moisture:	14.8	Date Received:	05/11/2007 1045

TX 1005 TPH by Texas 1005

Method:	TX 1005	Analysis Batch: 560-11387		Instrument ID:	Hewlett Packard GC
Preparation:	TX_1005_S_Prep	Prep Batch: 560-11351		Lab File ID:	05110735.D
Dilution:	1.0			Initial Weight/Volume:	10.03 g
Date Analyzed:	05/11/2007 1802			Final Weight/Volume:	10.0 mL
Date Prepared:	05/11/2007 1400			Injection Volume:	
				Column ID:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
>C12-C28		ND		7.0	59
>C28-C35		ND		7.0	59
C6-C12		ND		7.0	59
Total Petroleum Hydrocarbons (C6-C35)		ND		7.0	59

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	102	70 - 130

Client: Kleinfelder Inc

Job Number: 560-4634-1

General Chemistry

Client Sample ID: **FLOOR 1 TAN SAND**

Lab Sample ID: 560-4634-1
Client Matrix: Solid

Date Sampled: 05/11/2007 0930
Date Received: 05/11/2007 1045

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	15		%	0.010	0.010	1.0	PercentMoisture
	Anly Batch: 560-11370	Date Analyzed	05/14/2007 0835				
Percent Solids	85		%	0.010	0.010	1.0	PercentMoisture
	Anly Batch: 560-11370	Date Analyzed	05/14/2007 0835				

DATA REPORTING QUALIFIERS

Client: Kleinfelder Inc

Job Number: 560-4634-1

Lab Section	Qualifier	Description
GC/MS VOA		
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Kleinfelder Inc

Job Number: 560-4634-1

Method Blank - Batch: 560-11383

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 560-11383/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/14/2007 1305
Date Prepared: 05/14/2007 1305

Analysis Batch: 560-11383
Prep Batch: N/A
Units: ug/Kg

Instrument ID: Agilent GCMS [Method 8260
Lab File ID: 05140706.D
Initial Weight/Volume: 5.00 g
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	ND		5.0	20
Acetonitrile	ND		5.0	50
Acrolein	ND		5.0	50
Acrylonitrile	ND		5.0	50
Benzene	ND		0.50	5.0
Bromoform	ND		0.50	5.0
Bromomethane	ND		0.34	5.0
Carbon disulfide	ND		0.30	5.0
Carbon tetrachloride	ND		0.50	5.0
Chlorobenzene	ND		0.50	5.0
Chlorodibromomethane	ND		0.50	5.0
Chloroethane	ND		0.50	5.0
Chloroform	ND		0.50	5.0
Chloromethane	ND		0.27	5.0
cis-1,2-Dichloroethene	ND		0.50	5.0
cis-1,3-Dichloropropene	ND		0.50	5.0
Dibromomethane	ND		0.50	5.0
Dichlorobromomethane	ND		0.50	5.0
Dichlorodifluoromethane	ND		0.50	5.0
1,1-Dichloroethane	ND		0.50	5.0
1,2-Dichloroethane	ND		0.50	5.0
1,1-Dichloroethene	ND		0.50	5.0
2,2-Dichloropropane	ND		0.50	5.0
1,2-Dichloropropane	ND		0.50	5.0
1,3-Dichloropropane	ND		0.50	5.0
1,1-Dichloropropene	ND		0.50	5.0
1,4-Dioxane	ND		9.2	100
Ethyl acetate	ND		0.34	5.0
Ethylbenzene	ND		0.50	5.0
Ethylene Dibromide	ND		0.50	5.0
Ethyl ether	ND		0.50	5.0
Ethyl methacrylate	ND		0.50	5.0
2-Hexanone	ND		0.25	5.0
Iodomethane	ND		0.50	5.0
Methylene Chloride	ND		5.0	20
Methyl Ethyl Ketone	ND		0.49	10
methyl isobutyl ketone	ND		0.50	5.0
Methyl methacrylate	ND		0.50	5.0
Methyl tert-butyl ether	ND		0.50	5.0
2-Nitropropane	ND		1.0	5.0
Styrene	ND		0.50	5.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4634-1

Method Blank - Batch: 560-11383

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 560-11383/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/14/2007 1305
Date Prepared: 05/14/2007 1305

Analysis Batch: 560-11383
Prep Batch: N/A
Units: ug/Kg

Instrument ID: Agilent GCMS [Method 8260
Lab File ID: 05140706.D
Initial Weight/Volume: 5.00 g
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,2,2-Tetrachloroethane	ND		0.50	5.0
Tetrachloroethene	ND		0.50	5.0
Toluene	ND		0.50	5.0
trans-1,2-Dichloroethene	ND		0.50	5.0
trans-1,3-Dichloropropene	ND		0.50	5.0
1,2,3-Trichlorobenzene	ND		0.50	5.0
1,1,1-Trichloroethane	ND		0.50	5.0
1,1,2-Trichloroethane	ND		0.50	5.0
Trichloroethene	ND		0.50	5.0
Trichlorofluoromethane	ND		0.31	5.0
1,2,3-Trichloropropane	ND		0.50	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.27	5.0
1,3,5-Trimethylbenzene	ND		0.50	5.0
1,2,4-Trimethylbenzene	ND		0.50	5.0
Vinyl acetate	ND		0.50	5.0
Vinyl chloride	ND		0.50	5.0
Xylenes, Total	ND		1.5	15

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane (Surr)	96	59 - 120
1,2-Dichloroethane-d4 (Surr)	99	71 - 120
Toluene-d8 (Surr)	89	57 - 120
4-Bromofluorobenzene (Surr)	92	47 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4634-1

Laboratory Control Sample - Batch: 560-11383

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 560-11383/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/14/2007 1149
Date Prepared: 05/14/2007 1149

Analysis Batch: 560-11383
Prep Batch: N/A
Units: ug/Kg

Instrument ID: Agilent GCMS [Method 826
Lab File ID: 05140703.D
Initial Weight/Volume: 5.00 g
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	50.0	58.9	118	20 - 160	
Acetonitrile	500	532	106	60 - 151	
Acrolein	500	501	100	30 - 175	
Acrylonitrile	500	520	104	77 - 123	
Benzene	50.0	46.8	94	75 - 125	
Bromoform	50.0	40.0	80	55 - 135	
Bromomethane	50.0	52.4	105	30 - 160	
Carbon disulfide	50.0	46.9	94	45 - 160	
Carbon tetrachloride	50.0	46.2	92	65 - 135	
Chlorobenzene	50.0	43.1	86	75 - 125	
Chlorodibromomethane	50.0	46.9	94	65 - 130	
Chloroethane	50.0	49.0	98	40 - 155	
Chloroform	50.0	49.5	99	70 - 125	
Chloromethane	50.0	49.4	99	50 - 130	
cis-1,2-Dichloroethene	50.0	50.0	100	65 - 125	
cis-1,3-Dichloropropene	50.0	36.8	74	70 - 125	
Dibromomethane	50.0	49.4	99	75 - 130	
Dichlorobromomethane	50.0	48.4	97	70 - 130	
Dichlorodifluoromethane	50.0	38.5	77	35 - 135	
1,1-Dichloroethane	50.0	49.0	98	75 - 125	
1,2-Dichloroethane	50.0	51.0	102	70 - 135	
1,1-Dichloroethene	50.0	45.9	92	65 - 135	
2,2-Dichloropropane	50.0	54.8	110	65 - 135	
1,2-Dichloropropane	50.0	46.6	93	70 - 120	
1,3-Dichloropropane	50.0	44.1	88	75 - 125	
1,1-Dichloropropene	50.0	42.1	84	70 - 135	
1,4-Dioxane	1000	1090	109	70 - 135	
Ethyl acetate	50.0	49.4	99	75 - 120	
Ethylbenzene	50.0	43.6	87	75 - 125	
Ethylene Dibromide	50.0	46.4	93	70 - 125	
Ethyl ether	50.0	53.5	107	80 - 131	
Ethyl methacrylate	50.0	42.4	85	45 - 121	
2-Hexanone	50.0	49.6	99	45 - 145	
Iodomethane	50.0	51.2	102	58 - 142	
Methylene Chloride	50.0	53.8	108	55 - 140	
Methyl Ethyl Ketone	50.0	48.9	98	30 - 160	
methyl isobutyl ketone	50.0	50.4	101	45 - 145	
Methyl methacrylate	50.0	44.7	89	80 - 132	
Methyl tert-butyl ether	50.0	53.7	107	78 - 126	
2-Nitropropane	50.0	52.2	104	54 - 123	
Styrene	50.0	44.8	90	75 - 125	
1,1,2,2-Tetrachloroethane	50.0	47.2	94	55 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4634-1

Laboratory Control Sample - Batch: 560-11383

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 560-11383/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/14/2007 1149
Date Prepared: 05/14/2007 1149

Analysis Batch: 560-11383
Prep Batch: N/A
Units: ug/Kg

Instrument ID: Agilent GCMS [Method 826
Lab File ID: 05140703.D
Initial Weight/Volume: 5.00 g
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tetrachloroethene	50.0	43.1	86	65 - 140	
Toluene	50.0	41.7	83	70 - 125	
trans-1,2-Dichloroethene	50.0	47.6	95	65 - 135	
trans-1,3-Dichloropropene	50.0	45.9	92	65 - 125	
1,2,3-Trichlorobenzene	50.0	50.6	101	60 - 135	
1,1,1-Trichloroethane	50.0	48.9	98	70 - 135	
1,1,2-Trichloroethane	50.0	46.6	93	60 - 125	
Trichloroethene	50.0	43.9	88	75 - 125	
Trichlorofluoromethane	50.0	51.2	102	25 - 185	
1,2,3-Trichloropropane	50.0	51.9	104	65 - 130	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	41.5	83	64 - 120	
1,3,5-Trimethylbenzene	50.0	43.4	87	65 - 135	
1,2,4-Trimethylbenzene	50.0	43.9	88	65 - 135	
Vinyl acetate	50.0	48.3	97	80 - 153	
Vinyl chloride	50.0	46.7	93	60 - 125	
Xylenes, Total	150	130	87	80 - 120	

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane (Surr)	102	59 - 120
1,2-Dichloroethane-d4 (Surr)	104	71 - 120
Toluene-d8 (Surr)	89	57 - 120
4-Bromofluorobenzene (Surr)	92	47 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4634-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 560-11383

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 560-4634-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/14/2007 1500
Date Prepared: 05/14/2007 1500

Analysis Batch: 560-11383
Prep Batch: N/A

Instrument ID: Agilent GCMS [Method 826
Lab File ID: 05140710.D
Initial Weight/Volume: 5.15 mL
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 560-4634-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/14/2007 1526
Date Prepared: 05/14/2007 1526

Analysis Batch: 560-11383
Prep Batch: N/A

Instrument ID: Agilent GCMS [Method 826
Lab File ID: 05140711.D
Initial Weight/Volume: 5.14 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	84	94	20 - 160	10.3	30.0		
Acetonitrile	90	91	60 - 151	1.3	30.0		
Acrolein	85	89	50 - 175	4.9	30.0		
Acrylonitrile	88	94	77 - 123	6.3	30.0		
Benzene	88	84	75 - 125	4.4	30.0		
Bromoform	68	74	55 - 135	8.9	30.0		
Bromomethane	94	90	30 - 160	4.8	30.0		
Carbon disulfide	86	81	45 - 160	5.2	30.0		
Carbon tetrachloride	79	79	65 - 135	0.5	30.0		
Chlorobenzene	85	83	75 - 125	3.1	30.0		
Chlorodibromomethane	87	90	65 - 130	3.7	30.0		
Chloroethane	87	84	40 - 155	3.7	30.0		
Chloroform	93	89	70 - 125	3.6	30.0		
Chloromethane	86	82	50 - 130	4.6	30.0		
cis-1,2-Dichloroethene	91	88	65 - 125	3.4	30.0		
cis-1,3-Dichloropropene	75	75	70 - 125	0.5	30.0		
Dibromomethane	93	94	75 - 130	1.3	30.0		
Dichlorobromomethane	92	90	70 - 130	1.1	30.0		
Dichlorodifluoromethane	67	65	35 - 135	3.6	30.0		
1,1-Dichloroethane	90	86	75 - 125	3.5	30.0		
1,2-Dichloroethane	98	95	70 - 135	2.8	30.0		
1,1-Dichloroethene	78	76	65 - 135	2.0	30.0		
2,2-Dichloropropane	92	88	65 - 135	4.4	30.0		
1,2-Dichloropropane	91	89	70 - 120	2.5	30.0		
1,3-Dichloropropane	90	91	75 - 125	1.4	30.0		
1,1-Dichloropropene	80	75	70 - 135	6.2	30.0		
1,4-Dioxane	80	86	70 - 135	7.3	30.0		
Ethyl acetate	91	102	75 - 120	11.0	30.0		
Ethylbenzene	83	80	75 - 125	4.2	30.0		
Ethylene Dibromide	91	95	70 - 125	4.3	30.0		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4634-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 560-11383

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 560-4634-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/14/2007 1500
Date Prepared: 05/14/2007 1500

Analysis Batch: 560-11383
Prep Batch: N/A

Instrument ID: Agilent GCMS [Method 826
Lab File ID: 05140710.D
Initial Weight/Volume: 5.15 mL
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 560-4634-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/14/2007 1526
Date Prepared: 05/14/2007 1526

Analysis Batch: 560-11383
Prep Batch: N/A

Instrument ID: Agilent GCMS [Method 826
Lab File ID: 05140711.D
Initial Weight/Volume: 5.14 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ethyl ether	99	100	80 - 131	0.7	30.0		
Ethyl methacrylate	81	86	45 - 121	6.4	30.0		
2-Hexanone	81	97	45 - 145	18.3	30.0		
Iodomethane	94	90	58 - 142	4.3	30.0		
Methylene Chloride	95	93	55 - 140	1.6	30.0		
Methyl Ethyl Ketone	83	93	30 - 160	12.1	30.0		
methyl isobutyl ketone	90	97	45 - 145	8.6	30.0		
Methyl methacrylate	85	95	80 - 132	10.6	30.0		
Methyl tert-butyl ether	99	98	78 - 126	0.9	30.0		
2-Nitropropane	82	98	54 - 123	17.8	30.0		
Styrene	89	85	75 - 125	4.3	30.0		
1,1,2,2-Tetrachloroethane	89	93	55 - 130	4.9	30.0		
Tetrachloroethene	79	76	65 - 140	3.7	30.0		
Toluene	84	80	70 - 125	5.1	30.0		
trans-1,2-Dichloroethene	87	83	65 - 135	4.4	30.0		
trans-1,3-Dichloropropene	95	96	65 - 125	1.6	30.0		
1,2,3-Trichlorobenzene	95	91	60 - 135	4.1	30.0		
1,1,1-Trichloroethane	86	83	70 - 135	3.0	30.0		
1,1,2-Trichloroethane	92	93	60 - 125	1.3	30.0		
Trichloroethene	82	79	75 - 125	4.1	30.0		
Trichlorofluoromethane	86	81	25 - 185	5.6	30.0		
1,2,3-Trichloropropane	97	102	65 - 130	4.9	30.0		
1,1,2-Trichloro-1,2,2-trifluoroethane	74	71	64 - 120	3.1	30.0		
1,3,5-Trimethylbenzene	84	79	65 - 135	5.6	30.0		
1,2,4-Trimethylbenzene	85	81	65 - 135	4.7	30.0		
Vinyl acetate	87	93	80 - 153	6.7	30.0		
Vinyl chloride	83	77	60 - 125	6.3	30.0		
Xylenes, Total	83	79	80 - 120	4.8	30.0		F

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4634-1

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Dibromofluoromethane (Surr)	95	92	59 - 120
1,2-Dichloroethane-d4 (Surr)	95	95	71 - 120
Toluene-d8 (Surr)	85	84	57 - 120
4-Bromofluorobenzene (Surr)	85	87	47 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4634-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 560-11383

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 560-4634-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/14/2007 1500
Date Prepared: 05/14/2007 1500

Units: ug/Kg

MSD Lab Sample ID: 560-4634-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/14/2007 1526
Date Prepared: 05/14/2007 1526

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Acetone	9.3	J	57.0	57.1	57.0	63.2
Acetonitrile	ND		570	571	512	519
Acrolein	ND		570	571	484	509
Acrylonitrile	ND		570	571	504	536
Benzene	ND		57.0	57.1	50.3	48.2
Bromoform	ND		57.0	57.1	38.7	42.3
Bromomethane	ND		57.0	57.1	53.7	51.2
Carbon disulfide	ND		57.0	57.1	48.9	46.4
Carbon tetrachloride	ND		57.0	57.1	44.8	45.1
Chlorobenzene	ND		57.0	57.1	48.6	47.1
Chlorodibromomethane	ND		57.0	57.1	49.5	51.3
Chloroethane	ND		57.0	57.1	49.6	47.8
Chloroform	ND		57.0	57.1	52.9	51.0
Chloromethane	ND		57.0	57.1	48.8	46.6
cis-1,2-Dichloroethene	ND		57.0	57.1	52.1	50.3
cis-1,3-Dichloropropene	ND		57.0	57.1	42.9	42.7
Dibromomethane	ND		57.0	57.1	52.8	53.5
Dichlorobromomethane	ND		57.0	57.1	52.2	51.7
Dichlorodifluoromethane	ND		57.0	57.1	38.2	36.9
1,1-Dichloroethane	ND		57.0	57.1	51.1	49.3
1,2-Dichloroethane	ND		57.0	57.1	55.6	54.0
1,1-Dichloroethene	3.0	J	57.0	57.1	47.7	46.7
2,2-Dichloropropane	ND		57.0	57.1	52.6	50.4
1,2-Dichloropropane	ND		57.0	57.1	52.1	50.8
1,3-Dichloropropane	ND		57.0	57.1	51.5	52.2
1,1-Dichloropropene	ND		57.0	57.1	45.4	42.6
1,4-Dioxane	ND		1140	1140	910	980
Ethyl acetate	ND		57.0	57.1	52.0	58.0
Ethylbenzene	ND		57.0	57.1	47.4	45.4
Ethylene Dibromide	ND		57.0	57.1	51.8	54.1
Ethyl ether	ND		57.0	57.1	56.5	56.9
Ethyl methacrylate	ND		57.0	57.1	46.3	49.4
2-Hexanone	ND		57.0	57.1	46.3	55.7
Iodomethane	ND		57.0	57.1	53.6	51.4
Methylene Chloride	6.8	J	57.0	57.1	60.7	59.8
Methyl Ethyl Ketone	ND		57.0	57.1	47.2	53.3
methyl isobutyl ketone	ND		57.0	57.1	51.0	55.6
Methyl methacrylate	ND		57.0	57.1	48.7	54.2
Methyl tert-butyl ether	ND		57.0	57.1	56.5	56.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4634-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 560-11383

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 560-4634-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/14/2007 1500
Date Prepared: 05/14/2007 1500

Units: ug/Kg

MSD Lab Sample ID: 560-4634-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/14/2007 1526
Date Prepared: 05/14/2007 1526

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
2-Nitropropane	ND	57.0	57.1	47.0	56.2	
Styrene	ND	57.0	57.1	50.8	48.7	
1,1,2,2-Tetrachloroethane	ND	57.0	57.1	50.5	53.0	
Tetrachloroethene	ND	57.0	57.1	45.3	43.7	
Toluene	ND	57.0	57.1	47.9	45.6	
trans-1,2-Dichloroethene	ND	57.0	57.1	49.3	47.2	
trans-1,3-Dichloropropene	ND	57.0	57.1	54.1	55.0	
1,2,3-Trichlorobenzene	ND	57.0	57.1	53.9	51.8	
1,1,1-Trichloroethane	ND	57.0	57.1	48.8	47.4	
1,1,2-Trichloroethane	ND	57.0	57.1	52.7	53.4	
Trichloroethene	ND	57.0	57.1	46.8	44.9	
Trichlorofluoromethane	ND	57.0	57.1	49.2	46.5	
1,2,3-Trichloropropane	ND	57.0	57.1	55.3	58.1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	57.0	57.1	42.1	40.8	
1,3,5-Trimethylbenzene	ND	57.0	57.1	48.0	45.4	
1,2,4-Trimethylbenzene	ND	57.0	57.1	48.5	46.3	
Vinyl acetate	ND	57.0	57.1	49.5	53.0	
Vinyl chloride	ND	57.0	57.1	47.0	44.2	
Xylenes, Total	ND	171	171	142	135	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4634-1

Method Blank - Batch: 560-11358

Method: 8270C
Preparation: 3550B

Lab Sample ID: MB 560-11358/1-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/14/2007 1344
Date Prepared: 05/11/2007 0900

Analysis Batch: 560-11401
Prep Batch: 560-11358
Units: ug/Kg

Instrument ID: Agilent GCMS [Method 8270
Lab File ID: 05140710.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result	Qual	MDL	RL
Acenaphthene	ND		50	330
Acenaphthylene	ND		50	330
Anthracene	ND		50	330
Benzo[a]anthracene	ND		50	330
Benzo[a]pyrene	ND		50	330
Benzo[b]fluoranthene	ND		50	330
Benzo[g,h,i]perylene	ND		50	330
Benzo[k]fluoranthene	ND		50	330
Benzyl alcohol	ND		50	330
Bis(2-chloroethoxy)methane	ND		50	330
Bis(2-chloroethyl)ether	ND		37	330
Bis(2-ethylhexyl) phthalate	ND		50	330
4-Bromophenyl phenyl ether	ND		50	330
Butyl benzyl phthalate	ND		50	330
4-Chloroaniline	ND		170	330
4-Chloro-3-methylphenol	ND		50	330
2-Chloronaphthalene	ND		50	330
2-Chlorophenol	ND		28	330
4-Chlorophenyl phenyl ether	ND		50	330
Chrysene	ND		50	330
Dibenz(a,h)anthracene	ND		50	330
Dibenzofuran	ND		50	330
1,3-Dichlorobenzene	ND		44	330
1,4-Dichlorobenzene	ND		46	330
1,2-Dichlorobenzene	ND		52	330
3,3'-Dichlorobenzidine	ND		170	330
2,4-Dichlorophenol	ND		50	330
Diethyl phthalate	ND		50	330
2,4-Dimethylphenol	ND		50	330
Dimethyl phthalate	ND		50	330
Di-n-butyl phthalate	ND		50	330
4,6-Dinitro-2-methylphenol	ND		170	1700
2,4-Dinitrophenol	ND		330	1700
2,6-Dinitrotoluene	ND		50	330
2,4-Dinitrotoluene	ND		170	330
Di-n-octyl phthalate	ND		50	330
Fluoranthene	ND		50	330
Fluorene	ND		50	330
Hexachlorobenzene	ND		50	330
Hexachlorobutadiene	ND		45	330
Hexachlorocyclopentadiene	ND		67	670

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4634-1

Method Blank - Batch: 560-11358

Method: 8270C
Preparation: 3550B

Lab Sample ID: MB 560-11358/1-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/14/2007 1344
Date Prepared: 05/11/2007 0900

Analysis Batch: 560-11401
Prep Batch: 560-11358
Units: ug/Kg

Instrument ID: Agilent GCMS [Method 8270
Lab File ID: 05140710.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result	Qual	MDL	RL
Hexachloroethane	ND		50	330
Indeno[1,2,3-cd]pyrene	ND		50	330
Isophorone	ND		50	330
2-Methylnaphthalene	ND		31	330
2-Methylphenol	ND		33	330
3 & 4 Methylphenol	ND		50	330
Naphthalene	ND		42	330
2-Nitroaniline	ND		50	330
3-Nitroaniline	ND		170	330
4-Nitroaniline	ND		28	330
Nitrobenzene	ND		36	330
2-Nitrophenol	ND		50	330
4-Nitrophenol	ND		170	1700
N-Nitrosodi-n-propylamine	ND		50	330
N-Nitrosodiphenylamine	ND		50	330
2,2'-oxybis(2-chloropropane)	ND		41	330
Pentachlorophenol	ND		170	1700
Phenanthrene	ND		50	330
Phenol	ND		50	330
Pyrene	ND		50	330
1,2,4-Trichlorobenzene	ND		46	330
2,4,6-Trichlorophenol	ND		50	330
2,4,5-Trichlorophenol	ND		50	330

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	91	45 - 105
2-Fluorophenol	89	35 - 105
Nitrobenzene-d5	83	35 - 100
Phenol-d5	88	40 - 100
Terphenyl-d14	102	30 - 125
2,4,6-Tribromophenol	102	35 - 125

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4634-1

Laboratory Control Sample - Batch: 560-11358

Method: 8270C
Preparation: 3550B

Lab Sample ID: LCS 560-11358/2-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/14/2007 1413
Date Prepared: 05/11/2007 0900

Analysis Batch: 560-11401
Prep Batch: 560-11358
Units: ug/Kg

Instrument ID: Agilent GCMS [Method 827
Lab File ID: 05140711.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	3330	2860	86	45 - 110	
Acenaphthylene	3330	2870	86	45 - 105	
Anthracene	3330	2910	87	55 - 105	
Benzo[a]anthracene	3330	3000	90	50 - 110	
Benzo[a]pyrene	3330	2980	89	50 - 110	
Benzo[b]fluoranthene	3330	3160	95	45 - 115	
Benzo[g,h,i]perylene	3330	2960	89	40 - 125	
Benzo[k]fluoranthene	3330	2930	88	45 - 125	
Benzyl alcohol	3330	3170	95	20 - 125	
Bis(2-chloroethoxy)methane	3330	2750	83	45 - 110	
Bis(2-chloroethyl)ether	3330	2480	74	40 - 105	
Bis(2-ethylhexyl) phthalate	3330	2940	88	45 - 125	
4-Bromophenyl phenyl ether	3330	3070	92	45 - 115	
Butyl benzyl phthalate	3330	2980	89	50 - 125	
4-Chloroaniline	3330	1620	49	25 - 125	
4-Chloro-3-methylphenol	3330	3020	91	45 - 115	
2-Chloronaphthalene	3330	2770	83	50 - 120	
2-Chlorophenol	3330	2860	86	45 - 105	
4-Chlorophenyl phenyl ether	3330	3070	92	45 - 110	
Chrysene	3330	2970	89	55 - 110	
Dibenz(a,h)anthracene	3330	3070	92	40 - 125	
Dibenzofuran	3330	2900	87	50 - 105	
1,3-Dichlorobenzene	3330	2470	74	40 - 100	
1,4-Dichlorobenzene	3330	2510	75	35 - 105	
1,2-Dichlorobenzene	3330	2550	77	45 - 95	
3,3'-Dichlorobenzidine	3330	2240	67	25 - 128	
2,4-Dichlorophenol	3330	2970	89	45 - 110	
Diethyl phthalate	3330	3010	90	50 - 115	
2,4-Dimethylphenol	3330	2970	89	30 - 105	
Dimethyl phthalate	3330	3030	91	50 - 110	
Di-n-butyl phthalate	3330	3060	92	55 - 110	
4,6-Dinitro-2-methylphenol	3330	3140	94	30 - 135	
2,4-Dinitrophenol	3330	3200	96	15 - 130	
2,6-Dinitrotoluene	3330	3060	92	50 - 110	
2,4-Dinitrotoluene	3330	3010	90	50 - 115	
Di-n-octyl phthalate	3330	3060	92	40 - 130	
Fluoranthene	3330	3050	91	55 - 115	
Fluorene	3330	2980	89	50 - 110	
Hexachlorobenzene	3330	3090	93	45 - 120	
Hexachlorobutadiene	3330	2700	81	40 - 115	
Hexachlorocyclopentadiene	3330	2400	72	44 - 120	
Hexachloroethane	3330	2400	72	35 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4634-1

Laboratory Control Sample - Batch: 560-11358

Method: 8270C
Preparation: 3550B

Lab Sample ID: LCS 560-11358/2-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/14/2007 1413
Date Prepared: 05/11/2007 0900

Analysis Batch: 560-11401
Prep Batch: 560-11358
Units: ug/Kg

Instrument ID: Agilent GCMS [Method 827
Lab File ID: 05140711.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Indeno[1,2,3-cd]pyrene	3330	3030	91	40 - 120	
Isophorone	3330	2570	77	45 - 110	
2-Methylnaphthalene	3330	2860	86	45 - 105	
2-Methylphenol	3330	2990	90	40 - 105	
3 & 4 Methylphenol	6670	6270	94	40 - 105	
Naphthalene	3330	2650	80	40 - 105	
2-Nitroaniline	3330	2820	85	45 - 120	
3-Nitroaniline	3330	2160	65	25 - 110	
4-Nitroaniline	3330	2790	84	35 - 115	
Nitrobenzene	3330	2540	76	40 - 115	
2-Nitrophenol	3330	2800	84	40 - 110	
4-Nitrophenol	3330	3620	109	15 - 140	
N-Nitrosodi-n-propylamine	3330	2820	84	40 - 115	
N-Nitrosodiphenylamine	3330	2920	88	50 - 115	
2,2'-oxybis(2-chloropropane)	3330	2540	76	20 - 115	
Pentachlorophenol	3330	3100	93	25 - 120	
Phenanthrene	3330	2970	89	50 - 110	
Phenol	3330	2650	80	40 - 100	
Pyrene	3330	2950	88	45 - 125	
1,2,4-Trichlorobenzene	3330	2660	80	45 - 110	
2,4,6-Trichlorophenol	3330	3110	93	45 - 110	
2,4,5-Trichlorophenol	3330	3090	93	50 - 110	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	88	45 - 105
2-Fluorophenol	88	35 - 105
Nitrobenzene-d5	81	35 - 100
Phenol-d5	91	40 - 100
Terphenyl-d14	104	30 - 125
2,4,6-Tribromophenol	105	35 - 125

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4634-1

Method Blank - Batch: 560-11351

Method: TX 1005
Preparation: TX_1005_S_Prep

Lab Sample ID: MB 560-11351/1-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/11/2007 1736
Date Prepared: 05/11/2007 1400

Analysis Batch: 560-11387
Prep Batch: 560-11351
Units: mg/Kg

Instrument ID: Hewlett Packard GC [Methoc
Lab File ID: 05110732.D
Initial Weight/Volume: 10.00 g
Final Weight/Volume: 10.0 mL
Injection Volume:

Analyte	Result	Qual	MDL	RL
>C12-C28	ND		6.0	50
>C28-C35	ND		6.0	50
C6-C12	ND		6.0	50
Total Petroleum Hydrocarbons (C6-C35)	ND		6.0	50

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	93	70 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 560-11351

Method: TX 1005
Preparation: TX_1005_S_Prep

LCS Lab Sample ID: LCS 560-11351/2-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/11/2007 1745
Date Prepared: 05/11/2007 1400

Analysis Batch: 560-11387
Prep Batch: 560-11351
Units: mg/Kg

Instrument ID: Hewlett Packard GC
Lab File ID: 05110733.D
Initial Weight/Volume: 10.00 g
Final Weight/Volume: 10.0 mL
Injection Volume:

LCSD Lab Sample ID: LCSD 560-11351/3-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/11/2007 1753
Date Prepared: 05/11/2007 1400

Analysis Batch: 560-11387
Prep Batch: 560-11351
Units: mg/Kg

Instrument ID: Hewlett Packard GC
Lab File ID: 05110734.D
Initial Weight/Volume: 10.04 g
Final Weight/Volume: 10.0 mL
Injection Volume:

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Petroleum Hydrocarbons (C6-C35)	84	92	75 - 125	9	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	82	88	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4634-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 560-11351

Method: TX 1005
Preparation: TX_1005_S_Prep

LCS Lab Sample ID: LCS 560-11351/2-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/11/2007 1745
Date Prepared: 05/11/2007 1400

Units: mg/Kg

LCSD Lab Sample ID: LCSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/11/2007 1753
Date Prepared: 05/11/2007 1400

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Petroleum Hydrocarbons (C6-C35)	250	249	210	230

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 560-11351

Method: TX 1005
Preparation: TX_1005_S_Prep

MS Lab Sample ID: 560-4634-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/11/2007 1811
Date Prepared: 05/11/2007 1400

Analysis Batch: 560-11387
Prep Batch: 560-11351

Instrument ID: Hewlett Packard GC [Meth
Lab File ID: 05110736.D
Initial Weight/Volume: 10.00 g
Final Weight/Volume: 10.0 mL
Injection Volume:

MSD Lab Sample ID: 560-4634-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/11/2007 1819
Date Prepared: 05/11/2007 1400

Analysis Batch: 560-11387
Prep Batch: 560-11351

Instrument ID: Hewlett Packard GC [Meth
Lab File ID: 05110737.D
Initial Weight/Volume: 10.00 g
Final Weight/Volume: 10.0 mL
Injection Volume:

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Petroleum Hydrocarbons (C6-C35)	102	99	75 - 125	3	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	100	98	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4634-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 560-11351

Method: TX 1005
Preparation: TX_1005_S_Prep

MS Lab Sample ID: 560-4634-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/11/2007 1811
Date Prepared: 05/11/2007 1400

Units: mg/Kg

MSD Lab Sample ID: 560-4634-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/11/2007 1819
Date Prepared: 05/11/2007 1400

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Petroleum Hydrocarbons (C6-C35)	ND	294	294	300	290

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Kleinfelder Inc

Job Number: 560-4634-1

Matrix Duplicate - Batch: 560-11370

Method: PercentMoisture
Preparation: N/A

Lab Sample ID: 560-4634-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/14/2007 0835
Date Prepared: N/A

Analysis Batch: 560-11370
Prep Batch: N/A
Units: %

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	15	15.4	4	20	
Percent Solids	85	84.6	1	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT SERVICES

STL Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408

13.1 IR
just sampled once

No. 007767

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: KLEINFELDER	PROJECT NAME/NUMBER: FALCON / 59752
SEND REPORT TO: STEVE HALASZ	**BILLING INFORMATION**
ADDRESS: 3601 MANOR ROAD	BILL TO: KLEINFELDER
AUSTIN, TX 78723	ADDRESS: 3601 MANOR ROAD
	AUSTIN, TX 78723
PHONE: 512 926 6650	PHONE: 512 926 6650
FAX: 512 926 3312	FAX: 512926 3312 PO NO.:

LAB JOB NO. 4634

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	VOCs	SVOCs	TPH						REMARKS/PRECAUTIONS
FLOOR 1	TAN SAND	5.11.07	09:30		9 OZ		1	X	X	X						

SAMPLER: PAUL SUPAK SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☒ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Paul Supak	10:45	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: PAUL SUPAK / KLEINFELDER	TIME 5/11/07	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	05/11/07	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Vivian E McDermott STL	TIME 1045	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

STL Corpus Christi is a part of Severn Trent Laboratories, Inc.

STL-8222-CC (0700)

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Kleinfelder Inc

Job Number: 560-4634-1

Login Number: 4634

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	JUST SAMPLED
Cooler Temperature is recorded.	True	13.1C IR 1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	NA	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

SEVERN TRENT SERVICES

STL Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408

13.1 IR
just sampled once

No. 007767

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: KLEINFELDER	PROJECT NAME/NUMBER: FALCON / 59752
SEND REPORT TO: STEVE HALASZ	**BILLING INFORMATION**
ADDRESS: 3601 MANOR ROAD	BILL TO: KLEINFELDER
AUSTIN, TX 78723	ADDRESS: 3601 MANOR ROAD
	AUSTIN, TX 78723
PHONE: 512 926 6650	PHONE: 512 926 6650
FAX: 512 926 3312	FAX: 512926 3312 PO NO.:

LAB JOB NO.: 4634

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	VOCs	SVOCs	TPH					REMARKS/PRECAUTIONS
FLOOR 1	TAN SAND	5.11.07	09:30		9 oz		1	X	X	X					

SAMPLER: PAUL SUPAK
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☒ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER _____

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Paul Supak	10:45	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: PAUL SUPAK / KLEINFELDER	TIME 5/11/07	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	05/11/07	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Vivian McDermott STL	TIME 1045	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

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STL-8222-CC (0700)

PHOTOS

Photograph No. 1

Area 1, with current barge dock facility in the background.

Photograph No. 2

Area 3 – Ten pipelines exposed.

Photograph No. 3

Area 4 excavation

Photograph No. 4

Impacted soil prior to pipeline cutting

Photograph No. 5

Excavation is vacuumed out.

Photograph No. 6

Pipelines are cut and excavation is vacuumed out.

Photograph No. 7

Impacted soil placed temporarily on plastic liner.

Photograph No. 8

Impacted sediment placed in roll off boxes.

Photograph No. 9

Pipelines are jetted clean.

Photograph No. 10

Fluid is vacuumed while jetting is performed.

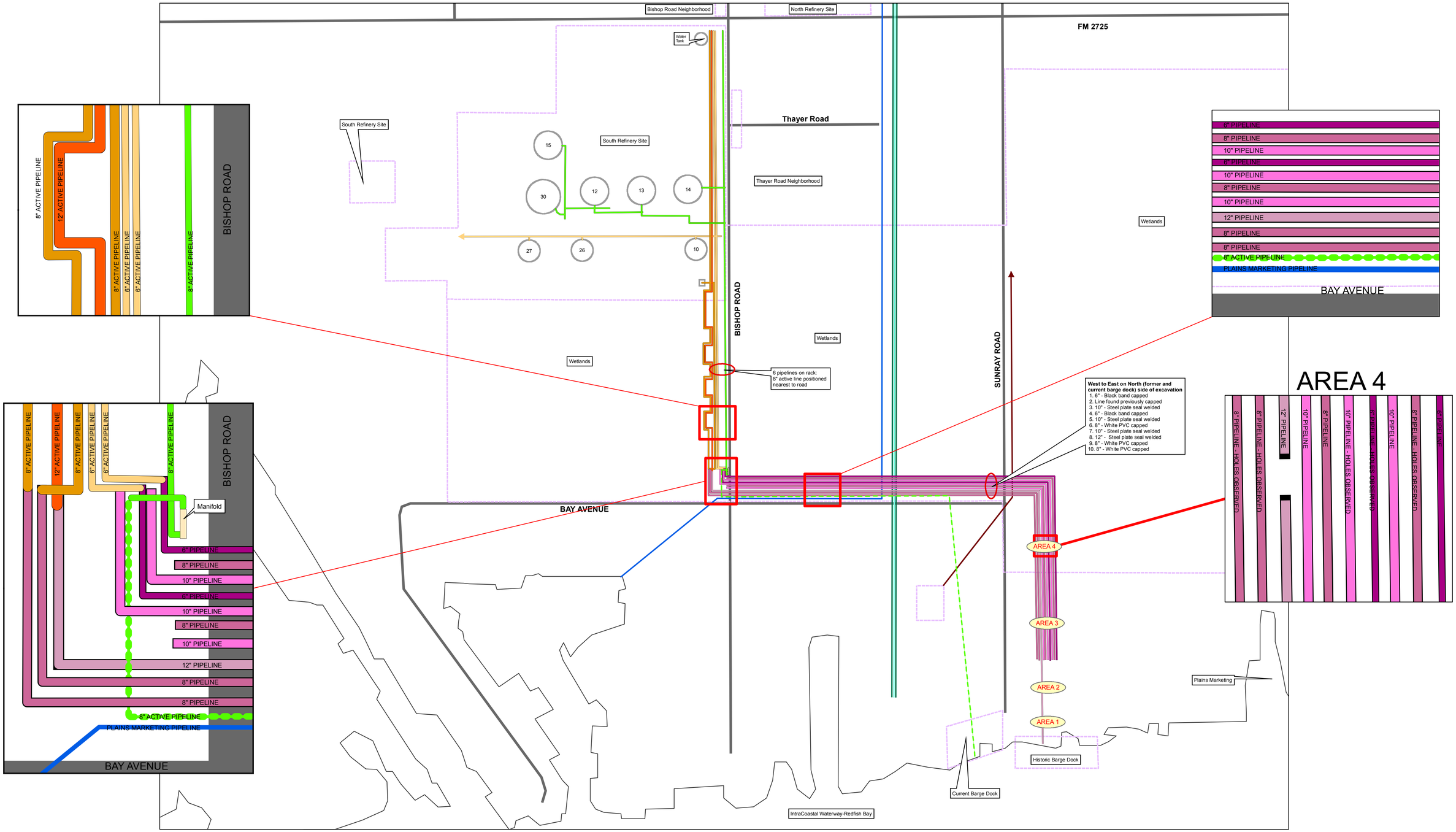
Photograph No. 11

Pipelines are capped.

Photograph No. 12

Soil is covered pending waste disposal.

FIGURE



Legend

- Roads
- Area Descriptions
- Tank

Active Pipeline
- 8" Above Ground
- 8" Underground

Abandoned Pipeline
- 12" Above Ground
- 8" Above Ground
- 6" Above Ground

Abandoned Pipeline
- 12" Underground
- 10" Underground
- 8" Underground
- 6" Underground

Outside Operations
- Gulf South Pipelines
- Boss Pipeline
- Gathering Line 2"
- Plains Marketing Pipeline

N W E S

0 225 450 Feet

Figure 1

SITE MAP

Falcon Refinery
Ingleside, San Patricio County, Texas

Project No. 59752

Filename: Falcon Refinery w/o Aerial. mxd

KLEINFELDER EXPECT MORE
1340 Charwood Road, Suite I • Hanover, MD 21076 • (866) 862-9760

Drawn By: MAEA
Revised By: BNM
Checked By:
Date: 6/13/2007