URS

September 28, 2007

Mr. Steven Nightingale, P.E.
Manager, Permit Section
Bureau of Land
Illinois Environmental Protection Agency
1021 North Grand Avenue East
Springfield, Illinois 62794

Subject: **West Fenceline P-93 Dissolved Phase Benzene Investigation**
Shell Oil Products US/ConocoPhillips Company
WRB Refining LLC Wood River Refinery, Roxana, Illinois

Dear Mr. Nightingale:

INTRODUCTION AND OBJECTIVES

Shell Oil Products U.S. (SOPUS) with the cooperation of ConocoPhillips Company (ConocoPhillips) conducted a subsurface investigation at and outside of the WRB Refining LLC Wood River Refinery (WRR) in Roxana, Illinois. WRB, formed January 1, 2007, is a 50/50 joint venture between ConocoPhillips (COP) and EnCana US Refineries LLC. The facility is owned by WRB and operated by COP employees. The subsurface investigation was conducted to gather information in the area of monitoring well P-93. Beginning in 2005, increased benzene concentrations in groundwater have been observed in some of the P-93 monitoring wells (i.e., P-93A and P-93B) located near the west fenceline of the refinery North Property.

URS Corporation (URS), on behalf of SOPUS, performed a subsurface investigation in 2006 to help gather information on the extent of benzene impacts. The subsurface investigation focused on the area between a historical release site and the west fenceline of the WRR. The benzene release occurred on January 30, 1986, from an underground pipeline located just northwest of the Route 111 and Rand Avenue intersection (**Figure 1**). At the time of the release, product at the surface was recovered to the extent possible. Shortly after the release, the line was abandoned in place and relocated aboveground. This report summarizes the results of this investigation.

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INVESTIGATION PROCEDURES

The field investigation was performed in accordance with the West Fenceline P-93 Dissolved Phase Work Plan developed for this project. In addition, URS standard operating procedures and SOPUS' and COP's protocols were followed. The field investigation was conducted during multiple mobilizations between March 1st and April 12th, 2006. A dynamic investigation approach was used, in that various technologies were used to assess the extent of benzene impacts, and the results of prior work focused the efforts of subsequent work. The technologies utilized were groundwater sampling of existing wells, Cone Penetrometer Testing (CPT)/Membrane Interface Probe (MIP), and groundwater profiling,

Groundwater Sampling

Existing monitoring wells in the area of well P-93A (e.g., P-57, P-58, P-66, P-73, P-75, P-93A and P-93B) were sampled to assess dissolved benzene concentrations in groundwater. Monitoring well locations are shown on **Figure 2**.

Prior to sampling, product levels (if present), water levels and total depths were measured using an electronic interface probe and recorded on groundwater sampling forms and in the site logbook. This information is summarized in **Table 1**. Light non-aqueous phase liquid (LNAPL) was observed in two monitoring wells, P-73 and P-75, at thicknesses of 1.48 and 1.04 feet, respectively. Based on historical gauging information, these wells typically contain NAPL which appears characteristic of refined mixtures and not benzene. A similar LNAPL thickness was noted in monitoring well P-73 at the time of sampling, LNAPL was not observed in monitoring well P-75 at the time of sampling. Based on COP monitoring information, groundwater flow in the area investigated is generally to the east towards pumping centers located at the WRR.

Groundwater samples were collected with a submersible pump (i.e., Super Twister®) after a minimum of three well volumes were removed. Field measurements (e.g. pH, conductivity, and temperature) were recorded on groundwater sampling sheets (**Attachment A)** and are also included on **Table 1**. The collected groundwater samples were analyzed for volatile organic compounds (VOCs) via USEPA SW-846 Method 8260B.

Each sample container was labeled with a sample identification number, site name, sampler's initials, date and time of sample collection, preservative, and the parameters to be analyzed. Field personnel also recorded the sample description/location, required analysis, date and time of sample collection, type and matrix of samples, number of sample containers, analysis requested/comments, and sampler signature/date/time, with permanent ink on the Chain-of-Custody (COC) form at the time of sampling. COC forms are included in **Attachment B**.

Cone Penetrometer Testing/Membrane Interface Probe

Nine CPT/MIP probes, designated (P-93-01 through P-93-02 and P-93-04 through P-93-10), were completed to gain information on the geology of the area and to gather information on the extent of dissolved phase hydrocarbons in groundwater. A probe was not able to be completed at P-93-03 due to poor site conditions. The CPT technology is used to gather information on the geology, while the MIP is used to gather information on petroleum impacts. The probes were completed to depths ranging from approximately 43 to 71 feet (bgs) by Fugro Geosciences, Inc. of Houston, Texas. CPT/MIP locations can be viewed in **Figure 3**. CPT/MIP probes were advanced through sand-filled boreholes which were previously cleared of potential subsurface utilities using an air-knife.

CPT probes were completed by hydraulically pushing a cone, equipped with a pore pressure transducer, through the soil at a consistent rate of 2 cm/sec. The cone has a tip cross sectional area of 15 cm^2 and a friction sleeve area of 200 cm^2. Measurements were collected for resistance to penetration, sleeve friction and pore pressure once per second during advancement of each boring. These measurements provided soil property data, which were converted to a stratigraphic profile for each boring. The results of the CPT probes are provided in **Table 2** and CPT Logs can be viewed in **Attachment C**.

The MIP probe was advanced at each location through the length of the boring using conventional hydraulic pressure. The probe continuously collected conductivity, speed, and temperature readings as the probe was advanced. At one foot intervals the MIP probe was stopped and heated to 80 to 125 degrees Celsius. In turn, the residual hydrocarbons in the material surrounding the probe were heated, causing them to partition through a permeable membrane on the probe. The VOCs entered a stream of carrier gas and were delivered to three gas chromatograph (GC) detectors at the surface for processing. The three detectors used were a flame-ionization detector (FID), photoionization detector (PID), and electron capture detector

(ECD). The FID detector was used preferentially to the PID and ECD as it provides a better response to hydrocarbons. The results of the MIP probes (in Volts) are provided in **Table 2** and MIP Logs are also included in **Attachment C**.

Upon completion, each probe hole was backfilled with high solids bentonite grout via the tremmie method and the surface was returned to its original condition.

Groundwater Profiling

Groundwater profiling was performed to obtain groundwater samples from various depths at six locations (i.e., P-93-02, P-93-03, P-93-05, P-93-06, P-93-09 and P-93-11). Groundwater profile locations are shown in **Figure 2**. Locations and sample depths for groundwater profiling were selected based on the results of the MIP work. Groundwater profiling was performed by Roberts Environmental Drilling, Inc. of Millstadt, Illinois. Groundwater profiling probes were advanced through sand-filled boreholes which were previously cleared of potential subsurface utilities using an air-knife.

Groundwater profiling was conducted using a four foot long, mill-slotted sampler advanced using direct push techniques (e.g., Geoprobe®). As mentioned above, sampling depths were chosen based on the results of the CPT/MIP work. The first sample depth was chosen based on where groundwater was first encountered. This sample depth ranged from 40 to 52 feet bgs. The second sample depth was primarily based on the highest MIP result below the water table, or if the MIP did not extend deep enough into the water table, approximately 15 feet below the top of the water table. The second sample depth ranged from 58 to 66 feet bgs.

Once the sampler was advanced to the predetermined depth, the water level was measured using an electronic interface probe and recorded on a groundwater sampling form. Free-phase LNAPL was not observed during groundwater profiling. Dedicated polyethylene tubing equipped with a ball and check valve system was placed down into the slotted portion of the sampler and set at approximately the middle of the screened interval (2 feet from the bottom of the screen). The tubing was then connected through a Waterra® pump to a flow-through cell. Groundwater samples were collected after a minimum of three tubing volumes were removed. Field measurements (e.g., pH, conductivity, and temperature) were measured and recorded on

groundwater sampling sheets included in **Attachment A**. The collected groundwater samples were analyzed for VOCs via USEPA SW-846 Method 8260B.

Samples were collected as described in the groundwater sampling section above. COC forms are included in **Attachment B**. A new section of tubing measured to the appropriate length was used at every sampling interval. Upon completion of each groundwater profiling probe, each borehole was filled with grout from the bottom up using the Geoprobe® rods as a tremmie pipe, and the surface was returned to its original condition.

Quality Assurance/Quality Control Sampling and Data Validation

Quality assurance and quality control (QA/QC) samples were collected in accordance with the work plan. The QA/QC samples and their collection frequencies, with respect to the number of investigative samples collected per environmental matrix, were as follows: equipment blanks – 10%; duplicates – 10% and matrix spike/matrix spike duplicates – 5%. One trip blank was included in each sample cooler. Analytical samples were shipped for overnight delivery to TestAmerica Analytical Testing Corporation in Nashville, Tennessee.

URS performed Level III and Level IV validation of the analytical data for quality and completeness, per the work plan. Data qualifiers were added, as appropriate, and are included on the data tables and with the analytical reports. Laboratory data packages are included in **Attachment D**, along with associated data validation forms.

Decontamination and Investigation-Derived Waste

Sampling equipment was decontaminated by washing with Alconox® or equivalent detergent wash and a distilled water rinse, prior to the collection of each analytical sample, between boring locations and prior to leaving the site. Field personnel wore disposable, chemical resistant gloves anytime environmental media or equipment were handled, to reduce personal exposure to potential chemical hazards. Clean gloves were also worn for the collection of groundwater samples.

Equipment decontamination fluids and purged groundwater were collected and discharged to the refinery wastewater treatment plant. Expendables and general municipal trash were properly managed by ConocoPhillips.

INVESTIGATION RESULTS

Nine CPT/MIP probes were completed to gain information on the geology of the area and to gather information on the extent of dissolved phase hydrocarbons in groundwater. The results of the CPT work indicated that approximately the upper 10 feet consists of fill, silts and/ or clays. These materials are underlain by sands that extend to bedrock. The results of the MIP investigation were utilized to select sample locations and depths for conducting groundwater profiling.

A total of 19 investigative groundwater samples and 3 duplicate samples were collected and analyzed for VOCs. Benzene results for groundwater samples collected from existing monitoring wells and from the groundwater profile locations are presented in the tables below.

Benzene Results from Monitoring Well Sampling				
Monitoring Well	**Sample ID**	**Sample Date**	**Result (mg/L)**	**Qualifiers**
P-57	P5703030601	3/3/2006	177	
P-58	P5803020601	3/2/2006	409 (464, duplicate)	
P-66	P6603020601	3/2/2006	<0.0116	U
P-73	P7303020601	3/2/2006	22.4	
P-75	P7503030601	3/3/2006	2.78	
P-93A	P93A03030601	3/3/2006	506	
P-93B	P93B03030601	3/3/2006	370	

U= non detect at indicated reporting limit.

Benzene Results from Groundwater Profiling				
Monitoring Well	**Sample ID**	**Sample Date**	**Result (mg/L)**	**Qualifiers**
P-93-02	P9302GWP43	4/5/2006	1,310	
	P9302GWP59	4/5/2006	264	
P-93-03	P9303GWP40	4/6/2006	348	
	P9303GWP59	4/7/2006	3.65	
P-93-05	P9305GWP45	4/7/2006	1,460	
	P9305GWP58	4/7/2006	52.2	
P-93-06	P9306GWP50	4/7/2006	1,310	
	P9306GWP62.5	4/10/2006	827	
P-93-09	P9309GWP52	4/11/2006	250	
	P9309GWP66	4/11/2006	295 (569, duplicate)	
P-93-11	P9311GWP41	4/5/2006	1,060	
	P9311GWP59	4/6/2006	11.8 (13.1, duplicate)	

Note: The two digit number at the end of the sample ID denotes the sample depth below ground surface, e.g., P9302GWP43 denotes samples from location P93-02 from a depth of 43 feet.

The highest concentrations of benzene in groundwater were detected at groundwater profile locations P-93-02 (1,310 mg/L), P-93-05 (1,460 mg/L), P-93-06 (1,310 mg/L) and P-93-11 (1,060 mg/L). These four locations are located between the release site and the P-93 cluster located on the WRR **(Figure 2**). The highest concentrations of benzene were typically noted from the sample collected at the top of the water table; lower concentrations (1 to 2 orders of magnitude) were noted from the samples collected from approximately 12 to 19 feet below the top of the water table.

Groundwater samples collected from monitoring wells located on the WRR have benzene concentrations that range from 2.78 mg/L (P-75) to 506 mg/L (P-93A). Benzene concentrations for the two wells that contained LNAPL during the investigation were 22.4 mg/L (P-73) and 2.78 mg/L (P-75).

CONCLUSIONS AND RECOMMENDATIONS

The investigation was conducted in accordance with the work plan; implementation of the work plan provided information on the distribution of benzene in groundwater for the area between the release site and the west fenceline of the north property of the WRR.

The results of this investigation indicate the following conclusions:

- The subsurface conditions in the study area consist of approximately 10 feet of fill, overlying silty clay; the fill and silty clay is underlain by sand to the depths explored. Groundwater occurs in the sand unit at depths of approximately 40 to 52 feet bgs. Groundwater gauging information indicates flow towards the refinery's pumping centers.
- Benzene concentrations in groundwater are highest (e.g., 1,000-1,500 mg/L) between the release site and the P-93 well cluster. Benzene concentrations decrease by orders of magnitude with depth below the water table.

We will be pleased to meet with you to discuss the results of this submittal, and will contact you to schedule a meeting.

If you have any questions regarding this report or activities conducted, please do not hesitate to contact Herb Hand with SOPUS at 713.241.1491 (herb.hand@shell.com) or Bob Billman at 314.743.4108 (bob_billman@urscorp.com).

Very truly yours,

Thomas J Adams
Project Manger

Robert Billman
Senior Project Manager

cc: Herb Hand, Shell Oil Products US
Kevin Dyer, Shell Oil Products US
Eric Petersen, ConocoPhillips Wood River Refinery

Attachments

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TABLE 1
GROUNDWATER GAUGING AND FIELD PARAMETER RESULTS

Monitoring Well ID	Sample ID	Sample Date	Sample Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	pH	Specific Conductivity (mS/cm)	Temperature (F)
P-57	P5703030601	3/3/2006	1550	--	50.58	65.57	6.72	1218	55.76
P-58	P5803020601	3/2/2006	1550	--	48.62	64.77	6.78	3460	59.18
	P5803020602								
P-66	P6603020601	3/2/2006	1040	--	40.41	56.89	6.58	1260	63.50
P-73	P7303020601	3/2/2006	1420	47.90	49.38	68.17	6.71	1170	60.98
P-75	P7503030601	3/3/2006	1030	50.51	51.55	67.92	6.45	1220	61.70
P-93A	P93A03030601	3/3/2006	1430	--	51.50	71.09	6.61	1022	62.60
P-93B	P93B03030601	3/3/2006	1545	--	50.41	76.52	7.09	1161	57.92
P-93C	--	--	--	--	50.44	--	--	--	--
P-93D	--	--	--	--	50.34	--	--	--	--

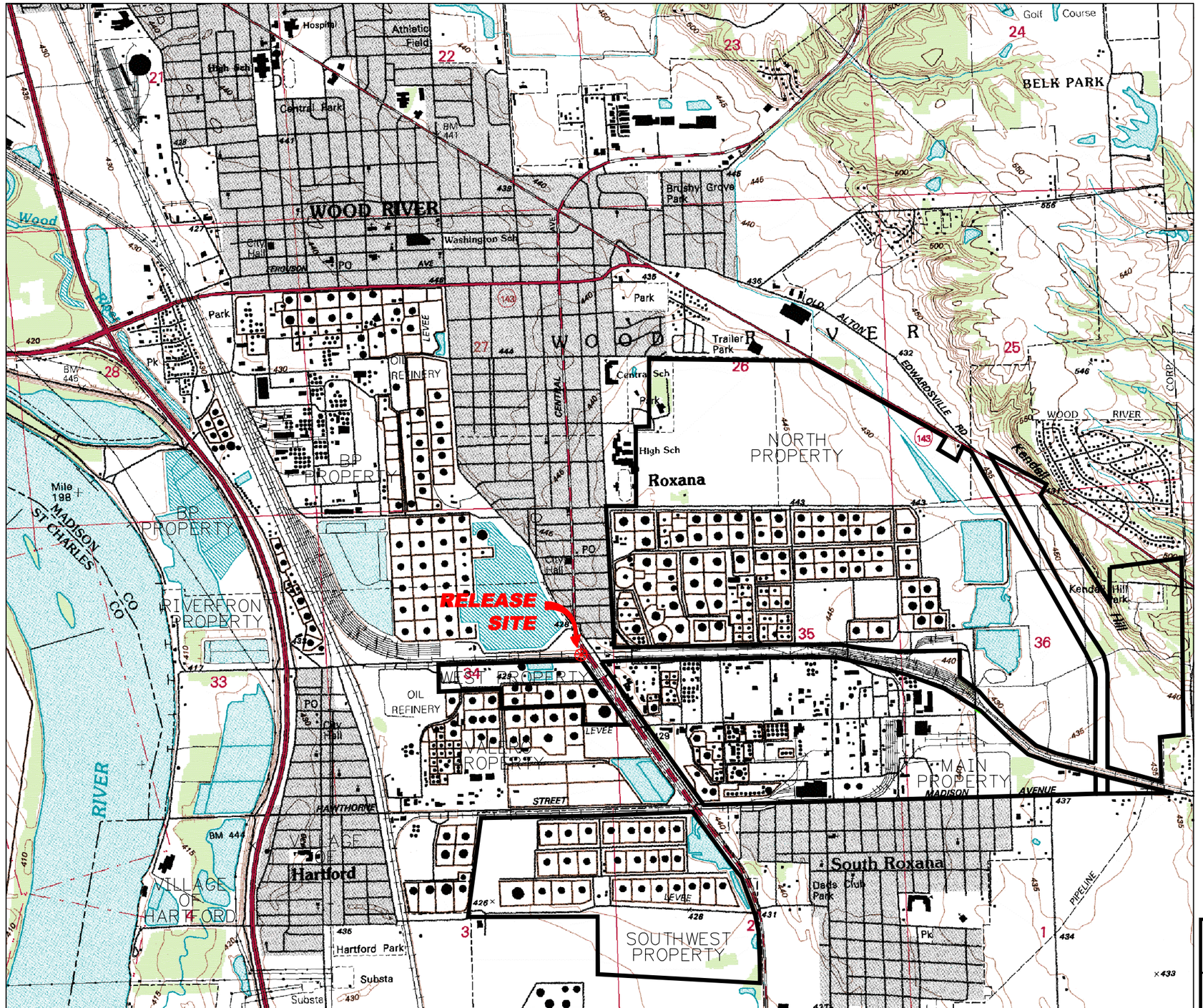
NOTES:
1) P-93C and P-93D were not sampled and a total depth measurement could not be taken because dedicated pumps obstructed access.
2) The gauging data (depth to product/water) was collected prior to purging and collection of field parameters.
3) btoc = below top of casing
4) 02 at the end of a sample ID indicates a duplicate sample collected.

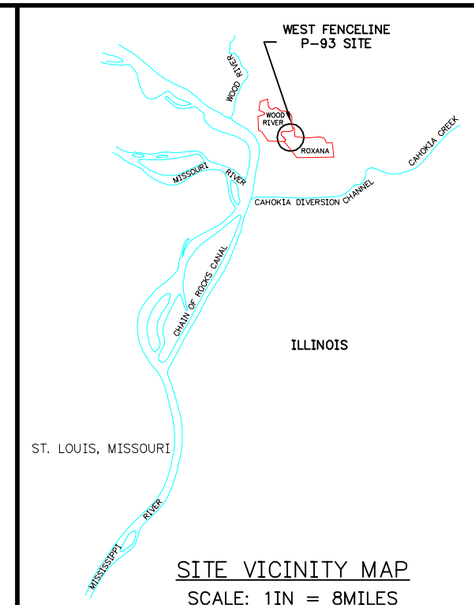
Table 2
CPT/MIP Response Summary

Location	Date Conducted	Stratum Encountered	Top of Stratum (ft bgs)	Bottom of Stratum (ft bgs)	End of Boring (ft bgs)	MIP Response Depth	MIP - Max PID Response (V)	MIP - Max FID Response (V)	MIP - Max ECD Response (V)
P-93-01	3/31/2006	Surface/fill material	0.0	14.5	43.00				
		Main Sand	14.5			37 - 41.5	5.2	1.6	0.04
P-93-02	4/1/2006	Surface/fill material	0.0	19.5	57.00				
		Main Sand	19.5			39.5 - 55.5	9.0	3.8	0.02
P-93-04	4/1/2006	Surface/fill material	0.0	11.0	70.00				
		Main Sand	11.0			53	--	1.6	0.045
P-93-05	4/1/2006	Surface/fill material	0.0	12.5	46.50				
		Main Sand	12.5			43.5 - 45	0.1	0.025	--
P-93-06	4/2/2006	Surface/fill material	0.0	12.0	44.50				
		Main Sand	12.0			39.5 - 43	0.28	0.08	--
P-93-07	3/31/2006	Surface/fill material	0.0	14.0	55.00	7.5 - 20.5	--	0.5	--
		Main Sand	14.0			48.5 - 54	3.6	1.6	0.04
P-93-08	3/30/2006	Surface/fill material	0.0	11.0	54.50				
		Main Sand	11.0			48.5 - 53.5	2.7	0.9	--
P-93-09	3/30/2006	Surface/fill material	0.0	13.5	71.00	31.5 - 33.5	0.06	0.35	0.02
		Main Sand	13.5			50 - 75	3.4	2.0	--
P-93-10	3/31/2006	Surface/fill material	0.0	14.0	46.00	13.5 - 11.75	--	0.9	0.02
		Main Sand	14.0			12.5 - 16	0.1	0.7	0.01
						21 - 27.5	--	0.6	--
						36 - 44	0.15	0.4	0.02

NOTES:

1) P-93-07 through P-93-10 are located within the ConocoPhillips refinery and were air-knifed to a depth of 10 feet below the ground surface and backfilled with sand prior to CPT/MIP activities being done, therefore, if the break between strata is less than or close to the 10' bgs mark, it will be difficult to see on the CPT printouts. data, however, are unable to go as deep as the ROST activities.
2) P-93-03 could not be completed due to poor site conditions.
3) -- No Response Observed.
4) bgs = below ground surface
5) v = volts





SITE VICINITY MAP
SCALE: 1IN = 8MILES

LEGEND

- RELEASE SITE
- PROPERTY BOUNDARY

BASE MAP REFERENCE:
Compiled from a portion of Woodriver, IL-MO.
U.S.G.S 7.5 minute topographic quadrangle
1955 (Photorevised 1968 & 1974).

Ø 2ØØØ 4ØØØ
SCALE FEET

Contour Interval = 1ØFT

N

SHELL OIL PRODUCTS U.S./CONOCOPHILLIPS COMPANY WEST FENCELINE P-93 DISSOLVED BENZENE INVESTIGATION ROXANA, ILLINOIS	PROJECT NO. 21561665
URS	
DRN. BY: wmp 5/17/07 DSGN. BY: tja CHKD. BY: b3	Release Site Location — FIG. NO. 1

File: P:\ENVIRONMENTAL\21561979 SOPUS ROUTE 111 RAND AVE VICINITY INVESTIGATION\B-21561665 SOPUS-COP WEST FENCELINE (2006)\P-93 (DISSOLVED BENZENE)\DRAWINGS\FIGURE 1 RELEASE SITE LOCATION.DWG Last edited: 02/12/09 @ 09:11

T-6
P-57
P-93-09
2.0 Volts
P-93B
P-73
CPT-19
P-93A
P-93-07
1.6 Volts
CPT-4
P-93-08
0.9 Volts
P-93-04
1.6 Volts
P-93-05
0.025 Volts
CPT-18
P-93-06
0.08 Volts
P-58
P-93-03
P-93-02
3.8 Volts
P-93-01
1.6 Volts
P-93-10
0.9 Volts
1986 RELEASE SITE
P-66
P-75

LEGEND

CPT/MIP LOCATIONS

NOTES:

1) THE RESULTS SHOWN ARE THE HIGHEST FLAME IONIZATION DETECTOR (FID) RESPONSES FOR EACH LOCATION.

2) A PROBE WAS NOT ABLE TO BE COMPLETED AT P-93-03 DUE TO POOR SITE CONDITIONS.

N

0 100

SCALE FEET

SHELL OIL PRODUCTS U.S/CONOCOPHILLIPS COMPANY WEST FENCELINE P-93 DISSOLVED BENZENE INVESTIGATION ROXANA, ILLINOIS	PROJECT NO. 21561665
URS	
DRN. BY: wmp 4/7/06 DSGN. BY: tja CHKD. BY:	CPT/MIP Locations and MIP Results
	FIG. NO. 3

File: P:\ENVIRONMENTAL\21561665 SOPUS-COP WEST FENCELINE\P-93 (DISSOLVED BENZENE)\DRAWINGS\FIGURE 3 CPT-MIP LOCATIONS AND MIP RESULTS.DWG Last edited: MAY 16, 07 @ 12:04 p.m. by: drew_brnak

WORK IN PROGRESS

T-6

177 ppm

P-57

P-93-09

250 ppm at 52 ft bgs

629/569 ppm at 66 ft bgs

P-93B

370 ppm

P-73

22.4 ppm

CPT-19

P-93A

506 ppm

CPT-4

1,460 ppm at 45 ft bgs

52.2 ppm at 58 ft bgs

P-93-05

CPT-18

P-93-06

1,310 ppm at 50 ft bgs

827 ppm at 62.5 ft bgs

P-58

409/464 ppm

P-93-03

348 ppm at 40 ft bgs

3.65 ppm at 59 ft bgs

1986 RELEASE SITE

P-93-02

1,310 ppm at 43 ft bgs

264 ppm at 59 ft bgs

P-93-11

1,060 ppm at 41 ft bgs

11.8/13.1 ppm at 59 ft bgs

P-66

0.0116 ppm

2.78 ppm

P-75

LEGEND

MONITORING WELLS SAMPLED

GROUNDWATER PROFILING LOCATION SAMPLED

NOTES:

1) GROUNDWATER PROFILE LOCATIONS WERE SELECTED TO PROVIDE AREAL COVERAGE.

N

0 100

SCALE FEET

SHELL OIL PRODUCTS U.S/CONOCOPHILLIPS COMPANY WEST FENCELINE P-93 DISSOLVED BENZENE INVESTIGATION ROXANA, ILLINOIS		PROJECT NO. 21561665
URS		
DRN. BY: wmp 4/24/06 DSGN. BY: tja CHKD. BY:	Benzene Results in Groundwater	FIG. NO. 2

File: P:\ENVIRONMENTAL\21561665 SOPUS-COP WEST FENCELINE\P-93 (DISSOLVED BENZENE)\DRAWINGS\FIGURE 2 BENZENE RESULTS IN GROUNDWATER.DWG Last edited: MAY 18, 07 @ 11:58 a.m. by: drew_brouk

Monitoring Well Sampling

~~LOW FLOW~~ GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: P-93 Ww-Fenceline PROJECT NUMBER: 21561665 FIELD PERSONNEL: C. DeCicco, W. Howland
DATE: 3/3/06 WEATHER: Partly Sunny
MONITORING WELL ID: P-93

INITIAL DATA

1 well vol. = 2.44
3 well vol = 7.33

Well Diameter: 2 in
Total Well Depth (btoc): 65.57 ft
Depth to Water (btoc): 50.58 ft
Depth to LNAPL/DNAPL (btoc): ft
Depth to Top of Screen (btoc): ft
Screen Length: ft

Water Column Height (do not include LNAPL or DNAPL): 14.99 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = ft btoc

Volume of Flow Through Cell): 250 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 750 mL
Ambient PID/FID Reading: ppm
Wellbore PID/FID Reading: ppm

PURGE DATA

Pump Type: Ball + Check Valve

Purge Volume ~~(mL)~~ gal	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
2.5	1450				7.13	14.1	1260			
2.5	1522				6.60	14.2	1255			
2.5	1550				6.72	13.2	1218			

Start Time: 1400
Stop Time: 1550
Elapsed Time: ~~1550~~ @ 1450 hrs
Average Purge Rate ~~(mL/min)~~: 0.07 gal/min
Water Quality Meter ID:
Date Calibrated: 3/3/06

SAMPLING DATA

Sample Date: 3/3/06
Sample Method: Ball + Check valve
Sample Time: 1550
Sample Flow Rate:
Analysis: VOC
Date Calibrated:

COMMENTS:

~~LOW FLOW~~ GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: P43 W. Fenceline PROJECT NUMBER: 21561665 FIELD PERSONNEL: C. DeCiccio, W. Howland
DATE: 3/2/06 WEATHER: Partly Sunny
MONITORING WELL ID: P-58

INITIAL DATA

1 well vol. = 2.63
3 well vol. = 7.89

Well Diameter: 2 in
Total Well Depth (btoc): 64.77 ft
Depth to Water (btoc): 48.62 ft
Depth to LNAPL/DNAPL (btoc): ft
Depth to Top of Screen (btoc): ft
Screen Length: ft

Water Column Height (do not include LNAPL or DNAPL): 16.15 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = ft btoc

Volume of Flow Through Cell): 250 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 750 mL
Ambient PID/FID Reading: ppm
Wellbore PID/FID Reading: ppm

PURGE DATA

Pump Type: Super Twister

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
2.75	1528				6.61	14.8	2.91			
2.75	1535				6.82	15.1	3.54			
2.75	1545				6.78	15.1	3.46			

Start Time: 1520
Stop Time: 1540
Elapsed Time: ~~1540~~ 20 min
Average Purge Rate (~~mL/min~~): 0.4 gal/min
Water Quality Meter ID:
Date Calibrated: 3/2/06

SAMPLING DATA

Sample Date: 3/2/06
Sample Method: Super Twister
Sample Time: 1550
Sample Flow Rate:
Analysis: VOC
Date Calibrated:

COMMENTS:

~~LOW FLOW~~ GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: P-93 Cr. Fenceline PROJECT NUMBER: 71561665 FIELD PERSONNEL: C. DeCoccio, Cr. Howland
DATE: 3/2/06 WEATHER: Partly Sunny
MONITORING WELL ID: P-66

INITIAL DATA

1 well volume = 2.68
3 well volume = 8.06

Well Diameter: 2 in
Total Well Depth (btoc): 56.87 ft
Depth to Water (btoc): 40.41 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): — ft
Screen Length: — ft

Water Column Height (do not include LNAPL or DNAPL): 16.48 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = ft btoc

Volume of Flow Through Cell): 250 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 750 mL
Ambient PID/FID Reading: ppm
Wellbore PID/FID Reading: ppm

PURGE DATA

Pump Type: Super Twister

Purge Volume ~~(mL)~~ (gal)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
3	1019		Grey		6.51	17.4	1373			
3	1025				6.55	17.1	1365			
3	1032				6.61	16.7	1136			
					6.58	17.5	1260			

Start Time: 1010
Stop Time: ~~22~~ 1032
Elapsed Time: ~~1032~~ 22m
Average Purge Rate (~~mL/min~~): 0.41 gal/min
Water Quality Meter ID:
Date Calibrated: 3/2/06

SAMPLING DATA

Sample Date: 3/2/06
Sample Method: Super Twister
Sample Time: 1040
Sample Flow Rate:
Analysis: VOC
Date Calibrated:

COMMENTS:

Took E.B. after this well.

~~LOW FLOW~~ GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: D43 Waterline
PROJECT NUMBER: 21561665
FIELD PERSONNEL: C. DeLuccia, W. Howland
DATE: 3/2/06
WEATHER: Partly Sunny
MONITORING WELL ID: P-73

INITIAL DATA

Well Diameter: 4 in
Total Well Depth (btoc): 68.17 ft
Depth to Water (btoc): 49.28 ft
Depth to LNAPL/DNAPL (btoc): 47.95 ft
Depth to Top of Screen (btoc): ______ ft
Screen Length: ______ ft

Water Column Height (do not include LNAPL or DNAPL): 18.79 ft btoc
1 well vol. = 12.26
3 well vol. = 36.81
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is (4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = ______ ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are (4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = ______ ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = ______ ft btoc

Volume of Flow Through Cell): 250 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 750 mL
Ambient PID/FID Reading: 3.0 ppm
Wellbore PID/FID Reading: 0.8 ppm

PURGE DATA

Pump Type: Super Twister

Purge Volume (~~mL~~) gal	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (μmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
12.5	1337				6.66	16.7	1074	~~1074~~		
12.5	1353				6.68	16.9	1221	~~1221~~		
12.5	1415				6.71	16.1	1170	~~1170~~		

Start Time: 1320
Stop Time: 1415
Elapsed Time: 55 min
Average Purge Rate (~~mL/min~~): 0.68 gal/min
Water Quality Meter ID:
Date Calibrated: 3/2/06

SAMPLING DATA

Sample Date: 3/2/06
Sample Method: Super Twister
Sample Time: 1420
Sample Flow Rate: ~~[illegible]~~
Analysis: VOC
Date Calibrated:

COMMENTS:
Free product present in well.

GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: P-93 West Fenceline
PROJECT NUMBER: 21561665
DATE: 3/3/06
WEATHER: Partly Sunny
FIELD PERSONNEL: C. Delvecchio, W. Howland
MONITORING WELL ID: P-75

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 67.92 ft
Depth to Water: 50.22 ft
Height of Water Column: 17.7 ft
1 0.163 gallons/ft for 2 inch well, 0.653 gallons/ft for 4-inch well

Gallons/Lin.Ft[1]:
Vol. Of Water Column: 11.56 gallons
Min. Purge Volume: 34.67 gallons (3 volumes)
Depth to Top of Screen: ft

Ambient PID/FID Reading: 0.2 ppm
Wellbore PID/FID Reading: 0.7 ppm
LNAPL / DNAPL ft

PURGE DATA

Purge Method: Super Twister

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
20	1030				6.40	17.9	1163			
12	1036				6.37	16.9	1134			
12	1043				6.45	16.5	1220			

Start Time: 0950
Average Purge Rate (gallons/min): 0.83
Purge Stop Time: 1043
Well Volumes Purged: 3
Elapsed Time: 53
Water Quality Meter ID:
Total Volume Purged: gallons
Calibrated on: 3/3/06

SAMPLING DATA

Sampling Method:
Sample Date: 3/3/06
Sample Time: 1050
Analysis: VOC

COMMENTS:

GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: P-93 W. Fenceline **PROJECT NUMBER:** 21561665
DATE: 3/3/06
WEATHER: Partly Sunny
FIELD PERSONNEL: C. DeCrocco, B. Howland
MONITORING WELL ID: P-93 4

INITIAL DATA

Well Diameter: 2 in.
Total Depth of Well: 71.09 ft
Depth to Water: 51.50 ft
Height of Water Column: 19.59 ft
1 0.163 gallons/ft for 2 inch well, 0.653 gallons/ft for 4-inch well

Gallons/Lin.Ft[1]: _____
Vol. Of Water Column: 3.19 gallons
Min. Purge Volume: 9.58 gallons (3 volumes)
Depth to Top of Screen: _____ ft

Ambient PID/FID Reading: _____ ppm
Wellbore PID/FID Reading: _____ ppm
LNAPL / DNAPL _____ ft

PURGE DATA

Purge Method: Super Twister

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
3.5	1412				6.70	16.4	1077			
3.5	1422				6.69	16.8	1024			
3.5	1430				6.61	17.0	1022			

Start Time: 1355
Purge Stop Time: 1430
Elapsed Time: 35m
Total Volume Purged: 11.5 gallons
Average Purge Rate (gallons/min): 0.3
Well Volumes Purged: _____
Water Quality Meter ID: _____
Calibrated on: 3/3/06

SAMPLING DATA

Sampling Method:
Sample Date: 3/3/06 **Sample Time:** 1430 **Analysis:** VOC

COMMENTS:

Took MS/MSD.

GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: P-93 Lw. Fenceline **PROJECT NUMBER:** 21561665
DATE: 3/3/06
WEATHER: Partly Sunny
FIELD PERSONNEL: C. DeGiorgio, Lw. Haviland
MONITORING WELL ID: P-93 B

INITIAL DATA

Well Diameter: 2 in.
Total Depth of Well: 76.57 ft
Depth to Water: 50.41 ft
Height of Water Column: 26.11 ft
1 0.163 gallons/ft for 2 inch well, 0.653 gallons/ft for 4-inch well

Gallons/Lin.Ft[1]: 4.26
Vol. Of Water Column: gallons
Min. Purge Volume: 12.78 gallons (3 volumes)
Depth to Top of Screen: ft

Ambient PID/FID Reading: ppm
Wellbore PID/FID Reading: ppm
LNAPL / DNAPL ft

PURGE DATA

Purge Method: Super Twister

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
4.26	1531				6.70	15.7	1223			
8.52	1536				7.03	14.6	1206			
12.78	1541				7.09	14.4	1161			

Start Time: 1520
Purge Stop Time: 1541
Elapsed Time: 21 m
Total Volume Purged: 12.78 gallons
Average Purge Rate (gallons/min): 0.8
Well Volumes Purged:
Water Quality Meter ID:
Calibrated on: 3/3/06

SAMPLING DATA

Sampling Method:
Sample Date: 3/3/06 **Sample Time:** 1545 **Analysis:** VOC

COMMENTS:

Groundwater Profile Sampling

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: _____ **PROJECT NUMBER:** 2156665 **FIELD PERSONNEL:** M. Corbett REDI - J. Crank, B. Schilling
DATE: 4/5/06 **WEATHER:** sunny 65°
MONITORING WELL ID: P-93-02 ~~43~~

INITIAL DATA

Well Diameter: <1 in
Total Well Depth (btoc): 43.5 ft
Depth to Water (btoc): 40.34 ft
Depth to LNAPL/DNAPL (btoc): ____ ft
Depth to Top of Screen (btoc): 43.5 ft
Screen Length: 4 ft
Stick up = 1.5 ft

Water Column Height (do not include LNAPL or DNAPL): — ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is < 4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = — ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): ~~250~~ 750 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) ~~750~~ 2250 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Waterra

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH ~~0.2~~	Temp (°C) ~~±3%~~	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l) ~~±10% 0.2~~	ORP (mv) ~~±20mV~~
0	1310		brown	none	6.71	19.13	0.13	not measured	0.25	-473
1000	1315		lt. brown	none	6.65	13.98	0.13	"	0.38	-484
2000	1320		lt. brown	none	6.63	18.55	0.12	"	0.55	-464
3000	1325		lt. brown	none	6.63	18.73	0.12	"	0.51	-434

Start Time: 1310
Stop Time: 1325
Elapsed Time: 15 min
Average Purge Rate (mL/min): 200
Water Quality Meter ID: Horiba U-22
Date Calibrated: 4/5/06

SAMPLING DATA

Sample Date: 4/5/06
Sample Method: low flow
Sample Time: 1330
Sample Flow Rate: 200 mL/min
Analysis: VOCs
Date Calibrated: ____

COMMENTS:

Set bottom of tubing at top of screen.
Collected sample P9302GWP43

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: P-93 West Fenceline PROJECT NUMBER: 21561665 FIELD PERSONNEL: M. Corbett REDI: J. Crank
DATE: 4/5/06 WEATHER: Sunny, 70°
MONITORING WELL ID: P-93-02[redacted]

INITIAL DATA

Well Diameter: ____ in
Total Well Depth (btoc): ~~50~~ 69 ft
Depth to Water (btoc): 42.96 ft
Depth to LNAPL/DNAPL (btoc): ____ ft
Depth to Top of Screen (btoc): 60 ft
Screen Length: 4 ft
Stick-up = 3ft

Water Column Height (do not include LNAPL or DNAPL): — ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is ⟨4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = — ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are ⟨ 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: ~~250~~ 750 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) ~~750~~ 2250 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Watera

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
0	1455		lt. brown	none	6.80	18.80	0.24	not measured	0.00	-404
1000	1500		"	none	6.81	18.76	0.12	"	0.00	-457
2000	1505		"	slight	6.81	18.63	0.12	"	0.00	-447
3000	1510		"	"	6.81	18.46	0.12	"	0.00	-433

Start Time: 1455
Stop Time: 1520
Elapsed Time: 15 min
Average Purge Rate (mL/min): 200
Water Quality Meter ID: Horiba U-22
Date Calibrated: 4/5/06

SAMPLING DATA

Sample Date: 4/5/06
Sample Method: low flow
Sample Time: 1515
Sample Flow Rate: 200 mL/min
Analysis: VOCs (8260)
Date Calibrated:

COMMENTS:

Collected sample P9302GWP59

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: P93 West Fenceline PROJECT NUMBER: 21561665.00002 FIELD PERSONNEL: M. Corbett, (REDI - J. Crank, B. Schilling)
DATE: 4/6/06 WEATHER: overcast, 60°
MONITORING WELL ID: P93-03

INITIAL DATA

Well Diameter: 4 in
Total Well Depth (btoc): 44 ft
Depth to Water (btoc): 39.96 ~~39.96~~ ft MC
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): ~~39.96~~ ft MC
Screen Length: 4 ft
Stick up = ~~2~~ 2 ft

Water Column Height (do not include LNAPL or DNAPL): — ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is < 4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = — ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): ~~250~~ 750 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) ~~750~~ 2250 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Watera

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
0	1550		sl. cloudy	slight	6.92	16.55	0.16		0.00	-155
~~1000~~	1555		"	"	6.97	16.66	0.15		0.00	-166
~~2000~~	1600		"	"	6.97	16.82	0.14		0.00	-172
3000	1605		clear	"	6.98	17.19	0.14		0.00	-176

Start Time: 1550
Stop Time: 1605
Elapsed Time: 15 min
Average Purge Rate (mL/min): 200
Water Quality Meter ID: Horiba U-22
Date Calibrated: 4/6/06

SAMPLING DATA

Sample Date: 4/6/06
Sample Method: low flow
Sample Time: 1610
Sample Flow Rate: 200 mL/min
Analysis: VOCs (8260)
Date Calibrated:

COMMENTS:
Collected sample P9303~~GW~~P40

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: P93 westfaceline PROJECT NUMBER: 21561665.00002 FIELD PERSONNEL: M. Corbett (URS), J. Crank, B. Schilling (REDE)
DATE: 4/7/06 WEATHER: sunny, 65°
MONITORING WELL ID: P93-03

INITIAL DATA

Well Diameter: <1 in
Total Well Depth (btoc): 64 ft
Depth to Water (btoc): 41.43 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 60 ft
Screen Length: 4 ft
Stick up = 3 ft

Water Column Height (do not include LNAPL or DNAPL): — ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is ⟨4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = — ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are ⟨ 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 250 750 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 750 2250 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Waterra

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
0	0845		lt. brown	slight	7.10	18.43	0.11	not measured	0.00	-235
1000	0850		"	"	7.17	18.17	0.11	"	0.00	-277
2000	0855		"	"	7.18	18.09	0.11	"	0.00	-306
3000	0900		"	"	7.19	18.05	0.11	"	0.00	-395

Start Time: 0845
Stop Time: 0900
Elapsed Time: 15 min
Average Purge Rate (mL/min): 200
Water Quality Meter ID: Horiba U-22
Date Calibrated: 4/7/06

SAMPLING DATA

Sample Date: 4/7/06
Sample Method: low flow
Sample Time: 0905
Sample Flow Rate: 200 mL/min
Analysis: VOCs (8260)
Date Calibrated:

COMMENTS:

collected sample P9303GWP59

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: P93 West Fenceline PROJECT NUMBER: 21561665.00002 FIELD PERSONNEL: M. Corbett, REDI- J. Crank, B. Schilling
DATE: 4/7/06 WEATHER: sunny, 65°
MONITORING WELL ID: P-93-05

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 48 ft
Depth to Water (btoc): 44.35 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 44 ft
Screen Length: 4 ft
Stick up = 1 ft

Water Column Height (do not include LNAPL or DNAPL): — ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = — ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): ~~250~~ 750 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) ~~750~~ 2250 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Watera

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
0	1040		sl. cloudy	yes	6.66	20.78	0.15	not measured	0.00	−80
1000	1045		clear	"	6.68	20.89	0.14	"	0.00	−78
2000	1050		"	"	6.68	19.98	0.14	"	0.00	−73
3000	1055		"	"	6.68	19.65	0.14	"	0.00	−70

Start Time: 1040
Stop Time: 1055
Elapsed Time: 15 min
Average Purge Rate (mL/min): 200
Water Quality Meter ID: Horiba U-22
Date Calibrated: 4/7/06

SAMPLING DATA

Sample Date: 4/7/06
Sample Method: low flow
Sample Time: 1100
Sample Flow Rate: 200 mL/min
Analysis: VOCs (8260)
Date Calibrated:

COMMENTS:
Collected sample P9305GWP45

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: P93 West Fenceline PROJECT NUMBER: 21561665.00002 FIELD PERSONNEL: URS - M. Corbett, REDI - J. Crauk, B. Schilling
DATE: 4/7/06 WEATHER: sunny, 65°
MONITORING WELL ID: P93-05

INITIAL DATA

Well Diameter: <1 in
Total Well Depth (btoc): 60 ft
Depth to Water (btoc): 43.34 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 56 ft
Screen Length: 4 ft
No stick up length.

Water Column Height (do not include LNAPL or DNAPL): — ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = — ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 250 750 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 750 2250 mL
Ambient PID/FID Reading: 0.2 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Watera

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
0	1145		lt. brown	yes	6.77	21.57	0.12	not measured	0.00	-193
1000	1150		"	"	6.79	20.77	0.11	"	0.00	-200
2000	1155		"	"	6.80	20.78	0.12	"	0.00	-206
3000	1200		"	"	6.81	20.32	0.12	"	0.00	-205

Start Time: 1145
Stop Time: 1200
Elapsed Time: 15 min
Average Purge Rate (mL/min): 200
Water Quality Meter ID: Horiba U-22
Date Calibrated: 4/7/06

SAMPLING DATA

Sample Date: 4/7/06
Sample Method: lowflow
Sample Time: 1205
Sample Flow Rate: 200 mL/min
Analysis: VOCs (8260)
Date Calibrated:

COMMENTS:
Collected samples P9305GWP58, P9305GWP58MS, P9305GWP58MSD

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: P93 West Fence line PROJECT NUMBER: 21561665.00002 FIELD PERSONNEL: M. Corbett (URS), J. Crank, B. Shilling (REPI)
DATE: 4/7/06 WEATHER: sunny, 75°
MONITORING WELL ID: P-93-06

INITIAL DATA

Well Diameter: <1 in
Total Well Depth (btoc): 52 ft
Depth to Water (btoc): 47.93 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 48 ft
Screen Length: 4 ft
No Stick up length.

Water Column Height (do not include LNAPL or DNAPL): — ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = — ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): ~~250~~ 750 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) ~~750~~ 2250 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Watera

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
0	1540		sl. cloudy	yes	6.66	22.87	0.13	not measured	0.00	-109
1000	1545		"	"	6.68	21.25	0.13	"	0.00	-116
2000	1550		"	"	6.68	21.37	0.13	"	0.00	-122
3000	1555		"	"	6.68	20.72	0.13	"	0.00	-123

Start Time: 1540
Stop Time: 1555
Elapsed Time: 15 min
Average Purge Rate (mL/min): 200
Water Quality Meter ID: Horiba U-22
Date Calibrated: 4/7/06

SAMPLING DATA

Sample Date: 4/7/06
Sample Method: low flow
Sample Time: 1600
Sample Flow Rate: 200 mL/min
Analysis: VOCs (8260)
Date Calibrated:

COMMENTS:
Collected sample P9306GWP50

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: P93 West Fenceline PROJECT NUMBER: 21501665.00002 FIELD PERSONNEL: M. Corbett (URS), J. Crank, B. Schilling (REDI)
DATE: 4/10/06 WEATHER: sunny, 50°
MONITORING WELL ID: P-93-6

INITIAL DATA

Well Diameter: <1 in
Total Well Depth (btoc): 64.50 ft bgs
Depth to Water (btoc): 47.56 ft bgs
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 60.50 ft bgs
Screen Length: 4 ft

Water Column Height (do not include LNAPL or DNAPL): — ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is ⟨4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = — ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are ⟨ 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): ~~250~~ 750 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) ~~750~~ 2250 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Watera

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
0	0900		lt. brown	yes	6.73	17.09	0.17	not measured	0.00	-143
1000	0905		"	"	6.90	17.36	0.13	"	0.00	-188
2000	0910		"	"	6.91	17.56	0.13	"	0.00	-202
3000	0915		"	"	6.93	17.30	0.13	"	0.00	-209

Start Time: 0900
Stop Time: 0915
Elapsed Time: 0915 min
Average Purge Rate (mL/min): 200
Water Quality Meter ID: Horiba U-22
Date Calibrated: 4/10/06

SAMPLING DATA

Sample Date: 4/10/06
Sample Method: low flow
Sample Time: 0920
Sample Flow Rate: 200 mL/min
Analysis: VOCs (8260)
Date Calibrated:

COMMENTS:

Collected sample P9306GWP62.5

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: P93 West Fenceline PROJECT NUMBER: 21561665.00002 FIELD PERSONNEL: URS - M. Corbett, REDI - J. Crank, B. Schilling
DATE: 4/10/06 WEATHER: sunny, 75°
MONITORING WELL ID: P-93-09

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (~~btoc~~): 55 ft bgs
Depth to Water (~~btoc~~): 50.77 ft bgs
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (~~btoc~~): 51 ft bgs
Screen Length: 4 ft

Water Column Height (do not include LNAPL or DNAPL): — ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is < 4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = — ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): ~~250~~ 750 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) ~~750~~ 2250 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 15.9 (briefly) ppm

PURGE DATA

Pump Type: Waterra

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
0										

Start Time:
Stop Time:
Elapsed Time:
Average Purge Rate (mL/min):
Water Quality Meter ID: Horiba U-22
Date Calibrated: 4/10/06

SAMPLING DATA

Sample Date: 4/10/06 for EB, 4/11/06
Sample Method: ~~low flow~~ MC
Sample Time: (4/10/06) 1315 for EB, (4/11/06) 1430 for sample
Sample Flow Rate:
Analysis: VOCs (8260)
Date Calibrated:

COMMENTS:
Collected sample ~~P9309GWP53~~ MC P9309GWP52EB on 4/10/06
P93096WP52 on 4/11/06 (could not establish flow. Hole kept running dry. We sampled the groundwater straight from the tube)

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: P93 West Fenceline PROJECT NUMBER: 215616665.00002 FIELD PERSONNEL: URS - M. Corbett, REDI - J. Crank, B. Schilling
DATE: ~~4/10/06~~ 4/11/06 WEATHER: sunny, 75°
MONITORING WELL ID: P-93-09

INITIAL DATA

Well Diameter: <1 in
Total Well Depth (~~btoc~~): 68 ft bgs
Depth to Water (~~btoc~~): 50.23 ft bgs
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (~~btoc~~): 64 ft bgs
Screen Length: 4 ft

Water Column Height (do not include LNAPL or DNAPL): — ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is < 4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = — ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): ~~250~~ 750 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) ~~750~~ 2250 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 2.6 ppm

PURGE DATA

Pump Type: Watera

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
0	1440		lt. brown	slight	6.65	20.98	0.45	not measured	0.00	-130
750	1445		"	"	6.79	21.52	0.13	"	0.00	-208
1500	1450		"	"	6.79	21.81	0.13	"	0.00	-231
2250	1455		"	"	6.80	21.40	0.13	"	0.00	-419

Start Time: 1440
Stop Time: 1455
Elapsed Time: 15 min
Average Purge Rate (mL/min): 150
Water Quality Meter ID: Horiba U-22
Date Calibrated: 4/11/06

SAMPLING DATA

Sample Date: 4/11/06
Sample Method: low flow
Sample Time: 1500
Sample Flow Rate: 150 mL/min
Analysis: VOCs (8260)
Date Calibrated:

COMMENTS:
Collected samples P9309GWP66, P9309GWP66D

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: P93 West Fenceline PROJECT NUMBER: 21561665 FIELD PERSONNEL: M. Corbett (URS), J. Crank, B. Schilling (RED)
DATE: 4/5/06 WEATHER: sunny, 70°
MONITORING WELL ID: ~~P-93-0~~ P-93-11

INITIAL DATA

Well Diameter: <1 in
Total Well Depth (btoc): ~~44.44~~ ft 45
Depth to Water (btoc): ~~41.72~~ ft
Depth to LNAPL/DNAPL (btoc): ft
Depth to Top of Screen (btoc): ~~40.40~~ ft 41
Screen Length: 4 ft
Stick up: 2f

Water Column Height (do not include LNAPL or DNAPL): — ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is < 4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = — ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: ~~250~~ 750 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) ~~750~~ 2250 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Watera

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
0	1700		lt. brown	none	6.67	20.81	0.24	not measured	0.00	-135
1000	1705		"	"	6.66	20.45	0.15	"	0.00	-139
2000	1710		"	"	6.65	20.42	0.13	"	0.00	-139
3000	1715		"	"	6.66	20.33	0.14	"	0.00	-139

Start Time: 1700
Stop Time: 1715
Elapsed Time: 15 min
Average Purge Rate (mL/min): 200
Water Quality Meter ID: Horiba U-22
Date Calibrated: 4/5/06

SAMPLING DATA

Sample Date: 4/6/06
Sample Method: low flow
Sample Time: 1720
Sample Flow Rate: 200 mL/min
Analysis: VOCs (8260)
Date Calibrated:

COMMENTS:

Collected Sample P93IIGWP41

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: P93 West Fenceline PROJECT NUMBER: 21561665 FIELD PERSONNEL: M. Corbett, J. Crank (REDI), B. Schilling (REDI)
DATE: 4/6/06 WEATHER: overcast, 60°
MONITORING WELL ID: P93-11

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 64 ft
Depth to Water (btoc): 43.01 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 60 ft
Screen Length: 4 ft
Stick up = 3ft

Water Column Height (do not include LNAPL or DNAPL): — ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is < 4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = — ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): ~~250~~ 750 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) ~~750~~ 2250 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Watera

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
0	0910		lt. brown	slight	6.55	17.80	0.18	not measured	0.07	-199
1000	0915		"	"	6.83	17.78	0.12	"	0.00	-218
2000	0920		"	"	6.90	17.81	0.11	"	0.00	-231
3000	0925		"	"	6.95	17.84	0.11	"	0.00	-326

Start Time: 0910
Stop Time: 0925
Elapsed Time: 15 min
Average Purge Rate (mL/min): 200
Water Quality Meter ID: Horiba U-22
Date Calibrated: 4/6/06

SAMPLING DATA

Sample Date: 4/6/06
Sample Method: low flow
Sample Time: 0930
Sample Flow Rate: 200 mL/min
Analysis: VOCs (8760)
Date Calibrated:

COMMENTS:
Collected samples P9311GWP59, ~~P9311GWP59MS~~, P9311GWP59MSD MC
P9311GWP59D

TEST AMERICA

[ ] 7602 Commerce Drive, Watertown, WI 5309
[ ] 704 Enterprise Drive, Cedar Falls, IA 50613
[ ] 14500 Trinity Blvd., Suite 106, Fort Worth, TX 76155 Phone 817-571-6800
[ ] 3601 South Dixie Drive, Dayton, OH 46439 Phone 800-572-9839
[ ] 1380 Busch Parkway, Buffalo Grove, IL 60089 Phone 847-808-7766
[ ] 1110 Elkton Drive, Suite A, Colorado Springs, CO 80907 Phone 719-593-9911
[ ] Other _____

[redacted] N 37204 PHONE 800-765-0980 FAX# 616-726-3404

NPC0479

03/08/06 17:00

Shell Oil Products US Chain Of Custody Record

SOP US Project Manager to be invoiced:

[ ] ENVIRONMENTAL SERVICES
[ ] TECHNICAL SERVICES
[ ] RMT HOUSTON
[ ] BILL CONSULTANT

NAME OF PM TO BILL: Herb Hand (SOPUS)

NAME OF TS TO BILL:

[x] SHELL RATES [ ] STATE REIMBURSEMENT RATES

INCIDENT # (SAE ONLY): 9 7 2 1 6 6 4 0

SAP or ORM2 # (TS/CRMT):

DATE: 3/2/06

PAGE: 1 of 2

Invoice with _____ sampling events for this site, sampled through the following date: _____

CONSULTANT COMPANY: URS Corporation

ADDRESS: 1001 Highlands Plaza Drive West; Suite 300

CITY: St. Louis, MO 63110

TELEPHONE: (office) 314-429-0100 (cell) 314-409-6460

FAX: (Office) 431-429-0462 (Trailer) 618-254-1512

E-MAIL: Jeff Adams Thomas_Adams@urscorp.com

SITE ADDRESS (Street and City): 900 South Central Avenue, Roxana, IL 62048

PROJECT CONTACT (Report to): Herb Hand (SOPUS)

(Copy to): Jeff Adams (URS)

CONSULTANT PROJECT NO.: SOPUS-West Fenceline P-83 Project

SAMPLER NAME(S) (Print):

SAE USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
[ ] STANDARD (10 DAY) [x] 5 DAYS [ ] 3 DAYS [ ] 2 DAYS [ ] 24 HOURS [ ] RESULTS NEEDED ON WEEKEND

TEMPERATURE ON RECEIPT C°

SPECIAL INSTRUCTIONS OR NOTES :

Level 4 QC Deliverables

REQUESTED ANALYSIS if more than one method is listed, circle one

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOCs Method 8260	TPH-GRO (8015)	TPH-DRO (8015)	8260 / 8015 Moisture	Container PID Readings or Laboratory Notes
	P66 030206 01	3/2/06	1040	GW	X					3	X				NPC0479-01
	P73030206 01		1420		X					3	X				2
	P58030206 01		1550		X		-			3	X				3
	P58 03020602		1550		X					3	X				4
	P73030206 EB		1105		X					3	X				5
	030206 01 TB									1	X				6

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date: 3/3/06	Time: 8:00

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

05/1/01 Revision

TEST AMERICA

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☐ 3601 South Dixie Drive, Dayton, OH 46439 Phone 800-572-9839

☐ 1380 Busch Parkway, Buffalo Grove, IL 60089 Phone 847-808-7766

☐ 1110 Elkton Drive, Suite A, Colorado Springs, CO 80907 Phone 719-593-9911

☐ Other _____

Shell Oil Products US Chain Of Custody Record

SOP US Project Manager to be invoiced:

☐ ENVIRONMENTAL SERVICES

☐ TECHNICAL SERVICES

☐ RMT HOUSTON

☐ BILL CONSULTANT

NAME OF PM TO BILL: Herb Hand (SOPUS)

NAME OF TS TO BILL:

☑ SHELL RATES ☐ STATE REIMBURSEMENT RATES

INCIDENT # (S&E ONLY): 9 7 2 1 6 6 4 0

SAP or CRMT # (TS/CRMT):

DATE: 3/2/06

PAGE: 1 of 2

Invoice with _____ sampling events for this site, sampled through the following date: _____

CONSULTANT COMPANY: URS Corporation

ADDRESS: 1001 Highlands Plaza Drive West; Suite 300

CITY: St. Louis, MO 63110

TELEPHONE: (office) 314-429-0100 (cell) 314-409-6460

FAX: (Office) 314-429-0462 (Trailer) 618-254-1612

E-MAIL: Jeff Adams Thomas_Adams@urscorp.com

SITE ADDRESS (Street and City): 900 South Central Avenue, Roxana, IL 62048

PROJECT CONTACT (Report to): Herb Hand (SOPUS) (Copy to): Jeff Adams (URS)

CONSULTANT PROJECT NO.: SOPUS-West Fenceline P-93 Project

SAMPLER NAME(S) (Print):

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):

☐ STANDARD (10 DAY) ☑ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

TEMPERATURE ON RECEIPT C°

SPECIAL INSTRUCTIONS OR NOTES :

Level 4 QC Deliverables

LAB USE ONLY	Field Sample Identification	SAMPLING		FIELD PARAMETERS		
		DATE	TIME	TEMPERATURE (F)	pH	CONDUCTIVITY (see units below)
	P6 03 02 06 01	3/2/06	1040	63.5	6.58	1760 mS/cm
	P73 03 02 06 01	↓	1420	60.98	6.71	1170 mS/cm
	P58 03 02 06 01		1550	59.18	6.78	3460 mS/cm
	P58 03 02 06 02		1550	59.18	6.78	3460 mS/cm

NPC0653

TEST AME 03/09/06 17:00 HTON, NASHVILLE, TN 37204 PHONE 800-765-0980 FAX# 616-726-3404

☐ 7602 Commerce Drive, [illegible] Phone 800-833-7036
☐ 704 Enterprise Drive, Cedar Falls, IA 50613 Phone 319-277-2401
☐ 14500 Trinity Blvd., Suite 106, Fort Worth, TX 76155 Phone 817-571-6800
☐ 3601 South Dixie Drive, Dayton, OH 46439 Phone 800-572-9839
☐ 1380 Busch Parkway, Buffalo Grove, IL 60089 Phone 847-808-7766
☐ 1110 Elkton Drive, Suite A, Colorado Springs, CO 80907 Phone 719-593-9911
☐ Other _____

Shell Oil Products US Chain Of Custody Record

SOP US Project Manager to be Invoiced:
☐ ENVIRONMENTAL SERVICES
☐ TECHNICAL SERVICES
☐ RMT HOUSTON
☐ BILL CONSULTANT

NAME OF PM TO BILL: Herb Hand (SOPUS)
NAME OF TS TO BILL:
☑ SHELL RATES ☐ STATE REIMBURSEMENT RATES

INCIDENT # (S&E ONLY): 9 7 2 1 6 6 4 0
SAP or CRMT # (TS/CRMT):

DATE: 3/3/06
PAGE: 1 of 2

Invoice with _____ sampling events for this site, sampled through the following date: _____

CONSULTANT COMPANY: URS Corporation
ADDRESS: 1001 Highlands Plaza Drive West; Suite 300
CITY: St. Louis, MO 63110
TELEPHONE: (office) 314-429-0100 (cell) 314-409-6460
FAX: (Office) 431-429-0482 (Trailer) 618-254-1512
E-MAIL: Jeff Adams Thomas_Adams@urscorp.com

SITE ADDRESS (Street and City): 900 South Central Avenue, Roxana, IL 62048
PROJECT CONTACT (Report to): Herb Hand (SOPUS) (Copy to): Jeff Adams (URS)
CONSULTANT PROJECT NO.: SOPUS-West Fenceline P-93 Project
SAMPLER NAME(S) (Print):
LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☐ STANDARD (10 DAY) ☑ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

TEMPERATURE ON RECEIPT C°

SPECIAL INSTRUCTIONS OR NOTES :
Level 4 QC Deliverables

REQUESTED ANALYSIS if more than one method is listed, circle one

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOCs Method 8260	TPH-GRO (8015)	TPH-DRO (8015)	8260 / 8015 Moisture	Container PID Readings or Laboratory Notes
	P75030306 01	3/3/06	1050	Gw	X					3	X				NPC0653-01
	P93A030306 01		1430		X					3	X				2
	P93B030306 01		1545		X					3	X				3
	P57030306 01		1550		X					3	X				4
	P93A030306 MS		1435		X					3	X				2
	P93A030306 MSD	↓	1435	↓	X					3	X				2
	030306 02TB									1	X				5
															✓ 3/4/06

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	3/4/06	8:00

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TEST AMERICA

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☐ 1380 Busch Parkway, Buffalo Grove, IL 60089 Phone 847-808-7766

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☐ Other _____

Shell Oil Products US Chain Of Custody Record

SOP US Project Manager to be invoiced:

☐ ENVIRONMENTAL SERVICES

☐ TECHNICAL SERVICES

☐ RMT HOUSTON

☐ BILL CONSULTANT

NAME OF PM TO BILL: Herb Hand (SOPUS)

NAME OF TS TO BILL:

☑ SHELL RATES ☐ STATE REIMBURSEMENT RATES

INCIDENT # (S&E ONLY): 9 7 2 1 6 6 4 0

SAP or CRMT # (TS/CRMT):

DATE: 3/3/06

PAGE: 2 of 2

Invoice with _____ sampling events for this site, sampled through the following date: _____

CONSULTANT COMPANY: URS Corporation

ADDRESS: 1001 Highlands Plaza Drive West; Suite 300

CITY: St. Louis, MO 63110

TELEPHONE: (office) 314-429-0100 (cell) 314-409-8460

FAX: (Office) 314-429-0462 (Trailer) 618-254-1512

E-MAIL: Jeff Adams Thomas_Adams@urscorp.com

SITE ADDRESS (Street and City): 900 South Central Avenue, Roxana, IL 62048

PROJECT CONTACT (Report to): Herb Hand (SOPUS) (Copy to): Jeff Adams (URS)

CONSULTANT PROJECT NO.: SOPUS-West Fenceline P-93 Project

SAMPLER NAME(S) (Print):

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):

☐ STANDARD (10 DAY) ☑ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

TEMPERATURE ON RECEIPT C°

SPECIAL INSTRUCTIONS OR NOTES :

Level 4 QC Deliverables

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	FIELD PARAMETERS TEMPERATURE (F)	pH	CONDUCTIVITY (see units below)
	P7503030601	3/3/06	1030	61.7	6.45	1720 mS/cm
	P93A03030601	↓	1430	62.6	6.61	1072 mS/cm
	P93B03030601		1545	57.92	7.09	1161 mS/cm
	P5703030601		1550	55.76	6.72	1218 mS/cm

NPD0520

Cooler 1 of 1

TEST 04/11/06 17:00 TER CREIGHTON, NASHVILLE, TN 37204 PHONE 800-765-0980 FAX# 616-726-3404

☐ 7602 Commerce Drive, Watertown, WI 53094 Phone 800-833-7036
☐ 704 Enterprise Drive, Cedar Falls, IA 50613 Phone 319-277-2401
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☐ 3601 South Dixie Drive, Dayton, OH 46439 Phone 800-572-9839
☐ 1380 Busch Parkway, Buffalo Grove, IL 60089 Phone 847-808-7766
☐ 1110 Elkton Drive, Suite A, Colorado Springs, CO 80907 Phone 719-593-9911
☐ Other _____

Shell Oil Products US Chain Of Custody Record

SOP US Project Manager to be Invoiced:
☐ ENVIRONMENTAL SERVICES
☐ TECHNICAL SERVICES
☐ RMT HOUSTON
☐ BILL CONSULTANT

NAME OF PM TO BILL: Herb Hand (SOPUS)

NAME OF TS TO BILL:

☑ SHELL RATES ☐ STATE REIMBURSEMENT RATES

INCIDENT # (S&E ONLY): 9 7 2 1 6 6 3 4

SAP or CRMT # (TS/CRMT):

DATE: 4-5-06
PAGE: 1 of 1

Invoice with _____ sampling events for this site, sampled through the following date: _____

CONSULTANT COMPANY: URS Corporation

ADDRESS: 1001 Highlands Plaza Drive West; Suite 300

CITY: St. Louis, MO 63110

TELEPHONE: (office) 314-429-0100 (cell) 314-409-8460
FAX: (Office) 431-429-0462 (Trailer) 618-254-1512
E-MAIL: Jeff Adams Thomas_Adams@urscorp.com

SITE ADDRESS (Street and City): West Fenceline P-93
SOPUS [redacted] 170 East Rand Avenue; Hartford, IL 62048

PROJECT CONTACT (Report to): Herb Hand (SOPUS) (Copy to): Jeff Adams (URS)

CONSULTANT PROJECT NO.: West Fenceline P-93
SOPUS [redacted]

SAMPLER NAME(S) (Print): Mike Corbett

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☐ STANDARD (10 DAY) ☑ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

TEMPERATURE ON RECEIPT C°

REQUESTED ANALYSIS If more than one method is listed, circle one

SPECIAL INSTRUCTIONS OR NOTES :
Level 4 QC Deliverables Temp Blank Included

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOCs Method 8260	Level 4 QC Deliverables	Container PID Readings or Laboratory Notes
	P9302GWP43	4/5/06	1330	Water	X					3	X	X	NPD0520-01
	P9302GWP59	4/5/06	1515	Water	X					3	X	X	2
	P9311GWP41	4/5/06	1720	Water	X					3	X	X	3
	TB04050601	4/5/06								1	X		4

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Wendy M Dellig 4/5/02 1745			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		4/6/06	8:40

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Cooler 1 of 1

TEST AMERICA

☑ 2690 FOSTER CREIGHTON, NASHVILLE, TN 37204 PHONE 800-765-0980 FA

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☐ 704 Enterprise Drive, Cedar Falls, IA 50613 Phone 319-277-2401

☐ 14500 Trinity Blvd., Suite 106, Fort Worth, TX 76155 Phone 817-571-6800

☐ 3601 South Dixie Drive, Dayton, OH 46439 Phone 800-572-9839

☐ 1380 Busch Parkway, Buffalo Grove, IL 60089 Phone 847-808-7766

☐ 1110 Elkton Drive, Suite A, Colorado Springs, CO 80907 Phone 719-593-9911

☐ Other _____

NPD0794

04/17/06 23:59

Shell Oil Products US Chain Of Custody Record

SOP US Project Manager to be invoiced:

☐ ENVIRONMENTAL SERVICES

☐ TECHNICAL SERVICES

☐ RMT HOUSTON

☐ BILL CONSULTANT

NAME OF PM TO BILL: Herb Hand (SOPUS)

NAME OF TS TO BILL:

☑ SHELL RATES ☐ STATE REIMBURSEMENT RATES

INCIDENT # (SAE ONLY): 9 7 2 1 6 6 3 4

SAP or CRMT # (TS/CRMT):

DATE: 4/6/06

PAGE: 1 of 1

Invoice with _____ sampling events for this site, sampled through the following date: _____

CONSULTANT COMPANY: URS Corporation

ADDRESS: 1001 Highlands Plaza Drive West; Suite 300

CITY: St. Louis, MO 63110

TELEPHONE: (office) 314-429-0100 (cell) 314-409-6460

FAX: (Office) 431-429-0462 (Trailer) 618-254-1512

E-MAIL: Jeff Adams Thomas_Adams@urscorp.com

SITE ADDRESS (Street and City): West Fenceline P-93

SOPUS-~~Rand Avenue~~ 170 East Rand Avenue; Hartford, IL 62048

PROJECT CONTACT (Report to): Herb Hand (SOPUS) (Copy to): Jeff Adams (URS)

CONSULTANT PROJECT NO.: West Fenceline P-93 SOPUS-[redacted]

SAMPLER NAME(S) (Print): Michael Corbett

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS): ☐ STANDARD (10 DAY) ☑ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS If more than one method is listed, circle one

TEMPERATURE ON RECEIPT C°

SPECIAL INSTRUCTIONS OR NOTES :

Level 4 QC Deliverables Temp Blank Included

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOCs Method 8260	TPH-GRO (8015)	TPH-DRO (8015)	8260 / 8015 Moisture	Level 4 QC Deliverables	Container PID Readings or Laboratory Notes
	P9311GWP59	4/6/06	0930	water	X					3	X				X	NPD0794-01
	P9311GWP59D	4/6/06	0930	water	X					3	X				X	-02
	TB04060602	4/6/06		water	X					1	X					-03
	P9303GWP40	4/6/06	1610	water	X					3	X				X	-04

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Michael Corbett 4/6/06 1730			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		4/7/06	8:00

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☐ 1380 Busch Parkway, Buffalo Grove, IL 60089 Phone 847-808-7766

☐ 1110 Elkton Drive, Suite A, Colorado Springs, CO 80907 Phone 719-593-9911

☐ Other _____

Shell Oil Products US Chain Of Custody Record

SOP US Project Manager to be invoiced:

☐ ENVIRONMENTAL SERVICES
☐ TECHNICAL SERVICES
☐ RMT HOUSTON
☐ BILL CONSULTANT

NAME OF PM TO BILL: Herb Hand (SOPUS)

NAME OF TS TO BILL:

☑ SHELL RATES ☐ STATE REIMBURSEMENT RATES

INCIDENT # (S&E ONLY): 9 7 2 1 6 6 3 4

SAP or CRMT # (TS/CRMT):

DATE: 4/7/06

PAGE: 1 of 1

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FAX: (Office) 431-429-0462 (Trailer) 618-254-1512

E-MAIL: Jeff Adams Thomas_Adams@urscorp.com

SITE ADDRESS (Street and City): P93 West Fenceline

SOPUS-[redacted] 170 East Rand Avenue; Hartford, IL 62048

PROJECT CONTACT (Report to): Herb Hand (SOPUS) (Copy to): Jeff Adams (URS)

CONSULTANT PROJECT NO.: P93 West Fenceline

SOPUS-[redacted]

SAMPLER NAME(S) (Print): Michael Corbett

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
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Level 4 QC Deliverables Temp Blank Included

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	P9303GWP59	4/7/06	0905	water	X					3	X				X	-1
	P9305GWP45	4/7/06	1100	water	X					3	X				X	-2
	P9305GWP58	4/7/06	1205	water	X					3	X				X	-3
	P9305GWP58MS	4/7/06	1205	water	X					3	X				X	-4 -3
	P9305GWP58MSD	4/7/06	1205	water	X					3	X				X	-5 -3
	TB0407060603	4/7/06		water						1	X				X	-6 -4
	P9306GWP50EB	4/7/06	1510	water	X					3	X				X	-7 -5
	P9306GWP50	4/7/06	1600	water	X					3	X				X	-8 -6
																JMR 4-8-06

NPD0934
04/13/06 23:59

	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) Mike Corbett 4/7/06 1730			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) JMR	Date: 4-8-06	Time: 0830

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☐ Other _____

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☐ TECHNICAL SERVICES

☐ RMT HOUSTON

☐ BILL CONSULTANT

NAME OF PM TO BILL: Herb Hand (SOPUS)

NAME OF TS TO BILL:

☑ SHELL RATES ☐ STATE REIMBURSEMENT RATES

INCIDENT # (S&E ONLY): 9 7 2 1 6 6 3 4

SAP or CRMT # (TS/CRMT):

DATE: 4/10/06

PAGE: 1 of 1

Invoice with _____ sampling events for this site, sampled through the following date: _____

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PROJECT CONTACT (Report to): Herb Hand (SOPUS) (Copy to): Jeff Adams (URS)

CONSULTANT PROJECT NO.: P93 West Fenceline SOPUS-~~Rand Avenue~~

SAMPLER NAME(S) (Print): Mike Corbett

LAB USE ONLY

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	P9306GWP62.5	4/10/06	0920	water	X					3	X				X	NPD1163 04/16/06 23:59 -1
	TB04100604	4/10/06		water						1	X				X	-2

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Mike Corbett 4/10/06 1800			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	JM	4-11-06	0830

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NPD1302

04/17/06 23:59

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☐ Other _____

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☐ TECHNICAL SERVICES

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☐ BILL CONSULTANT

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NAME OF TS TO BILL:

☑ SHELL RATES ☐ STATE REIMBURSEMENT RATES

INCIDENT # (SAE ONLY): 9 7 2 1 6 6 3 4

SAP or CRMT # (TS/CRMT):

DATE: 04/11/06

PAGE: _____ of _____

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FAX: (Office) 431-429-0462 (Trailer) 618-254-1512

E-MAIL: Jeff Adams Thomas_Adams@urscorp.com

SITE ADDRESS (Street and City): SOPUS-Rand Avenue 170 East Rand Avenue; Hartford, IL 62048

PROJECT CONTACT (Report to): Herb Hand (SOPUS) (Copy to): Jeff Adams (URS)

CONSULTANT PROJECT NO.: SOPUS-Rand Avenue

SAMPLER NAME(S) (Print):

LAB USE ONLY:

TURNAROUND TIME (CALENDAR DAYS): ☐ STANDARD (10 DAY) ☑ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

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Level 4 QC Deliverables

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOCs Method 8260	TPH-GRO (8015)	TPH-DRO (8015)	8260 / 8015 Moisture	Level 4 QC Deliverables	Container PID Readings or Laboratory Notes
	P9309GWP66	04/11/06	1500	W	✓					3	✓				✓	NPD1302-01
	P9309GWP66D	04/11/06	1500	W	✓					3	✓				✓	-02
	P9309GWP52	04/11/06	1430	W	✓					3	✓				✓	-03
	TB04110605	04/11/06		W	✓					1	✓				✓	-04
	P9309GWP52EB	04/10	1315	W	✓					3	✓				✓	-05

Relinquished by: (Signature)	Received by: (Signature) FedEx	Date: 04/11/06	Time: 1830
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date: 4/12/06	Time: 8:00

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FUGRO GEOSCIENCES, INC.

6105 Rookin
Houston, Texas 77074
Phone : 713-346-4000
Fax : 713-346-4002

June 5, 2006
Report Number: 0305-1830B

URS Corporation
1001 Highland Plaza Drive West
Suite 300
St. Louis, MO 63110

Attn.: Mr. Eric Friedich

DATA REPORT
CONE PENETRATION,
RAPID OPTICAL SCREENING TOOL (ROST™) AND
MEMBRANE INTERFACE PROBE (MIP)
TESTING RELATED SERVICES
CONOCO PHILLIPS REFINERY
ROXANNA, ILLINOIS
WORK ORDER NO. 21561665

Dear Mr. Friedich:

Fugro Geosciences (Fugro) is pleased to present this data report for Cone Penetration (CPT), Rapid Optical Screening Tool (ROST™) and Membrane Interface Probe (MIP) testing at the above-referenced site. These tests provided continuous characterization of stratigraphy, petroleum hydrocarbon distribution and chemical characteristics of soil at the testing locations. A description of the CPT, ROST™ and MIP technologies follows. CPT, ROST™ and MIP logs and electronic data CD are included as attachments.

Cone Penetration Testing

CPT was performed simultaneously with each ROST™ sounding and yielded real-time stratigraphic data. CPT is a proven method for rapidly evaluating the physical characteristics of unconsolidated soils. It is based on the resistance to penetration of an electronically-instrumented cone which is continuously advanced into the subsurface. In accordance with ASTM Standard D5778-95, the cone was advanced at a rate of two centimeters per second with the driving force provided by hydraulic rams.

The CPT cone used at this site had an apex angle of 60 degrees with a base area of 15 square centimeters (cm^2), and friction sleeve with a surface area of 200 cm^2. The standard geotechnical sensors within the cone measure tip resistance and sleeve friction in tons per square foot (TSF). The combined data from the tip resistance and sleeve friction form the basis of the soil classification (e.g., sand, silt, clay, etc.).

Soil stratigraphy was identified using Campanella and Robertson's Simplified Soil Behavior Chart. Please note that because of the empirical nature of the soil behavior chart, the soil identification should be verified locally.

ROST™ Testing

Fugro Geosciences' ROST™ Laser-Induced Fluorescence system was used for this investigation to screen soils for petroleum hydrocarbon materials containing aromatic hydrocarbon constituents. The system consists of a tunable laser mounted in the CPT truck that is connected to a down-hole sensor. The down-hole sensor consists of a small diameter sapphire window mounted flush with the side of the cone penetrometer probe.

The laser and associated equipment transmit 50 pulses of light per second to the sensor through a fiber optic cable. The wavelength of the pulsed excitation light is tunable and can be set to wavelengths of 266 nanometers (nm) or to wavelengths between 280 and 300 nm. An excitation wavelength of 290 nm was used for each test during this project.

The laser light passes through the sapphire window and is absorbed by aromatic hydrocarbon molecules in contact with the window, as the probe is advanced. This addition of energy (photons) to the aromatic hydrocarbons causes them to fluoresce. A portion of the fluorescence emitted from any encountered aromatic constituents is returned through the sapphire window and conveyed by a second fiber optic cable to a detection system within the CPT rig. The emission data resulting from the pulsed laser light is averaged into one reading per one second interval (approximately one reading per 2 cm vertical interval) and is recorded continuously. ROST™ may be operated in single or multi-wavelength mode, depending on project objectives. For this project, ROST™ was operated in multi-wavelength mode (MWL).

Multi-Wavelength Mode (MWL). In MWL mode, several characteristics of the emitted fluorescence are measured and recorded simultaneously at four (4) specific wavelengths (340, 390, 440, and 490 nm). These four wavelengths represent the spectrum of fluorescence typically produced by aromatic hydrocarbons ranging from light fuels through heavy contaminants such as coal tar and creosote. The recorded data is then presented as a color graph of fluorescence intensity (the combined fluorescence of all four monitored wavelengths) versus depth (FVD).

On the FVD graph, each of the four monitored wavelengths is assigned a color. These colors are combined based on the proportional fluorescence intensity of each of the individual wavelengths. The combined color is then used on the FVD graph. Changes in color on the FVD graph typically represent changes in product type. Similarly, like colors on the FVD graph typically represent the same product, regardless of the total fluorescence intensity. Changes in the total fluorescence intensity typically indicate changes in contaminant concentration, with higher fluorescence intensities representing proportionally higher concentrations when compared to lower fluorescence intensities.

In addition to the FVD graph, depth specific waveforms are presented at four (4) selected depths throughout the sounding. These waveform graphs are presented to the right of the FVD graph on each plot. In the waveform graphs, the fluorescence intensity and duration of fluorescence of each of the monitored wavelengths is represented by an individual peak, starting at 340 nm and increasing in 50 nm wavelengths as you move to the right. The intensity of each wavelength is represented by the height of the peaks, and the duration of fluorescence is represented by the width of each peak. For general interpretation purposes, lighter aromatic hydrocarbon molecules will emit fluorescence at the shorter wavelengths, and heavier, longer chained hydrocarbons will emit fluorescence at the longer wavelengths. The presented waveforms can be compared to waveforms typical of common hydrocarbon products to determine the likely product type that has been encountered. Please note that the waveforms are available at every two centimeter interval throughout the entire sounding. Additional waveforms can be generated at any time during or after testing is complete.

Reference Solution. The fluorescence intensity of a reference solution placed on the sapphire window was measured immediately prior to conducting each test. This reference solution measurement serves two purposes. First, as a quality control check, the solution is used to ensure that the performance of the system is within specifications. Second, it allows for normalization of the data from

different test locations for variation in laser power, operating conditions, and monitored emission wavelength. The reference solution used for this project was the standard M1 reference, which is a proprietary PHC containing solution. M1 provides consistent fluorescence response across the portion of the spectrum analyzed by ROST and therefore, allows the fluorescence data collected to be consistently normalized to intensities recorded as a percentage of M1.

MIP Testing

For this investigation, the MIP was combined with CPT to screen soils for VOCs. The MIP system consists of a hydrophobic membrane that is surrounded by a heater block, Teflon tubing, and a series of detectors. By heating the area around the membrane, a pressure gradient is created. This pressure gradient pushes volatilized VOCs through the membrane where they are "swept" to the surface using an inert carrier gas. Once at the surface, the carrier gas and any VOCs that are present are fed directly into a series of detectors. This series of detectors includes

a PID, FID, and ECD. The responses from each of the detectors are then recorded. A brief description of each of the detectors follows.

The Photo Ionized Detector (PID) responds to all aromatics and molecules with carbon double bonds. The PID uses a 10.6eV lamp with a high voltage power supply. Sample laden carrier gas flows into the inlet and through a flow-through cell. When the sample molecules flow into the cell they are bombarded with UV light. Molecules with an ion potential lower than 10.6eV release an ion when struck by the photons. The ions are attracted to a collector electrode, and then sent to the amplifier to produce and analog signal. The PID is nondestructive, so the sample is routed through the PID to subsequent detectors.

The Flame Ionized Detector (FID) responds to any molecule with a carbon-hydrogen bond. In the FID, the carrier gas effluent is mixed with hydrogen then routed through a stainless steel jet. The hydrogen mix supports a diffusion flame at the jet's tip, which ionizes the analyte molecules. Positive and negative ions are produced as each sample component is eluted into the flame. A collector electrode attracts the negative ions to the electrometer amplifier, producing an analog signal for the data system input. Because it uses a hydrogen diffusion flame to ionize compounds for analysis it destroys the sample in the process.

The Electron Capture Detector (ECD) detects electro-negative compounds, especially chlorinated, fluorinated or brominated molecules such as carbon tetrachloride, bromoform, PCBs and pesticides. The ECD detector consists of a sealed stainless steel cylinder containing radioactive nickel-63. When electro-negative components enter the cell, they immediately combine with some of the electrons, reducing the number remaining in the electron cloud. The detector electronics, which maintain a constant current through the electron cloud, are forced to pulse at a faster rate to compensate for the decreased number of free electrons. The pulse rate is converted to an analog output which is connected to the data system.

The collected sensor data is presented on plots for each CPT/MIP test. In addition to the plots, a disk containing the digital output from each of the detectors and from the CPT is provided.

LIMITATIONS OF ENVIRONMENTAL SUBSURFACE WORK

Fugro Geosciences' report is based upon our observations made during field work, the information provided to Fugro and the results of the ROST/CPT survey. Given the inherent limitation of environmental subsurface work, Fugro cannot guarantee that the site is free of hazardous or potentially hazardous materials or conditions or that latent or undiscovered conditions will not become evident in the future. Fugro's report was prepared in accordance with our proposal and the General Conditions agreed to between Fugro and Client and no warranties, representations, or certifications are made.

Fugro Geosciences, Inc. appreciates the opportunity to be of service to your organization. Please do not hesitate to contact us if we can be of further assistance. We look forward to working with you in the future.

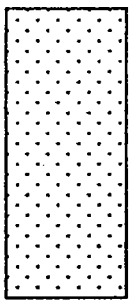
Sincerely,
FUGRO GEOSCIENCES, INC.

Recep Yilmaz
President

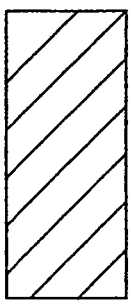
RY/mdt

Enclosure: - 1 CD

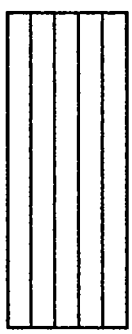
KEY TO SOIL BEHAVIOR TYPE



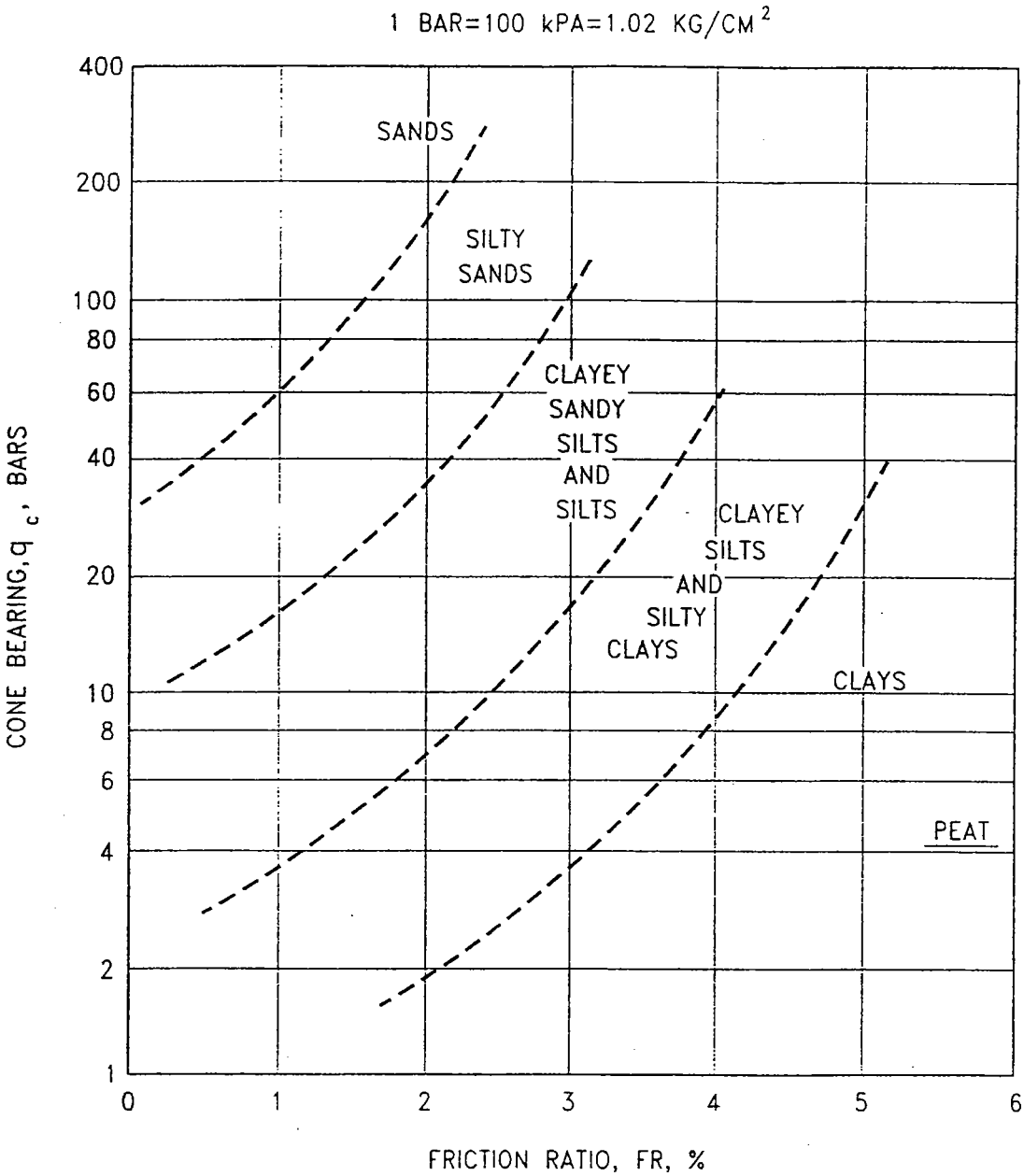
SAND AND SANDY SOIL



CLAY AND CLAYEY SOIL



SILT AND SILTY SOIL



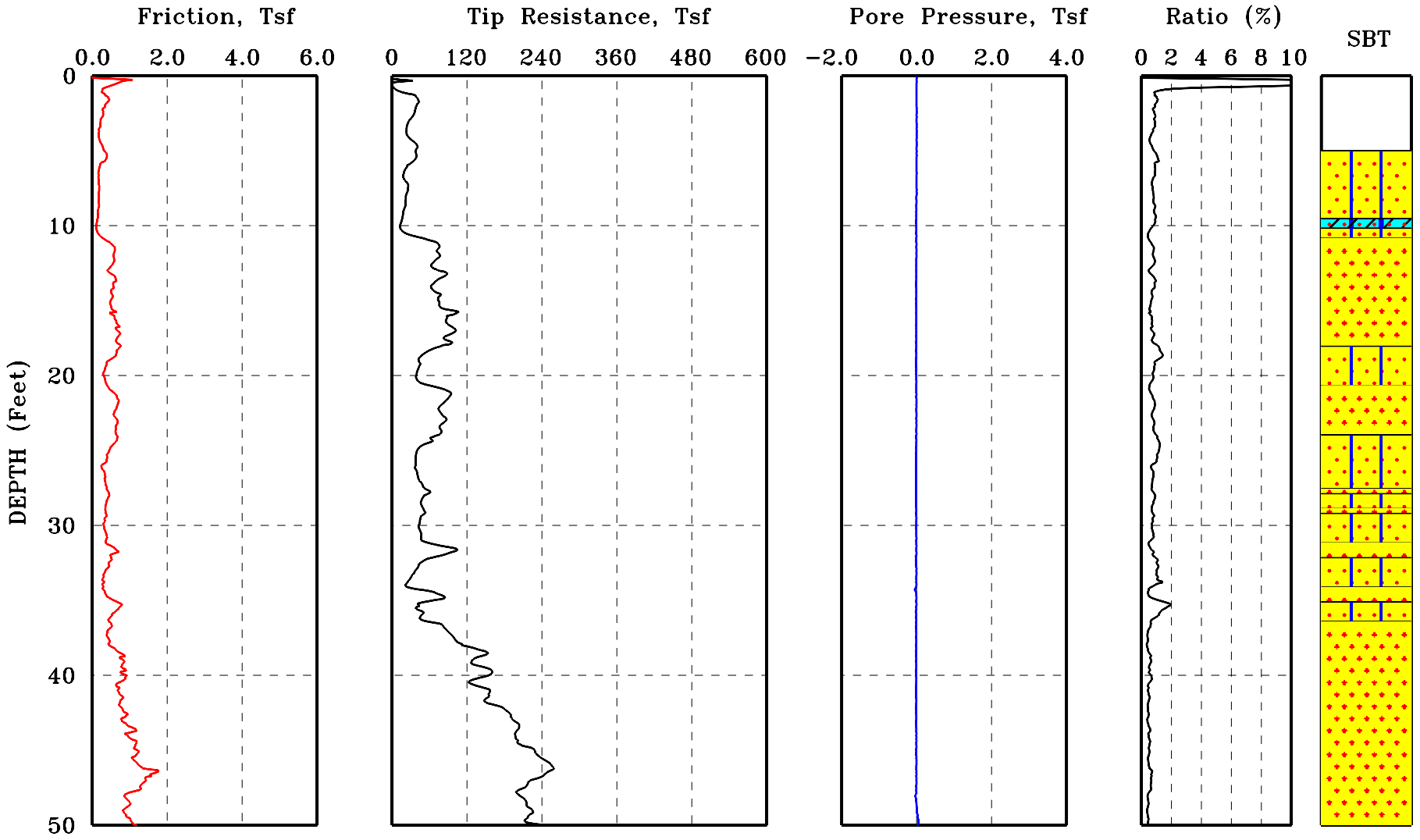
MODIFIED CAMPANELLA AND ROBERTSON SOIL BEHAVIOR CHART (1983)

ROST SECTION

CPT LOGS

FUGRO GEOSCIENCES,INC.

CPT No : P-93-08	SITE : HARTFORD
JOB No : 0305-1830	CLIENT : URS CORP
CONE No : F7.5CKEW1303	OPERATOR : GJ
	DATE : 03-30-2006



FUGRO GEOSCIENCES,INC.

CPT No : P-93-08	SITE : HARTFORD
JOB No : 0305-1830	CLIENT : URS CORP
CONE No : F7.5CKEW1303	OPERATOR : GJ
	DATE : 03-30-2006

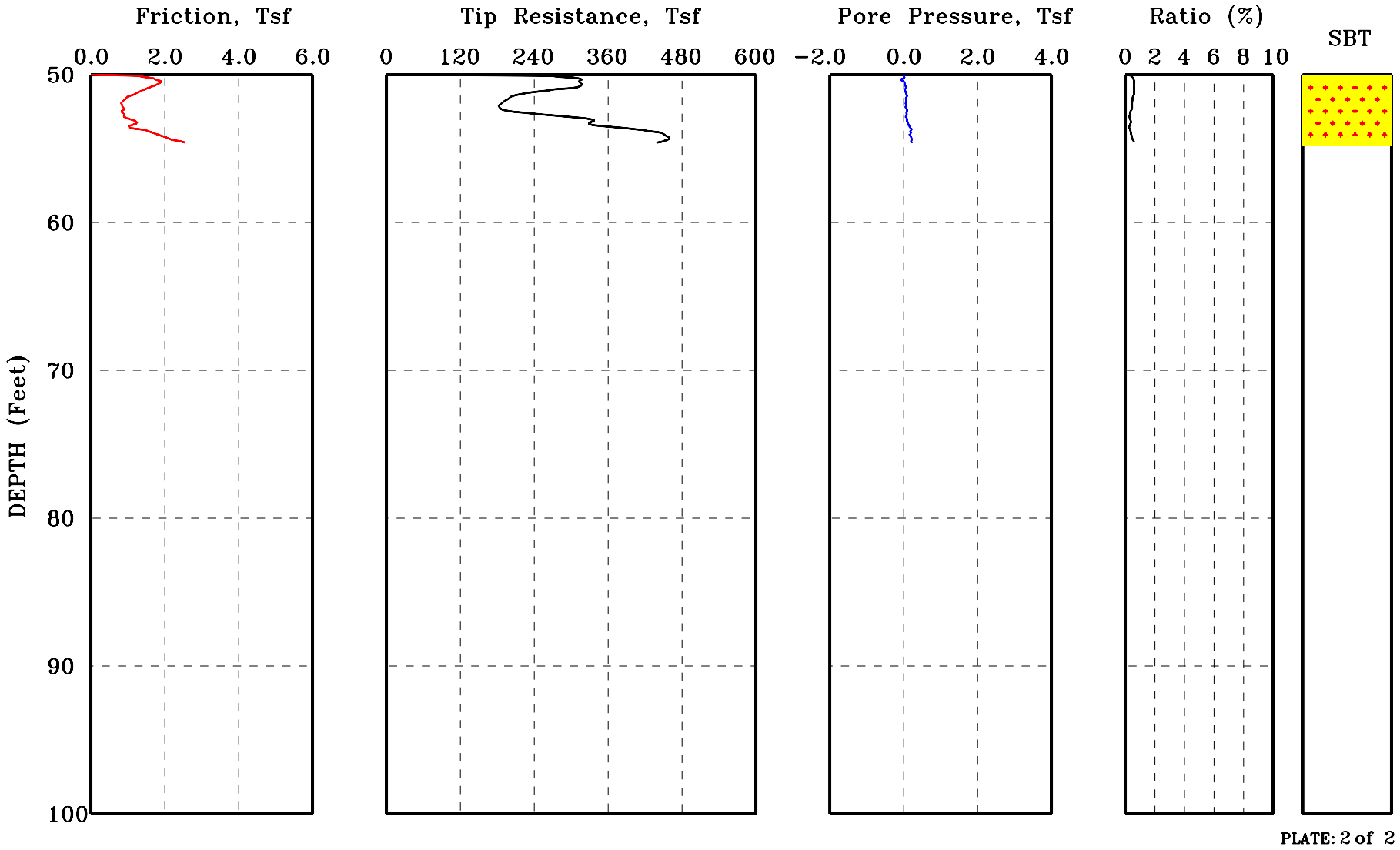


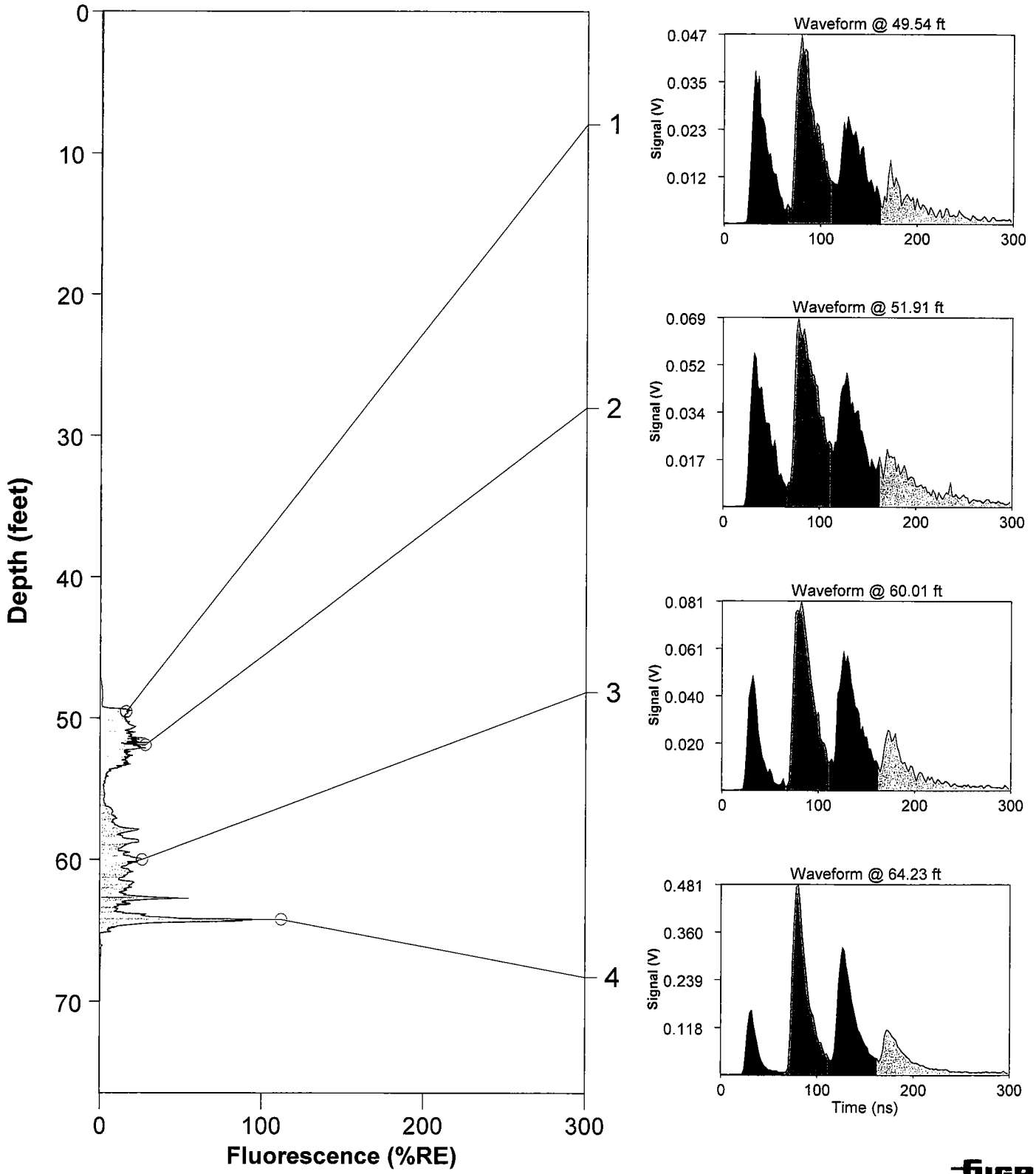
PLATE: 2 of 2

ROST™ LOGS

ROST Fluorescence Response Data

Site: CONOCO PHILLIPS HARTFORD,IL.	Operator: GLENN
Client: URS	Fugro Job #: 0305-1830
Date/Time: 3/28/2006 @ 5:44:16 AM	Max fluorescence: 112.11% @ 64.23 ft
ROST Unit: 5	Final depth BGS: 70.02 ft

P-93-08



Fugro Geosciences, Inc., 6105 Rookin, Houston, TX 77074 (713) 346-4000 www.geo.fugro.com

CPT/MIP LOGS

FUGRO GEOSCIENCES,INC.

CPT No : P-93-01	SITE : HARTFORD
JOB No : 0305-1830	CLIENT : URS CORP
CONE No : F7.5CKEW1303	OPERATOR : GJ
	DATE : 03-31-2006

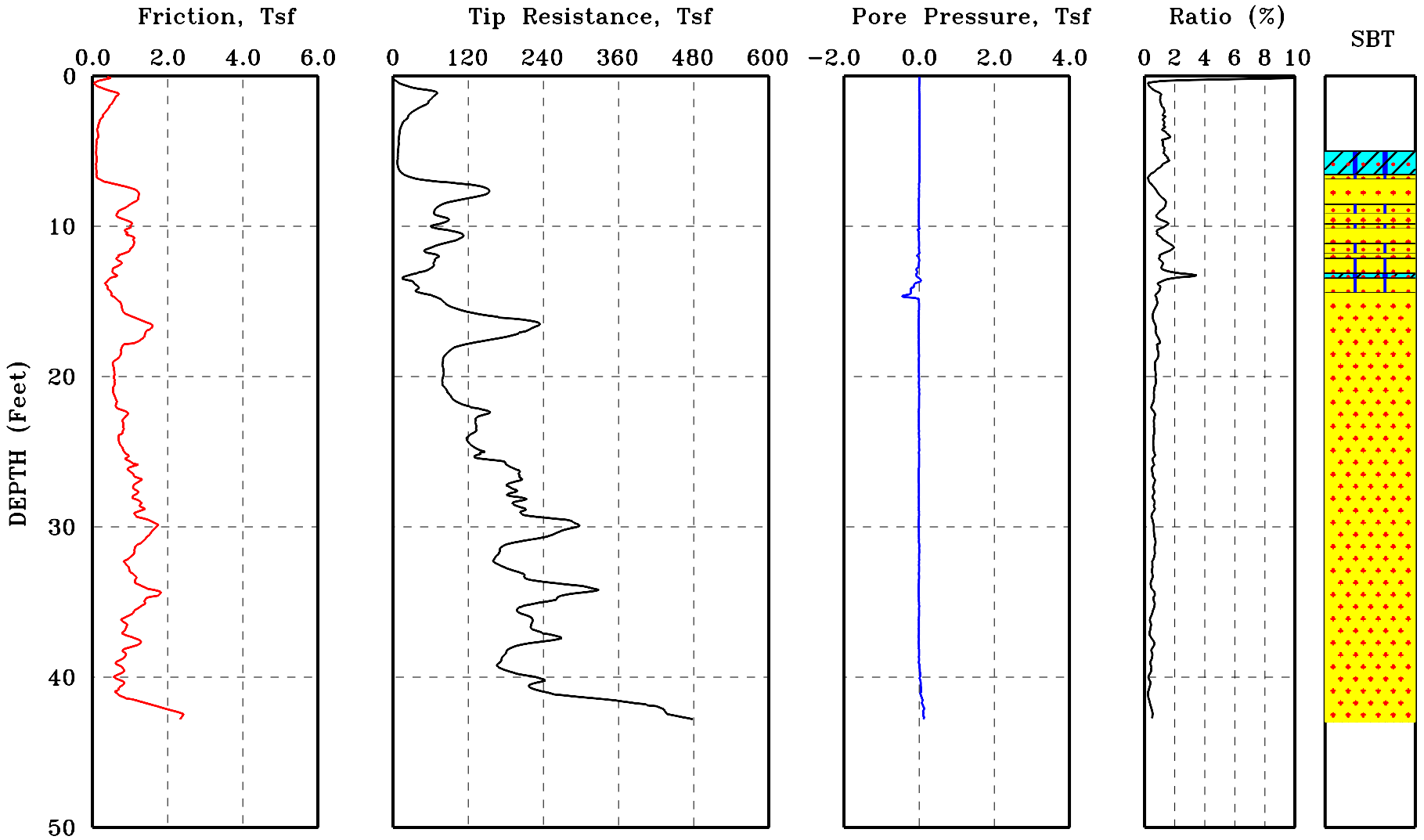
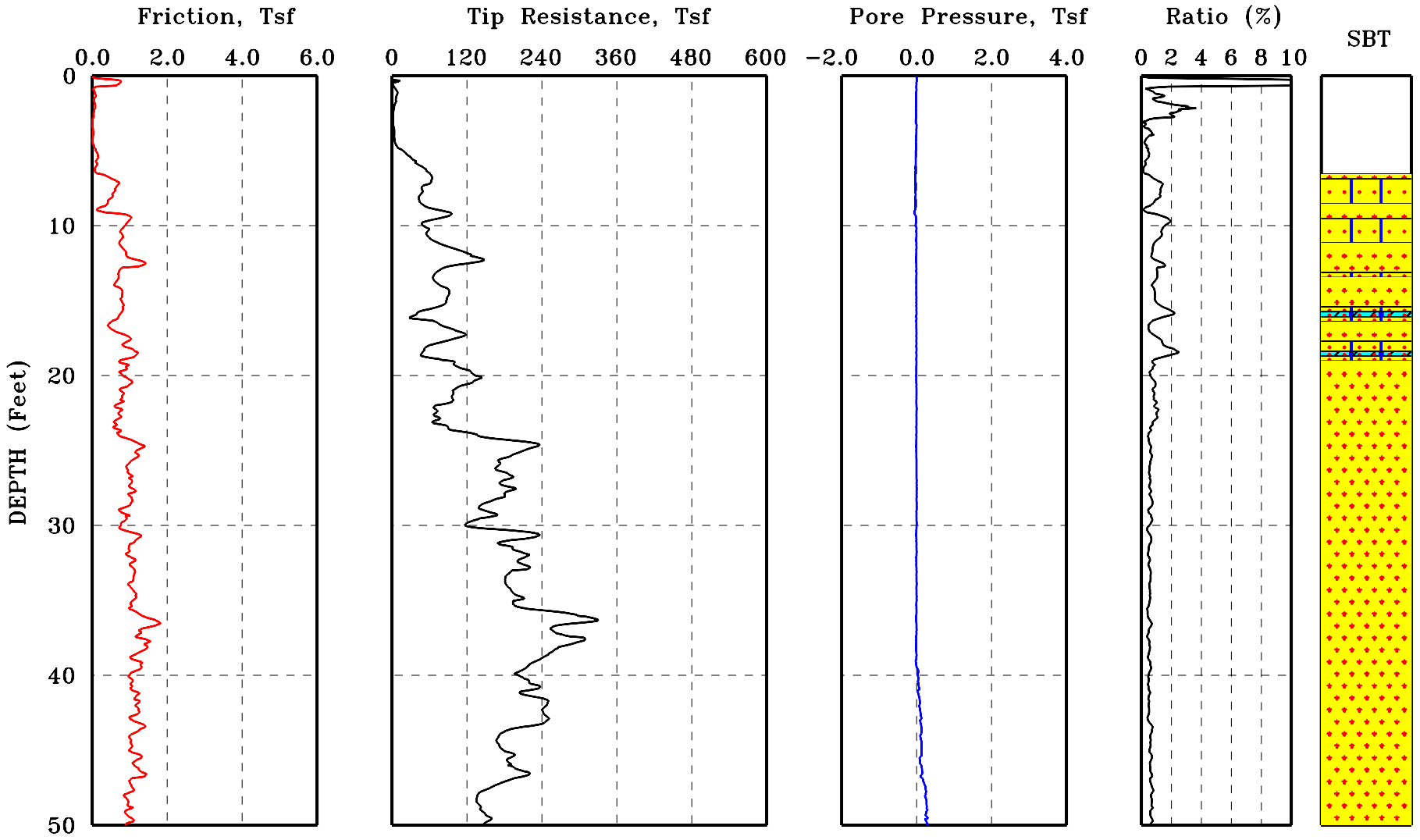


PLATE: 1 of 1

FUGRO GEOSCIENCES,INC.

CPT No : P-93-02	SITE : HARTFORD
JOB No : 0305-1830	CLIENT : URS CORP
CONE No : F7.5CKEW1303	OPERATOR : GJ
	DATE : 04-01-2006



FUGRO GEOSCIENCES,INC.

CPT No : P-93-02	SITE : HARTFORD
JOB No : 0305-1830	CLIENT : URS CORP
CONE No : F7.5CKEW1303	OPERATOR : GJ
	DATE : 04-01-2006

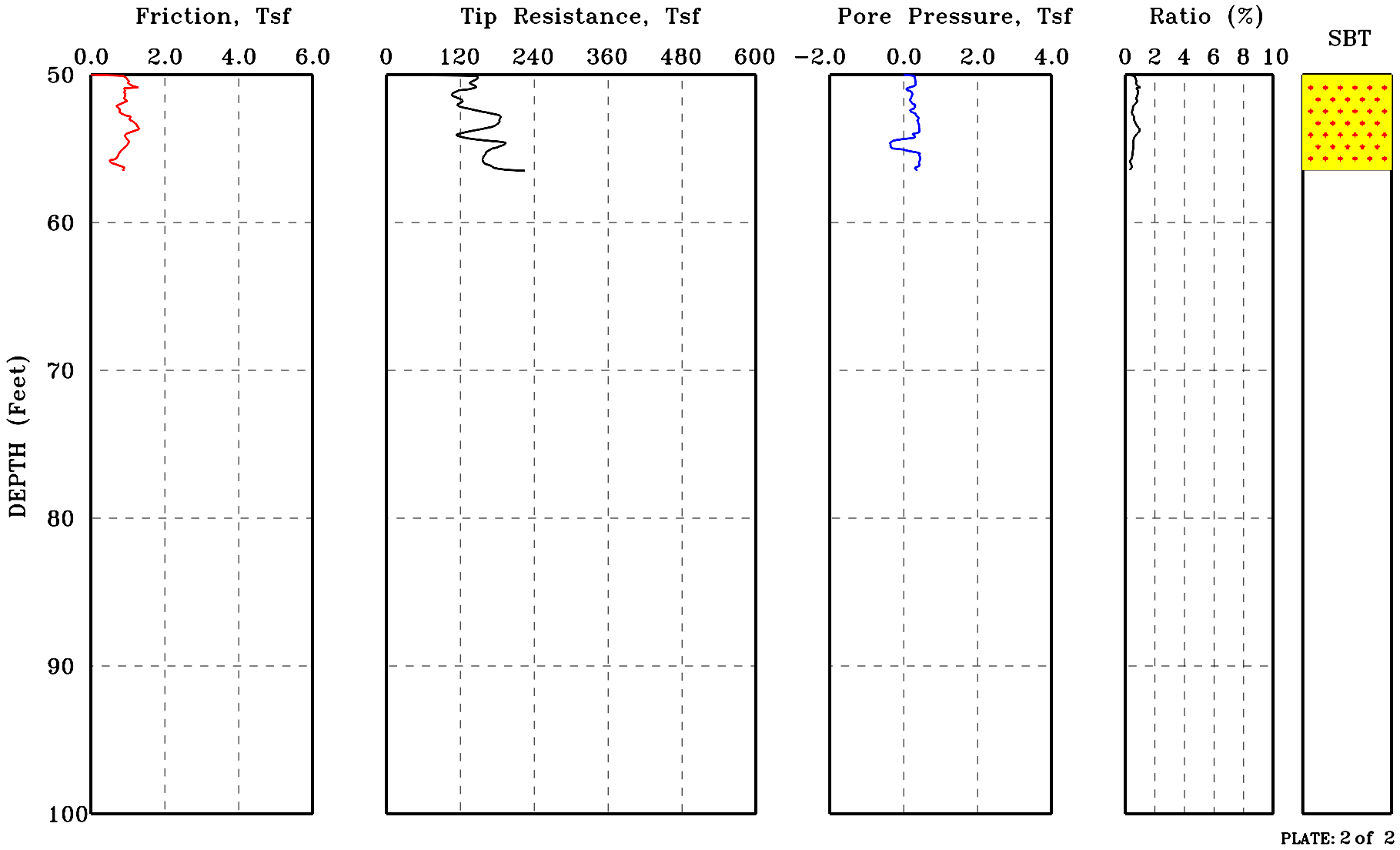
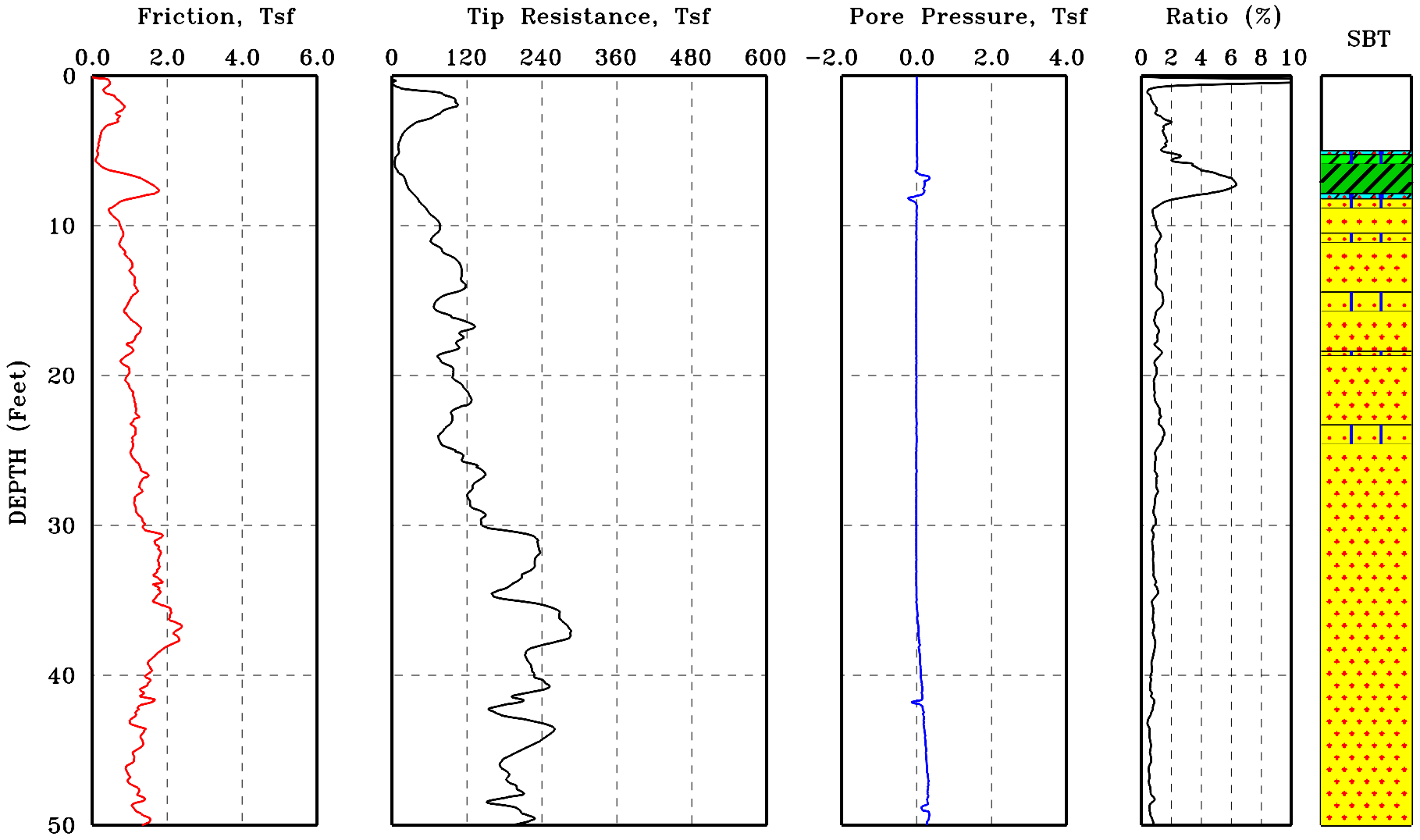


PLATE: 2 of 2

FUGRO GEOSCIENCES,INC.

CPT No : P-93-04	SITE : HARTFORD
JOB No : 0305-1830	CLIENT : URS CORP
CONE No : F7.5CKEW1303	OPERATOR : GJ
	DATE : 04-01-2006



FUGRO GEOSCIENCES,INC.

CPT No : P-93-04	SITE : HARTFORD
JOB No : 0305-1830	CLIENT : URS CORP
CONE No : F7.5CKEW1303	OPERATOR : GJ
	DATE : 04-01-2006

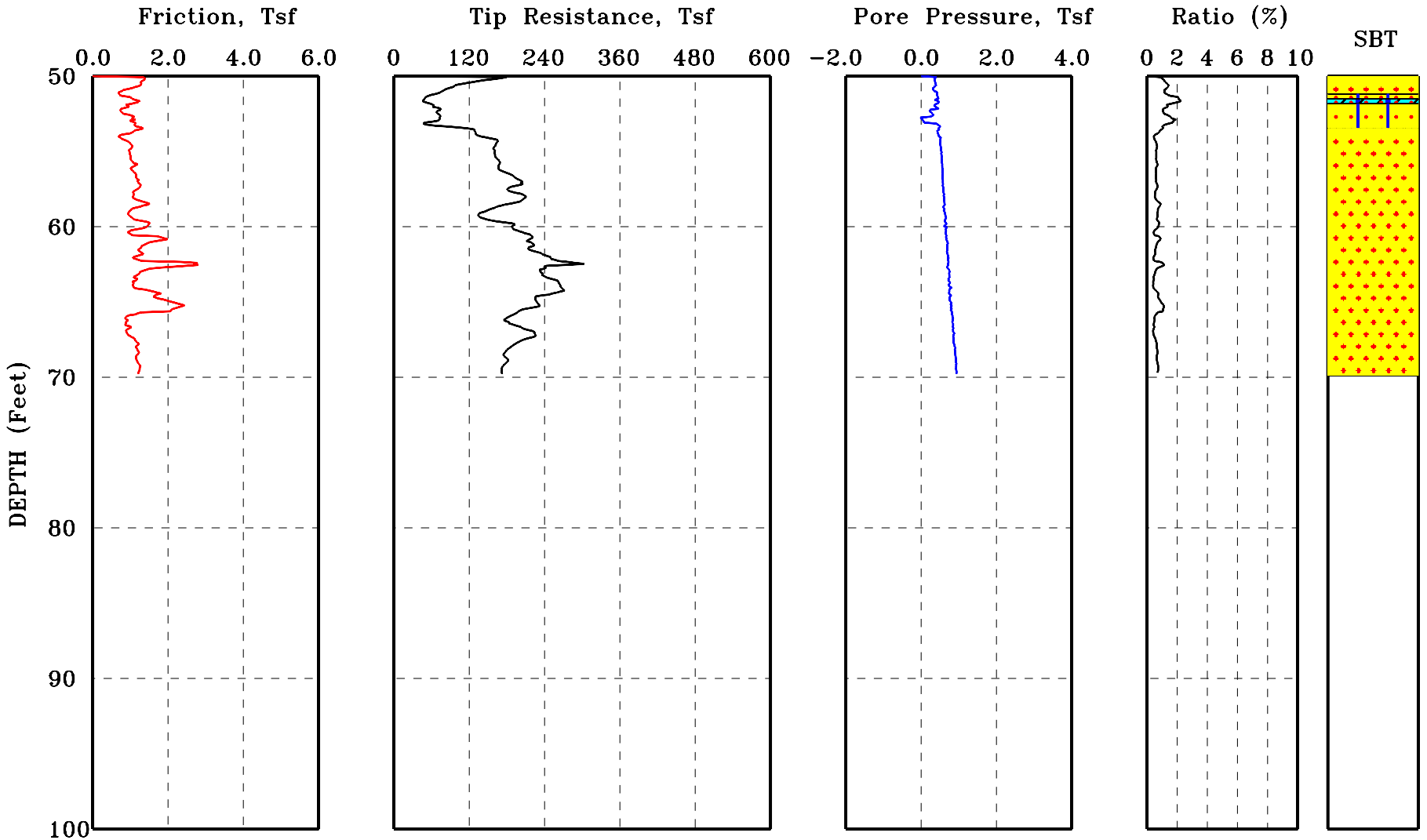


PLATE: 2 of 2

FUGRO GEOSCIENCES,INC.

CPT No : P-93-05	SITE : HARTFORD
JOB No : 0305-1830	CLIENT : URS CORP
CONE No : F7.5CKEW1303	OPERATOR : GJ
	DATE : 04-01-2006

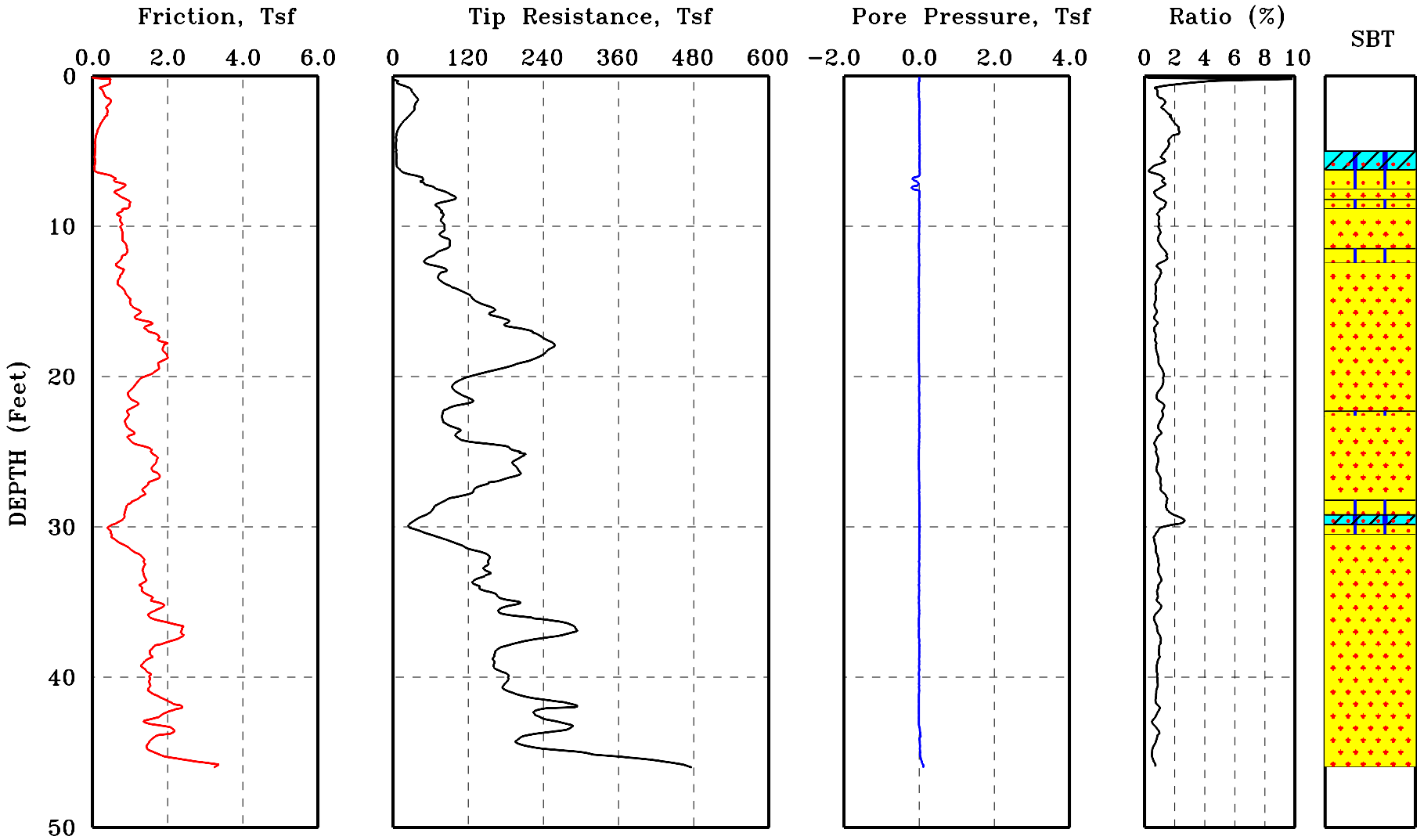


PLATE: 1 of 1

FUGRO GEOSCIENCES,INC.

CPT No : P-93-06	SITE : HARTFORD
JOB No : 0305-1830	CLIENT : URS CORP
CONE No : F7.5CKEW1303	OPERATOR : JB
	DATE : 04-02-2006

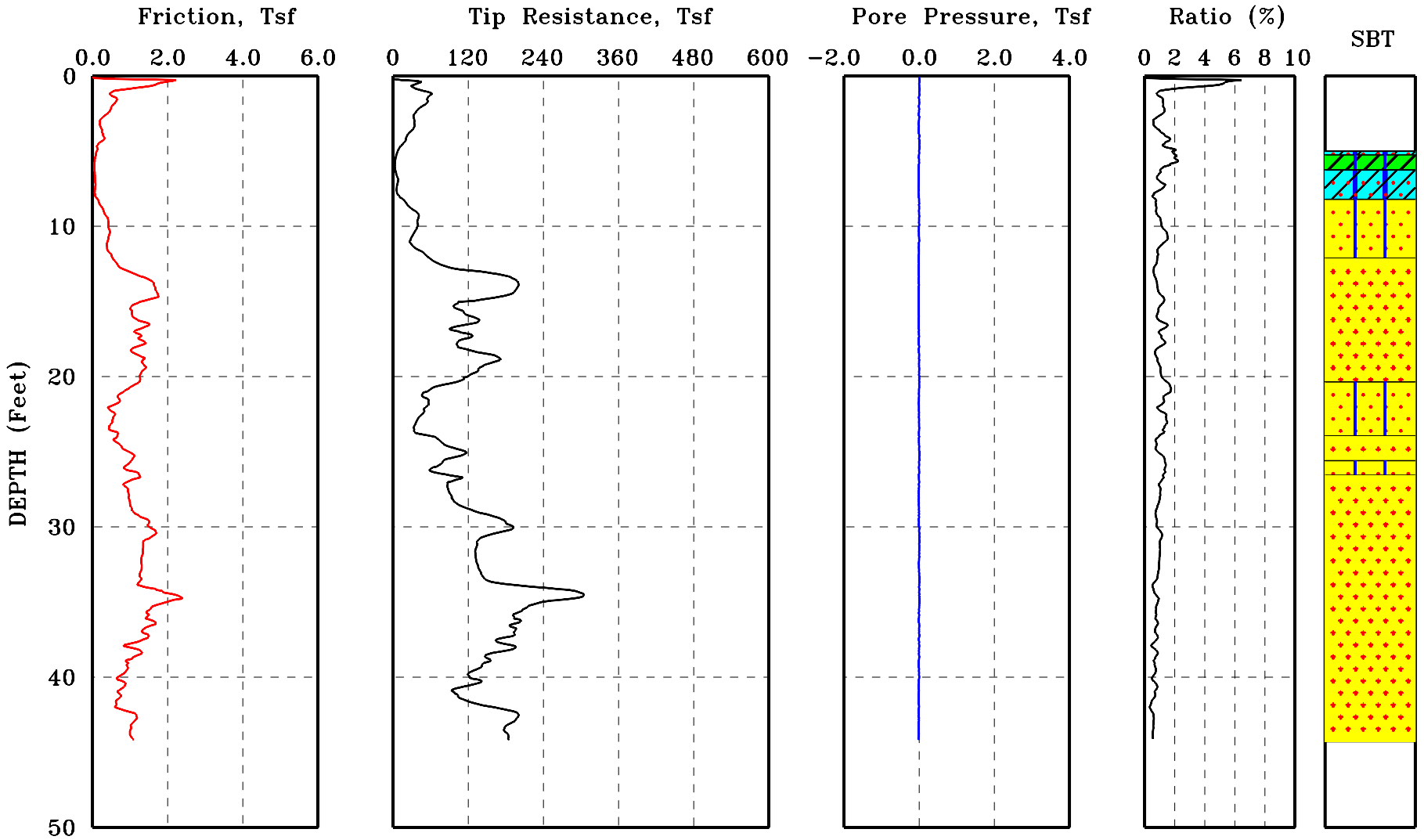
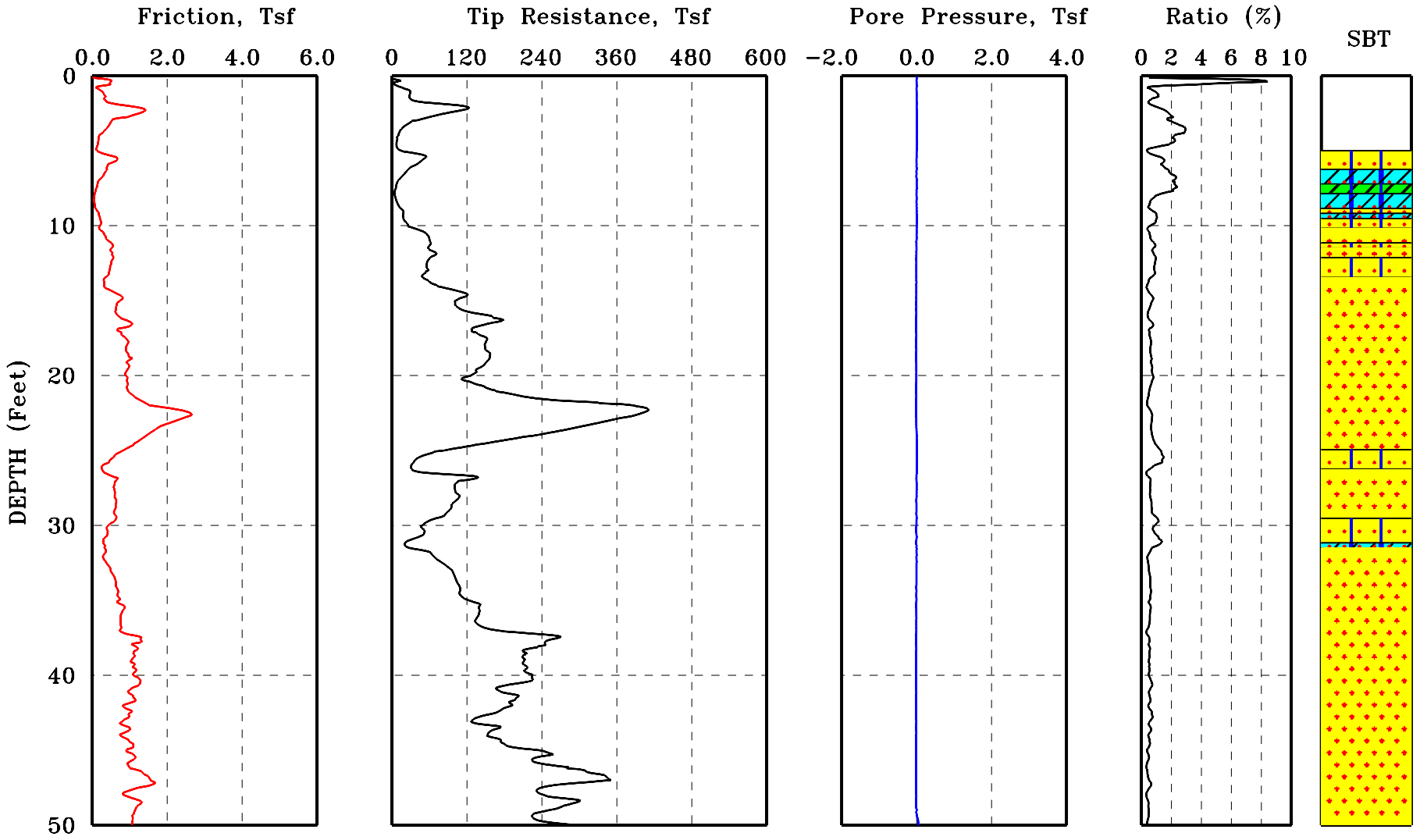


PLATE: 1 of 1

FUGRO GEOSCIENCES,INC.

CPT No : P-93-07	SITE : HARTFORD
JOB No : 0305-1830	CLIENT : URS CORP
CONE No : F7.5CKEW1303	OPERATOR : GJ
	DATE : 03-31-2006



FUGRO GEOSCIENCES,INC.

CPT No : P-93-07	SITE : HARTFORD
JOB No : 0305-1830	CLIENT : URS CORP
CONE No : F7.5CKEW1303	OPERATOR : GJ
	DATE : 03-31-2006

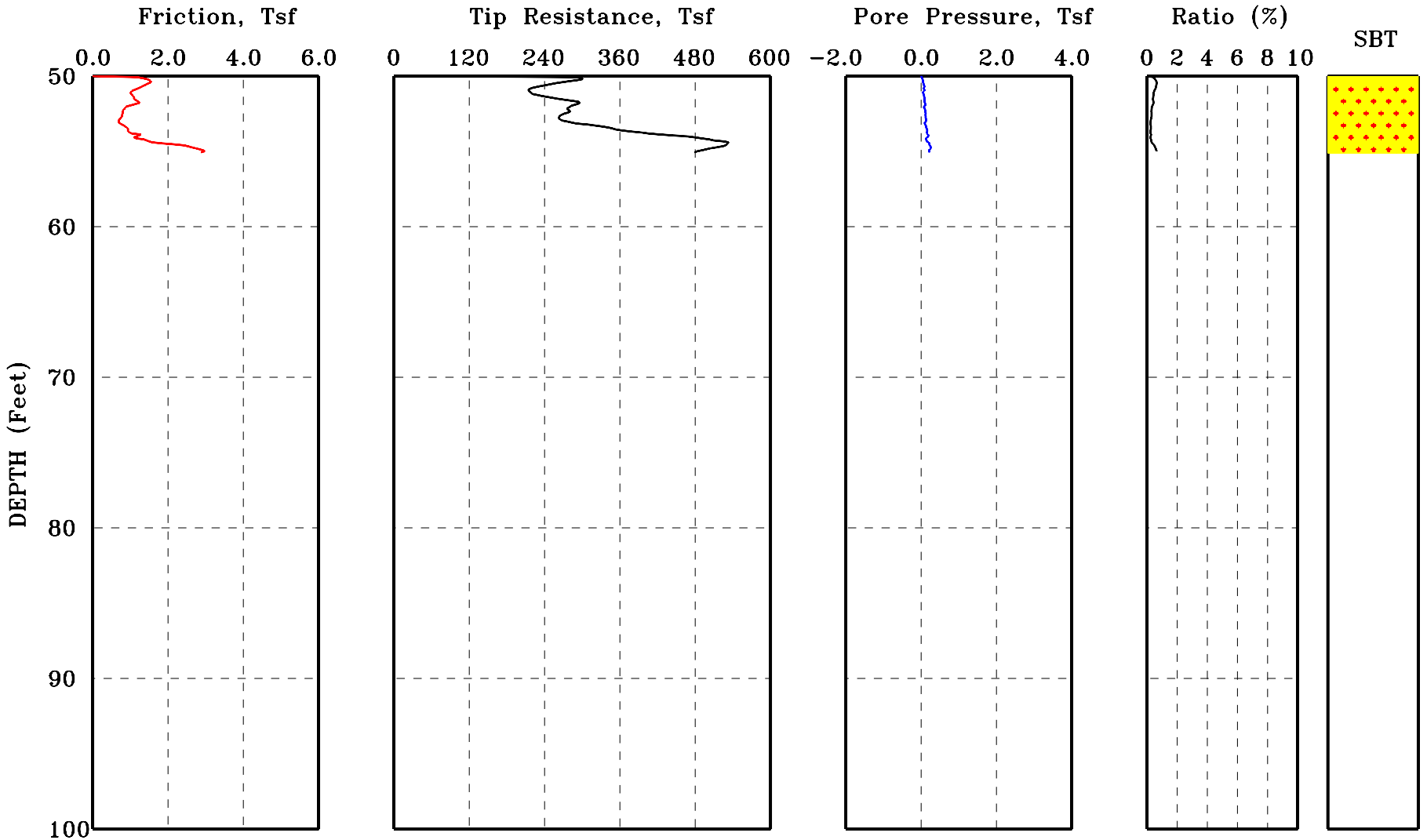
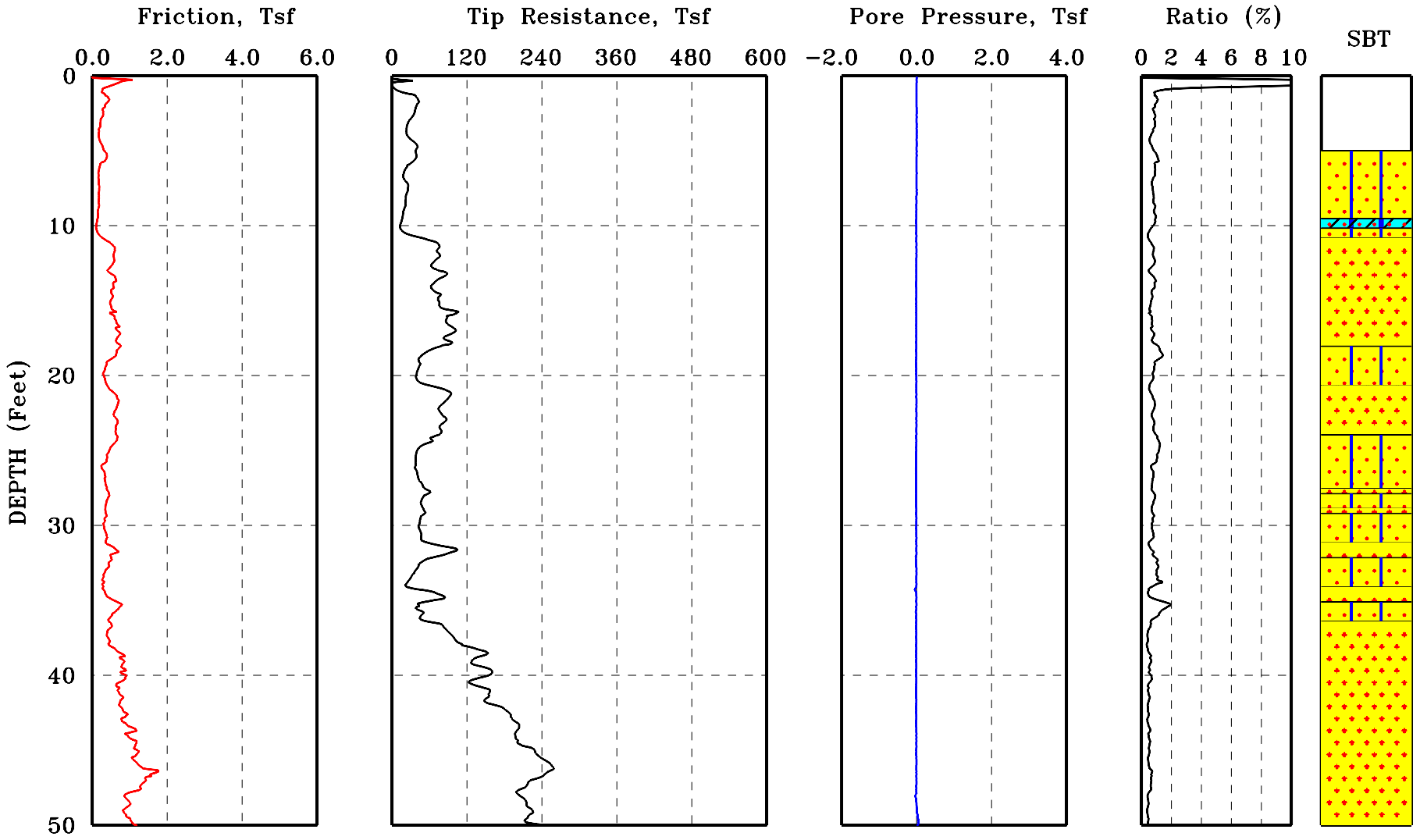


PLATE: 2 of 2

FUGRO GEOSCIENCES,INC.

CPT No : P-93-08	SITE : HARTFORD
JOB No : 0305-1830	CLIENT : URS CORP
CONE No : F7.5CKEW1303	OPERATOR : GJ
	DATE : 03-30-2006



FUGRO GEOSCIENCES,INC.

CPT No : P-93-08	SITE : HARTFORD
JOB No : 0305-1830	CLIENT : URS CORP
CONE No : F7.5CKEW1303	OPERATOR : GJ
	DATE : 03-30-2006

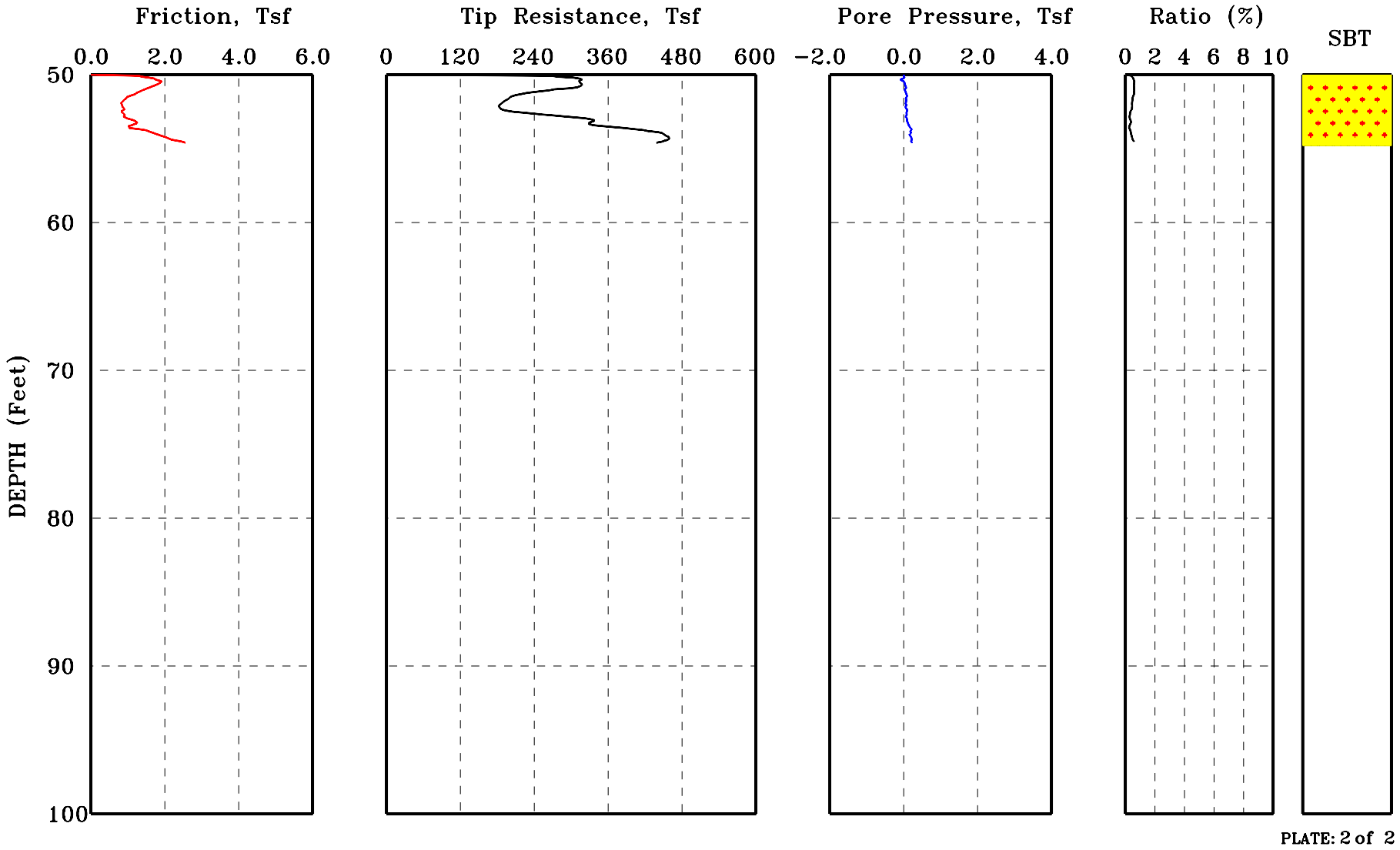
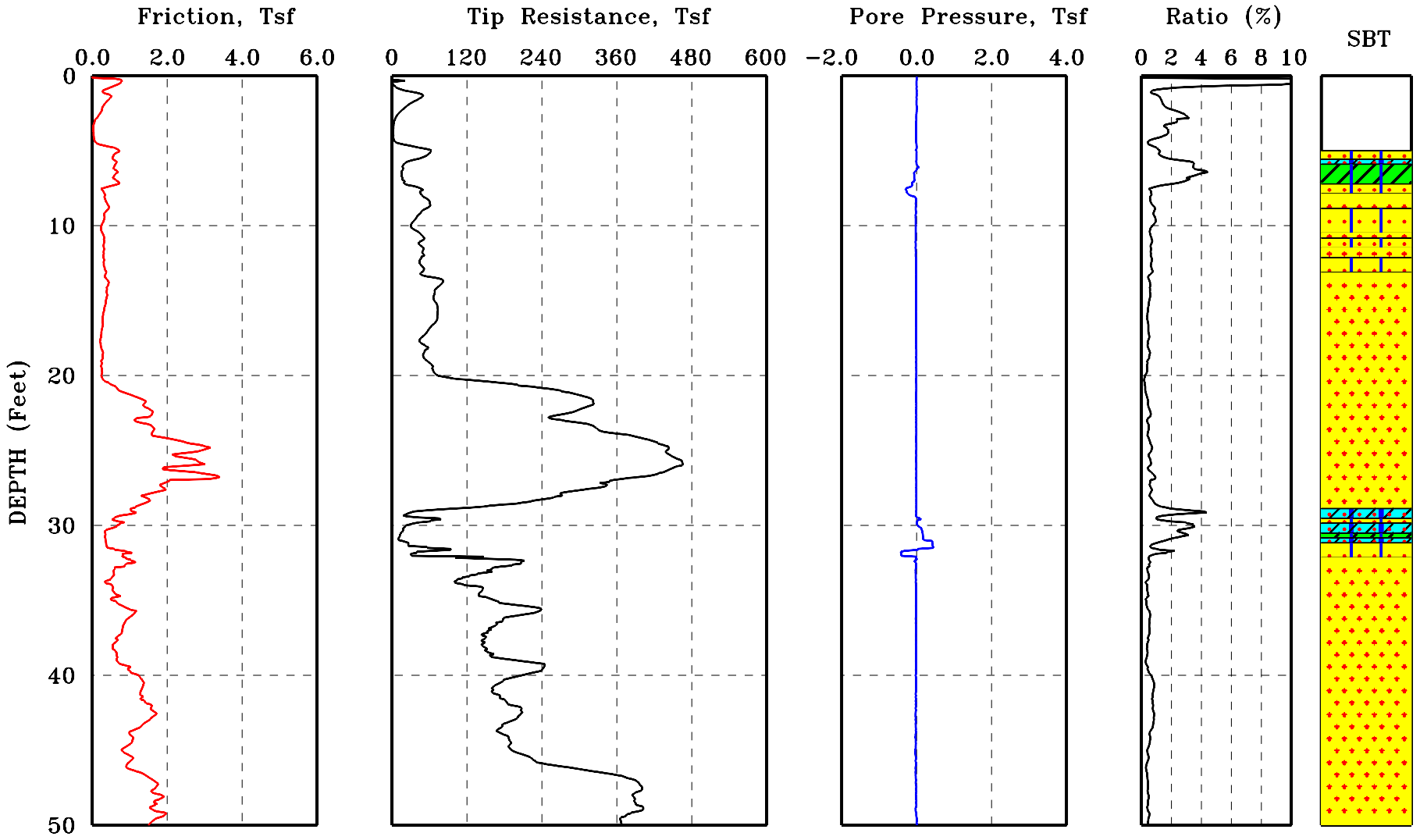


PLATE: 2 of 2

FUGRO GEOSCIENCES,INC.

CPT No : P-93-09	SITE : HARTFORD
JOB No : 0305-1830	CLIENT : URS CORP
CONE No : F7.5CKEW1303	OPERATOR : GJ
	DATE : 03-30-2006



FUGRO GEOSCIENCES,INC.

CPT No : P-93-09	SITE : HARTFORD
JOB No : 0305-1830	CLIENT : URS CORP
CONE No : F7.5CKEW1303	OPERATOR : GJ
	DATE : 03-30-2006

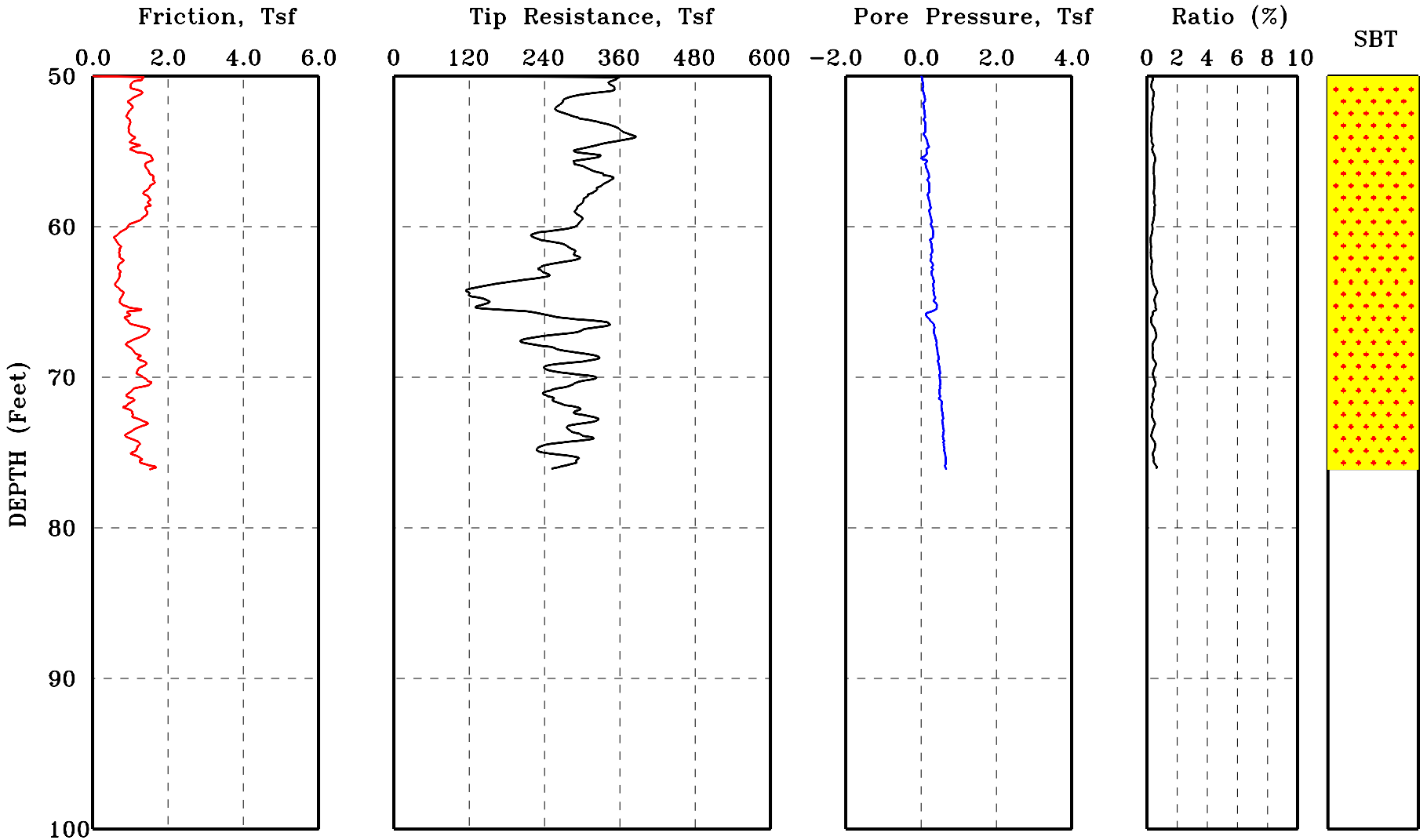


PLATE: 2 of 2

FUGRO GEOSCIENCES,INC.

CPT No : P-93-10	SITE : HARTFORD
JOB No : 0305-1830	CLIENT : URS CORP
CONE No : F7.5CKEW1303	OPERATOR : GJ
	DATE : 03-31-2006

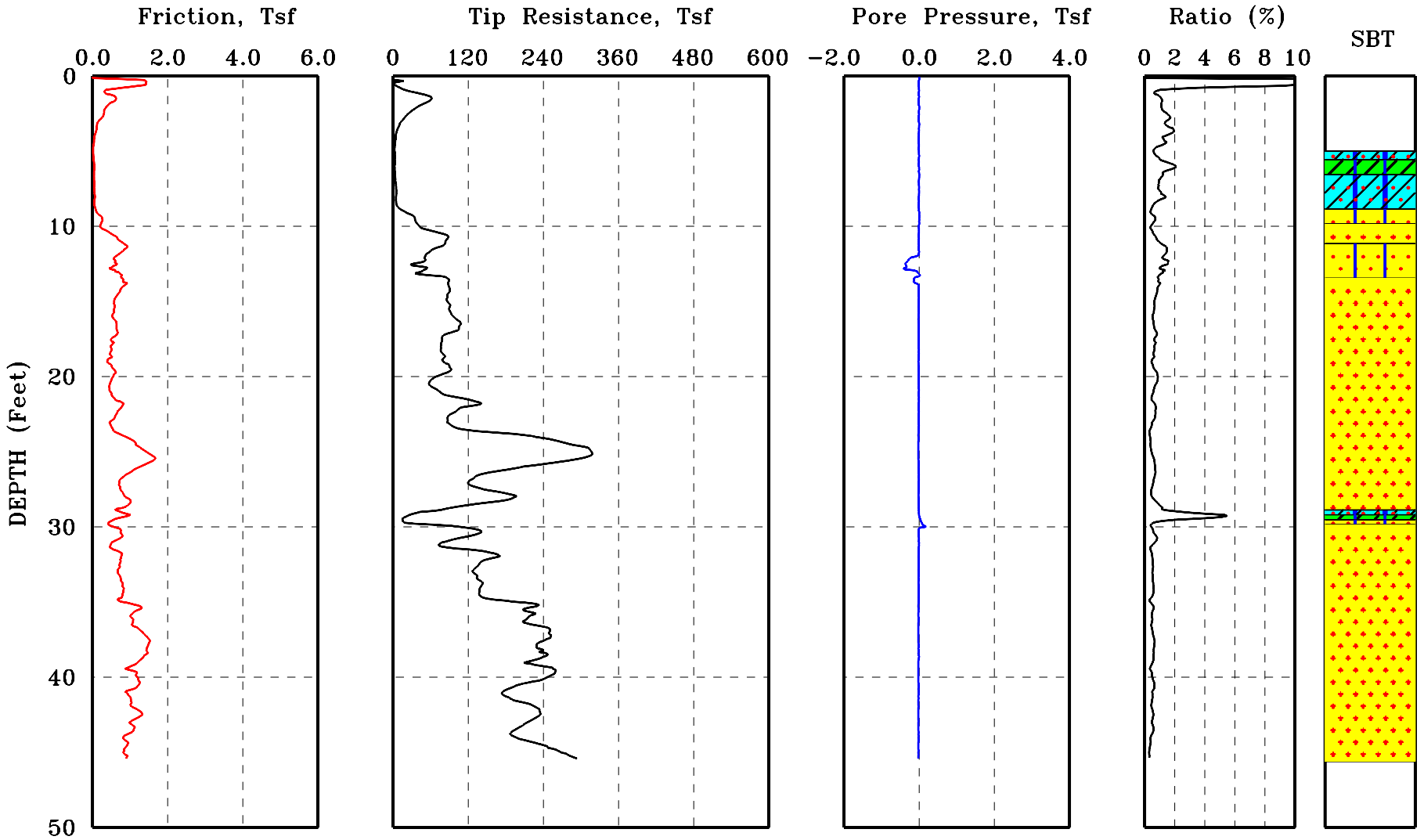
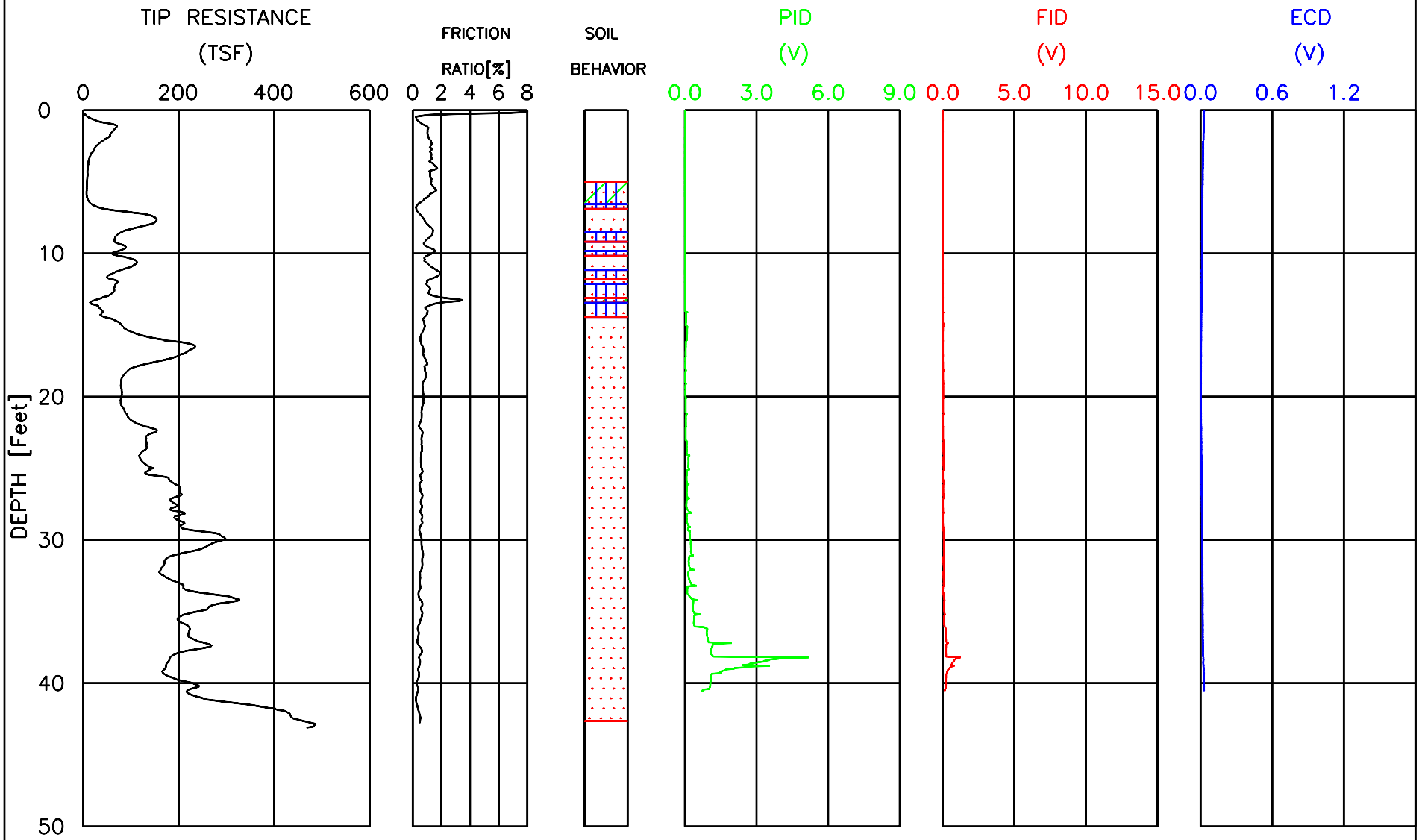


PLATE: 1 of 1

CPT/MIP TEST RESULTS



JOB NUMBER: 0305-1830

ELEVATION: 0.00

CPT NUMBER: P-93-01

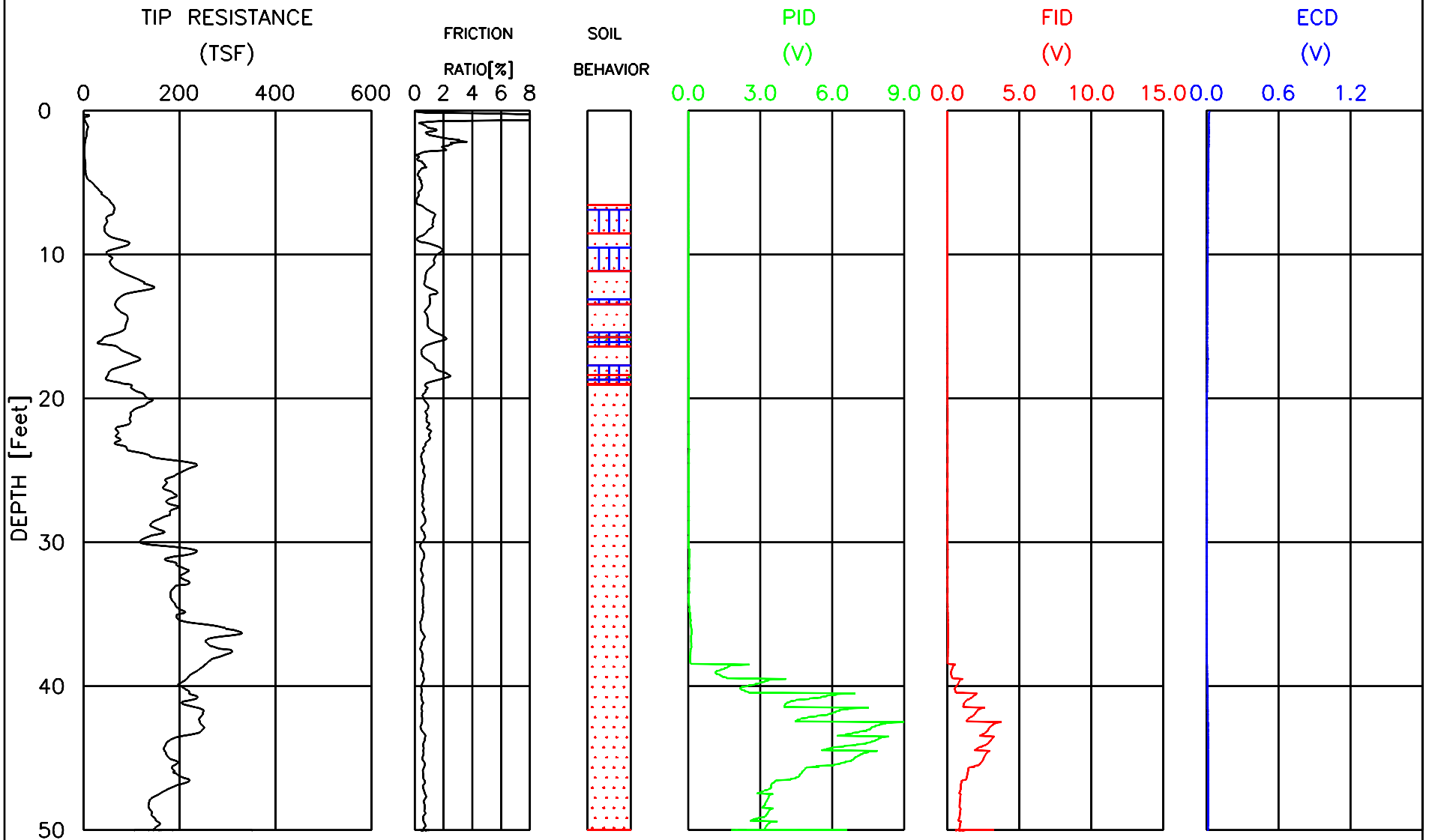
CONE NUMBER: F7.5CKEW1303

DATE: 03-31-2006

PLATE: 1 OF 1

FUGRO GEOSCIENCES,INC

CPT/MIP TEST RESULTS



JOB NUMBER: 0305-1830

ELEVATION: 0.00

CPT NUMBER: P-93-02

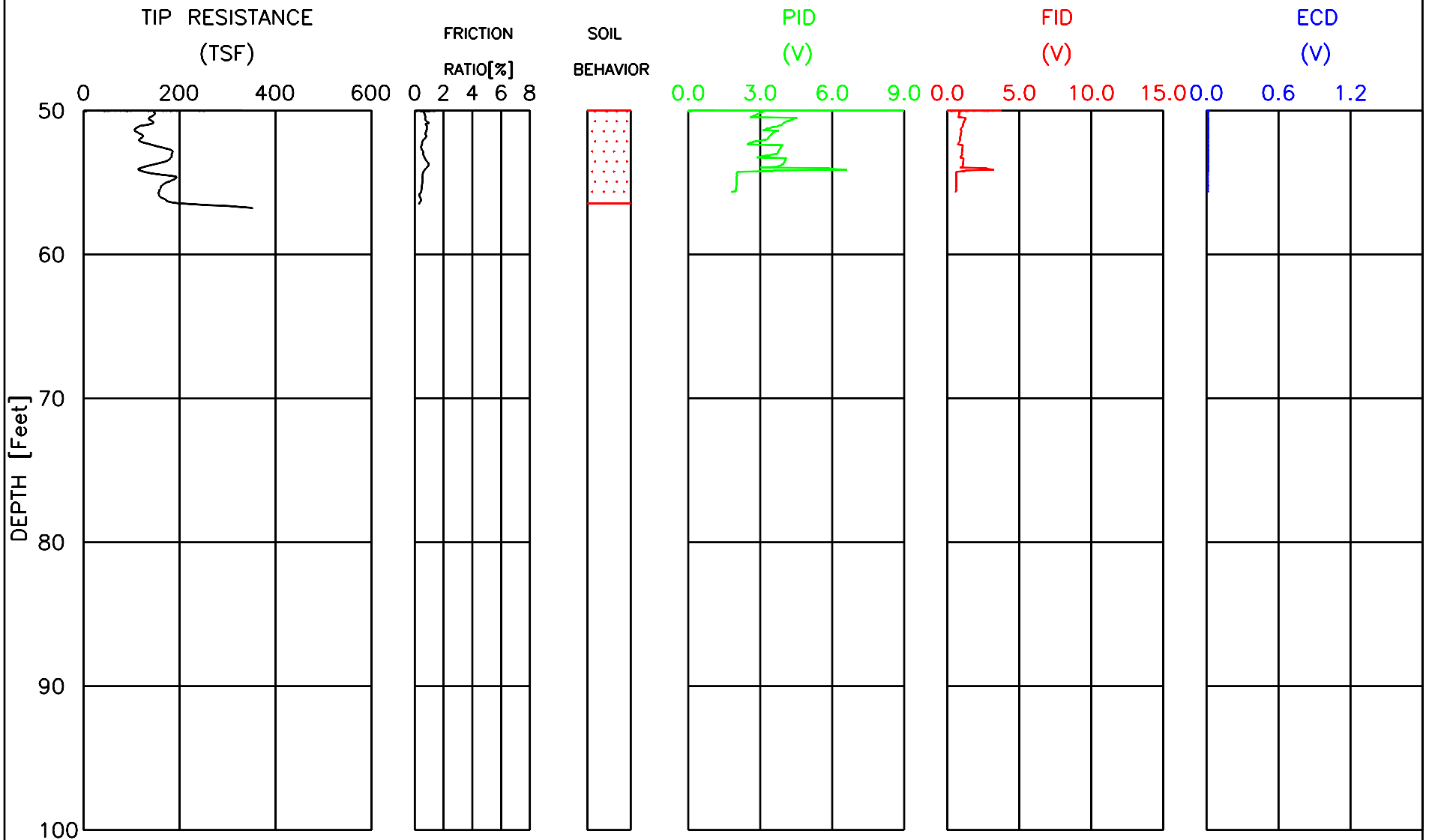
CONE NUMBER: F7.5CKEW1303

DATE: 04-01-2006

PLATE: 1 OF 2

FUGRO GEOSCIENCES,INC

CPT/MIP TEST RESULTS



JOB NUMBER: 0305-1830

ELEVATION: 0.00

CPT NUMBER: P-93-02

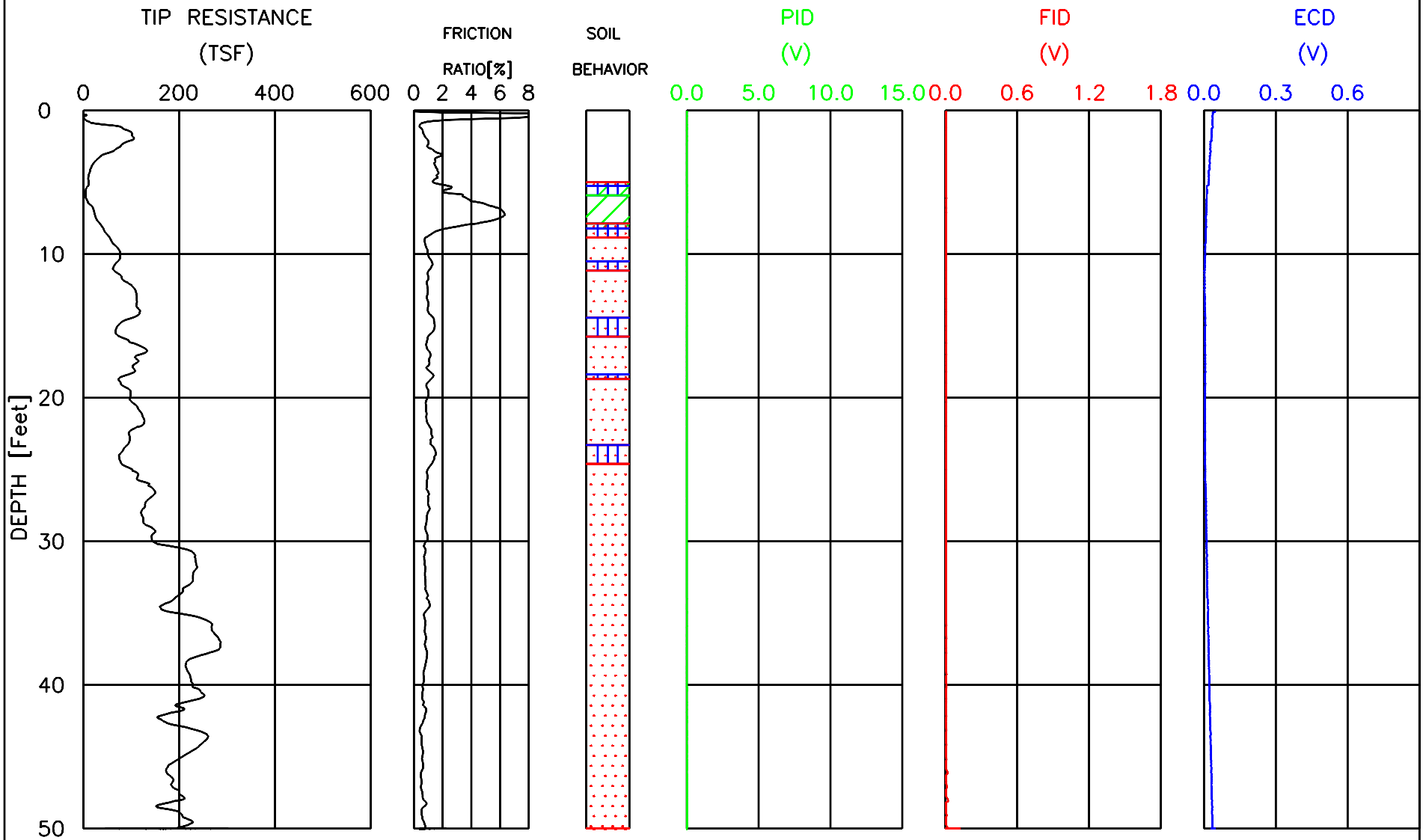
CONE NUMBER: F7.5CKEW1303

DATE: 04-01-2006

PLATE: 2 OF 2

FUGRO GEOSCIENCES,INC

CPT/MIP TEST RESULTS



JOB NUMBER: 0305-1830

ELEVATION: 0.00

CPT NUMBER: P-93-04

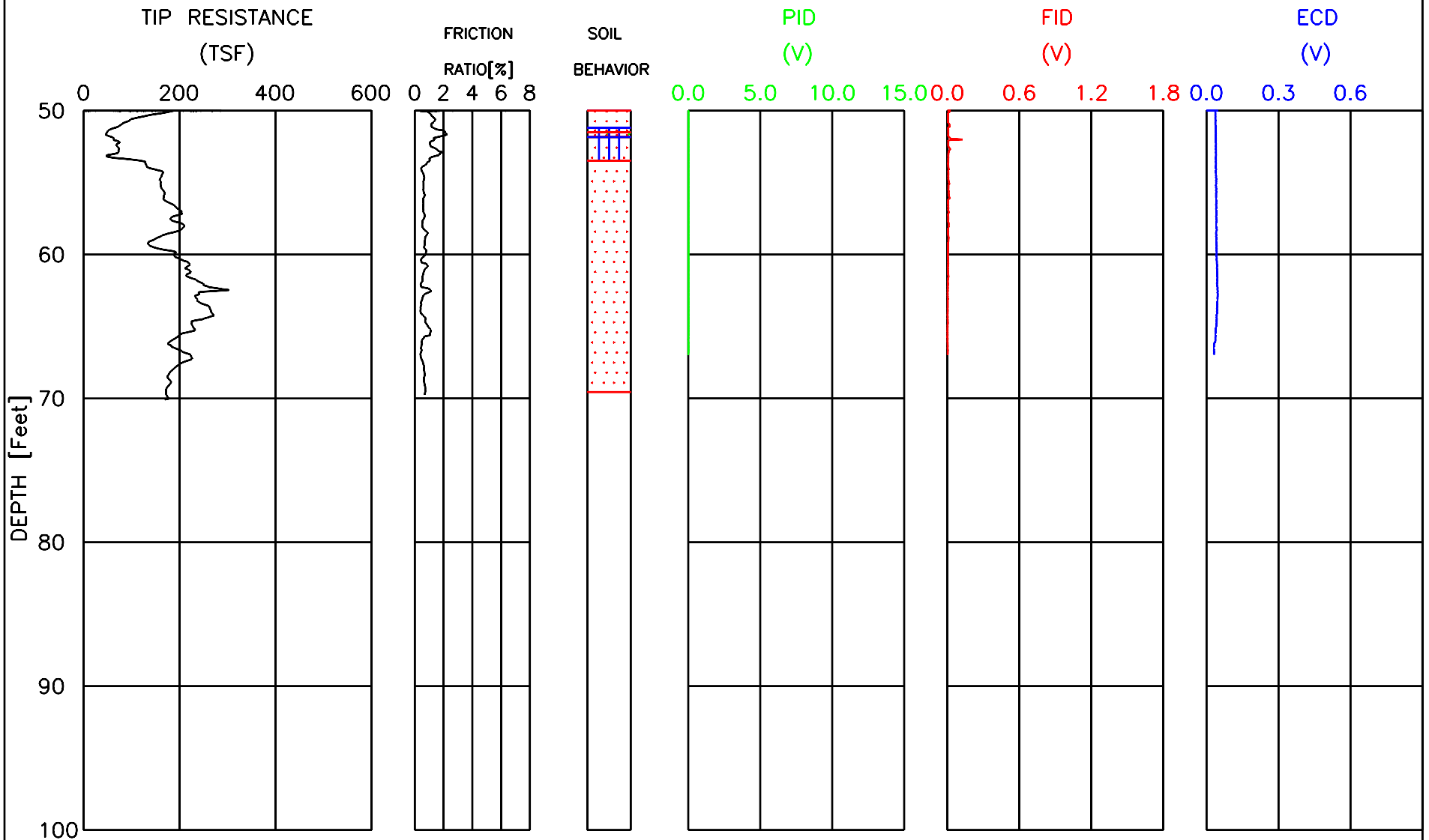
CONE NUMBER: F7.5CKEW1303

DATE: 04-01-2006

PLATE: 1 OF 2

FUGRO GEOSCIENCES,INC

CPT/MIP TEST RESULTS



JOB NUMBER: 0305-1830

ELEVATION: 0.00

CPT NUMBER: P-93-04

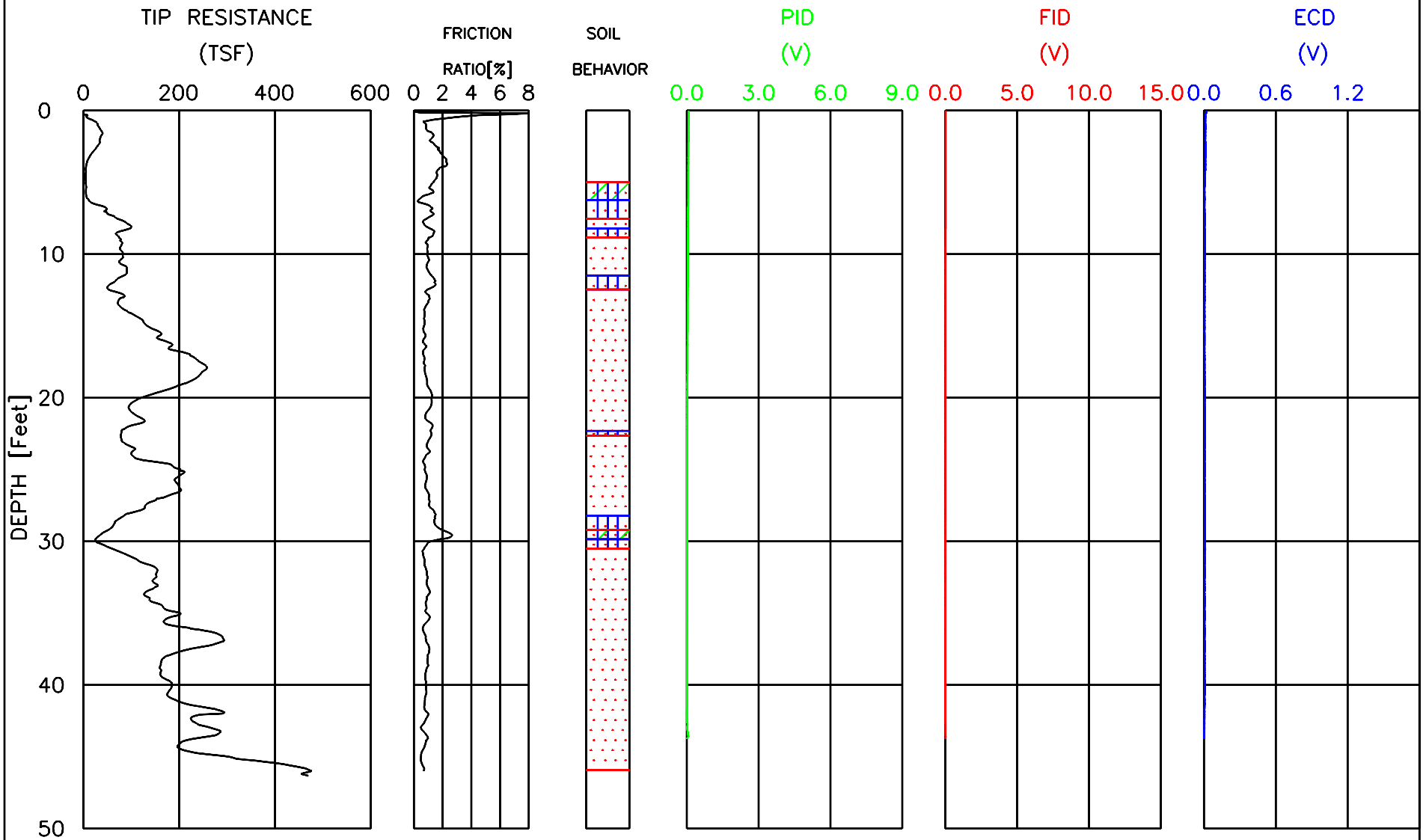
CONE NUMBER: F7.5CKEW1303

DATE: 04-01-2006

PLATE: 2 OF 2

FUGRO GEOSCIENCES,INC

CPT/MIP TEST RESULTS



JOB NUMBER: 0305-1830

ELEVATION: 0.00

CPT NUMBER: P-93-05

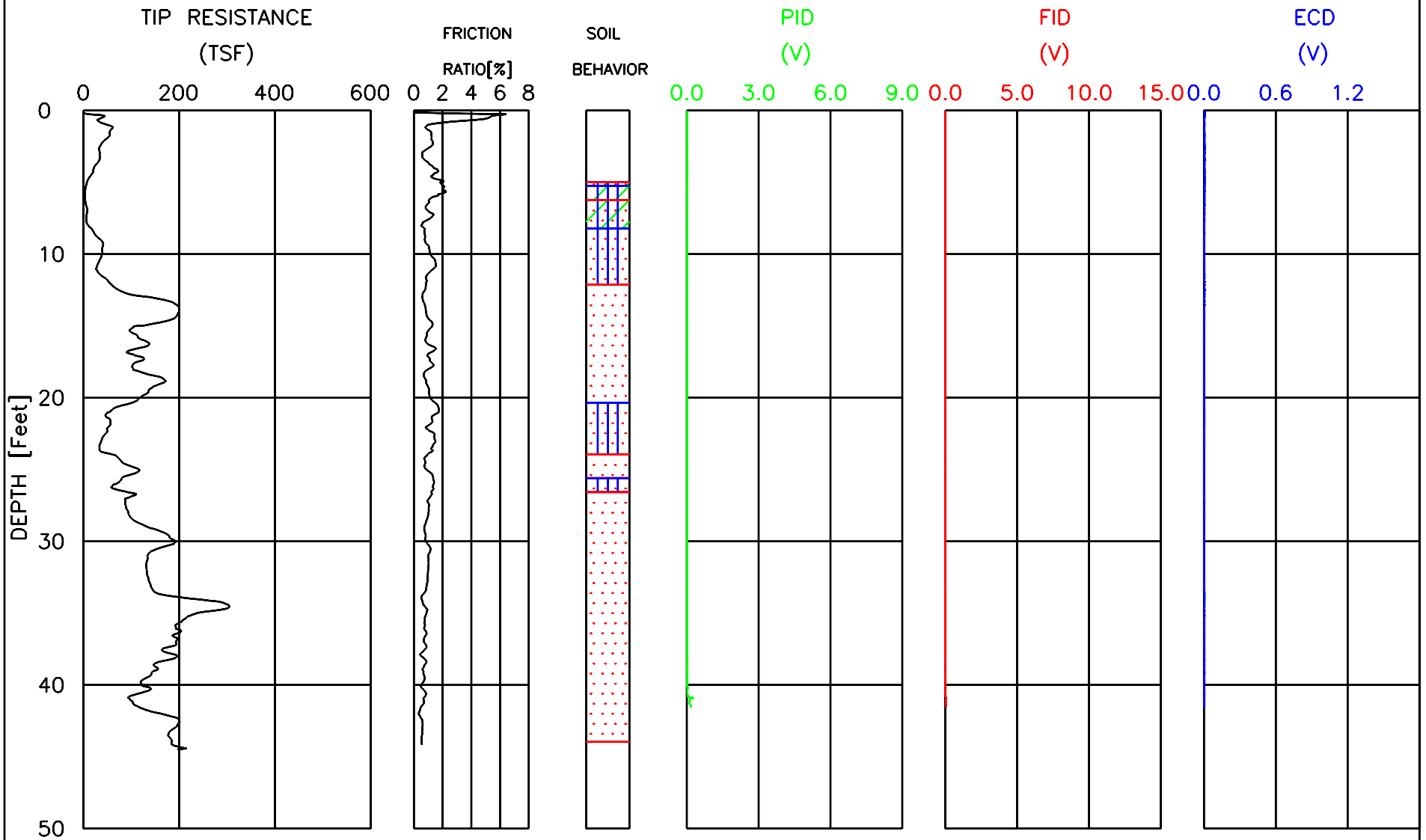
CONE NUMBER: F7.5CKEW1303

DATE: 04-01-2006

PLATE: 1 OF 1

FUGRO GEOSCIENCES,INC

CPT/MIP TEST RESULTS



JOB NUMBER: 0305-1830

ELEVATION: 0.00

CPT NUMBER: P-93-06

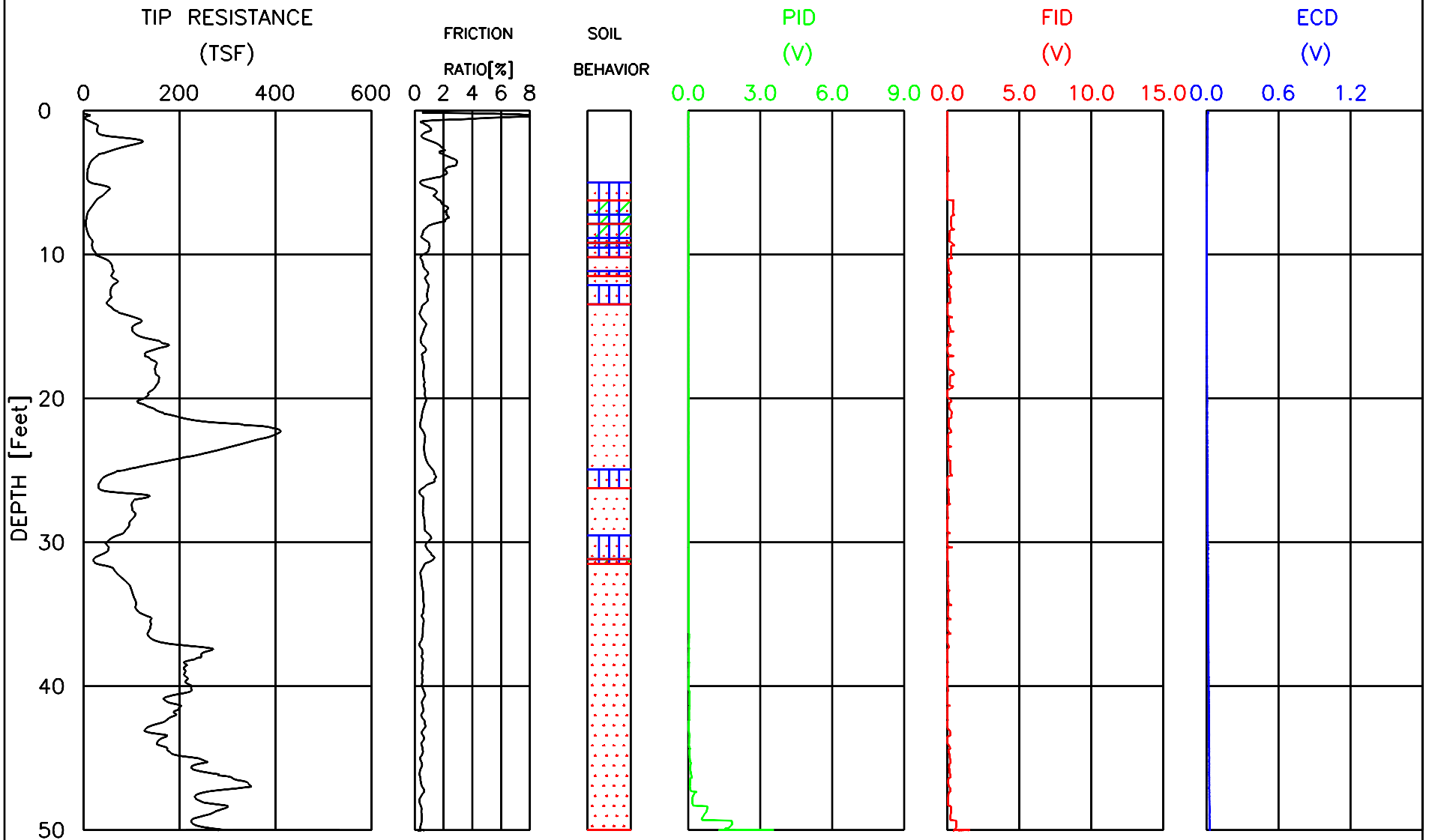
CONE NUMBER: F7.5CKEW1303

DATE: 04-02-2006

PLATE: 1 OF 1

FUGRO GEOSCIENCES,INC

CPT/MIP TEST RESULTS



JOB NUMBER: 0305-1830

ELEVATION: 0.00

CPT NUMBER: P-93-07

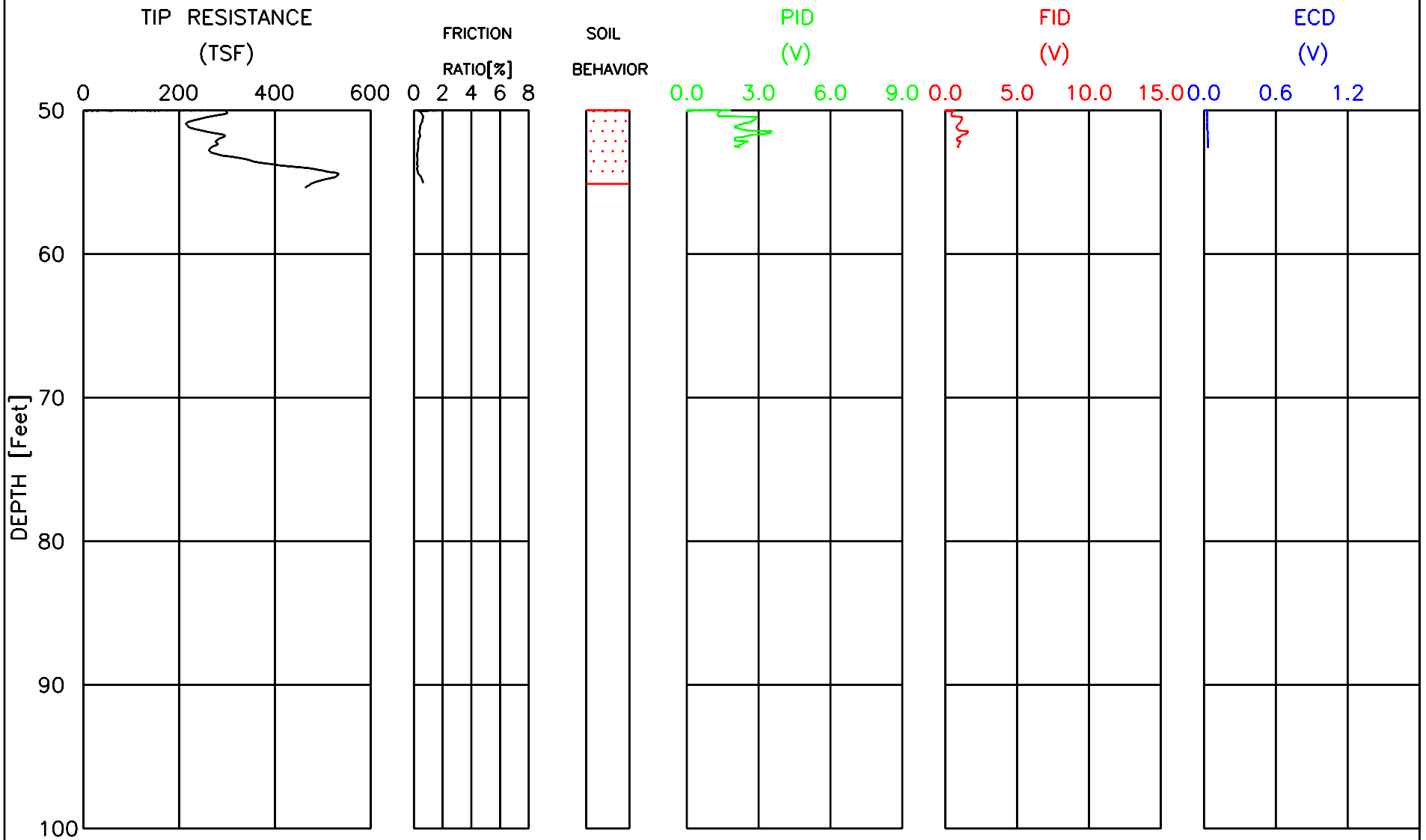
CONE NUMBER: F7.5CKEW1303

DATE: 03-31-2006

PLATE: 1 OF 2

FUGRO GEOSCIENCES,INC

CPT/MIP TEST RESULTS



JOB NUMBER: 0305-1830

ELEVATION: 0.00

CPT NUMBER: P-93-07

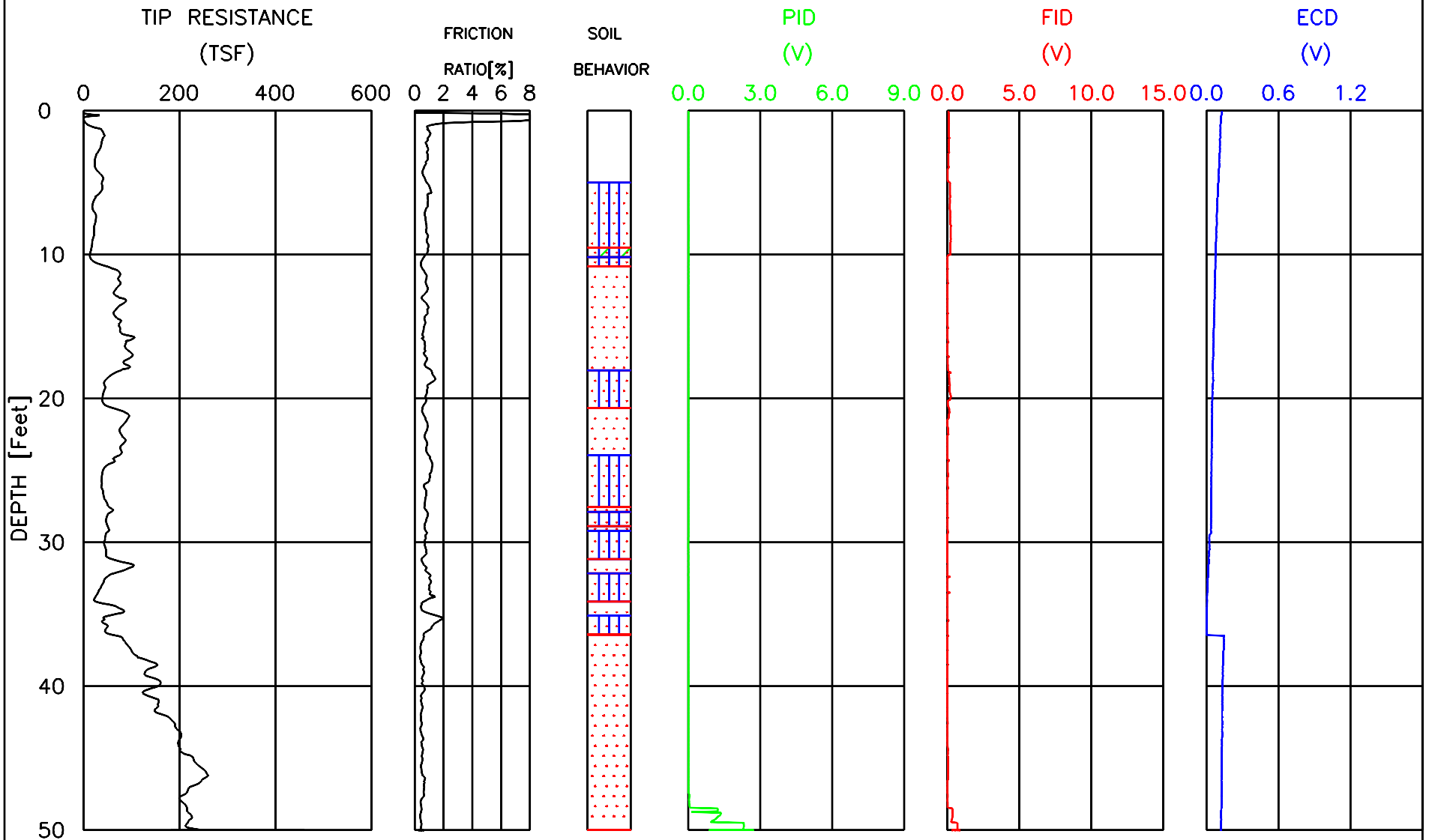
CONE NUMBER: F7.5CKEW1303

DATE: 03-31-2006

PLATE: 2 OF 2

FUGRO GEOSCIENCES,INC

CPT/MIP TEST RESULTS



JOB NUMBER: 0305-1830

ELEVATION: 0.00

CPT NUMBER: P-93-08

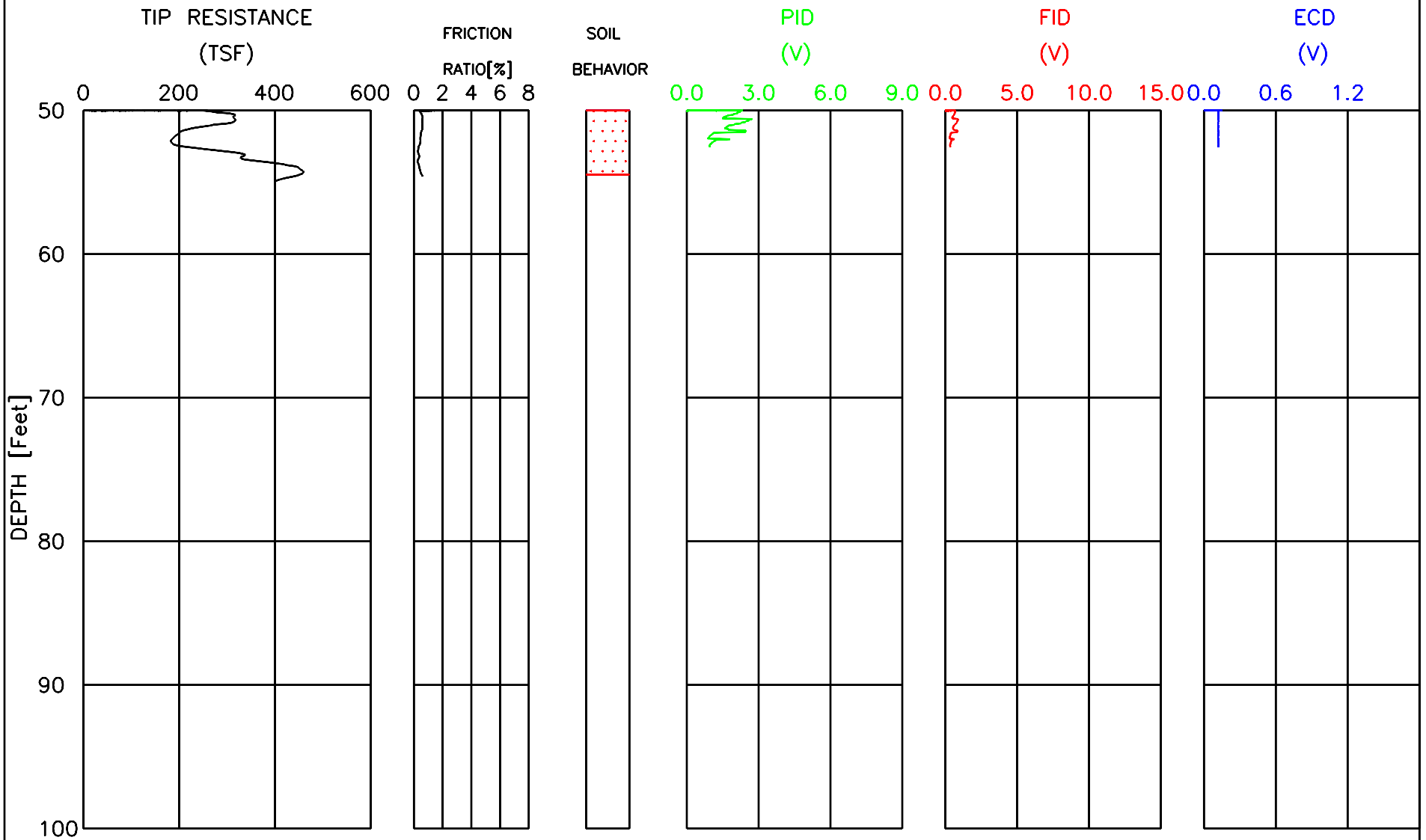
CONE NUMBER: F7.5CKEW1303

DATE: 03-30-2006

PLATE: 1 OF 2

FUGRO GEOSCIENCES,INC

CPT/MIP TEST RESULTS



JOB NUMBER: 0305-1830

ELEVATION: 0.00

CPT NUMBER: P-93-08

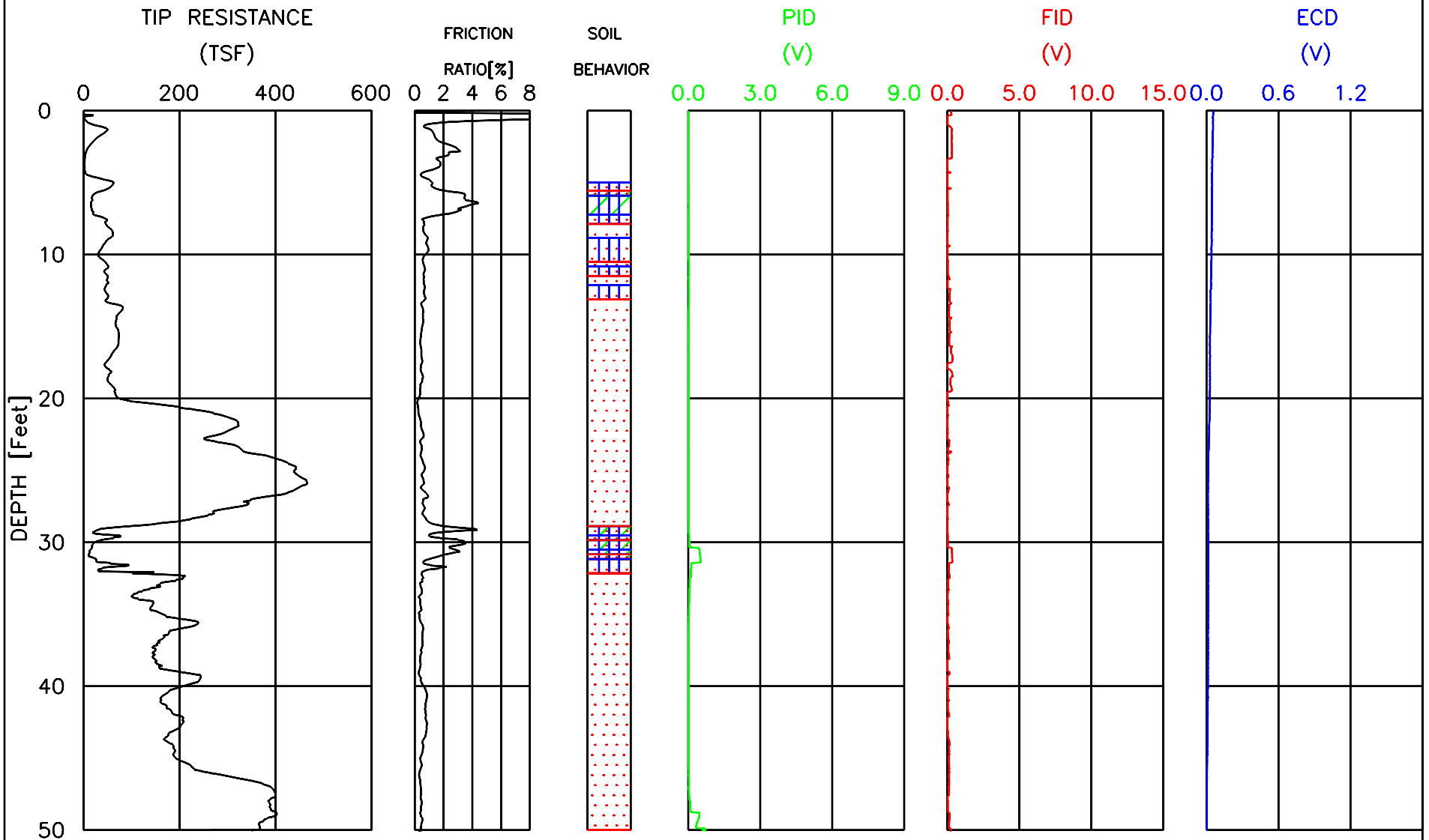
CONE NUMBER: F7.5CKEW1303

DATE: 03-30-2006

PLATE: 2 OF 2

FUGRO GEOSCIENCES,INC

CPT/MIP TEST RESULTS



JOB NUMBER: 0305-1830

ELEVATION: 0.00

CPT NUMBER: P-93-09

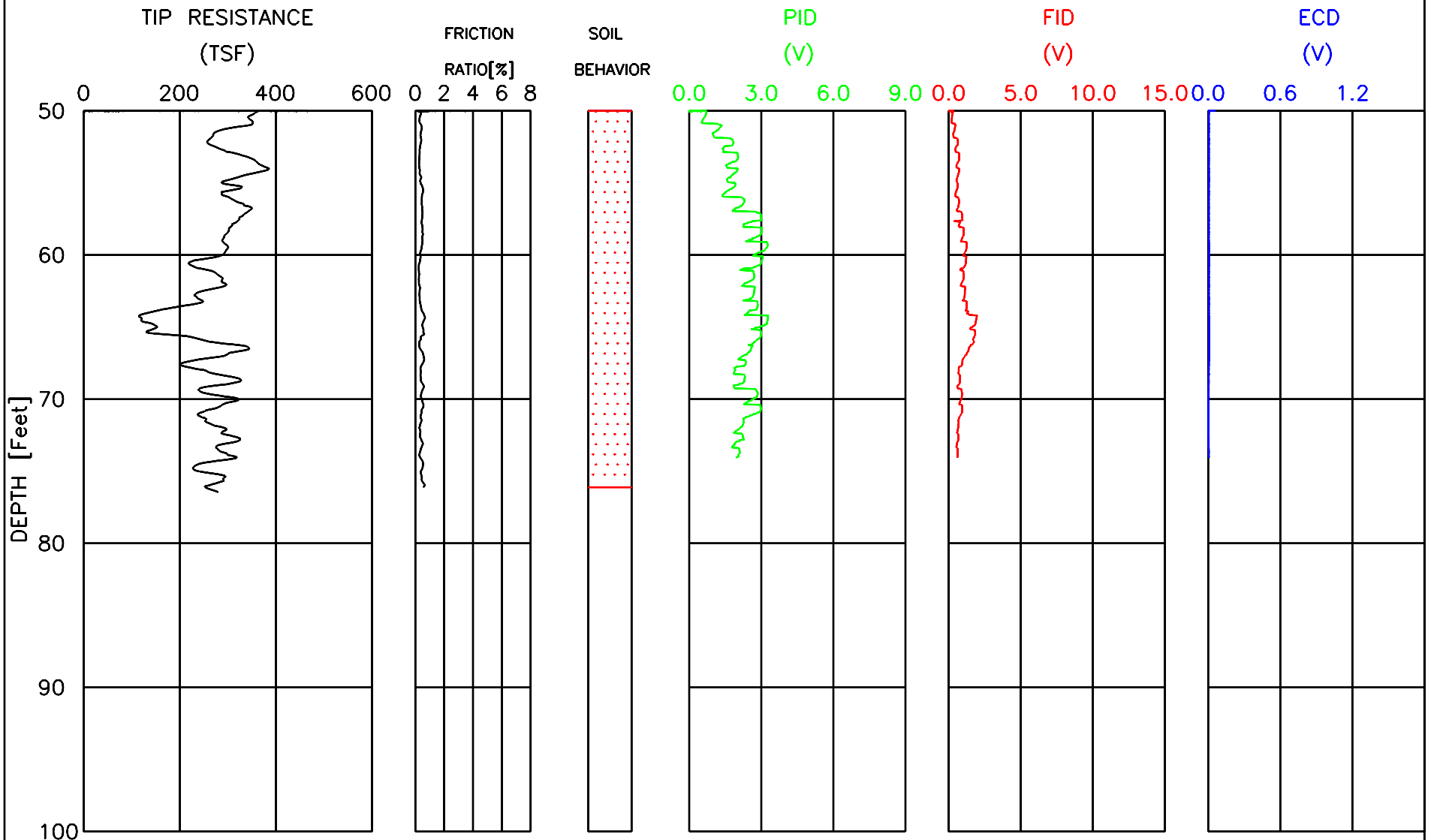
CONE NUMBER: F7.5CKEW1303

DATE: 03-30-2006

PLATE: 1 OF 2

FUGRO GEOSCIENCES,INC

CPT/MIP TEST RESULTS



JOB NUMBER: 0305-1830

ELEVATION: 0.00

CPT NUMBER: P-93-09

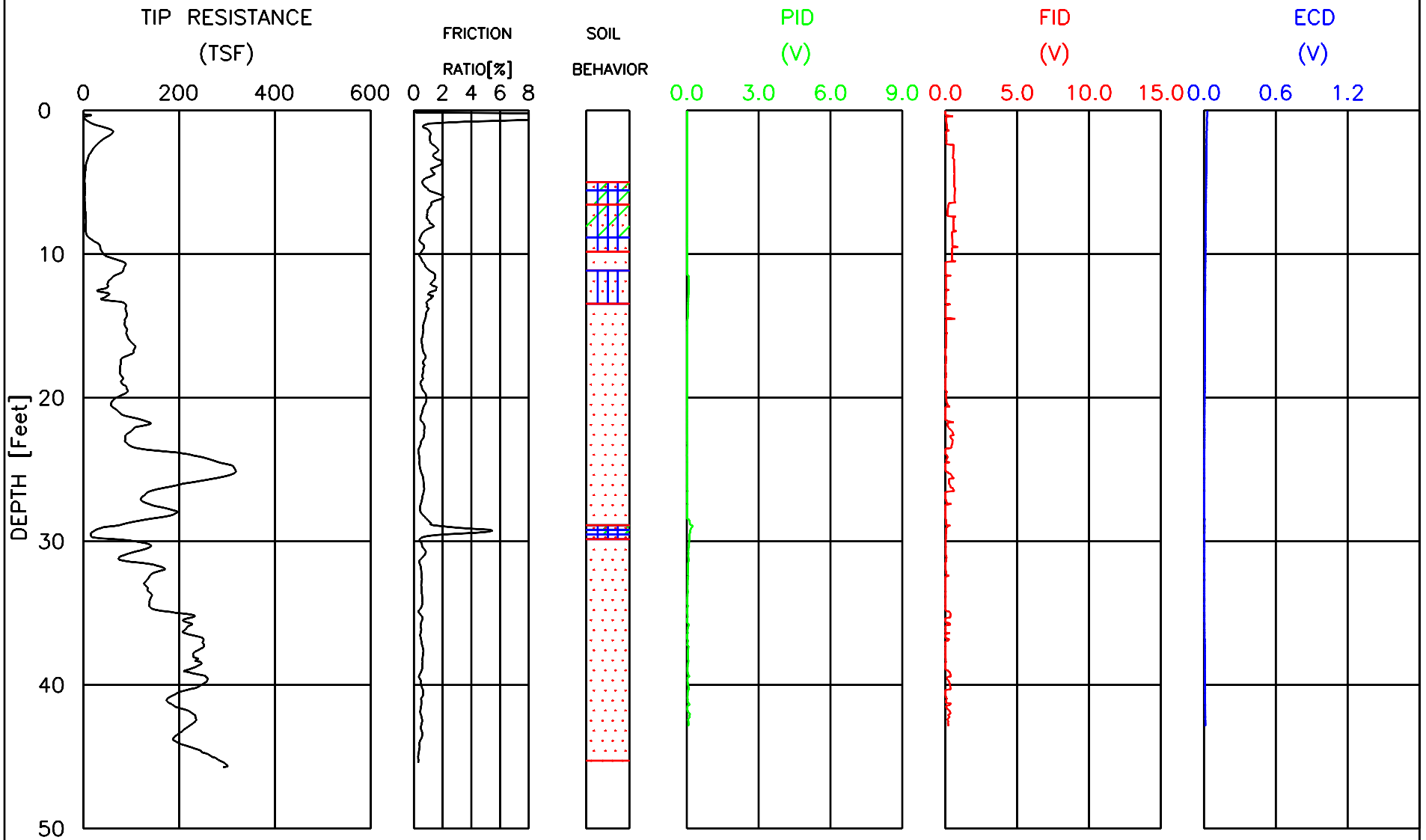
CONE NUMBER: F7.5CKEW1303

DATE: 03-30-2006

PLATE: 2 OF 2

FUGRO GEOSCIENCES,INC

CPT/MIP TEST RESULTS



JOB NUMBER: 0305-1830

ELEVATION: 0.00

CPT NUMBER: P-93-10

CONE NUMBER: F7.5CKEW1303

DATE: 03-31-2006

PLATE: 1 OF 1

FUGRO GEOSCIENCES,INC

West Fenceline Data Review

Laboratory SDG: NPC0479

Reviewer: Tony Sedlacek

Date Reviewed: 2/11/2007

Guidance: USEPA Contract Laboratory National Functional Guidelines for Organic Data Review (USEPA 1999).

Applicable Work Plan: West Fenceline P-93 Dissolved Phase Benzene Investigation (2006)

Sample Identification #	Sample Identification #
P6603020601	P7303020601
P5803020601	P5803020602
P73030206EB	03020601TB

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that hexachlorobutadiene was detected in the method blank and benzene was detected in the equipment blank. These issues are addressed further in the appropriate sections below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within QAPP limits?

Yes

Field ID	Parameter	Analyte	Qualification
N/A			

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration	Units
P73030206EB	VOCs	Benzene	2.62	µg/L
6032146-BLK1	VOCs	Hexachlorobutadiene	1.71	µg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Field ID	Parameter	Analyte	New RL	Qualification
P6603020601	VOCs	Benzene	11.6	U

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria
N/A					

Analytical data that required qualification based on LCS data are included in the table below. Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
N/A			

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

Field ID	Parameter	Surrogate	Recovery	Criteria
N/A				

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
N/A			

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples reported as part of this SDG?

No

Were MS/MSD recoveries within evaluation criteria?

N/A

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
N/A					

Analytical data that required qualification based on MS/MSD data are included in the table below.

Field ID	Parameter	Analyte	Qualification
N/A			

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

Were laboratory duplicate sample RPDs within criteria?

N/A

Field ID	Parameter	Analyte	RPD	Criteria
N/A				

Data qualified due to outlying laboratory duplicate recoveries are identified below:

Field ID	Parameter	Analyte	Qualification
N/A			

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
P5803020601	P5803020602

Were field duplicates within evaluation criteria?

Yes

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
N/A					

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

No

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run ***was not*** reported:

Field ID	Parameter	Dilution Factor
P5803020601	VOCs	5000
P5803020602	VOCs	5000

11.0 Additional Qualifications

Were additional qualifications applied?

No

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

April 26, 2006

Client: URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn: Jeff Adams

Work Order: NPC0479
Project Name: West Fenceline P-93 Project
Project Nbr: SAP 340061
P/O Nbr: 97216640
Date Received: 03/03/06

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
P6603020601	NPC0479-01	03/02/06 10:40
P7303020601	NPC0479-02	03/02/06 14:20
P5803020601	NPC0479-03	03/02/06 15:50
P5803020602	NPC0479-04	03/02/06 15:50
P73030206EB	NPC0479-05	03/02/06 11:05
03020601TB	NPC0479-06	03/02/06 00:01

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

Additional Laboratory Comments:
Per enclosed Chain of Custody, "samples were properly preserved and received in good condition on 3/3/06. Analyses were extracted and performed within method required holding times following Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846)". Package was completed as a "Level IV".

Please note for QC batch 6032146: Hexachlorobutadiene was detected in the method prep blank above the MRL. P73030206EB was analyzed this method prep blank with no reported detection for Hexachlorobutadiene, therefore no data impact.

Please note for QC batch 6031174: The MRL for P5803020601 (NPC0479-03) and P5803020602 (NPC0479-04) was elevated due sample matrix interference. The % recovery for sec-Butylbenzene, Styrene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene in the matrix spike and matrix spike duplicate were outside laboratory acceptable QC limit biased low. The % recovery for Bromomethane in the matrix spike duplicate was outside acceptable QC limit biased high. The % RPD for sec-Butylbenzene and 1,2,4-Trimethylbenzene was outside laboratory acceptable QC limit. Please note the LCS for QC for this batch.

Organics: Unknown analyte concentrations were determined using the average response factor from the initial calibration curve for all analytes whose % RSD is less than or equal to 15. All other analyte concentrations were determined using linear regression analysis. Copies of curves for compounds with %RSD's greater than 15 are supplied.

As you review this data package, please call me if you require any additional information at # 1-800-765-0980 ext 1256.
Illinois Certification Number: 001177

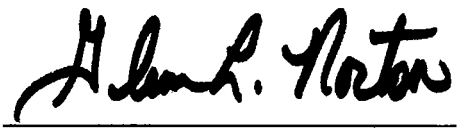
The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	URS Corporation (St. Louis)/SHELL (13668)	Work Order:	NPC0479
	1001 Highlands Plaza Dr. West, Suite 300	Project Name:	West Fenceline P-93 Project
	St. Louis, MO 63110	Project Number:	SAP 340061
Attn	Jeff Adams	Received:	03/03/06 08:00

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By:



Glenn Lee Norton
Data Package Coordinator

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0479
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/03/06 08:00

ANALYTICAL REPORT

Sample ID: NPC0479-01 (P6603020601 - Ground Water) Sampled: 03/02/06 10:40

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Field Sampling Parameters									
pH	**6.58**		pH Units	NA	NA	1	03/02/06 10:40	EPA 150.1	6031459
Specific conductance	**1260**		uS/cm	NA	0.100	1	03/02/06 10:40	EPA 120.1	6031459
Temperature	**63.5**		°F	0.00	NA	1	03/02/06 10:40	EPA 170.1	6031459
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND		ug/L	5.91	50.0	1	03/06/06 19:42	SW846 8260B	6031391
Benzene	~~ND 11.6~~ "U"		ug/L	0.290	~~1.00~~ 11.6	1	03/06/06 19:42	SW846 8260B	6031391
Bromobenzene	ND		ug/L	0.470	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Bromochloromethane	ND		ug/L	0.420	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Bromodichloromethane	ND		ug/L	0.380	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Bromoform	ND		ug/L	0.500	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Bromomethane	ND		ug/L	0.600	1.00	1	03/06/06 19:42	SW846 8260B	6031391
2-Butanone	ND		ug/L	5.09	50.0	1	03/06/06 19:42	SW846 8260B	6031391
sec-Butylbenzene	**18.1**		ug/L	0.380	1.00	1	03/06/06 19:42	SW846 8260B	6031391
n-Butylbenzene	**13.1**		ug/L	0.460	1.00	1	03/06/06 19:42	SW846 8260B	6031391
tert-Butylbenzene	ND		ug/L	0.390	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Carbon disulfide	ND		ug/L	0.310	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Carbon Tetrachloride	ND		ug/L	0.480	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Chlorobenzene	ND		ug/L	0.320	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Chloroethane	ND		ug/L	0.500	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Chloroform	ND		ug/L	0.380	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Chloromethane	ND		ug/L	0.460	1.00	1	03/06/06 19:42	SW846 8260B	6031391
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	03/06/06 19:42	SW846 8260B	6031391
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	03/06/06 19:42	SW846 8260B	6031391
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	03/06/06 19:42	SW846 8260B	6031391
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Dibromomethane	ND		ug/L	0.570	1.00	1	03/06/06 19:42	SW846 8260B	6031391
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	03/06/06 19:42	SW846 8260B	6031391
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	03/06/06 19:42	SW846 8260B	6031391
1,2-Dichlorobenzene	ND		ug/L	0.370	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	03/06/06 19:42	SW846 8260B	6031391
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	03/06/06 19:42	SW846 8260B	6031391
1,2-Dichloroethane	ND		ug/L	0.280	1.00	1	03/06/06 19:42	SW846 8260B	6031391
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	03/06/06 19:42	SW846 8260B	6031391
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	03/06/06 19:42	SW846 8260B	6031391
trans-1,2-Dichloroethene	ND		ug/L	0.340	1.00	1	03/06/06 19:42	SW846 8260B	6031391
1,3-Dichloropropane	ND		ug/L	0.630	1.00	1	03/06/06 19:42	SW846 8260B	6031391
1,2-Dichloropropane	ND		ug/L	0.500	1.00	1	03/06/06 19:42	SW846 8260B	6031391
2,2-Dichloropropane	ND		ug/L	0.660	1.00	1	03/06/06 19:42	SW846 8260B	6031391
cis-1,3-Dichloropropene	ND		ug/L	0.450	1.00	1	03/06/06 19:42	SW846 8260B	6031391
trans-1,3-Dichloropropene	ND		ug/L	0.490	1.00	1	03/06/06 19:42	SW846 8260B	6031391
1,1-Dichloropropene	ND		ug/L	0.510	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Ethylbenzene	ND		ug/L	0.340	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Hexachlorobutadiene	ND		ug/L	0.670	1.00	1	03/06/06 19:42	SW846 8260B	6031391

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0479
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/03/06 08:00

ANALYTICAL REPORT

Sample ID: NPC0479-01 (P6603020601 - Ground Water) - cont. Sampled: 03/02/06 10:40

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
2-Hexanone	ND		ug/L	2.53	50.0	1	03/06/06 19:42	SW846 8260B	6031391
Isopropylbenzene	**125**		ug/L	0.340	1.00	1	03/06/06 19:42	SW846 8260B	6031391
p-Isopropyltoluene	ND		ug/L	0.340	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Methyl tert-Butyl Ether	**107**		ug/L	0.320	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Methylene Chloride	ND		ug/L	1.26	5.00	1	03/06/06 19:42	SW846 8260B	6031391
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	03/06/06 19:42	SW846 8260B	6031391
Naphthalene	**3.31**	J	ug/L	1.13	5.00	1	03/06/06 19:42	SW846 8260B	6031391
n-Propylbenzene	**142**		ug/L	0.370	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Styrene	ND		ug/L	0.390	1.00	1	03/06/06 19:42	SW846 8260B	6031391
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	03/06/06 19:42	SW846 8260B	6031391
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Tetrachloroethene	ND		ug/L	0.390	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Toluene	**1.99**		ug/L	0.280	1.00	1	03/06/06 19:42	SW846 8260B	6031391
1,2,3-Trichlorobenzene	ND		ug/L	0.560	2.00	1	03/06/06 19:42	SW846 8260B	6031391
1,2,4-Trichlorobenzene	ND		ug/L	0.790	2.00	1	03/06/06 19:42	SW846 8260B	6031391
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	03/06/06 19:42	SW846 8260B	6031391
1,1,1-Trichloroethane	ND		ug/L	0.400	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Trichloroethene	ND		ug/L	0.450	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Trichlorofluoromethane	ND		ug/L	0.480	1.00	1	03/06/06 19:42	SW846 8260B	6031391
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	03/06/06 19:42	SW846 8260B	6031391
1,3,5-Trimethylbenzene	ND		ug/L	0.280	1.00	1	03/06/06 19:42	SW846 8260B	6031391
1,2,4-Trimethylbenzene	**1.25**		ug/L	0.340	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Vinyl chloride	ND		ug/L	0.430	1.00	1	03/06/06 19:42	SW846 8260B	6031391
Xylenes, total	**1.85**	J	ug/L	0.820	3.00	1	03/06/06 19:42	SW846 8260B	6031391
Surr: 1,2-Dichloroethane-d4 (70-130%)	*91 %*					*1*	*03/06/06 19:42*	*SW846 8260B*	*6031391*
Surr: Dibromofluoromethane (79-122%)	*103 %*					*1*	*03/06/06 19:42*	*SW846 8260B*	*6031391*
Surr: Toluene-d8 (78-121%)	*94 %*					*1*	*03/06/06 19:42*	*SW846 8260B*	*6031391*
Surr: 4-Bromofluorobenzene (78-126%)	*101 %*					*1*	*03/06/06 19:42*	*SW846 8260B*	*6031391*

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Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0479
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/03/06 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPC0479-02 (P7303020601 - Ground Water) Sampled: 03/02/06 14:20									
Field Sampling Parameters									
pH	**6.71**		pH Units	NA	NA	1	03/02/06 14:20	EPA 150.1	6031459
Specific conductance	**1170**		uS/cm	NA	0.100	1	03/02/06 14:20	EPA 120.1	6031459
Temperature	**61.0**		°F	0.00	NA	1	03/02/06 14:20	EPA 170.1	6031459
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND		ug/L	5.91	50.0	1	03/06/06 20:07	SW846 8260B	6031391
Benzene	**22400**		ug/L	58.0	200	200	03/11/06 00:12	SW846 8260B	6032156
Bromobenzene	ND		ug/L	0.470	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Bromochloromethane	ND		ug/L	0.420	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Bromodichloromethane	ND		ug/L	0.380	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Bromoform	ND		ug/L	0.500	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Bromomethane	ND		ug/L	0.600	1.00	1	03/06/06 20:07	SW846 8260B	6031391
2-Butanone	ND		ug/L	5.09	50.0	1	03/06/06 20:07	SW846 8260B	6031391
sec-Butylbenzene	**23.7**		ug/L	0.380	1.00	1	03/06/06 20:07	SW846 8260B	6031391
n-Butylbenzene	ND		ug/L	0.460	1.00	1	03/06/06 20:07	SW846 8260B	6031391
tert-Butylbenzene	**56.0**		ug/L	0.390	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Carbon disulfide	ND		ug/L	0.310	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Carbon Tetrachloride	ND		ug/L	0.480	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Chlorobenzene	ND		ug/L	0.320	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Chloroethane	ND		ug/L	0.500	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Chloroform	**0.890**	J	ug/L	0.380	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Chloromethane	ND		ug/L	0.460	1.00	1	03/06/06 20:07	SW846 8260B	6031391
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	03/06/06 20:07	SW846 8260B	6031391
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	03/06/06 20:07	SW846 8260B	6031391
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	03/06/06 20:07	SW846 8260B	6031391
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Dibromomethane	ND		ug/L	0.570	1.00	1	03/06/06 20:07	SW846 8260B	6031391
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	03/06/06 20:07	SW846 8260B	6031391
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	03/06/06 20:07	SW846 8260B	6031391
1,2-Dichlorobenzene	ND		ug/L	0.370	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	03/06/06 20:07	SW846 8260B	6031391
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	03/06/06 20:07	SW846 8260B	6031391
1,2-Dichloroethane	ND		ug/L	5.60	20.0	20	03/10/06 23:47	SW846 8260B	6032156
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	03/06/06 20:07	SW846 8260B	6031391
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	03/06/06 20:07	SW846 8260B	6031391
trans-1,2-Dichloroethene	ND		ug/L	0.340	1.00	1	03/06/06 20:07	SW846 8260B	6031391
1,3-Dichloropropane	ND		ug/L	0.630	1.00	1	03/06/06 20:07	SW846 8260B	6031391
1,2-Dichloropropane	ND		ug/L	0.500	1.00	1	03/06/06 20:07	SW846 8260B	6031391
2,2-Dichloropropane	ND		ug/L	0.660	1.00	1	03/06/06 20:07	SW846 8260B	6031391
cis-1,3-Dichloropropene	ND		ug/L	0.450	1.00	1	03/06/06 20:07	SW846 8260B	6031391
trans-1,3-Dichloropropene	ND		ug/L	0.490	1.00	1	03/06/06 20:07	SW846 8260B	6031391
1,1-Dichloropropene	ND		ug/L	0.510	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Ethylbenzene	**1740**		ug/L	6.80	20.0	20	03/10/06 23:47	SW846 8260B	6032156
Hexachlorobutadiene	ND		ug/L	0.670	1.00	1	03/06/06 20:07	SW846 8260B	6031391

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0479
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/03/06 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPC0479-02 (P7303020601 - Ground Water) - cont. Sampled: 03/02/06 14:20									
Volatile Organic Compounds by EPA Method 8260B - cont.									
2-Hexanone	ND		ug/L	2.53	50.0	1	03/06/06 20:07	SW846 8260B	6031391
Isopropylbenzene	**88.0**		ug/L	0.340	1.00	1	03/06/06 20:07	SW846 8260B	6031391
p-Isopropyltoluene	**13.1**		ug/L	0.340	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Methyl tert-Butyl Ether	**40.0**		ug/L	0.320	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Methylene Chloride	ND		ug/L	1.26	5.00	1	03/06/06 20:07	SW846 8260B	6031391
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	03/06/06 20:07	SW846 8260B	6031391
Naphthalene	**250**		ug/L	22.6	100	20	03/10/06 23:47	SW846 8260B	6032156
n-Propylbenzene	**149**		ug/L	0.370	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Styrene	ND		ug/L	0.390	1.00	1	03/06/06 20:07	SW846 8260B	6031391
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	03/06/06 20:07	SW846 8260B	6031391
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Tetrachloroethene	ND		ug/L	0.390	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Toluene	**8500**		ug/L	56.0	200	200	03/11/06 00:12	SW846 8260B	6032156
1,2,3-Trichlorobenzene	ND		ug/L	0.560	2.00	1	03/06/06 20:07	SW846 8260B	6031391
1,2,4-Trichlorobenzene	ND		ug/L	0.790	2.00	1	03/06/06 20:07	SW846 8260B	6031391
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	03/06/06 20:07	SW846 8260B	6031391
1,1,1-Trichloroethane	ND		ug/L	0.400	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Trichloroethene	ND		ug/L	0.450	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Trichlorofluoromethane	ND		ug/L	0.480	1.00	1	03/06/06 20:07	SW846 8260B	6031391
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	03/06/06 20:07	SW846 8260B	6031391
1,3,5-Trimethylbenzene	**155**		ug/L	0.280	1.00	1	03/06/06 20:07	SW846 8260B	6031391
1,2,4-Trimethylbenzene	**928**		ug/L	6.80	20.0	20	03/10/06 23:47	SW846 8260B	6032156
Vinyl chloride	ND		ug/L	0.430	1.00	1	03/06/06 20:07	SW846 8260B	6031391
Xylenes, total	**4530**		ug/L	16.4	60.0	20	03/10/06 23:47	SW846 8260B	6032156
Surr: 1,2-Dichloroethane-d4 (70-130%)	*88 %*					*1*	*03/06/06 20:07*	*SW846 8260B*	*6031391*
Surr: 1,2-Dichloroethane-d4 (70-130%)	*104 %*					*1*	*03/10/06 23:47*	*SW846 8260B*	*6032156*
Surr: Dibromofluoromethane (79-122%)	*107 %*					*1*	*03/06/06 20:07*	*SW846 8260B*	*6031391*
Surr: Dibromofluoromethane (79-122%)	*103 %*					*1*	*03/10/06 23:47*	*SW846 8260B*	*6032156*
Surr: Toluene-d8 (78-121%)	*100 %*					*1*	*03/06/06 20:07*	*SW846 8260B*	*6031391*
Surr: Toluene-d8 (78-121%)	*104 %*					*1*	*03/10/06 23:47*	*SW846 8260B*	*6032156*
Surr: 4-Bromofluorobenzene (78-126%)	*101 %*					*1*	*03/06/06 20:07*	*SW846 8260B*	*6031391*
Surr: 4-Bromofluorobenzene (78-126%)	*104 %*					*1*	*03/10/06 23:47*	*SW846 8260B*	*6032156*

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0479
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/03/06 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPC0479-03 (P5803020601 - Ground Water) Sampled: 03/02/06 15:50									
Field Sampling Parameters									
pH	**6.78**		pH Units	NA	NA	1	03/02/06 15:50	EPA 150.1	6031459
Specific conductance	**3460**		uS/cm	NA	0.100	1	03/02/06 15:50	EPA 120.1	6031459
Temperature	**59.2**		°F	0.00	NA	1	03/02/06 15:50	EPA 170.1	6031459
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND	RL5	ug/L	29600	250000	5000	03/11/06 09:15	SW846 8260B	6031174
Benzene	**409000**	RL5	ug/L	1450	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Bromobenzene	ND	RL5	ug/L	2350	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Bromochloromethane	ND	RL5	ug/L	2100	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Bromodichloromethane	ND	RL5	ug/L	1900	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Bromoform	ND	RL5	ug/L	2500	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Bromomethane	ND	RL5	ug/L	3000	5000	5000	03/11/06 09:15	SW846 8260B	6031174
2-Butanone	ND	RL5	ug/L	25400	250000	5000	03/11/06 09:15	SW846 8260B	6031174
sec-Butylbenzene	ND	RL5	ug/L	1900	5000	5000	03/11/06 09:15	SW846 8260B	6031174
n-Butylbenzene	ND	RL5	ug/L	2300	5000	5000	03/11/06 09:15	SW846 8260B	6031174
tert-Butylbenzene	ND	RL5	ug/L	1950	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Carbon disulfide	ND	RL5	ug/L	1550	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Carbon Tetrachloride	ND	RL5	ug/L	2400	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Chlorobenzene	ND	RL5	ug/L	1600	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Chlorodibromomethane	ND	RL5	ug/L	1800	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Chloroethane	ND	RL5	ug/L	2500	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Chloroform	ND	RL5	ug/L	1900	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Chloromethane	ND	RL5	ug/L	2300	5000	5000	03/11/06 09:15	SW846 8260B	6031174
2-Chlorotoluene	ND	RL5	ug/L	1350	5000	5000	03/11/06 09:15	SW846 8260B	6031174
4-Chlorotoluene	ND	RL5	ug/L	1850	5000	5000	03/11/06 09:15	SW846 8260B	6031174
1,2-Dibromo-3-chloropropane	ND	RL5	ug/L	8200	25000	5000	03/11/06 09:15	SW846 8260B	6031174
1,2-Dibromoethane (EDB)	ND	RL5	ug/L	1900	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Dibromomethane	ND	RL5	ug/L	2850	5000	5000	03/11/06 09:15	SW846 8260B	6031174
1,4-Dichlorobenzene	ND	RL5	ug/L	2300	5000	5000	03/11/06 09:15	SW846 8260B	6031174
1,3-Dichlorobenzene	ND	RL5	ug/L	1800	5000	5000	03/11/06 09:15	SW846 8260B	6031174
1,2-Dichlorobenzene	ND	RL5	ug/L	1850	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Dichlorodifluoromethane	ND	RL5	ug/L	2050	5000	5000	03/11/06 09:15	SW846 8260B	6031174
1,1-Dichloroethane	ND	RL5	ug/L	1600	5000	5000	03/11/06 09:15	SW846 8260B	6031174
1,2-Dichloroethane	ND	RL5	ug/L	1400	5000	5000	03/11/06 09:15	SW846 8260B	6031174
cis-1,2-Dichloroethene	ND	RL5	ug/L	1950	5000	5000	03/11/06 09:15	SW846 8260B	6031174
1,1-Dichloroethene	ND	RL5	ug/L	2250	5000	5000	03/11/06 09:15	SW846 8260B	6031174
trans-1,2-Dichloroethene	ND	RL5	ug/L	1700	5000	5000	03/11/06 09:15	SW846 8260B	6031174
1,3-Dichloropropane	ND	RL5	ug/L	3150	5000	5000	03/11/06 09:15	SW846 8260B	6031174
1,2-Dichloropropane	ND	RL5	ug/L	2500	5000	5000	03/11/06 09:15	SW846 8260B	6031174
2,2-Dichloropropane	ND	RL5	ug/L	3300	5000	5000	03/11/06 09:15	SW846 8260B	6031174
cis-1,3-Dichloropropene	ND	RL5	ug/L	2250	5000	5000	03/11/06 09:15	SW846 8260B	6031174
trans-1,3-Dichloropropene	ND	RL5	ug/L	2450	5000	5000	03/11/06 09:15	SW846 8260B	6031174
1,1-Dichloropropene	ND	RL5	ug/L	2550	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Ethylbenzene	ND	RL5	ug/L	1700	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Hexachlorobutadiene	ND	RL5	ug/L	3350	5000	5000	03/11/06 09:15	SW846 8260B	6031174

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0479
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/03/06 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPC0479-03 (P5803020601 - Ground Water) - cont. Sampled: 03/02/06 15:50									
Volatile Organic Compounds by EPA Method 8260B - cont.									
2-Hexanone	ND	RL5	ug/L	12600	250000	5000	03/11/06 09:15	SW846 8260B	6031174
Isopropylbenzene	ND	RL5	ug/L	1700	5000	5000	03/11/06 09:15	SW846 8260B	6031174
p-Isopropyltoluene	ND	RL5	ug/L	1700	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Methyl tert-Butyl Ether	ND	RL5	ug/L	1600	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Methylene Chloride	ND	RL5	ug/L	6300	25000	5000	03/11/06 09:15	SW846 8260B	6031174
4-Methyl-2-pentanone	ND	RL5	ug/L	21200	250000	5000	03/11/06 09:15	SW846 8260B	6031174
Naphthalene	ND	RL5	ug/L	5650	25000	5000	03/11/06 09:15	SW846 8260B	6031174
n-Propylbenzene	ND	RL5	ug/L	1850	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Styrene	ND	RL5	ug/L	1950	5000	5000	03/11/06 09:15	SW846 8260B	6031174
1,1,1,2-Tetrachloroethane	ND	RL5	ug/L	1850	5000	5000	03/11/06 09:15	SW846 8260B	6031174
1,1,2,2-Tetrachloroethane	ND	RL5	ug/L	2450	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Tetrachloroethene	ND	RL5	ug/L	1950	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Toluene	ND	RL5	ug/L	1400	5000	5000	03/11/06 09:15	SW846 8260B	6031174
1,2,3-Trichlorobenzene	ND	RL5	ug/L	2800	10000	5000	03/11/06 09:15	SW846 8260B	6031174
1,2,4-Trichlorobenzene	ND	RL5	ug/L	3950	10000	5000	03/11/06 09:15	SW846 8260B	6031174
1,1,2-Trichloroethane	ND	RL5	ug/L	2100	5000	5000	03/11/06 09:15	SW846 8260B	6031174
1,1,1-Trichloroethane	ND	RL5	ug/L	2000	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Trichloroethene	ND	RL5	ug/L	2250	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Trichlorofluoromethane	ND	RL5	ug/L	2400	5000	5000	03/11/06 09:15	SW846 8260B	6031174
1,2,3-Trichloropropane	ND	RL5	ug/L	2800	5000	5000	03/11/06 09:15	SW846 8260B	6031174
1,3,5-Trimethylbenzene	ND	RL5	ug/L	1400	5000	5000	03/11/06 09:15	SW846 8260B	6031174
1,2,4-Trimethylbenzene	ND	RL5	ug/L	1700	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Vinyl chloride	ND	RL5	ug/L	2150	5000	5000	03/11/06 09:15	SW846 8260B	6031174
Xylenes, total	ND	RL5	ug/L	4100	15000	5000	03/11/06 09:15	SW846 8260B	6031174
Surr: 1,2-Dichloroethane-d4 (70-130%)	*106 %*					*1*	*03/11/06 09:15*	*SW846 8260B*	*6031174*
Surr: Dibromofluoromethane (79-122%)	*104 %*					*1*	*03/11/06 09:15*	*SW846 8260B*	*6031174*
Surr: Toluene-d8 (78-121%)	*103 %*					*1*	*03/11/06 09:15*	*SW846 8260B*	*6031174*
Surr: 4-Bromofluorobenzene (78-126%)	*101 %*					*1*	*03/11/06 09:15*	*SW846 8260B*	*6031174*

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0479
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/03/06 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPC0479-04 (P5803020602 - Ground Water) Sampled: 03/02/06 15:50									
Field Sampling Parameters									
pH	**6.78**		pH Units	NA	NA	1	03/02/06 15:50	EPA 150.1	6031459
Specific conductance	**3460**		uS/cm	NA	0.100	1	03/02/06 15:50	EPA 120.1	6031459
Temperature	**59.2**		°F	0.00	NA	1	03/02/06 15:50	EPA 170.1	6031459
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND	RL5	ug/L	29600	250000	5000	03/11/06 09:40	SW846 8260B	6031174
Benzene	**464000**	RL5	ug/L	1450	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Bromobenzene	ND	RL5	ug/L	2350	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Bromochloromethane	ND	RL5	ug/L	2100	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Bromodichloromethane	ND	RL5	ug/L	1900	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Bromoform	ND	RL5	ug/L	2500	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Bromomethane	ND	RL5	ug/L	3000	5000	5000	03/11/06 09:40	SW846 8260B	6031174
2-Butanone	ND	RL5	ug/L	25400	250000	5000	03/11/06 09:40	SW846 8260B	6031174
sec-Butylbenzene	ND	RL5	ug/L	1900	5000	5000	03/11/06 09:40	SW846 8260B	6031174
n-Butylbenzene	ND	RL5	ug/L	2300	5000	5000	03/11/06 09:40	SW846 8260B	6031174
tert-Butylbenzene	ND	RL5	ug/L	1950	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Carbon disulfide	ND	RL5	ug/L	1550	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Carbon Tetrachloride	ND	RL5	ug/L	2400	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Chlorobenzene	ND	RL5	ug/L	1600	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Chlorodibromomethane	ND	RL5	ug/L	1800	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Chloroethane	ND	RL5	ug/L	2500	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Chloroform	ND	RL5	ug/L	1900	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Chloromethane	ND	RL5	ug/L	2300	5000	5000	03/11/06 09:40	SW846 8260B	6031174
2-Chlorotoluene	ND	RL5	ug/L	1350	5000	5000	03/11/06 09:40	SW846 8260B	6031174
4-Chlorotoluene	ND	RL5	ug/L	1850	5000	5000	03/11/06 09:40	SW846 8260B	6031174
1,2-Dibromo-3-chloropropane	ND	RL5	ug/L	8200	25000	5000	03/11/06 09:40	SW846 8260B	6031174
1,2-Dibromoethane (EDB)	ND	RL5	ug/L	1900	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Dibromomethane	ND	RL5	ug/L	2850	5000	5000	03/11/06 09:40	SW846 8260B	6031174
1,4-Dichlorobenzene	ND	RL5	ug/L	2300	5000	5000	03/11/06 09:40	SW846 8260B	6031174
1,3-Dichlorobenzene	ND	RL5	ug/L	1800	5000	5000	03/11/06 09:40	SW846 8260B	6031174
1,2-Dichlorobenzene	ND	RL5	ug/L	1850	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Dichlorodifluoromethane	ND	RL5	ug/L	2050	5000	5000	03/11/06 09:40	SW846 8260B	6031174
1,1-Dichloroethane	ND	RL5	ug/L	1600	5000	5000	03/11/06 09:40	SW846 8260B	6031174
1,2-Dichloroethane	ND	RL5	ug/L	1400	5000	5000	03/11/06 09:40	SW846 8260B	6031174
cis-1,2-Dichloroethene	ND	RL5	ug/L	1950	5000	5000	03/11/06 09:40	SW846 8260B	6031174
1,1-Dichloroethene	ND	RL5	ug/L	2250	5000	5000	03/11/06 09:40	SW846 8260B	6031174
trans-1,2-Dichloroethene	ND	RL5	ug/L	1700	5000	5000	03/11/06 09:40	SW846 8260B	6031174
1,3-Dichloropropane	ND	RL5	ug/L	3150	5000	5000	03/11/06 09:40	SW846 8260B	6031174
1,2-Dichloropropane	ND	RL5	ug/L	2500	5000	5000	03/11/06 09:40	SW846 8260B	6031174
2,2-Dichloropropane	ND	RL5	ug/L	3300	5000	5000	03/11/06 09:40	SW846 8260B	6031174
cis-1,3-Dichloropropene	ND	RL5	ug/L	2250	5000	5000	03/11/06 09:40	SW846 8260B	6031174
trans-1,3-Dichloropropene	ND	RL5	ug/L	2450	5000	5000	03/11/06 09:40	SW846 8260B	6031174
1,1-Dichloropropene	ND	RL5	ug/L	2550	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Ethylbenzene	ND	RL5	ug/L	1700	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Hexachlorobutadiene	ND	RL5	ug/L	3350	5000	5000	03/11/06 09:40	SW846 8260B	6031174

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0479
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/03/06 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPC0479-04 (P5803020602 - Ground Water) - cont. Sampled: 03/02/06 15:50									
Volatile Organic Compounds by EPA Method 8260B - cont.									
2-Hexanone	ND	RL5	ug/L	12600	250000	5000	03/11/06 09:40	SW846 8260B	6031174
Isopropylbenzene	ND	RL5	ug/L	1700	5000	5000	03/11/06 09:40	SW846 8260B	6031174
p-Isopropyltoluene	ND	RL5	ug/L	1700	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Methyl tert-Butyl Ether	ND	RL5	ug/L	1600	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Methylene Chloride	ND	RL5	ug/L	6300	25000	5000	03/11/06 09:40	SW846 8260B	6031174
4-Methyl-2-pentanone	ND	RL5	ug/L	21200	250000	5000	03/11/06 09:40	SW846 8260B	6031174
Naphthalene	ND	RL5	ug/L	5650	25000	5000	03/11/06 09:40	SW846 8260B	6031174
n-Propylbenzene	ND	RL5	ug/L	1850	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Styrene	ND	RL5	ug/L	1950	5000	5000	03/11/06 09:40	SW846 8260B	6031174
1,1,1,2-Tetrachloroethane	ND	RL5	ug/L	1850	5000	5000	03/11/06 09:40	SW846 8260B	6031174
1,1,2,2-Tetrachloroethane	ND	RL5	ug/L	2450	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Tetrachloroethene	ND	RL5	ug/L	1950	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Toluene	ND	RL5	ug/L	1400	5000	5000	03/11/06 09:40	SW846 8260B	6031174
1,2,3-Trichlorobenzene	ND	RL5	ug/L	2800	10000	5000	03/11/06 09:40	SW846 8260B	6031174
1,2,4-Trichlorobenzene	ND	RL5	ug/L	3950	10000	5000	03/11/06 09:40	SW846 8260B	6031174
1,1,2-Trichloroethane	ND	RL5	ug/L	2100	5000	5000	03/11/06 09:40	SW846 8260B	6031174
1,1,1-Trichloroethane	ND	RL5	ug/L	2000	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Trichloroethene	ND	RL5	ug/L	2250	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Trichlorofluoromethane	ND	RL5	ug/L	2400	5000	5000	03/11/06 09:40	SW846 8260B	6031174
1,2,3-Trichloropropane	ND	RL5	ug/L	2800	5000	5000	03/11/06 09:40	SW846 8260B	6031174
1,3,5-Trimethylbenzene	ND	RL5	ug/L	1400	5000	5000	03/11/06 09:40	SW846 8260B	6031174
1,2,4-Trimethylbenzene	ND	RL5	ug/L	1700	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Vinyl chloride	ND	RL5	ug/L	2150	5000	5000	03/11/06 09:40	SW846 8260B	6031174
Xylenes, total	ND	RL5	ug/L	4100	15000	5000	03/11/06 09:40	SW846 8260B	6031174
Surr: 1,2-Dichloroethane-d4 (70-130%)	*109 %*					*1*	*03/11/06 09:40*	*SW846 8260B*	*6031174*
Surr: Dibromofluoromethane (79-122%)	*104 %*					*1*	*03/11/06 09:40*	*SW846 8260B*	*6031174*
Surr: Toluene-d8 (78-121%)	*103 %*					*1*	*03/11/06 09:40*	*SW846 8260B*	*6031174*
Surr: 4-Bromofluorobenzene (78-126%)	*101 %*					*1*	*03/11/06 09:40*	*SW846 8260B*	*6031174*

TestAmerica
ANALYTICAL TESTING CORPORATION
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Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0479
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/03/06 08:00

ANALYTICAL REPORT

Sample ID: NPC0479-05 (P73030206EB - Ground Water) Sampled: 03/02/06 11:05

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	ND		ug/L	5.91	50.0	1	03/10/06 03:02	SW846 8260B	6032146
Benzene	2.62		ug/L	0.290	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Bromobenzene	ND		ug/L	0.470	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Bromochloromethane	ND		ug/L	0.420	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Bromodichloromethane	ND		ug/L	0.380	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Bromoform	ND		ug/L	0.500	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Bromomethane	ND		ug/L	0.600	1.00	1	03/10/06 03:02	SW846 8260B	6032146
2-Butanone	ND		ug/L	5.09	50.0	1	03/10/06 03:02	SW846 8260B	6032146
sec-Butylbenzene	ND		ug/L	0.380	1.00	1	03/10/06 03:02	SW846 8260B	6032146
n-Butylbenzene	ND		ug/L	0.460	1.00	1	03/10/06 03:02	SW846 8260B	6032146
tert-Butylbenzene	ND		ug/L	0.390	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Carbon disulfide	ND		ug/L	0.310	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Carbon Tetrachloride	ND		ug/L	0.480	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Chlorobenzene	ND		ug/L	0.320	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Chloroethane	ND		ug/L	0.500	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Chloroform	ND		ug/L	0.380	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Chloromethane	ND		ug/L	0.460	1.00	1	03/10/06 03:02	SW846 8260B	6032146
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	03/10/06 03:02	SW846 8260B	6032146
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	03/10/06 03:02	SW846 8260B	6032146
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	03/10/06 03:02	SW846 8260B	6032146
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Dibromomethane	ND		ug/L	0.570	1.00	1	03/10/06 03:02	SW846 8260B	6032146
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	03/10/06 03:02	SW846 8260B	6032146
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	03/10/06 03:02	SW846 8260B	6032146
1,2-Dichlorobenzene	ND		ug/L	0.370	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	03/10/06 03:02	SW846 8260B	6032146
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	03/10/06 03:02	SW846 8260B	6032146
1,2-Dichloroethane	ND		ug/L	0.280	1.00	1	03/10/06 03:02	SW846 8260B	6032146
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	03/10/06 03:02	SW846 8260B	6032146
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	03/10/06 03:02	SW846 8260B	6032146
trans-1,2-Dichloroethene	ND		ug/L	0.340	1.00	1	03/10/06 03:02	SW846 8260B	6032146
1,3-Dichloropropane	ND		ug/L	0.630	1.00	1	03/10/06 03:02	SW846 8260B	6032146
1,2-Dichloropropane	ND		ug/L	0.500	1.00	1	03/10/06 03:02	SW846 8260B	6032146
2,2-Dichloropropane	ND		ug/L	0.660	1.00	1	03/10/06 03:02	SW846 8260B	6032146
cis-1,3-Dichloropropene	ND		ug/L	0.450	1.00	1	03/10/06 03:02	SW846 8260B	6032146
trans-1,3-Dichloropropene	ND		ug/L	0.490	1.00	1	03/10/06 03:02	SW846 8260B	6032146
1,1-Dichloropropene	ND		ug/L	0.510	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Ethylbenzene	ND		ug/L	0.340	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Hexachlorobutadiene	ND		ug/L	0.670	1.00	1	03/10/06 03:02	SW846 8260B	6032146
2-Hexanone	ND		ug/L	2.53	50.0	1	03/10/06 03:02	SW846 8260B	6032146
Isopropylbenzene	ND		ug/L	0.340	1.00	1	03/10/06 03:02	SW846 8260B	6032146
p-Isopropyltoluene	ND		ug/L	0.340	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Methyl tert-Butyl Ether	ND		ug/L	0.320	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Methylene Chloride	ND		ug/L	1.26	5.00	1	03/10/06 03:02	SW846 8260B	6032146

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0479
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/03/06 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPC0479-05 (P73030206EB - Ground Water) - cont. Sampled: 03/02/06 11:05									
Volatile Organic Compounds by EPA Method 8260B - cont.									
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	03/10/06 03:02	SW846 8260B	6032146
Naphthalene	ND		ug/L	1.13	5.00	1	03/10/06 03:02	SW846 8260B	6032146
n-Propylbenzene	ND		ug/L	0.370	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Styrene	ND		ug/L	0.390	1.00	1	03/10/06 03:02	SW846 8260B	6032146
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	03/10/06 03:02	SW846 8260B	6032146
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Tetrachloroethene	ND		ug/L	0.390	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Toluene	ND		ug/L	0.280	1.00	1	03/10/06 03:02	SW846 8260B	6032146
1,2,3-Trichlorobenzene	ND		ug/L	0.560	2.00	1	03/10/06 03:02	SW846 8260B	6032146
1,2,4-Trichlorobenzene	ND		ug/L	0.790	2.00	1	03/10/06 03:02	SW846 8260B	6032146
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	03/10/06 03:02	SW846 8260B	6032146
1,1,1-Trichloroethane	ND		ug/L	0.400	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Trichloroethene	ND		ug/L	0.450	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Trichlorofluoromethane	ND		ug/L	0.480	1.00	1	03/10/06 03:02	SW846 8260B	6032146
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	03/10/06 03:02	SW846 8260B	6032146
1,3,5-Trimethylbenzene	ND		ug/L	0.280	1.00	1	03/10/06 03:02	SW846 8260B	6032146
1,2,4-Trimethylbenzene	ND		ug/L	0.340	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Vinyl chloride	ND		ug/L	0.430	1.00	1	03/10/06 03:02	SW846 8260B	6032146
Xylenes, total	ND		ug/L	0.820	3.00	1	03/10/06 03:02	SW846 8260B	6032146
Surr: 1,2-Dichloroethane-d4 (70-130%)	*102 %*					*1*	*03/10/06 03:02*	*SW846 8260B*	*6032146*
Surr: Dibromofluoromethane (79-122%)	*104 %*					*1*	*03/10/06 03:02*	*SW846 8260B*	*6032146*
Surr: Toluene-d8 (78-121%)	*103 %*					*1*	*03/10/06 03:02*	*SW846 8260B*	*6032146*
Surr: 4-Bromofluorobenzene (78-126%)	*105 %*					*1*	*03/10/06 03:02*	*SW846 8260B*	*6032146*
Sample ID: NPC0479-06 (03020601TB - Ground Water) Sampled: 03/02/06 00:01									
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND		ug/L	5.91	50.0	1	03/10/06 15:33	SW846 8260B	6032156
Benzene	ND		ug/L	0.290	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Bromobenzene	ND		ug/L	0.470	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Bromochloromethane	ND		ug/L	0.420	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Bromodichloromethane	ND		ug/L	0.380	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Bromoform	ND		ug/L	0.500	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Bromomethane	ND		ug/L	0.600	1.00	1	03/10/06 15:33	SW846 8260B	6032156
2-Butanone	ND		ug/L	5.09	50.0	1	03/10/06 15:33	SW846 8260B	6032156
sec-Butylbenzene	ND		ug/L	0.380	1.00	1	03/10/06 15:33	SW846 8260B	6032156
n-Butylbenzene	ND		ug/L	0.460	1.00	1	03/10/06 15:33	SW846 8260B	6032156
tert-Butylbenzene	ND		ug/L	0.390	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Carbon disulfide	ND		ug/L	0.310	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Carbon Tetrachloride	ND		ug/L	0.480	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Chlorobenzene	ND		ug/L	0.320	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Chloroethane	ND		ug/L	0.500	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Chloroform	ND		ug/L	0.380	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Chloromethane	ND		ug/L	0.460	1.00	1	03/10/06 15:33	SW846 8260B	6032156

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0479
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/03/06 08:00

ANALYTICAL REPORT

Sample ID: NPC0479-06 (03020601TB - Ground Water) - cont. Sampled: 03/02/06 00:01

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	03/10/06 15:33	SW846 8260B	6032156
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	03/10/06 15:33	SW846 8260B	6032156
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	03/10/06 15:33	SW846 8260B	6032156
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Dibromomethane	ND		ug/L	0.570	1.00	1	03/10/06 15:33	SW846 8260B	6032156
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	03/10/06 15:33	SW846 8260B	6032156
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	03/10/06 15:33	SW846 8260B	6032156
1,2-Dichlorobenzene	ND		ug/L	0.370	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	03/10/06 15:33	SW846 8260B	6032156
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	03/10/06 15:33	SW846 8260B	6032156
1,2-Dichloroethane	ND		ug/L	0.280	1.00	1	03/10/06 15:33	SW846 8260B	6032156
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	03/10/06 15:33	SW846 8260B	6032156
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	03/10/06 15:33	SW846 8260B	6032156
trans-1,2-Dichloroethene	ND		ug/L	0.340	1.00	1	03/10/06 15:33	SW846 8260B	6032156
1,3-Dichloropropane	ND		ug/L	0.630	1.00	1	03/10/06 15:33	SW846 8260B	6032156
1,2-Dichloropropane	ND		ug/L	0.500	1.00	1	03/10/06 15:33	SW846 8260B	6032156
2,2-Dichloropropane	ND		ug/L	0.660	1.00	1	03/10/06 15:33	SW846 8260B	6032156
cis-1,3-Dichloropropene	ND		ug/L	0.450	1.00	1	03/10/06 15:33	SW846 8260B	6032156
trans-1,3-Dichloropropene	ND		ug/L	0.490	1.00	1	03/10/06 15:33	SW846 8260B	6032156
1,1-Dichloropropene	ND		ug/L	0.510	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Ethylbenzene	ND		ug/L	0.340	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Hexachlorobutadiene	ND		ug/L	0.670	1.00	1	03/10/06 15:33	SW846 8260B	6032156
2-Hexanone	ND		ug/L	2.53	50.0	1	03/10/06 15:33	SW846 8260B	6032156
Isopropylbenzene	ND		ug/L	0.340	1.00	1	03/10/06 15:33	SW846 8260B	6032156
p-Isopropyltoluene	ND		ug/L	0.340	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Methyl tert-Butyl Ether	ND		ug/L	0.320	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Methylene Chloride	ND		ug/L	1.26	5.00	1	03/10/06 15:33	SW846 8260B	6032156
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	03/10/06 15:33	SW846 8260B	6032156
Naphthalene	ND		ug/L	1.13	5.00	1	03/10/06 15:33	SW846 8260B	6032156
n-Propylbenzene	ND		ug/L	0.370	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Styrene	ND		ug/L	0.390	1.00	1	03/10/06 15:33	SW846 8260B	6032156
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	03/10/06 15:33	SW846 8260B	6032156
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Tetrachloroethene	ND		ug/L	0.390	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Toluene	ND		ug/L	0.280	1.00	1	03/10/06 15:33	SW846 8260B	6032156
1,2,3-Trichlorobenzene	ND		ug/L	0.560	2.00	1	03/10/06 15:33	SW846 8260B	6032156
1,2,4-Trichlorobenzene	ND		ug/L	0.790	2.00	1	03/10/06 15:33	SW846 8260B	6032156
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	03/10/06 15:33	SW846 8260B	6032156
1,1,1-Trichloroethane	ND		ug/L	0.400	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Trichloroethene	ND		ug/L	0.450	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Trichlorofluoromethane	ND		ug/L	0.480	1.00	1	03/10/06 15:33	SW846 8260B	6032156
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	03/10/06 15:33	SW846 8260B	6032156
1,3,5-Trimethylbenzene	ND		ug/L	0.280	1.00	1	03/10/06 15:33	SW846 8260B	6032156
1,2,4-Trimethylbenzene	ND		ug/L	0.340	1.00	1	03/10/06 15:33	SW846 8260B	6032156
Vinyl chloride	ND		ug/L	0.430	1.00	1	03/10/06 15:33	SW846 8260B	6032156

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0479
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/03/06 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPC0479-06 (03020601TB - Ground Water) - cont. Sampled: 03/02/06 00:01									
Volatile Organic Compounds by EPA Method 8260B - cont.									
Xylenes, total	ND		ug/L	0.820	3.00	1	03/10/06 15:33	SW846 8260B	6032156
Surr: 1,2-Dichloroethane-d4 (70-130%)	*105 %*					*1*	*03/10/06 15:33*	*SW846 8260B*	*6032156*
Surr: Dibromofluoromethane (79-122%)	*106 %*					*1*	*03/10/06 15:33*	*SW846 8260B*	*6032156*
Surr: Toluene-d8 (78-121%)	*104 %*					*1*	*03/10/06 15:33*	*SW846 8260B*	*6032156*
Surr: 4-Bromofluorobenzene (78-126%)	*109 %*					*1*	*03/10/06 15:33*	*SW846 8260B*	*6032156*

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	URS Corporation (St. Louis)/SHELL (13668)	Work Order:	NPC0479
	1001 Highlands Plaza Dr. West, Suite 300	Project Name:	West Fenceline P-93 Project
	St. Louis, MO 63110	Project Number:	SAP 340061
Attn	Jeff Adams	Received:	03/03/06 08:00

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
R2	The RPD exceeded the acceptance limit.
RL5	Reporting limit raised due to high single peak analyte.

METHOD MODIFICATION NOTES

TEST AMERICA

☐ [illegible] N 37204 PHONE 800-765-0980 FAX# 616-726-3404

☐ 7602 Commerce Drive, Watertown, WI 5309

NPC0479

☐ 704 Enterprise Drive, Cedar Falls, IA 50613 03/08/06 17:00

☐ 14500 Trinity Blvd., Suite 106, Fort Worth, TX 76155 Phone 817-571-6800

☐ 3601 South Dixie Drive, Dayton, OH 46439 Phone 800-572-9839

☐ 1380 Busch Parkway, Buffalo Grove, IL 60089 Phone 847-808-7766

☐ 1110 Elkton Drive, Suite A, Colorado Springs, CO 80907 Phone 719-593-9911

☐ Other _____

Shell Oil Products US Chain Of Custody Record

SOP US Project Manager to be invoiced:

☐ ENVIRONMENTAL SERVICES

☐ TECHNICAL SERVICES

☐ RMT HOUSTON

☐ BILL CONSULTANT

NAME OF PM TO BILL: Herb Hand (SOPUS)

NAME OF TS TO BILL:

☑ SHELL RATES ☐ STATE REIMBURSEMENT RATES

INCIDENT # (SAE ONLY): 9 7 2 1 6 6 4 0

SAP or CRMT # (TS/CRMT):

DATE: 3/2/06

PAGE: 1 of 2

Invoice with _____ sampling events for this site, sampled through the following date: _____

CONSULTANT COMPANY: URS Corporation

ADDRESS: 1001 Highlands Plaza Drive West; Suite 300

CITY: St. Louis, MO 63110

TELEPHONE: (office) 314-429-0100 (cell) 314-409-8460

FAX: (Office) 431-429-0462 (Trailer) 618-254-1512

E-MAIL: Jeff Adams Thomas_Adams@urscorp.com

SITE ADDRESS (Street and City): 900 South Central Avenue, Roxana, IL 62048

PROJECT CONTACT (Report to): Herb Hand (SOPUS) (Copy to): Jeff Adams (URS)

CONSULTANT PROJECT NO.: SOPUS-West Fenceline P-03 Project

SAMPLER NAME(S) (Print):

SAE USE ONLY

TURNAROUND TIME (CALENDAR DAYS): ☐ STANDARD (10 DAY) ☑ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

TEMPERATURE ON RECEIPT C°

SPECIAL INSTRUCTIONS OR NOTES :

Level 4 QC Deliverables

REQUESTED ANALYSIS If more than one method is listed, circle one

SAE USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOCs Method 8260	TPH-GRO (8015)	TPH-DRO (8015)	8260 / 8015 Moisture	Container PID Readings or Laboratory Notes
	P66 030206 01	3/2/06	1040	GW	X					3	X				NPC0479-01
	P7303020601		1420		X					3	X				2
	P5803020601		1550		X		-			3	X				3
	P58 03020602		1550		X					3	X				4
	~~P~~ P73030206 EB		1105		X					3	X				5
	030206 01 TB									1	X				6

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date: 3/3/06	Time: 8:00

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

05/1/01 Revision

TEST AMERICA

☑ 2690 FOSTER CREIGHTON, NASHVILLE, TN 37204 PHONE 800-765-0980 FAX# 616-726-3404

☐ 7602 Commerce Drive, Watertown, WI 53094 Phone 800-833-7036

☐ 704 Enterprise Drive, Cedar Falls, IA 50613 Phone 319-277-2401

☐ 14500 Trinity Blvd., Suite 106, Fort Worth, TX 76155 Phone 817-571-6800

☐ 3601 South Dixie Drive, Dayton, OH 46439 Phone 800-572-9839

☐ 1380 Busch Parkway, Buffalo Grove, IL 60089 Phone 847-808-7766

☐ 1110 Elkton Drive, Suite A, Colorado Springs, CO 80907 Phone 719-593-9911

☐ Other _____

Shell Oil Products US Chain Of Custody Record

SOP US Project Manager to be invoiced:

☐ ENVIRONMENTAL SERVICES

☐ TECHNICAL SERVICES

☐ RMT HOUSTON

☐ BILL CONSULTANT

NAME OF PM TO BILL: Herb Hand (SOPUS)

NAME OF TS TO BILL:

☑ SHELL RATES ☐ STATE REIMBURSEMENT RATES

INCIDENT # (S&E ONLY): 9 7 2 1 6 6 4 0

SAP or CRMT # (TS/CRMT):

DATE: 3/2/06

PAGE: 1 of 2

Invoice with _____ sampling events for this site, sampled through the following date: _____

CONSULTANT COMPANY: URS Corporation

ADDRESS: 1001 Highlands Plaza Drive West; Suite 300

CITY: St. Louis, MO 63110

TELEPHONE: (office) 314-429-0100 (cell) 314-409-6480

FAX: (Office) 314-429-0462 (Trailer) 618-254-1512

E-MAIL: Jeff Adams Thomas_Adams@urscorp.com

SITE ADDRESS (Street and City): 900 South Central Avenue, Roxana, IL 62048

PROJECT CONTACT (Report to): Herb Hand (SOPUS) (Copy to): Jeff Adams (URS)

CONSULTANT PROJECT NO.: SOPUS-West Fenceline P-93 Project

SAMPLER NAME(S) (Print):

LAB USE ONLY:

TURNAROUND TIME (CALENDAR DAYS): ☐ STANDARD (10 DAY) ☑ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

TEMPERATURE ON RECEIPT C°

SPECIAL INSTRUCTIONS OR NOTES :

Level 4 QC Deliverables

LAB USE ONLY	Field Sample Identification	SAMPLING		FIELD PARAMETERS		
		DATE	TIME	TEMPERATURE (F)	pH	CONDUCTIVITY (see units below)
	P6603020601	3/2/06	1040	63.5	6.58	1260 mS/cm
	P7303020601	↓	1420	60.98	6.71	1170 mS/cm
	P5803020601		1550	59.18	6.78	3460 mS/cm
	P5803020602		1550	59.18	6.78	3460 mS/cm

West Fenceline Data Review

Laboratory SDG: NPC0653

Reviewer: Tony Sedlacek

Date Reviewed: 2/11/2007

Guidance: USEPA Contract Laboratory National Functional Guidelines for Organic Data Review (USEPA 1999).

Applicable Work Plan: West Fenceline P-93 Dissolved Phase Benzene Investigation (2006)

Sample Identification #	Sample Identification #
P7503030601	P93A03030601
P93B03030601	P5703030601
03030602TB	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC?

No, the COC designated sample P93A03030601 as an MS/MSD to be analyzed for VOCs. The VOC MS/MSD data was not received as part of the data package. The laboratory was contacted and the data was requested.

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that several LCS recoveries were outside evaluation criteria. Some samples were diluted due to high levels of target analytes and professional judgment was used to evaluate and qualify methylene chloride in sample P5703030601. These issues are addressed further in the appropriate sections below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within QAPP limits?

Yes

Field ID	Parameter	Analyte	Qualification
N/A			

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

Blank ID	Parameter	Analyte	Concentration	Units
N/A				

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Field ID	Parameter	Analyte	New RL	Qualification
N/A				

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
6031695-BS1	VOCs	sec-butylbenzene	**138**	N/A	75-131
6031695-BS1	VOCs	tert-butylbenzene	**138**	N/A	74-129
6031695-BS1	VOCs	Isopropylbenzene	**134**	N/A	75-130
6031695-BS1	VOCs	p-Isopropyltoluene	**137**	N/A	76-133

Analytical data that required qualification based on LCS data are included in the table below. Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
N/A			

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

Field ID	Parameter	Surrogate	Recovery	Criteria
N/A				

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification

Field ID	Parameter	Analyte	Qualification
N/A			

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples reported as part of this SDG?

Yes, the COC designated sample P93A03030601 as an MS/MSD to be analyzed for VOCs. The VOC MS/MSD data was not received as part of the data package. The laboratory was contacted and the data was requested.

Were MS/MSD recoveries within evaluation criteria?

N/A

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
N/A					

Analytical data that required qualification based on MS/MSD data are included in the table below.

Field ID	Parameter	Analyte	Qualification
N/A			

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

Were laboratory duplicate sample RPDs within criteria?

N/A

Field ID	Parameter	Analyte	RPD	Criteria
N/A				

Data qualified due to outlying laboratory duplicate recoveries are identified below:

Field ID	Parameter	Analyte	Qualification
N/A			

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

Field ID	Field Duplicate ID
N/A	

Were field duplicates within evaluation criteria?

N/A

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
N/A					

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Yes

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run ***was not*** reported:

Field ID	Parameter	Dilution Factor
P93A03030601	VOCs	5000
P93B03030601	VOCs	5000
P5703030601	VOCs	1000

11.0 Additional Qualifications

Were additional qualifications applied?

Yes

Professional judgment was used to qualify the common laboratory contaminant methylene chloride reported at concentrations less than two times (2X) the RL

Field ID	Analyte	New RL	Qualification	Comments
P5703030601DL	Methylene chloride	1400	U	Professional Judgment

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

April 21, 2006

Client: URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn: Jeff Adams

Work Order: NPC0653
Project Name: West Fenceline P-93 Project
Project Nbr: SAP 340061
P/O Nbr: 97216640
Date Received: 03/04/06

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
P7503030601	NPC0653-01	03/03/06 10:30
P93A03030601 MS/MSD	NPC0653-02	03/03/06 14:30
P93B03030601	NPC0653-03	03/03/06 15:45
P5703030601	NPC0653-04	03/03/06 15:50
03030602TB	NPC0653-05	03/03/06 00:01

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

Additional Laboratory Comments:
Per enclosed Chain of Custody, "samples were properly preserved and received in good condition on 3/4/06. Analysis was extracted and performed within method required holding times following Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846)". Initial and Continuing Calibration requirements were met. Package was completed as a "Level IV".

Please note for QC bacth 6031174: Please note that the reporting limit for P93A03030601 MS/MSD and P93A03030601 were elevated due to the matrix effect. Several % Recovery and % RPD for the MAtrix Spike and Matrix Spike Duplicate were outside laboratory acceptable QC limit due to the matrix of the sample spiked.

Please note for QC bacth 6031695: sec-Butylbenzene, tert-Butylbenzene, Isopropylbenzene, and p-Isopropylbenzene in the LCS were outside laboratory acceptable QC limit biased high. These analytes were not detected in this QC bacth, therefore the data was not impacted.

Organics: Unknown analyte concentrations were determined using the average response factor from the initial calibration curve for all analytes whose % RSD is less than or equal to 15. All other analyte concentrations were determined using linear regression analysis. Copies of curves for compounds with %RSD's greater than 15 are supplied.

As you review this data package, please call me if you require any additional information at # 1-800-765-0980 ext 1256.
Illinois Certification Number: 001177

The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

Report Approved By:

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	URS Corporation (St. Louis)/SHELL (13668)	Work Order:	NPC0653
	1001 Highlands Plaza Dr. West, Suite 300	Project Name:	West Fenceline P-93 Project
	St. Louis, MO 63110	Project Number:	SAP 340061
Attn	Jeff Adams	Received:	03/04/06 08:00

Glenn Lee Norton
Data Package Coordinator

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0653
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/04/06 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPC0653-01 (P7503030601 - Ground Water) Sampled: 03/03/06 10:30									
Field Sampling Parameters									
pH	**6.45**		pH Units	NA	NA	1	03/03/06 10:30	EPA 150.1	6031453
Specific conductance	**1220**		uS/cm	NA	0.100	1	03/03/06 10:30	EPA 120.1	6031453
Temperature	**61.7**		°F	0.00	NA	1	03/03/06 10:30	EPA 170.1	6031453
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND		ug/L	5.91	50.0	1	03/08/06 11:08	SW846 8260B	6031695
Benzene	**2780**		ug/L	5.80	20.0	20	03/11/06 03:05	SW846 8260B	6031174
Bromobenzene	ND		ug/L	0.470	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Bromochloromethane	ND		ug/L	0.420	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Bromodichloromethane	ND		ug/L	0.380	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Bromoform	ND		ug/L	0.500	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Bromomethane	ND		ug/L	0.600	1.00	1	03/08/06 11:08	SW846 8260B	6031695
2-Butanone	ND		ug/L	5.09	50.0	1	03/08/06 11:08	SW846 8260B	6031695
sec-Butylbenzene	ND		ug/L	7.60	20.0	20	03/11/06 03:05	SW846 8260B	6031174
n-Butylbenzene	**30.0**		ug/L	0.460	1.00	1	03/08/06 11:08	SW846 8260B	6031695
tert-Butylbenzene	**14.6**	J	ug/L	7.80	20.0	20	03/11/06 03:05	SW846 8260B	6031174
Carbon disulfide	ND		ug/L	0.310	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Carbon Tetrachloride	ND		ug/L	0.480	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Chlorobenzene	ND		ug/L	0.320	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Chloroethane	ND		ug/L	0.500	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Chloroform	ND		ug/L	0.380	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Chloromethane	ND		ug/L	0.460	1.00	1	03/08/06 11:08	SW846 8260B	6031695
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	03/08/06 11:08	SW846 8260B	6031695
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	03/08/06 11:08	SW846 8260B	6031695
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	03/08/06 11:08	SW846 8260B	6031695
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Dibromomethane	ND		ug/L	0.570	1.00	1	03/08/06 11:08	SW846 8260B	6031695
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	03/08/06 11:08	SW846 8260B	6031695
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	03/08/06 11:08	SW846 8260B	6031695
1,2-Dichlorobenzene	ND		ug/L	0.370	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	03/08/06 11:08	SW846 8260B	6031695
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	03/08/06 11:08	SW846 8260B	6031695
1,2-Dichloroethane	ND		ug/L	0.280	1.00	1	03/08/06 11:08	SW846 8260B	6031695
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	03/08/06 11:08	SW846 8260B	6031695
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	03/08/06 11:08	SW846 8260B	6031695
trans-1,2-Dichloroethene	ND		ug/L	0.340	1.00	1	03/08/06 11:08	SW846 8260B	6031695
1,3-Dichloropropane	ND		ug/L	0.630	1.00	1	03/08/06 11:08	SW846 8260B	6031695
1,2-Dichloropropane	ND		ug/L	0.500	1.00	1	03/08/06 11:08	SW846 8260B	6031695
2,2-Dichloropropane	ND		ug/L	0.660	1.00	1	03/08/06 11:08	SW846 8260B	6031695
cis-1,3-Dichloropropene	ND		ug/L	0.450	1.00	1	03/08/06 11:08	SW846 8260B	6031695
trans-1,3-Dichloropropene	ND		ug/L	0.490	1.00	1	03/08/06 11:08	SW846 8260B	6031695
1,1-Dichloropropene	ND		ug/L	0.510	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Ethylbenzene	**29.6**		ug/L	0.340	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Hexachlorobutadiene	ND		ug/L	0.670	1.00	1	03/08/06 11:08	SW846 8260B	6031695

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Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0653
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/04/06 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPC0653-01 (P7503030601 - Ground Water) - cont. Sampled: 03/03/06 10:30									
Volatile Organic Compounds by EPA Method 8260B - cont.									
2-Hexanone	ND		ug/L	2.53	50.0	1	03/08/06 11:08	SW846 8260B	6031695
Isopropylbenzene	**103**		ug/L	6.80	20.0	20	03/11/06 03:05	SW846 8260B	6031174
p-Isopropyltoluene	ND		ug/L	0.340	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Methyl tert-Butyl Ether	**191**		ug/L	0.320	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Methylene Chloride	ND		ug/L	1.26	5.00	1	03/08/06 11:08	SW846 8260B	6031695
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	03/08/06 11:08	SW846 8260B	6031695
Naphthalene	**28.6**		ug/L	1.13	5.00	1	03/08/06 11:08	SW846 8260B	6031695
n-Propylbenzene	**156**		ug/L	0.370	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Styrene	ND		ug/L	0.390	1.00	1	03/08/06 11:08	SW846 8260B	6031695
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	03/08/06 11:08	SW846 8260B	6031695
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Tetrachloroethene	ND		ug/L	0.390	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Toluene	**16.9**		ug/L	0.280	1.00	1	03/08/06 11:08	SW846 8260B	6031695
1,2,3-Trichlorobenzene	ND		ug/L	0.560	2.00	1	03/08/06 11:08	SW846 8260B	6031695
1,2,4-Trichlorobenzene	ND		ug/L	0.790	2.00	1	03/08/06 11:08	SW846 8260B	6031695
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	03/08/06 11:08	SW846 8260B	6031695
1,1,1-Trichloroethane	ND		ug/L	0.400	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Trichloroethene	ND		ug/L	0.450	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Trichlorofluoromethane	ND		ug/L	0.480	1.00	1	03/08/06 11:08	SW846 8260B	6031695
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	03/08/06 11:08	SW846 8260B	6031695
1,3,5-Trimethylbenzene	**14.6**		ug/L	0.280	1.00	1	03/08/06 11:08	SW846 8260B	6031695
1,2,4-Trimethylbenzene	**66.4**		ug/L	0.340	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Vinyl chloride	ND		ug/L	0.430	1.00	1	03/08/06 11:08	SW846 8260B	6031695
Xylenes, total	**39.3**		ug/L	0.820	3.00	1	03/08/06 11:08	SW846 8260B	6031695
Diisopropyl Ether	**616**		ug/L	8.40	20.0	20	03/11/06 03:05	SW846 8260B	6031174
Surr: 1,2-Dichloroethane-d4 (70-130%)	*90 %*					*1*	*03/08/06 11:08*	*SW846 8260B*	*6031695*
Surr: 1,2-Dichloroethane-d4 (70-130%)	*101 %*					*1*	*03/11/06 03:05*	*SW846 8260B*	*6031174*
Surr: Dibromofluoromethane (79-122%)	*100 %*					*1*	*03/08/06 11:08*	*SW846 8260B*	*6031695*
Surr: Dibromofluoromethane (79-122%)	*104 %*					*1*	*03/11/06 03:05*	*SW846 8260B*	*6031174*
Surr: Toluene-d8 (78-121%)	*90 %*					*1*	*03/08/06 11:08*	*SW846 8260B*	*6031695*
Surr: Toluene-d8 (78-121%)	*104 %*					*1*	*03/11/06 03:05*	*SW846 8260B*	*6031174*
Surr: 4-Bromofluorobenzene (78-126%)	*85 %*					*1*	*03/08/06 11:08*	*SW846 8260B*	*6031695*
Surr: 4-Bromofluorobenzene (78-126%)	*104 %*					*1*	*03/11/06 03:05*	*SW846 8260B*	*6031174*

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Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0653
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/04/06 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPC0653-02 (P93A03030601 MS/MSD - Ground Water) Sampled: 03/03/06 14:30									
Field Sampling Parameters									
pH	**6.61**		pH Units	NA	NA	1	03/03/06 14:30	EPA 150.1	6031453
Specific conductance	**1020**		uS/cm	NA	0.100	1	03/03/06 14:30	EPA 120.1	6031453
Temperature	**62.6**		°F	0.00	NA	1	03/03/06 14:30	EPA 170.1	6031453
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND	RL1	ug/L	29600	250000	5000	03/11/06 08:26	SW846 8260B	6031174
Benzene	**506000**		ug/L	1450	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Bromobenzene	ND	RL1	ug/L	2350	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Bromochloromethane	ND	RL1	ug/L	2100	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Bromodichloromethane	ND	RL1	ug/L	1900	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Bromoform	ND	RL1	ug/L	2500	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Bromomethane	ND	RL1	ug/L	3000	5000	5000	03/11/06 08:26	SW846 8260B	6031174
2-Butanone	ND	RL1	ug/L	25400	250000	5000	03/11/06 08:26	SW846 8260B	6031174
sec-Butylbenzene	ND	RL1	ug/L	1900	5000	5000	03/11/06 08:26	SW846 8260B	6031174
n-Butylbenzene	ND	RL1	ug/L	2300	5000	5000	03/11/06 08:26	SW846 8260B	6031174
tert-Butylbenzene	ND	RL1	ug/L	1950	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Carbon disulfide	ND	RL1	ug/L	1550	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Carbon Tetrachloride	ND	RL1	ug/L	2400	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Chlorobenzene	ND	RL1	ug/L	1600	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Chlorodibromomethane	ND	RL1	ug/L	1800	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Chloroethane	ND	RL1	ug/L	2500	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Chloroform	ND	RL1	ug/L	1900	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Chloromethane	ND	RL1	ug/L	2300	5000	5000	03/11/06 08:26	SW846 8260B	6031174
2-Chlorotoluene	ND	RL1	ug/L	1350	5000	5000	03/11/06 08:26	SW846 8260B	6031174
4-Chlorotoluene	ND	RL1	ug/L	1850	5000	5000	03/11/06 08:26	SW846 8260B	6031174
1,2-Dibromo-3-chloropropane	ND	RL1	ug/L	8200	25000	5000	03/11/06 08:26	SW846 8260B	6031174
1,2-Dibromoethane (EDB)	ND	RL1	ug/L	1900	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Dibromomethane	ND	RL1	ug/L	2850	5000	5000	03/11/06 08:26	SW846 8260B	6031174
1,4-Dichlorobenzene	ND	RL1	ug/L	2300	5000	5000	03/11/06 08:26	SW846 8260B	6031174
1,3-Dichlorobenzene	ND	RL1	ug/L	1800	5000	5000	03/11/06 08:26	SW846 8260B	6031174
1,2-Dichlorobenzene	ND	RL1	ug/L	1850	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Dichlorodifluoromethane	ND	RL1	ug/L	2050	5000	5000	03/11/06 08:26	SW846 8260B	6031174
1,1-Dichloroethane	ND	RL1	ug/L	1600	5000	5000	03/11/06 08:26	SW846 8260B	6031174
1,2-Dichloroethane	ND	RL1	ug/L	1400	5000	5000	03/11/06 08:26	SW846 8260B	6031174
cis-1,2-Dichloroethene	ND	RL1	ug/L	1950	5000	5000	03/11/06 08:26	SW846 8260B	6031174
1,1-Dichloroethene	ND	RL1	ug/L	2250	5000	5000	03/11/06 08:26	SW846 8260B	6031174
trans-1,2-Dichloroethene	ND	RL1	ug/L	1700	5000	5000	03/11/06 08:26	SW846 8260B	6031174
1,3-Dichloropropane	ND	RL1	ug/L	3150	5000	5000	03/11/06 08:26	SW846 8260B	6031174
1,2-Dichloropropane	ND	RL1	ug/L	2500	5000	5000	03/11/06 08:26	SW846 8260B	6031174
2,2-Dichloropropane	ND	RL1	ug/L	3300	5000	5000	03/11/06 08:26	SW846 8260B	6031174
cis-1,3-Dichloropropene	ND	RL1	ug/L	2250	5000	5000	03/11/06 08:26	SW846 8260B	6031174
trans-1,3-Dichloropropene	ND	RL1	ug/L	2450	5000	5000	03/11/06 08:26	SW846 8260B	6031174
1,1-Dichloropropene	ND	RL1	ug/L	2550	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Ethylbenzene	ND	RL1	ug/L	1700	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Hexachlorobutadiene	ND	RL1	ug/L	3350	5000	5000	03/11/06 08:26	SW846 8260B	6031174

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0653
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/04/06 08:00

ANALYTICAL REPORT

Sample ID: NPC0653-02 (P93A03030601 MS/MSD - Ground Water) - cont. Sampled: 03/03/06 14:30

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
2-Hexanone	ND	RL1	ug/L	12600	250000	5000	03/11/06 08:26	SW846 8260B	6031174
Isopropylbenzene	ND	RL1	ug/L	1700	5000	5000	03/11/06 08:26	SW846 8260B	6031174
p-Isopropyltoluene	ND	RL1	ug/L	1700	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Methyl tert-Butyl Ether	**2550**	RL1, J	ug/L	1600	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Methylene Chloride	ND	RL1	ug/L	6300	25000	5000	03/11/06 08:26	SW846 8260B	6031174
4-Methyl-2-pentanone	ND	RL1	ug/L	21200	250000	5000	03/11/06 08:26	SW846 8260B	6031174
Naphthalene	ND	RL1	ug/L	5650	25000	5000	03/11/06 08:26	SW846 8260B	6031174
n-Propylbenzene	ND	RL1	ug/L	1850	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Styrene	ND	RL1	ug/L	1950	5000	5000	03/11/06 08:26	SW846 8260B	6031174
1,1,1,2-Tetrachloroethane	ND	RL1	ug/L	1850	5000	5000	03/11/06 08:26	SW846 8260B	6031174
1,1,2,2-Tetrachloroethane	ND	RL1	ug/L	2450	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Tetrachloroethene	ND	RL1	ug/L	1950	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Toluene	ND	RL1	ug/L	1400	5000	5000	03/11/06 08:26	SW846 8260B	6031174
1,2,3-Trichlorobenzene	ND	RL1	ug/L	2800	10000	5000	03/11/06 08:26	SW846 8260B	6031174
1,2,4-Trichlorobenzene	ND	RL1	ug/L	3950	10000	5000	03/11/06 08:26	SW846 8260B	6031174
1,1,2-Trichloroethane	ND	RL1	ug/L	2100	5000	5000	03/11/06 08:26	SW846 8260B	6031174
1,1,1-Trichloroethane	ND	RL1	ug/L	2000	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Trichloroethene	ND	RL1	ug/L	2250	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Trichlorofluoromethane	ND	RL1	ug/L	2400	5000	5000	03/11/06 08:26	SW846 8260B	6031174
1,2,3-Trichloropropane	ND	RL1	ug/L	2800	5000	5000	03/11/06 08:26	SW846 8260B	6031174
1,3,5-Trimethylbenzene	ND	RL1	ug/L	1400	5000	5000	03/11/06 08:26	SW846 8260B	6031174
1,2,4-Trimethylbenzene	ND	RL1	ug/L	1700	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Vinyl chloride	ND	RL1	ug/L	2150	5000	5000	03/11/06 08:26	SW846 8260B	6031174
Xylenes, total	ND	RL1	ug/L	4100	15000	5000	03/11/06 08:26	SW846 8260B	6031174
Surr: 1,2-Dichloroethane-d4 (70-130%)	*105 %*					*1*	*03/11/06 08:26*	*SW846 8260B*	*6031174*
Surr: Dibromofluoromethane (79-122%)	*104 %*					*1*	*03/11/06 08:26*	*SW846 8260B*	*6031174*
Surr: Toluene-d8 (78-121%)	*103 %*					*1*	*03/11/06 08:26*	*SW846 8260B*	*6031174*
Surr: 4-Bromofluorobenzene (78-126%)	*98 %*					*1*	*03/11/06 08:26*	*SW846 8260B*	*6031174*

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0653
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/04/06 08:00

ANALYTICAL REPORT

Sample ID: NPC0653-03 (P93B03030601 - Ground Water) Sampled: 03/03/06 15:45

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Field Sampling Parameters									
pH	**7.09**		pH Units	NA	NA	1	03/03/06 15:45	EPA 150.1	6031453
Specific conductance	**1160**		uS/cm	NA	0.100	1	03/03/06 15:45	EPA 120.1	6031453
Temperature	**57.9**		°F	0.00	NA	1	03/03/06 15:45	EPA 170.1	6031453
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND	RL1	ug/L	29600	250000	5000	03/11/06 08:50	SW846 8260B	6031174
Benzene	**370000**		ug/L	1450	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Bromobenzene	ND	RL1	ug/L	2350	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Bromochloromethane	ND	RL1	ug/L	2100	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Bromodichloromethane	ND	RL1	ug/L	1900	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Bromoform	ND	RL1	ug/L	2500	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Bromomethane	ND	RL1	ug/L	3000	5000	5000	03/11/06 08:50	SW846 8260B	6031174
2-Butanone	ND	RL1	ug/L	25400	250000	5000	03/11/06 08:50	SW846 8260B	6031174
sec-Butylbenzene	ND	RL1	ug/L	1900	5000	5000	03/11/06 08:50	SW846 8260B	6031174
n-Butylbenzene	ND	RL1	ug/L	2300	5000	5000	03/11/06 08:50	SW846 8260B	6031174
tert-Butylbenzene	ND	RL1	ug/L	1950	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Carbon disulfide	ND	RL1	ug/L	1550	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Carbon Tetrachloride	ND	RL1	ug/L	2400	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Chlorobenzene	ND	RL1	ug/L	1600	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Chlorodibromomethane	ND	RL1	ug/L	1800	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Chloroethane	ND	RL1	ug/L	2500	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Chloroform	ND	RL1	ug/L	1900	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Chloromethane	ND	RL1	ug/L	2300	5000	5000	03/11/06 08:50	SW846 8260B	6031174
2-Chlorotoluene	ND	RL1	ug/L	1350	5000	5000	03/11/06 08:50	SW846 8260B	6031174
4-Chlorotoluene	ND	RL1	ug/L	1850	5000	5000	03/11/06 08:50	SW846 8260B	6031174
1,2-Dibromo-3-chloropropane	ND	RL1	ug/L	8200	25000	5000	03/11/06 08:50	SW846 8260B	6031174
1,2-Dibromoethane (EDB)	ND	RL1	ug/L	1900	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Dibromomethane	ND	RL1	ug/L	2850	5000	5000	03/11/06 08:50	SW846 8260B	6031174
1,4-Dichlorobenzene	ND	RL1	ug/L	2300	5000	5000	03/11/06 08:50	SW846 8260B	6031174
1,3-Dichlorobenzene	ND	RL1	ug/L	1800	5000	5000	03/11/06 08:50	SW846 8260B	6031174
1,2-Dichlorobenzene	ND	RL1	ug/L	1850	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Dichlorodifluoromethane	ND	RL1	ug/L	2050	5000	5000	03/11/06 08:50	SW846 8260B	6031174
1,1-Dichloroethane	ND	RL1	ug/L	1600	5000	5000	03/11/06 08:50	SW846 8260B	6031174
1,2-Dichloroethane	ND	RL1	ug/L	1400	5000	5000	03/11/06 08:50	SW846 8260B	6031174
cis-1,2-Dichloroethene	ND	RL1	ug/L	1950	5000	5000	03/11/06 08:50	SW846 8260B	6031174
1,1-Dichloroethene	ND	RL1	ug/L	2250	5000	5000	03/11/06 08:50	SW846 8260B	6031174
trans-1,2-Dichloroethene	ND	RL1	ug/L	1700	5000	5000	03/11/06 08:50	SW846 8260B	6031174
1,3-Dichloropropane	ND	RL1	ug/L	3150	5000	5000	03/11/06 08:50	SW846 8260B	6031174
1,2-Dichloropropane	ND	RL1	ug/L	2500	5000	5000	03/11/06 08:50	SW846 8260B	6031174
2,2-Dichloropropane	ND	RL1	ug/L	3300	5000	5000	03/11/06 08:50	SW846 8260B	6031174
cis-1,3-Dichloropropene	ND	RL1	ug/L	2250	5000	5000	03/11/06 08:50	SW846 8260B	6031174
trans-1,3-Dichloropropene	ND	RL1	ug/L	2450	5000	5000	03/11/06 08:50	SW846 8260B	6031174
1,1-Dichloropropene	ND	RL1	ug/L	2550	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Ethylbenzene	ND	RL1	ug/L	1700	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Hexachlorobutadiene	ND	RL1	ug/L	3350	5000	5000	03/11/06 08:50	SW846 8260B	6031174

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0653
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/04/06 08:00

ANALYTICAL REPORT

Sample ID: NPC0653-03 (P93B03030601 - Ground Water) - cont. Sampled: 03/03/06 15:45

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
2-Hexanone	ND	RL1	ug/L	12600	250000	5000	03/11/06 08:50	SW846 8260B	6031174
Isopropylbenzene	ND	RL1	ug/L	1700	5000	5000	03/11/06 08:50	SW846 8260B	6031174
p-Isopropyltoluene	ND	RL1	ug/L	1700	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Methyl tert-Butyl Ether	**2350**	RL1, J	ug/L	1600	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Methylene Chloride	ND	RL1	ug/L	6300	25000	5000	03/11/06 08:50	SW846 8260B	6031174
4-Methyl-2-pentanone	ND	RL1	ug/L	21200	250000	5000	03/11/06 08:50	SW846 8260B	6031174
Naphthalene	ND	RL1	ug/L	5650	25000	5000	03/11/06 08:50	SW846 8260B	6031174
n-Propylbenzene	ND	RL1	ug/L	1850	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Styrene	ND	RL1	ug/L	1950	5000	5000	03/11/06 08:50	SW846 8260B	6031174
1,1,1,2-Tetrachloroethane	ND	RL1	ug/L	1850	5000	5000	03/11/06 08:50	SW846 8260B	6031174
1,1,2,2-Tetrachloroethane	ND	RL1	ug/L	2450	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Tetrachloroethene	ND	RL1	ug/L	1950	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Toluene	ND	RL1	ug/L	1400	5000	5000	03/11/06 08:50	SW846 8260B	6031174
1,2,3-Trichlorobenzene	ND	RL1	ug/L	2800	10000	5000	03/11/06 08:50	SW846 8260B	6031174
1,2,4-Trichlorobenzene	ND	RL1	ug/L	3950	10000	5000	03/11/06 08:50	SW846 8260B	6031174
1,1,2-Trichloroethane	ND	RL1	ug/L	2100	5000	5000	03/11/06 08:50	SW846 8260B	6031174
1,1,1-Trichloroethane	ND	RL1	ug/L	2000	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Trichloroethene	ND	RL1	ug/L	2250	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Trichlorofluoromethane	ND	RL1	ug/L	2400	5000	5000	03/11/06 08:50	SW846 8260B	6031174
1,2,3-Trichloropropane	ND	RL1	ug/L	2800	5000	5000	03/11/06 08:50	SW846 8260B	6031174
1,3,5-Trimethylbenzene	ND	RL1	ug/L	1400	5000	5000	03/11/06 08:50	SW846 8260B	6031174
1,2,4-Trimethylbenzene	ND	RL1	ug/L	1700	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Vinyl chloride	ND	RL1	ug/L	2150	5000	5000	03/11/06 08:50	SW846 8260B	6031174
Xylenes, total	ND	RL1	ug/L	4100	15000	5000	03/11/06 08:50	SW846 8260B	6031174
Surr: 1,2-Dichloroethane-d4 (70-130%)	*107 %*					*1*	*03/11/06 08:50*	*SW846 8260B*	*6031174*
Surr: Dibromofluoromethane (79-122%)	*105 %*					*1*	*03/11/06 08:50*	*SW846 8260B*	*6031174*
Surr: Toluene-d8 (78-121%)	*105 %*					*1*	*03/11/06 08:50*	*SW846 8260B*	*6031174*
Surr: 4-Bromofluorobenzene (78-126%)	*100 %*					*1*	*03/11/06 08:50*	*SW846 8260B*	*6031174*

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0653
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/04/06 08:00

ANALYTICAL REPORT

Sample ID: NPC0653-04 (P5703030601 - Ground Water) Sampled: 03/03/06 15:50

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Field Sampling Parameters									
pH	**6.72**		pH Units	NA	NA	1	03/03/06 15:50	EPA 150.1	6031453
Specific conductance	**1220**		uS/cm	NA	0.100	1	03/03/06 15:50	EPA 120.1	6031453
Temperature	**55.8**		°F	0.00	NA	1	03/03/06 15:50	EPA 170.1	6031453
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND	RL1	ug/L	5910	50000	1000	03/11/06 03:29	SW846 8260B	6031174
Benzene	**177000**		ug/L	290	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Bromobenzene	ND	RL1	ug/L	470	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Bromochloromethane	ND	RL1	ug/L	420	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Bromodichloromethane	ND	RL1	ug/L	380	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Bromoform	ND	RL1	ug/L	500	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Bromomethane	ND	RL1	ug/L	600	1000	1000	03/11/06 03:29	SW846 8260B	6031174
2-Butanone	ND	RL1	ug/L	5090	50000	1000	03/11/06 03:29	SW846 8260B	6031174
sec-Butylbenzene	ND	RL1	ug/L	380	1000	1000	03/11/06 03:29	SW846 8260B	6031174
n-Butylbenzene	ND	RL1	ug/L	460	1000	1000	03/11/06 03:29	SW846 8260B	6031174
tert-Butylbenzene	ND	RL1	ug/L	390	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Carbon disulfide	ND	RL1	ug/L	310	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Carbon Tetrachloride	ND	RL1	ug/L	480	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Chlorobenzene	ND	RL1	ug/L	320	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Chlorodibromomethane	ND	RL1	ug/L	360	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Chloroethane	ND	RL1	ug/L	500	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Chloroform	ND	RL1	ug/L	380	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Chloromethane	ND	RL1	ug/L	460	1000	1000	03/11/06 03:29	SW846 8260B	6031174
2-Chlorotoluene	ND	RL1	ug/L	270	1000	1000	03/11/06 03:29	SW846 8260B	6031174
4-Chlorotoluene	ND	RL1	ug/L	370	1000	1000	03/11/06 03:29	SW846 8260B	6031174
1,2-Dibromo-3-chloropropane	ND	RL1	ug/L	1640	5000	1000	03/11/06 03:29	SW846 8260B	6031174
1,2-Dibromoethane (EDB)	ND	RL1	ug/L	380	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Dibromomethane	ND	RL1	ug/L	570	1000	1000	03/11/06 03:29	SW846 8260B	6031174
1,4-Dichlorobenzene	ND	RL1	ug/L	460	1000	1000	03/11/06 03:29	SW846 8260B	6031174
1,3-Dichlorobenzene	ND	RL1	ug/L	360	1000	1000	03/11/06 03:29	SW846 8260B	6031174
1,2-Dichlorobenzene	ND	RL1	ug/L	370	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Dichlorodifluoromethane	ND	RL1	ug/L	410	1000	1000	03/11/06 03:29	SW846 8260B	6031174
1,1-Dichloroethane	ND	RL1	ug/L	320	1000	1000	03/11/06 03:29	SW846 8260B	6031174
1,2-Dichloroethane	ND	RL1	ug/L	280	1000	1000	03/11/06 03:29	SW846 8260B	6031174
cis-1,2-Dichloroethene	ND	RL1	ug/L	390	1000	1000	03/11/06 03:29	SW846 8260B	6031174
1,1-Dichloroethene	ND	RL1	ug/L	450	1000	1000	03/11/06 03:29	SW846 8260B	6031174
trans-1,2-Dichloroethene	ND	RL1	ug/L	340	1000	1000	03/11/06 03:29	SW846 8260B	6031174
1,3-Dichloropropane	ND	RL1	ug/L	630	1000	1000	03/11/06 03:29	SW846 8260B	6031174
1,2-Dichloropropane	ND	RL1	ug/L	500	1000	1000	03/11/06 03:29	SW846 8260B	6031174
2,2-Dichloropropane	ND	RL1	ug/L	660	1000	1000	03/11/06 03:29	SW846 8260B	6031174
cis-1,3-Dichloropropene	ND	RL1	ug/L	450	1000	1000	03/11/06 03:29	SW846 8260B	6031174
trans-1,3-Dichloropropene	ND	RL1	ug/L	490	1000	1000	03/11/06 03:29	SW846 8260B	6031174
1,1-Dichloropropene	ND	RL1	ug/L	510	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Ethylbenzene	**1120**		ug/L	340	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Hexachlorobutadiene	ND	RL1	ug/L	670	1000	1000	03/11/06 03:29	SW846 8260B	6031174

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0653
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/04/06 08:00

ANALYTICAL REPORT

Sample ID: NPC0653-04 (P5703030601 - Ground Water) - cont. Sampled: 03/03/06 15:50

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
2-Hexanone	ND	RL1	ug/L	2530	50000	1000	03/11/06 03:29	SW846 8260B	6031174
Isopropylbenzene	ND	RL1	ug/L	340	1000	1000	03/11/06 03:29	SW846 8260B	6031174
p-Isopropyltoluene	ND	RL1	ug/L	340	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Methyl tert-Butyl Ether	ND	RL1	ug/L	320	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Methylene Chloride	~~1400~~ ND	~~J, RL1~~ U	ug/L	1260	~~5000~~ 5000	1000	03/11/06 03:29	SW846 8260B	6031174
4-Methyl-2-pentanone	ND	RL1	ug/L	4250	50000	1000	03/11/06 03:29	SW846 8260B	6031174
Naphthalene	ND	RL1	ug/L	1130	5000	1000	03/11/06 03:29	SW846 8260B	6031174
n-Propylbenzene	ND	RL1	ug/L	370	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Styrene	ND	RL1	ug/L	390	1000	1000	03/11/06 03:29	SW846 8260B	6031174
1,1,1,2-Tetrachloroethane	ND	RL1	ug/L	370	1000	1000	03/11/06 03:29	SW846 8260B	6031174
1,1,2,2-Tetrachloroethane	ND	RL1	ug/L	490	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Tetrachloroethene	ND	RL1	ug/L	390	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Toluene	ND	RL1	ug/L	280	1000	1000	03/11/06 03:29	SW846 8260B	6031174
1,2,3-Trichlorobenzene	ND	RL1	ug/L	560	2000	1000	03/11/06 03:29	SW846 8260B	6031174
1,2,4-Trichlorobenzene	ND	RL1	ug/L	790	2000	1000	03/11/06 03:29	SW846 8260B	6031174
1,1,2-Trichloroethane	ND	RL1	ug/L	420	1000	1000	03/11/06 03:29	SW846 8260B	6031174
1,1,1-Trichloroethane	ND	RL1	ug/L	400	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Trichloroethene	ND	RL1	ug/L	450	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Trichlorofluoromethane	ND	RL1	ug/L	480	1000	1000	03/11/06 03:29	SW846 8260B	6031174
1,2,3-Trichloropropane	ND	RL1	ug/L	560	1000	1000	03/11/06 03:29	SW846 8260B	6031174
1,3,5-Trimethylbenzene	ND	RL1	ug/L	280	1000	1000	03/11/06 03:29	SW846 8260B	6031174
1,2,4-Trimethylbenzene	ND	RL1	ug/L	340	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Vinyl chloride	ND	RL1	ug/L	430	1000	1000	03/11/06 03:29	SW846 8260B	6031174
Xylenes, total	**1040**	J, RL1	ug/L	820	3000	1000	03/11/06 03:29	SW846 8260B	6031174
Surr: 1,2-Dichloroethane-d4 (70-130%)	*103 %*					*1*	*03/11/06 03:29*	*SW846 8260B*	*6031174*
Surr: Dibromofluoromethane (79-122%)	*105 %*					*1*	*03/11/06 03:29*	*SW846 8260B*	*6031174*
Surr: Toluene-d8 (78-121%)	*102 %*					*1*	*03/11/06 03:29*	*SW846 8260B*	*6031174*
Surr: 4-Bromofluorobenzene (78-126%)	*101 %*					*1*	*03/11/06 03:29*	*SW846 8260B*	*6031174*

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0653
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/04/06 08:00

ANALYTICAL REPORT

Sample ID: NPC0653-05 (03030602TB - Ground Water) Sampled: 03/03/06 00:01

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	ND		ug/L	5.91	50.0	1	03/08/06 05:23	SW846 8260B	6031695
Benzene	ND		ug/L	0.290	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Bromobenzene	ND		ug/L	0.470	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Bromochloromethane	ND		ug/L	0.420	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Bromodichloromethane	ND		ug/L	0.380	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Bromoform	ND		ug/L	0.500	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Bromomethane	ND		ug/L	0.600	1.00	1	03/08/06 05:23	SW846 8260B	6031695
2-Butanone	ND		ug/L	5.09	50.0	1	03/08/06 05:23	SW846 8260B	6031695
sec-Butylbenzene	ND		ug/L	0.380	1.00	1	03/08/06 05:23	SW846 8260B	6031695
n-Butylbenzene	ND		ug/L	0.460	1.00	1	03/08/06 05:23	SW846 8260B	6031695
tert-Butylbenzene	ND		ug/L	0.390	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Carbon disulfide	ND		ug/L	0.310	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Carbon Tetrachloride	ND		ug/L	0.480	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Chlorobenzene	ND		ug/L	0.320	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Chloroethane	ND		ug/L	0.500	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Chloroform	ND		ug/L	0.380	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Chloromethane	ND		ug/L	0.460	1.00	1	03/08/06 05:23	SW846 8260B	6031695
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	03/08/06 05:23	SW846 8260B	6031695
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	03/08/06 05:23	SW846 8260B	6031695
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	03/08/06 05:23	SW846 8260B	6031695
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Dibromomethane	ND		ug/L	0.570	1.00	1	03/08/06 05:23	SW846 8260B	6031695
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	03/08/06 05:23	SW846 8260B	6031695
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	03/08/06 05:23	SW846 8260B	6031695
1,2-Dichlorobenzene	ND		ug/L	0.370	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	03/08/06 05:23	SW846 8260B	6031695
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	03/08/06 05:23	SW846 8260B	6031695
1,2-Dichloroethane	ND		ug/L	0.280	1.00	1	03/08/06 05:23	SW846 8260B	6031695
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	03/08/06 05:23	SW846 8260B	6031695
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	03/08/06 05:23	SW846 8260B	6031695
trans-1,2-Dichloroethene	ND		ug/L	0.340	1.00	1	03/08/06 05:23	SW846 8260B	6031695
1,3-Dichloropropane	ND		ug/L	0.630	1.00	1	03/08/06 05:23	SW846 8260B	6031695
1,2-Dichloropropane	ND		ug/L	0.500	1.00	1	03/08/06 05:23	SW846 8260B	6031695
2,2-Dichloropropane	ND		ug/L	0.660	1.00	1	03/08/06 05:23	SW846 8260B	6031695
cis-1,3-Dichloropropene	ND		ug/L	0.450	1.00	1	03/08/06 05:23	SW846 8260B	6031695
trans-1,3-Dichloropropene	ND		ug/L	0.490	1.00	1	03/08/06 05:23	SW846 8260B	6031695
1,1-Dichloropropene	ND		ug/L	0.510	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Ethylbenzene	ND		ug/L	0.340	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Hexachlorobutadiene	ND		ug/L	0.670	1.00	1	03/08/06 05:23	SW846 8260B	6031695
2-Hexanone	ND		ug/L	2.53	50.0	1	03/08/06 05:23	SW846 8260B	6031695
Isopropylbenzene	ND		ug/L	0.340	1.00	1	03/08/06 05:23	SW846 8260B	6031695
p-Isopropyltoluene	ND		ug/L	0.340	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Methyl tert-Butyl Ether	ND		ug/L	0.320	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Methylene Chloride	ND		ug/L	1.26	5.00	1	03/08/06 05:23	SW846 8260B	6031695

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Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPC0653
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 03/04/06 08:00

ANALYTICAL REPORT

Sample ID: NPC0653-05 (03030602TB - Ground Water) - cont. Sampled: 03/03/06 00:01

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	03/08/06 05:23	SW846 8260B	6031695
Naphthalene	ND		ug/L	1.13	5.00	1	03/08/06 05:23	SW846 8260B	6031695
n-Propylbenzene	ND		ug/L	0.370	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Styrene	ND		ug/L	0.390	1.00	1	03/08/06 05:23	SW846 8260B	6031695
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	03/08/06 05:23	SW846 8260B	6031695
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Tetrachloroethene	ND		ug/L	0.390	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Toluene	ND		ug/L	0.280	1.00	1	03/08/06 05:23	SW846 8260B	6031695
1,2,3-Trichlorobenzene	ND		ug/L	0.560	2.00	1	03/08/06 05:23	SW846 8260B	6031695
1,2,4-Trichlorobenzene	ND		ug/L	0.790	2.00	1	03/08/06 05:23	SW846 8260B	6031695
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	03/08/06 05:23	SW846 8260B	6031695
1,1,1-Trichloroethane	ND		ug/L	0.400	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Trichloroethene	ND		ug/L	0.450	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Trichlorofluoromethane	ND		ug/L	0.480	1.00	1	03/08/06 05:23	SW846 8260B	6031695
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	03/08/06 05:23	SW846 8260B	6031695
1,3,5-Trimethylbenzene	ND		ug/L	0.280	1.00	1	03/08/06 05:23	SW846 8260B	6031695
1,2,4-Trimethylbenzene	ND		ug/L	0.340	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Vinyl chloride	ND		ug/L	0.430	1.00	1	03/08/06 05:23	SW846 8260B	6031695
Xylenes, total	ND		ug/L	0.820	3.00	1	03/08/06 05:23	SW846 8260B	6031695
Surr: 1,2-Dichloroethane-d4 (70-130%)	*83 %*					*1*	*03/08/06 05:23*	*SW846 8260B*	*6031695*
Surr: Dibromofluoromethane (79-122%)	*98 %*					*1*	*03/08/06 05:23*	*SW846 8260B*	*6031695*
Surr: Toluene-d8 (78-121%)	*97 %*					*1*	*03/08/06 05:23*	*SW846 8260B*	*6031695*
Surr: 4-Bromofluorobenzene (78-126%)	*102 %*					*1*	*03/08/06 05:23*	*SW846 8260B*	*6031695*

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	URS Corporation (St. Louis)/SHELL (13668)	Work Order:	NPC0653
	1001 Highlands Plaza Dr. West, Suite 300	Project Name:	West Fenceline P-93 Project
	St. Louis, MO 63110	Project Number:	SAP 340061
Attn	Jeff Adams	Received:	03/04/06 08:00

DATA QUALIFIERS AND DEFINITIONS

J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
R2	The RPD exceeded the acceptance limit.
RL1	Reporting limit raised due to sample matrix effects.
RL5	Reporting limit raised due to high single peak analyte.

METHOD MODIFICATION NOTES

NPC0653

TEST AME 03/09/06 17:00 HTON, NASHVILLE, TN 37204 PHONE 800-765-0980 FAX# 616-726-3404

Shell Oil Products US Chain Of Custody Record

☐ 7602 Commerce Drive, [illegible] Phone 800-833-7036
☐ 704 Enterprise Drive, Cedar Falls, IA 50613 Phone 319-277-2401
☐ 14500 Trinity Blvd., Suite 106, Fort Worth, TX 76155 Phone 817-571-6800
☐ 3601 South Dixie Drive, Dayton, OH 46439 Phone 800-572-9839
☐ 1380 Busch Parkway, Buffalo Grove, IL 60089 Phone 847-808-7766
☐ 1110 Elkton Drive, Suite A, Colorado Springs, CO 80907 Phone 719-593-9911
☐ Other _____

SOP US Project Manager to be invoiced:
☐ ENVIRONMENTAL SERVICES
☐ TECHNICAL SERVICES
☐ RMT HOUSTON
☐ BILL CONSULTANT

NAME OF PM TO BILL: Herb Hand (SOPUS)
NAME OF TS TO BILL:
☑ SHELL RATES ☐ STATE REIMBURSEMENT RATES

INCIDENT # (S&E ONLY): 9 7 2 1 6 6 4 0
SAP or CRMT # (TS/CRMT):

DATE: 3/3/06
PAGE: 1 of 2

Invoice with _____ sampling events for this site, sampled through the following date: _____

CONSULTANT COMPANY: URS Corporation
ADDRESS: 1001 Highlands Plaza Drive West; Suite 300
CITY: St. Louis, MO 63110
TELEPHONE: (office) 314-429-0100 (cell) 314-409-8460
FAX: (Office) 431-429-0462 (Trailer) 618-254-1512
E-MAIL: Jeff Adams Thomas_Adams@urscorp.com

SITE ADDRESS (Street and City): 900 South Central Avenue, Roxana, IL 62048
PROJECT CONTACT (Report to): Herb Hand (SOPUS) (Copy to): Jeff Adams (URS)
CONSULTANT PROJECT NO.: SOPUS-West Fenceline P-93 Project
SAMPLER NAME(S) (Print):
LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS): ☐ STANDARD (10 DAY) ☑ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

TEMPERATURE ON RECEIPT C°

SPECIAL INSTRUCTIONS OR NOTES :

Level 4 QC Deliverables

REQUESTED ANALYSIS If more than one method is listed, circle one

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOCs Method 8260	TPH-GRO (8015)	TPH-DRO (8015)	8260 / 8015 Moisture	Container PID Readings or Laboratory Notes
	MS030306 01	3/3/06	1052	Gw	X					3	X				NPC0653-01
	P93A030306 01		1430		X					3	X				2
	P93B030306 01		1545		X					3	X				3
	P57030306 01		1550		X					3	X				4
	P93A030306 MS		1435		X					3	X				2
	P93A030306 MSD		1435		X					3	X				2
	030306027B									1	X				5
															6 (3/4/06)

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	3/4/06	8:00
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

05/1/01 Revision

TEST AMERICA

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☐ 704 Enterprise Drive, Cedar Falls, IA 50613 Phone 319-277-2401
☐ 14500 Trinity Blvd., Suite 106, Fort Worth, TX 76155 Phone 817-571-6800
☐ 3601 South Dixie Drive, Dayton, OH 46439 Phone 800-572-9839
☐ 1380 Busch Parkway, Buffalo Grove, IL 60089 Phone 847-808-7766
☐ 1110 Elkton Drive, Suite A, Colorado Springs, CO 80907 Phone 719-593-9911
☐ Other _____

Shell Oil Products US Chain Of Custody Record

SOP US Project Manager to be invoiced:

☐ ENVIRONMENTAL SERVICES
☐ TECHNICAL SERVICES
☐ RMT HOUSTON
☐ BILL CONSULTANT

NAME OF PM TO BILL: Herb Hand (SOPUS)

NAME OF TS TO BILL:

☑ SHELL RATES ☐ STATE REIMBURSEMENT RATES

INCIDENT # (S&E ONLY)

9	7	2	1	6	6	4	0

SAP or CRMT # (TS/CRMT)

DATE: 3/3/06
PAGE: 2 of 2

Invoice with _____ sampling events for this site, sampled through the following date: _____

CONSULTANT COMPANY: URS Corporation

ADDRESS: 1001 Highlands Plaza Drive West; Suite 300

CITY: St. Louis, MO 63110

TELEPHONE: (office) 314-429-0100 (cell) 314-409-8460

FAX: (Office) 314-429-0462 (Trailer) 618-254-1612

E-MAIL: Jeff Adams Thomas_Adams@urscorp.com

SITE ADDRESS (Street and City): 900 South Central Avenue, Roxana, IL 62048

PROJECT CONTACT (Report to): Herb Hand (SOPUS) (Copy to): Jeff Adams (URS)

CONSULTANT PROJECT NO.: SOPUS-West Fenceline P-93 Project

SAMPLER NAME(S) (Print):

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☐ STANDARD (10 DAY) ☑ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

TEMPERATURE ON RECEIPT C°

SPECIAL INSTRUCTIONS OR NOTES :

Level 4 QC Deliverables

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	FIELD PARAMETERS TEMPERATURE (F)	pH	CONDUCTIVITY (see units below)
	P7503030601	3/3/06	1030	61.7	6.45	1720 mS/cm
	P93A03030601	↓	1430	62.6	6.61	1072 mS/cm
	P93B03030601		1545	57.92	7.09	1161 mS/cm
	P5703030601		1550	55.76	6.72	1218 mS/cm

West Fenceline Data Review

Laboratory SDG: NPD0520

Reviewer: Tony Sedlacek

Date Reviewed: 2/11/2007

Guidance: USEPA Contract Laboratory National Functional Guidelines for Organic Data Review (USEPA 1999).

Applicable Work Plan: West Fenceline P-93 Dissolved Phase Benzene Investigation (2006)

Sample Identification #	Sample Identification #
P9302GWP43	P9302GWP59
P9311GWP41	TB04050601

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

No, the laboratory case narrative did not indicate any problems although samples were diluted due to high levels of target analytes. This issue is addressed further in the appropriate sections below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within QAPP limits?

Yes

Field ID	Parameter	Analyte	Qualification
N/A			

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

Blank ID	Parameter	Analyte	Concentration	Units
N/A				

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Field ID	Parameter	Analyte	New RL	Qualification
N/A				

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria
N/A					

Analytical data that required qualification based on LCS data are included in the table below. Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
N/A			

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

Field ID	Parameter	Surrogate	Recovery	Criteria
N/A				

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
N/A			

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples reported as part of this SDG?

No

Were MS/MSD recoveries within evaluation criteria?

N/A

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
N/A					

Analytical data that required qualification based on MS/MSD data are included in the table below.

Field ID	Parameter	Analyte	Qualification
N/A			

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

Were laboratory duplicate sample RPDs within criteria?

N/A

Field ID	Parameter	Analyte	RPD	Criteria
N/A				

Data qualified due to outlying laboratory duplicate recoveries are identified below:

Field ID	Parameter	Analyte	Qualification
N/A			

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

Field ID	Field Duplicate ID
N/A	

Were field duplicates within evaluation criteria?

N/A

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
N/A					

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

No

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run ***was not*** reported:

Field ID	Parameter	Dilution Factor
P9302GWP43	VOCs	10000
P9302GWP59	VOCs	10000
P9311GWP41	VOCs	10000

11.0 Additional Qualifications

Were additional qualifications applied?

No

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

May 25, 2006

Client: URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn: Amelia Turnell

Work Order: NPD0520
Project Name: West Fenceline P-93 Project
Project Nbr: SAP 340061
P/O Nbr: 97216640
Date Received: 04/06/06

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
P9302GWP43	NPD0520-01	04/05/06 13:30
P9302GWP59	NPD0520-02	04/05/06 15:15
P9311GWP41	NPD0520-03	04/05/06 17:20
TB04050601	NPD0520-04	04/05/06 00:01

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

Additional Laboratory Comments:
Samples were properly preserved and received in good condition on 04/06/06. Analyses were performed within method required holding times. There were no anomalies noted at sample log-in. MS/MSD was not performed due to insufficient sample volume. All QC results were within acceptable limits. Please note: Reporting limits are elevated due to sample matrix effects. See Data Qualifiers and Definitions at end of this report for further explanation. Initial and Continuing Calibration requirements were met.

As you review this data package, please call me if you require any additional information at # 1-800-765-0980.
Illinois Certification Number: 001177

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By:

Sandra McMillin
Senior Project Manager

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Amelia Turnell

Work Order: NPD0520
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 04/06/06 08:00

ANALYTICAL REPORT

Sample ID: NPD0520-01 (P9302GWP43 - Water) Sampled: 04/05/06 13:30

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	ND	RL1	ug/L	59100	500000	10000	04/11/06 02:44	SW846 8260B	6041767
Benzene	**1310000**	RL1	ug/L	2900	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Bromobenzene	ND	RL1	ug/L	4700	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Bromochloromethane	ND	RL1	ug/L	4200	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Bromodichloromethane	ND	RL1	ug/L	3800	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Bromoform	ND	RL1	ug/L	5000	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Bromomethane	ND	RL1	ug/L	6000	10000	10000	04/11/06 02:44	SW846 8260B	6041767
2-Butanone	ND	RL1	ug/L	50900	500000	10000	04/11/06 02:44	SW846 8260B	6041767
sec-Butylbenzene	ND	RL1	ug/L	3800	10000	10000	04/11/06 02:44	SW846 8260B	6041767
n-Butylbenzene	ND	RL1	ug/L	4600	10000	10000	04/11/06 02:44	SW846 8260B	6041767
tert-Butylbenzene	ND	RL1	ug/L	3900	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Carbon disulfide	ND	RL1	ug/L	3100	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Carbon Tetrachloride	ND	RL1	ug/L	4800	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Chlorobenzene	ND	RL1	ug/L	3200	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Chlorodibromomethane	ND	RL1	ug/L	3600	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Chloroethane	ND	RL1	ug/L	5000	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Chloroform	ND	RL1	ug/L	3800	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Chloromethane	ND	RL1	ug/L	4600	10000	10000	04/11/06 02:44	SW846 8260B	6041767
2-Chlorotoluene	ND	RL1	ug/L	2700	10000	10000	04/11/06 02:44	SW846 8260B	6041767
4-Chlorotoluene	ND	RL1	ug/L	3700	10000	10000	04/11/06 02:44	SW846 8260B	6041767
1,2-Dibromo-3-chloropropane	ND	RL1	ug/L	16400	50000	10000	04/11/06 02:44	SW846 8260B	6041767
1,2-Dibromoethane (EDB)	ND	RL1	ug/L	3800	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Dibromomethane	ND	RL1	ug/L	5700	10000	10000	04/11/06 02:44	SW846 8260B	6041767
1,4-Dichlorobenzene	ND	RL1	ug/L	4600	10000	10000	04/11/06 02:44	SW846 8260B	6041767
1,3-Dichlorobenzene	ND	RL1	ug/L	3600	10000	10000	04/11/06 02:44	SW846 8260B	6041767
1,2-Dichlorobenzene	ND	RL1	ug/L	3700	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Dichlorodifluoromethane	ND	RL1	ug/L	4100	10000	10000	04/11/06 02:44	SW846 8260B	6041767
1,1-Dichloroethane	ND	RL1	ug/L	3200	10000	10000	04/11/06 02:44	SW846 8260B	6041767
1,2-Dichloroethane	ND	RL1	ug/L	2800	10000	10000	04/11/06 02:44	SW846 8260B	6041767
cis-1,2-Dichloroethene	ND	RL1	ug/L	3900	10000	10000	04/11/06 02:44	SW846 8260B	6041767
1,1-Dichloroethene	ND	RL1	ug/L	4500	10000	10000	04/11/06 02:44	SW846 8260B	6041767
trans-1,2-Dichloroethene	ND	RL1	ug/L	3400	10000	10000	04/11/06 02:44	SW846 8260B	6041767
1,3-Dichloropropane	ND	RL1	ug/L	6300	10000	10000	04/11/06 02:44	SW846 8260B	6041767
1,2-Dichloropropane	ND	RL1	ug/L	5000	10000	10000	04/11/06 02:44	SW846 8260B	6041767
2,2-Dichloropropane	ND	RL1	ug/L	6600	10000	10000	04/11/06 02:44	SW846 8260B	6041767
cis-1,3-Dichloropropene	ND	RL1	ug/L	4500	10000	10000	04/11/06 02:44	SW846 8260B	6041767
trans-1,3-Dichloropropene	ND	RL1	ug/L	4900	10000	10000	04/11/06 02:44	SW846 8260B	6041767
1,1-Dichloropropene	ND	RL1	ug/L	5100	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Ethylbenzene	**6200**	RL1, J	ug/L	3400	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Hexachlorobutadiene	ND	RL1	ug/L	6700	10000	10000	04/11/06 02:44	SW846 8260B	6041767
2-Hexanone	ND	RL1	ug/L	25300	500000	10000	04/11/06 02:44	SW846 8260B	6041767
Isopropylbenzene	ND	RL1	ug/L	3400	10000	10000	04/11/06 02:44	SW846 8260B	6041767
p-Isopropyltoluene	ND	RL1	ug/L	3400	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Methyl tert-Butyl Ether	ND	RL1	ug/L	3200	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Methylene Chloride	ND	RL1	ug/L	12600	50000	10000	04/11/06 02:44	SW846 8260B	6041767

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Amelia Turnell

Work Order: NPD0520
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 04/06/06 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPD0520-01 (P9302GWP43 - Water) - cont. Sampled: 04/05/06 13:30									
Volatile Organic Compounds by EPA Method 8260B - cont.									
4-Methyl-2-pentanone	ND	RL1	ug/L	42500	500000	10000	04/11/06 02:44	SW846 8260B	6041767
Naphthalene	ND	RL1	ug/L	11300	50000	10000	04/11/06 02:44	SW846 8260B	6041767
n-Propylbenzene	ND	RL1	ug/L	3700	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Styrene	ND	RL1	ug/L	3900	10000	10000	04/11/06 02:44	SW846 8260B	6041767
1,1,1,2-Tetrachloroethane	ND	RL1	ug/L	3700	10000	10000	04/11/06 02:44	SW846 8260B	6041767
1,1,2,2-Tetrachloroethane	ND	RL1	ug/L	4900	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Tetrachloroethene	ND	RL1	ug/L	3900	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Toluene	**29500**	RL1	ug/L	2800	10000	10000	04/11/06 02:44	SW846 8260B	6041767
1,2,3-Trichlorobenzene	ND	RL1	ug/L	5600	20000	10000	04/11/06 02:44	SW846 8260B	6041767
1,2,4-Trichlorobenzene	ND	RL1	ug/L	7900	20000	10000	04/11/06 02:44	SW846 8260B	6041767
1,1,2-Trichloroethane	ND	RL1	ug/L	4200	10000	10000	04/11/06 02:44	SW846 8260B	6041767
1,1,1-Trichloroethane	ND	RL1	ug/L	4000	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Trichloroethene	ND	RL1	ug/L	4500	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Trichlorofluoromethane	ND	RL1	ug/L	4800	10000	10000	04/11/06 02:44	SW846 8260B	6041767
1,2,3-Trichloropropane	ND	RL1	ug/L	5600	10000	10000	04/11/06 02:44	SW846 8260B	6041767
1,3,5-Trimethylbenzene	ND	RL1	ug/L	2800	10000	10000	04/11/06 02:44	SW846 8260B	6041767
1,2,4-Trimethylbenzene	**9800**	J, RL1	ug/L	3400	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Vinyl chloride	ND	RL1	ug/L	4300	10000	10000	04/11/06 02:44	SW846 8260B	6041767
Xylenes, total	**26400**	RL1, J	ug/L	8200	30000	10000	04/11/06 02:44	SW846 8260B	6041767
Surr: 1,2-Dichloroethane-d4 (70-130%)	*85 %*					*1*	*04/11/06 02:44*	*SW846 8260B*	*6041767*
Surr: Dibromofluoromethane (79-122%)	*94 %*					*1*	*04/11/06 02:44*	*SW846 8260B*	*6041767*
Surr: Toluene-d8 (78-121%)	*98 %*					*1*	*04/11/06 02:44*	*SW846 8260B*	*6041767*
Surr: 4-Bromofluorobenzene (78-126%)	*91 %*					*1*	*04/11/06 02:44*	*SW846 8260B*	*6041767*
Sample ID: NPD0520-02 (P9302GWP59 - Water) Sampled: 04/05/06 15:15									
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND	RL1	ug/L	59100	500000	10000	04/11/06 02:19	SW846 8260B	6041767
Benzene	**264000**	RL1	ug/L	2900	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Bromobenzene	ND	RL1	ug/L	4700	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Bromochloromethane	ND	RL1	ug/L	4200	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Bromodichloromethane	ND	RL1	ug/L	3800	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Bromoform	ND	RL1	ug/L	5000	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Bromomethane	ND	RL1	ug/L	6000	10000	10000	04/11/06 02:19	SW846 8260B	6041767
2-Butanone	ND	RL1	ug/L	50900	500000	10000	04/11/06 02:19	SW846 8260B	6041767
sec-Butylbenzene	ND	RL1	ug/L	3800	10000	10000	04/11/06 02:19	SW846 8260B	6041767
n-Butylbenzene	ND	RL1	ug/L	4600	10000	10000	04/11/06 02:19	SW846 8260B	6041767
tert-Butylbenzene	ND	RL1	ug/L	3900	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Carbon disulfide	ND	RL1	ug/L	3100	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Carbon Tetrachloride	ND	RL1	ug/L	4800	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Chlorobenzene	ND	RL1	ug/L	3200	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Chlorodibromomethane	ND	RL1	ug/L	3600	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Chloroethane	ND	RL1	ug/L	5000	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Chloroform	ND	RL1	ug/L	3800	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Chloromethane	ND	RL1	ug/L	4600	10000	10000	04/11/06 02:19	SW846 8260B	6041767

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Amelia Turnell

Work Order: NPD0520
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 04/06/06 08:00

ANALYTICAL REPORT

Sample ID: NPD0520-02 (P9302GWP59 - Water) - cont. Sampled: 04/05/06 15:15

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
2-Chlorotoluene	ND	RL1	ug/L	2700	10000	10000	04/11/06 02:19	SW846 8260B	6041767
4-Chlorotoluene	ND	RL1	ug/L	3700	10000	10000	04/11/06 02:19	SW846 8260B	6041767
1,2-Dibromo-3-chloropropane	ND	RL1	ug/L	16400	50000	10000	04/11/06 02:19	SW846 8260B	6041767
1,2-Dibromoethane (EDB)	ND	RL1	ug/L	3800	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Dibromomethane	ND	RL1	ug/L	5700	10000	10000	04/11/06 02:19	SW846 8260B	6041767
1,4-Dichlorobenzene	ND	RL1	ug/L	4600	10000	10000	04/11/06 02:19	SW846 8260B	6041767
1,3-Dichlorobenzene	ND	RL1	ug/L	3600	10000	10000	04/11/06 02:19	SW846 8260B	6041767
1,2-Dichlorobenzene	ND	RL1	ug/L	3700	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Dichlorodifluoromethane	ND	RL1	ug/L	4100	10000	10000	04/11/06 02:19	SW846 8260B	6041767
1,1-Dichloroethane	ND	RL1	ug/L	3200	10000	10000	04/11/06 02:19	SW846 8260B	6041767
1,2-Dichloroethane	ND	RL1	ug/L	2800	10000	10000	04/11/06 02:19	SW846 8260B	6041767
cis-1,2-Dichloroethene	ND	RL1	ug/L	3900	10000	10000	04/11/06 02:19	SW846 8260B	6041767
1,1-Dichloroethene	ND	RL1	ug/L	4500	10000	10000	04/11/06 02:19	SW846 8260B	6041767
trans-1,2-Dichloroethene	ND	RL1	ug/L	3400	10000	10000	04/11/06 02:19	SW846 8260B	6041767
1,3-Dichloropropane	ND	RL1	ug/L	6300	10000	10000	04/11/06 02:19	SW846 8260B	6041767
1,2-Dichloropropane	ND	RL1	ug/L	5000	10000	10000	04/11/06 02:19	SW846 8260B	6041767
2,2-Dichloropropane	ND	RL1	ug/L	6600	10000	10000	04/11/06 02:19	SW846 8260B	6041767
cis-1,3-Dichloropropene	ND	RL1	ug/L	4500	10000	10000	04/11/06 02:19	SW846 8260B	6041767
trans-1,3-Dichloropropene	ND	RL1	ug/L	4900	10000	10000	04/11/06 02:19	SW846 8260B	6041767
1,1-Dichloropropene	ND	RL1	ug/L	5100	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Ethylbenzene	**10900**	RL1	ug/L	3400	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Hexachlorobutadiene	ND	RL1	ug/L	6700	10000	10000	04/11/06 02:19	SW846 8260B	6041767
2-Hexanone	ND	RL1	ug/L	25300	500000	10000	04/11/06 02:19	SW846 8260B	6041767
Isopropylbenzene	ND	RL1	ug/L	3400	10000	10000	04/11/06 02:19	SW846 8260B	6041767
p-Isopropyltoluene	ND	RL1	ug/L	3400	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Methyl tert-Butyl Ether	ND	RL1	ug/L	3200	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Methylene Chloride	ND	RL1	ug/L	12600	50000	10000	04/11/06 02:19	SW846 8260B	6041767
4-Methyl-2-pentanone	ND	RL1	ug/L	42500	500000	10000	04/11/06 02:19	SW846 8260B	6041767
Naphthalene	ND	RL1	ug/L	11300	50000	10000	04/11/06 02:19	SW846 8260B	6041767
n-Propylbenzene	ND	RL1	ug/L	3700	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Styrene	ND	RL1	ug/L	3900	10000	10000	04/11/06 02:19	SW846 8260B	6041767
1,1,1,2-Tetrachloroethane	ND	RL1	ug/L	3700	10000	10000	04/11/06 02:19	SW846 8260B	6041767
1,1,2,2-Tetrachloroethane	ND	RL1	ug/L	4900	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Tetrachloroethene	ND	RL1	ug/L	3900	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Toluene	**56500**	RL1	ug/L	2800	10000	10000	04/11/06 02:19	SW846 8260B	6041767
1,2,3-Trichlorobenzene	ND	RL1	ug/L	5600	20000	10000	04/11/06 02:19	SW846 8260B	6041767
1,2,4-Trichlorobenzene	ND	RL1	ug/L	7900	20000	10000	04/11/06 02:19	SW846 8260B	6041767
1,1,2-Trichloroethane	ND	RL1	ug/L	4200	10000	10000	04/11/06 02:19	SW846 8260B	6041767
1,1,1-Trichloroethane	ND	RL1	ug/L	4000	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Trichloroethene	ND	RL1	ug/L	4500	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Trichlorofluoromethane	ND	RL1	ug/L	4800	10000	10000	04/11/06 02:19	SW846 8260B	6041767
1,2,3-Trichloropropane	ND	RL1	ug/L	5600	10000	10000	04/11/06 02:19	SW846 8260B	6041767
1,3,5-Trimethylbenzene	**4600**	RL1, J	ug/L	2800	10000	10000	04/11/06 02:19	SW846 8260B	6041767
1,2,4-Trimethylbenzene	**16600**	RL1	ug/L	3400	10000	10000	04/11/06 02:19	SW846 8260B	6041767
Vinyl chloride	ND	RL1	ug/L	4300	10000	10000	04/11/06 02:19	SW846 8260B	6041767

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Amelia Turnell

Work Order: NPD0520
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 04/06/06 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPD0520-02 (P9302GWP59 - Water) - cont. Sampled: 04/05/06 15:15									
Volatile Organic Compounds by EPA Method 8260B - cont.									
Xylenes, total	**48900**	RL1	ug/L	8200	30000	10000	04/11/06 02:19	SW846 8260B	6041767
Surr: 1,2-Dichloroethane-d4 (70-130%)	*84 %*					*1*	*04/11/06 02:19*	*SW846 8260B*	*6041767*
Surr: Dibromofluoromethane (79-122%)	*93 %*					*1*	*04/11/06 02:19*	*SW846 8260B*	*6041767*
Surr: Toluene-d8 (78-121%)	*99 %*					*1*	*04/11/06 02:19*	*SW846 8260B*	*6041767*
Surr: 4-Bromofluorobenzene (78-126%)	*91 %*					*1*	*04/11/06 02:19*	*SW846 8260B*	*6041767*
Sample ID: NPD0520-03 (P9311GWP41 - Water) Sampled: 04/05/06 17:20									
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND	RL1	ug/L	59100	500000	10000	04/11/06 03:09	SW846 8260B	6041767
Benzene	**1060000**	RL1	ug/L	2900	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Bromobenzene	ND	RL1	ug/L	4700	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Bromochloromethane	ND	RL1	ug/L	4200	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Bromodichloromethane	ND	RL1	ug/L	3800	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Bromoform	ND	RL1	ug/L	5000	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Bromomethane	ND	RL1	ug/L	6000	10000	10000	04/11/06 03:09	SW846 8260B	6041767
2-Butanone	ND	RL1	ug/L	50900	500000	10000	04/11/06 03:09	SW846 8260B	6041767
sec-Butylbenzene	ND	RL1	ug/L	3800	10000	10000	04/11/06 03:09	SW846 8260B	6041767
n-Butylbenzene	ND	RL1	ug/L	4600	10000	10000	04/11/06 03:09	SW846 8260B	6041767
tert-Butylbenzene	ND	RL1	ug/L	3900	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Carbon disulfide	ND	RL1	ug/L	3100	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Carbon Tetrachloride	ND	RL1	ug/L	4800	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Chlorobenzene	ND	RL1	ug/L	3200	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Chlorodibromomethane	ND	RL1	ug/L	3600	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Chloroethane	ND	RL1	ug/L	5000	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Chloroform	ND	RL1	ug/L	3800	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Chloromethane	ND	RL1	ug/L	4600	10000	10000	04/11/06 03:09	SW846 8260B	6041767
2-Chlorotoluene	ND	RL1	ug/L	2700	10000	10000	04/11/06 03:09	SW846 8260B	6041767
4-Chlorotoluene	ND	RL1	ug/L	3700	10000	10000	04/11/06 03:09	SW846 8260B	6041767
1,2-Dibromo-3-chloropropane	ND	RL1	ug/L	16400	50000	10000	04/11/06 03:09	SW846 8260B	6041767
1,2-Dibromoethane (EDB)	ND	RL1	ug/L	3800	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Dibromomethane	ND	RL1	ug/L	5700	10000	10000	04/11/06 03:09	SW846 8260B	6041767
1,4-Dichlorobenzene	ND	RL1	ug/L	4600	10000	10000	04/11/06 03:09	SW846 8260B	6041767
1,3-Dichlorobenzene	ND	RL1	ug/L	3600	10000	10000	04/11/06 03:09	SW846 8260B	6041767
1,2-Dichlorobenzene	ND	RL1	ug/L	3700	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Dichlorodifluoromethane	ND	RL1	ug/L	4100	10000	10000	04/11/06 03:09	SW846 8260B	6041767
1,1-Dichloroethane	ND	RL1	ug/L	3200	10000	10000	04/11/06 03:09	SW846 8260B	6041767
1,2-Dichloroethane	ND	RL1	ug/L	2800	10000	10000	04/11/06 03:09	SW846 8260B	6041767
cis-1,2-Dichloroethene	ND	RL1	ug/L	3900	10000	10000	04/11/06 03:09	SW846 8260B	6041767
1,1-Dichloroethene	ND	RL1	ug/L	4500	10000	10000	04/11/06 03:09	SW846 8260B	6041767
trans-1,2-Dichloroethene	ND	RL1	ug/L	3400	10000	10000	04/11/06 03:09	SW846 8260B	6041767
1,3-Dichloropropane	ND	RL1	ug/L	6300	10000	10000	04/11/06 03:09	SW846 8260B	6041767
1,2-Dichloropropane	ND	RL1	ug/L	5000	10000	10000	04/11/06 03:09	SW846 8260B	6041767
2,2-Dichloropropane	ND	RL1	ug/L	6600	10000	10000	04/11/06 03:09	SW846 8260B	6041767
cis-1,3-Dichloropropene	ND	RL1	ug/L	4500	10000	10000	04/11/06 03:09	SW846 8260B	6041767

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Amelia Turnell

Work Order: NPD0520
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 04/06/06 08:00

ANALYTICAL REPORT

Sample ID: NPD0520-03 (P9311GWP41 - Water) - cont. Sampled: 04/05/06 17:20

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
trans-1,3-Dichloropropene	ND	RL1	ug/L	4900	10000	10000	04/11/06 03:09	SW846 8260B	6041767
1,1-Dichloropropene	ND	RL1	ug/L	5100	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Ethylbenzene	ND	RL1	ug/L	3400	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Hexachlorobutadiene	ND	RL1	ug/L	6700	10000	10000	04/11/06 03:09	SW846 8260B	6041767
2-Hexanone	ND	RL1	ug/L	25300	500000	10000	04/11/06 03:09	SW846 8260B	6041767
Isopropylbenzene	ND	RL1	ug/L	3400	10000	10000	04/11/06 03:09	SW846 8260B	6041767
p-Isopropyltoluene	ND	RL1	ug/L	3400	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Methyl tert-Butyl Ether	ND	RL1	ug/L	3200	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Methylene Chloride	ND	RL1	ug/L	12600	50000	10000	04/11/06 03:09	SW846 8260B	6041767
4-Methyl-2-pentanone	ND	RL1	ug/L	42500	500000	10000	04/11/06 03:09	SW846 8260B	6041767
Naphthalene	ND	RL1	ug/L	11300	50000	10000	04/11/06 03:09	SW846 8260B	6041767
n-Propylbenzene	ND	RL1	ug/L	3700	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Styrene	ND	RL1	ug/L	3900	10000	10000	04/11/06 03:09	SW846 8260B	6041767
1,1,1,2-Tetrachloroethane	ND	RL1	ug/L	3700	10000	10000	04/11/06 03:09	SW846 8260B	6041767
1,1,2,2-Tetrachloroethane	ND	RL1	ug/L	4900	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Tetrachloroethene	ND	RL1	ug/L	3900	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Toluene	**17500**	RL1	ug/L	2800	10000	10000	04/11/06 03:09	SW846 8260B	6041767
1,2,3-Trichlorobenzene	ND	RL1	ug/L	5600	20000	10000	04/11/06 03:09	SW846 8260B	6041767
1,2,4-Trichlorobenzene	ND	RL1	ug/L	7900	20000	10000	04/11/06 03:09	SW846 8260B	6041767
1,1,2-Trichloroethane	ND	RL1	ug/L	4200	10000	10000	04/11/06 03:09	SW846 8260B	6041767
1,1,1-Trichloroethane	ND	RL1	ug/L	4000	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Trichloroethene	ND	RL1	ug/L	4500	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Trichlorofluoromethane	ND	RL1	ug/L	4800	10000	10000	04/11/06 03:09	SW846 8260B	6041767
1,2,3-Trichloropropane	ND	RL1	ug/L	5600	10000	10000	04/11/06 03:09	SW846 8260B	6041767
1,3,5-Trimethylbenzene	ND	RL1	ug/L	2800	10000	10000	04/11/06 03:09	SW846 8260B	6041767
1,2,4-Trimethylbenzene	**6400**	RL1, J	ug/L	3400	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Vinyl chloride	ND	RL1	ug/L	4300	10000	10000	04/11/06 03:09	SW846 8260B	6041767
Xylenes, total	**16500**	RL1, J	ug/L	8200	30000	10000	04/11/06 03:09	SW846 8260B	6041767
Surr: 1,2-Dichloroethane-d4 (70-130%)	*85 %*					*1*	*04/11/06 03:09*	*SW846 8260B*	*6041767*
Surr: Dibromofluoromethane (79-122%)	*93 %*					*1*	*04/11/06 03:09*	*SW846 8260B*	*6041767*
Surr: Toluene-d8 (78-121%)	*99 %*					*1*	*04/11/06 03:09*	*SW846 8260B*	*6041767*
Surr: 4-Bromofluorobenzene (78-126%)	*91 %*					*1*	*04/11/06 03:09*	*SW846 8260B*	*6041767*

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Amelia Turnell

Work Order: NPD0520
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 04/06/06 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPD0520-04 (TB04050601 - Water) Sampled: 04/05/06 00:01									
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND		ug/L	5.91	50.0	1	04/07/06 01:49	SW846 8260B	6041267
Benzene	ND		ug/L	0.290	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Bromobenzene	ND		ug/L	0.470	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Bromochloromethane	ND		ug/L	0.420	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Bromodichloromethane	ND		ug/L	0.380	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Bromoform	ND		ug/L	0.500	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Bromomethane	ND		ug/L	0.600	1.00	1	04/07/06 01:49	SW846 8260B	6041267
2-Butanone	ND		ug/L	5.09	50.0	1	04/07/06 01:49	SW846 8260B	6041267
sec-Butylbenzene	ND		ug/L	0.380	1.00	1	04/07/06 01:49	SW846 8260B	6041267
n-Butylbenzene	ND		ug/L	0.460	1.00	1	04/07/06 01:49	SW846 8260B	6041267
tert-Butylbenzene	ND		ug/L	0.390	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Carbon disulfide	ND		ug/L	0.310	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Carbon Tetrachloride	ND		ug/L	0.480	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Chlorobenzene	ND		ug/L	0.320	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Chloroethane	ND		ug/L	0.500	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Chloroform	ND		ug/L	0.380	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Chloromethane	ND		ug/L	0.460	1.00	1	04/07/06 01:49	SW846 8260B	6041267
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	04/07/06 01:49	SW846 8260B	6041267
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	04/07/06 01:49	SW846 8260B	6041267
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	04/07/06 01:49	SW846 8260B	6041267
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Dibromomethane	ND		ug/L	0.570	1.00	1	04/07/06 01:49	SW846 8260B	6041267
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	04/07/06 01:49	SW846 8260B	6041267
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	04/07/06 01:49	SW846 8260B	6041267
1,2-Dichlorobenzene	ND		ug/L	0.370	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	04/07/06 01:49	SW846 8260B	6041267
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	04/07/06 01:49	SW846 8260B	6041267
1,2-Dichloroethane	ND		ug/L	0.280	1.00	1	04/07/06 01:49	SW846 8260B	6041267
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	04/07/06 01:49	SW846 8260B	6041267
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	04/07/06 01:49	SW846 8260B	6041267
trans-1,2-Dichloroethene	ND		ug/L	0.340	1.00	1	04/07/06 01:49	SW846 8260B	6041267
1,3-Dichloropropane	ND		ug/L	0.630	1.00	1	04/07/06 01:49	SW846 8260B	6041267
1,2-Dichloropropane	ND		ug/L	0.500	1.00	1	04/07/06 01:49	SW846 8260B	6041267
2,2-Dichloropropane	ND		ug/L	0.660	1.00	1	04/07/06 01:49	SW846 8260B	6041267
cis-1,3-Dichloropropene	ND		ug/L	0.450	1.00	1	04/07/06 01:49	SW846 8260B	6041267
trans-1,3-Dichloropropene	ND		ug/L	0.490	1.00	1	04/07/06 01:49	SW846 8260B	6041267
1,1-Dichloropropene	ND		ug/L	0.510	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Ethylbenzene	ND		ug/L	0.340	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Hexachlorobutadiene	ND		ug/L	0.670	1.00	1	04/07/06 01:49	SW846 8260B	6041267
2-Hexanone	ND		ug/L	2.53	50.0	1	04/07/06 01:49	SW846 8260B	6041267
Isopropylbenzene	ND		ug/L	0.340	1.00	1	04/07/06 01:49	SW846 8260B	6041267
p-Isopropyltoluene	ND		ug/L	0.340	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Methyl tert-Butyl Ether	ND		ug/L	0.320	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Methylene Chloride	ND		ug/L	1.26	5.00	1	04/07/06 01:49	SW846 8260B	6041267

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Amelia Turnell

Work Order: NPD0520
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 04/06/06 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPD0520-04 (TB04050601 - Water) - cont. Sampled: 04/05/06 00:01									
Volatile Organic Compounds by EPA Method 8260B - cont.									
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	04/07/06 01:49	SW846 8260B	6041267
Naphthalene	ND		ug/L	1.13	5.00	1	04/07/06 01:49	SW846 8260B	6041267
n-Propylbenzene	ND		ug/L	0.370	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Styrene	ND		ug/L	0.390	1.00	1	04/07/06 01:49	SW846 8260B	6041267
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	04/07/06 01:49	SW846 8260B	6041267
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Tetrachloroethene	ND		ug/L	0.390	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Toluene	ND		ug/L	0.280	1.00	1	04/07/06 01:49	SW846 8260B	6041267
1,2,3-Trichlorobenzene	ND		ug/L	0.560	2.00	1	04/07/06 01:49	SW846 8260B	6041267
1,2,4-Trichlorobenzene	ND		ug/L	0.790	2.00	1	04/07/06 01:49	SW846 8260B	6041267
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	04/07/06 01:49	SW846 8260B	6041267
1,1,1-Trichloroethane	ND		ug/L	0.400	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Trichloroethene	ND		ug/L	0.450	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Trichlorofluoromethane	ND		ug/L	0.480	1.00	1	04/07/06 01:49	SW846 8260B	6041267
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	04/07/06 01:49	SW846 8260B	6041267
1,3,5-Trimethylbenzene	ND		ug/L	0.280	1.00	1	04/07/06 01:49	SW846 8260B	6041267
1,2,4-Trimethylbenzene	ND		ug/L	0.340	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Vinyl chloride	ND		ug/L	0.430	1.00	1	04/07/06 01:49	SW846 8260B	6041267
Xylenes, total	ND		ug/L	0.820	3.00	1	04/07/06 01:49	SW846 8260B	6041267
Surr: 1,2-Dichloroethane-d4 (70-130%)	*111 %*					*1*	*04/07/06 01:49*	*SW846 8260B*	*6041267*
Surr: Dibromofluoromethane (79-122%)	*104 %*					*1*	*04/07/06 01:49*	*SW846 8260B*	*6041267*
Surr: Toluene-d8 (78-121%)	*95 %*					*1*	*04/07/06 01:49*	*SW846 8260B*	*6041267*
Surr: 4-Bromofluorobenzene (78-126%)	*121 %*					*1*	*04/07/06 01:49*	*SW846 8260B*	*6041267*

Client	URS Corporation (St. Louis)/SHELL (13668)	Work Order:	NPD0520
	1001 Highlands Plaza Dr. West, Suite 300	Project Name:	West Fenceline P-93 Project
	St. Louis, MO 63110	Project Number:	SAP 340061
Attn	Amelia Turnell	Received:	04/06/06 08:00

DATA QUALIFIERS AND DEFINITIONS

J Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.

RL1 Reporting limit raised due to sample matrix effects.

METHOD MODIFICATION NOTES

NPD0520

Cooler 1 of 1

04/11/06 17:00

TEST AMERICA TER CREIGHTON, NASHVILLE, TN 37204 PHONE 800-765-0980 FAX# 616-726-3404

☐ 7602 Commerce Drive, Watertown, WI 53094 Phone 800-833-7036
☐ 704 Enterprise Drive, Cedar Falls, IA 50613 Phone 319-277-2401
☐ 14500 Trinity Blvd., Suite 106, Fort Worth, TX 76155 Phone 817-571-6800
☐ 3601 South Dixie Drive, Dayton, OH 46439 Phone 800-572-9839
☐ 1380 Busch Parkway, Buffalo Grove, IL 60089 Phone 847-808-7766
☐ 1110 Elkton Drive, Suite A, Colorado Springs, CO 80907 Phone 719-593-9911
☐ Other _____

Shell Oil Products US Chain Of Custody Record

SOP US Project Manager to be invoiced:
☐ ENVIRONMENTAL SERVICES
☐ TECHNICAL SERVICES
☐ RMT HOUSTON
☐ BILL CONSULTANT

NAME OF PM TO BILL: Herb Hand (SOPUS)
NAME OF TS TO BILL:
☑ SHELL RATES ☐ STATE REIMBURSEMENT RATES

INCIDENT # (S&E ONLY): 9 7 2 1 6 6 3 4
SAP or CRMT # (TS/CRMT):

DATE: 4-5-06
PAGE: 1 of 1

Invoice with _____ sampling events for this site, sampled through the following date: _____

CONSULTANT COMPANY: URS Corporation
ADDRESS: 1001 Highlands Plaza Drive West; Suite 300
CITY: St. Louis, MO 63110
TELEPHONE: (office) 314-429-0100 (cell) 314-409-6460
FAX: (Office) 431-429-0462 (Trailer) 618-254-1512
E-MAIL: Jeff Adams Thomas_Adams@urscorp.com

SITE ADDRESS (Street and City): West Fenceline P-93
SOPUS-[redacted] 170 East Rand Avenue; Hartford, IL 62048
PROJECT CONTACT (Report to): Herb Hand (SOPUS) (Copy to): Jeff Adams (URS)
CONSULTANT PROJECT NO.: West Fenceline P-93
SOPUS-[redacted]
SAMPLER NAME(S) (Print): Mike Corbett
LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS): ☐ STANDARD (10 DAY) ☑ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

TEMPERATURE ON RECEIPT C°

SPECIAL INSTRUCTIONS OR NOTES :
Level 4 QC Deliverables Temp Blank Included

REQUESTED ANALYSIS if more than one method is listed, circle one

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOCs Method 8260	Level 4 QC Deliverables	Container PID Readings or Laboratory Notes
	P9302GWP43	4/5/06	1330	Water	X					3	X	X	NPD0520-01
	P9302GWP59	4/5/06	1515	Water	X					3	X	X	2
	P9311GWP41	4/5/06	1720	Water	X					3	X	X	3
	TB0405060l	4/5/06								1	X		4

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Wendy M Adling 4/5/02 1745			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		4/6/06	8:40

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

05/1/01 Revision

West Fenceline Data Review

Laboratory SDG: NPD0794

Reviewer: Tony Sedlacek

Date Reviewed: 2/12/2007

Guidance: USEPA Contract Laboratory National Functional Guidelines for Organic Data Review (USEPA 1999).

Applicable Work Plan: West Fenceline P-93 Dissolved Phase Benzene Investigation (2006)

Sample Identification #	Sample Identification #
P9311GWP59	P9311GWP59D
TB04060602	P9303GWP40

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

No, the laboratory case narrative indicated that surrogate recovery for 1,2-dichloroethane-d_4 was outside evaluation criteria. Although, not indicated in the laboratory case narrative several analytes were detected in the method blanks, and samples were evaluated and qualified using professional judgment. These issues are addressed further in the appropriate sections below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within QAPP limits?

Yes

Field ID	Parameter	Analyte	Qualification
N/A			

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration	Units
6041664-BLK1	VOCs	Hexachlorobutadiene	0.860	µg/L
6041664-BLK1	VOCs	Naphthalene	3.22	µg/L
6041664-BLK1	VOCs	1,2,3-Trichlorobenzene	1.84	µg/L
6041664-BLK2	VOCs	Naphthalene	3.66	µg/L
6041664-BLK2	VOCs	1,2,3-Trichlorobenzene	1.72	µg/L
6042192-BLK1	VOCs	Naphthalene	3.24	µg/L
6042192-BLK1	VOCs	1,2,3-Trichlorobenzene	1.69	µg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Field ID	Parameter	Analyte	New RL	Qualification
N/A				

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria
N/A					

Analytical data that required qualification based on LCS data are included in the table below. Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
N/A			

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Field ID	Parameter	Surrogate	Recovery	Criteria
P9303GWP40	VOCs	1,2-Dichloroethane-d_4	**29**	70-130

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Sample P9303GWP40 was analyzed undiluted as part of batch 6041664 and also at a dilution due to high levels of target analytes. Surrogate recoveries in the diluted sample were within evaluation criteria; therefore, no qualification of data was required.

Field ID	Parameter	Analyte	Qualification
P9303GWP40	VOCs	All detects/nondetects	**J/UJ**

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples reported as part of this SDG?

No

Were MS/MSD recoveries within evaluation criteria?

N/A

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
N/A					

Analytical data that required qualification based on MS/MSD data are included in the table below.

Field ID	Parameter	Analyte	Qualification
N/A			

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

Were laboratory duplicate sample RPDs within criteria?

N/A

Field ID	Parameter	Analyte	RPD	Criteria
N/A				

Data qualified due to outlying laboratory duplicate recoveries are identified below:

Field ID	Parameter	Analyte	Qualification
N/A			

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
P9311GWP59	P9311GWP59D

Were field duplicates within evaluation criteria?

Yes

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
N/A					

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Yes

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run ***was not*** reported:

Field ID	Parameter	Dilution Factor
N/A		

11.0 Additional Qualifications

Were additional qualifications applied?

Yes

Professional judgment was used to qualify the common laboratory contaminant 2-butanone reported at concentrations less than two times (2X) the RL.

Field ID	Analyte	New RL	Qualification	Comments
P9311GWP59	2-Butanone	-	U	Professional Judgment

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

May 12, 2006

Client: URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn: Herb Hand

Work Order: NPD0794
Project Name: West Fenceline P-93 Project
Project Nbr: SAP 340061
P/O Nbr: 97216634
Date Received: 04/07/06

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
P9311GWP59	NPD0794-01	04/06/06 09:30
P9311GWP59D	NPD0794-02	04/06/06 09:30
TB04060602	NPD0794-03	04/06/06 00:01
P9303GWP40	NPD0794-04	04/06/06 16:10

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

Additional Laboratory Comments:
Samples were properly preserved and received in good condition on 04/07/06. Analyses were performed within method required holding times. There were no anomalies noted at sample log-in. Surrogate % recovery was outside QC criteria in low level run due to sample matrix; however, diluted run had surrogates within QC limits. All QC results were within acceptable limits. MS/MSD was not performed due to insufficient sample volume. Initial and Continuing Calibration requirements were met.

As you review this data package, please call me if you require any additional information at # 1-800-765-0980.
Illinois Certification Number: 001177

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

Report Approved By:

Sandra McMillin
Senior Project Manager

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Herb Hand

Work Order: NPD0794
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 04/07/06 08:00

ANALYTICAL REPORT

Sample ID: NPD0794-01 (P9311GWP59 - Water) Sampled: 04/06/06 09:30

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	ND		ug/L	5.91	50.0	1	04/10/06 12:01	SW846 8260B	6041664
Benzene	**11800**		ug/L	29.0	100	100	04/11/06 11:49	SW846 8260B	6042192
Bromobenzene	ND		ug/L	0.470	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Bromochloromethane	ND		ug/L	0.420	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Bromodichloromethane	ND		ug/L	0.380	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Bromoform	ND		ug/L	0.500	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Bromomethane	ND		ug/L	0.600	1.00	1	04/10/06 12:01	SW846 8260B	6041664
2-Butanone	ND ~~37.0~~	J "U"	ug/L	5.09	50.0	1	04/10/06 12:01	SW846 8260B	6041664
sec-Butylbenzene	~~ND~~		ug/L	0.380	1.00	1	04/10/06 12:01	SW846 8260B	6041664
n-Butylbenzene	ND		ug/L	0.460	1.00	1	04/10/06 12:01	SW846 8260B	6041664
tert-Butylbenzene	**4.18**		ug/L	0.390	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Carbon disulfide	ND		ug/L	0.310	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Carbon Tetrachloride	ND		ug/L	0.480	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Chlorobenzene	ND		ug/L	0.320	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Chloroethane	ND		ug/L	0.500	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Chloroform	ND		ug/L	0.380	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Chloromethane	ND		ug/L	0.460	1.00	1	04/10/06 12:01	SW846 8260B	6041664
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	04/10/06 12:01	SW846 8260B	6041664
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	04/10/06 12:01	SW846 8260B	6041664
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	04/10/06 12:01	SW846 8260B	6041664
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Dibromomethane	ND		ug/L	0.570	1.00	1	04/10/06 12:01	SW846 8260B	6041664
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	04/10/06 12:01	SW846 8260B	6041664
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	04/10/06 12:01	SW846 8260B	6041664
1,2-Dichlorobenzene	ND		ug/L	0.370	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	04/10/06 12:01	SW846 8260B	6041664
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	04/10/06 12:01	SW846 8260B	6041664
1,2-Dichloroethane	ND		ug/L	0.280	1.00	1	04/10/06 12:01	SW846 8260B	6041664
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	04/10/06 12:01	SW846 8260B	6041664
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	04/10/06 12:01	SW846 8260B	6041664
trans-1,2-Dichloroethene	ND		ug/L	0.340	1.00	1	04/10/06 12:01	SW846 8260B	6041664
1,3-Dichloropropane	ND		ug/L	0.630	1.00	1	04/10/06 12:01	SW846 8260B	6041664
1,2-Dichloropropane	ND		ug/L	0.500	1.00	1	04/10/06 12:01	SW846 8260B	6041664
2,2-Dichloropropane	ND		ug/L	0.660	1.00	1	04/10/06 12:01	SW846 8260B	6041664
cis-1,3-Dichloropropene	ND		ug/L	0.450	1.00	1	04/10/06 12:01	SW846 8260B	6041664
trans-1,3-Dichloropropene	ND		ug/L	0.490	1.00	1	04/10/06 12:01	SW846 8260B	6041664
1,1-Dichloropropene	ND		ug/L	0.510	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Ethylbenzene	**92.6**		ug/L	0.340	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Hexachlorobutadiene	ND		ug/L	0.670	1.00	1	04/10/06 12:01	SW846 8260B	6041664
2-Hexanone	ND		ug/L	2.53	50.0	1	04/10/06 12:01	SW846 8260B	6041664
Isopropylbenzene	**6.18**		ug/L	0.340	1.00	1	04/10/06 12:01	SW846 8260B	6041664
p-Isopropyltoluene	ND		ug/L	0.340	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Methyl tert-Butyl Ether	**4.49**		ug/L	0.320	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Methylene Chloride	ND		ug/L	1.26	5.00	1	04/10/06 12:01	SW846 8260B	6041664

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Herb Hand

Work Order: NPD0794
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 04/07/06 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPD0794-01 (P9311GWP59 - Water) - cont. Sampled: 04/06/06 09:30									
Volatile Organic Compounds by EPA Method 8260B - cont.									
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	04/10/06 12:01	SW846 8260B	6041664
Naphthalene	**20.8**		ug/L	1.13	5.00	1	04/10/06 12:01	SW846 8260B	6041664
n-Propylbenzene	**11.6**		ug/L	0.370	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Styrene	ND		ug/L	0.390	1.00	1	04/10/06 12:01	SW846 8260B	6041664
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	04/10/06 12:01	SW846 8260B	6041664
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Tetrachloroethene	ND		ug/L	0.390	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Toluene	**182**		ug/L	0.280	1.00	1	04/10/06 12:01	SW846 8260B	6041664
1,2,3-Trichlorobenzene	ND		ug/L	0.560	2.00	1	04/10/06 12:01	SW846 8260B	6041664
1,2,4-Trichlorobenzene	ND		ug/L	0.790	2.00	1	04/10/06 12:01	SW846 8260B	6041664
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	04/10/06 12:01	SW846 8260B	6041664
1,1,1-Trichloroethane	ND		ug/L	0.400	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Trichloroethene	ND		ug/L	0.450	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Trichlorofluoromethane	ND		ug/L	0.480	1.00	1	04/10/06 12:01	SW846 8260B	6041664
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	04/10/06 12:01	SW846 8260B	6041664
1,3,5-Trimethylbenzene	**17.2**		ug/L	0.280	1.00	1	04/10/06 12:01	SW846 8260B	6041664
1,2,4-Trimethylbenzene	**52.6**		ug/L	0.340	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Vinyl chloride	ND		ug/L	0.430	1.00	1	04/10/06 12:01	SW846 8260B	6041664
Xylenes, total	**295**		ug/L	0.820	3.00	1	04/10/06 12:01	SW846 8260B	6041664
Surr: 1,2-Dichloroethane-d4 (70-130%)	*100 %*					*1*	*04/10/06 12:01*	*SW846 8260B*	*6041664*
Surr: 1,2-Dichloroethane-d4 (70-130%)	*99 %*					*1*	*04/11/06 11:49*	*SW846 8260B*	*6042192*
Surr: Dibromofluoromethane (79-122%)	*92 %*					*1*	*04/10/06 12:01*	*SW846 8260B*	*6041664*
Surr: Dibromofluoromethane (79-122%)	*97 %*					*1*	*04/11/06 11:49*	*SW846 8260B*	*6042192*
Surr: Toluene-d8 (78-121%)	*97 %*					*1*	*04/10/06 12:01*	*SW846 8260B*	*6041664*
Surr: Toluene-d8 (78-121%)	*95 %*					*1*	*04/11/06 11:49*	*SW846 8260B*	*6042192*
Surr: 4-Bromofluorobenzene (78-126%)	*108 %*					*1*	*04/10/06 12:01*	*SW846 8260B*	*6041664*
Surr: 4-Bromofluorobenzene (78-126%)	*101 %*					*1*	*04/11/06 11:49*	*SW846 8260B*	*6042192*
Sample ID: NPD0794-02 (P9311GWP59D - Water) Sampled: 04/06/06 09:30									
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND		ug/L	5.91	50.0	1	04/10/06 12:30	SW846 8260B	6041664
Benzene	**13100**		ug/L	29.0	100	100	04/11/06 12:18	SW846 8260B	6042192
Bromobenzene	ND		ug/L	0.470	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Bromochloromethane	ND		ug/L	0.420	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Bromodichloromethane	ND		ug/L	0.380	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Bromoform	ND		ug/L	0.500	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Bromomethane	ND		ug/L	0.600	1.00	1	04/10/06 12:30	SW846 8260B	6041664
2-Butanone	ND		ug/L	5.09	50.0	1	04/10/06 12:30	SW846 8260B	6041664
sec-Butylbenzene	ND		ug/L	0.380	1.00	1	04/10/06 12:30	SW846 8260B	6041664
n-Butylbenzene	ND		ug/L	0.460	1.00	1	04/10/06 12:30	SW846 8260B	6041664
tert-Butylbenzene	**4.20**		ug/L	0.390	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Carbon disulfide	ND		ug/L	0.310	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Carbon Tetrachloride	ND		ug/L	0.480	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Chlorobenzene	ND		ug/L	0.320	1.00	1	04/10/06 12:30	SW846 8260B	6041664

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Herb Hand

Work Order: NPD0794
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 04/07/06 08:00

ANALYTICAL REPORT

Sample ID: NPD0794-02 (P9311GWP59D - Water) - cont. Sampled: 04/06/06 09:30

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Chloroethane	ND		ug/L	0.500	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Chloroform	ND		ug/L	0.380	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Chloromethane	ND		ug/L	0.460	1.00	1	04/10/06 12:30	SW846 8260B	6041664
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	04/10/06 12:30	SW846 8260B	6041664
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	04/10/06 12:30	SW846 8260B	6041664
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	04/10/06 12:30	SW846 8260B	6041664
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Dibromomethane	ND		ug/L	0.570	1.00	1	04/10/06 12:30	SW846 8260B	6041664
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	04/10/06 12:30	SW846 8260B	6041664
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	04/10/06 12:30	SW846 8260B	6041664
1,2-Dichlorobenzene	ND		ug/L	0.370	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	04/10/06 12:30	SW846 8260B	6041664
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	04/10/06 12:30	SW846 8260B	6041664
1,2-Dichloroethane	ND		ug/L	0.280	1.00	1	04/10/06 12:30	SW846 8260B	6041664
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	04/10/06 12:30	SW846 8260B	6041664
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	04/10/06 12:30	SW846 8260B	6041664
trans-1,2-Dichloroethene	ND		ug/L	0.340	1.00	1	04/10/06 12:30	SW846 8260B	6041664
1,3-Dichloropropane	ND		ug/L	0.630	1.00	1	04/10/06 12:30	SW846 8260B	6041664
1,2-Dichloropropane	ND		ug/L	0.500	1.00	1	04/10/06 12:30	SW846 8260B	6041664
2,2-Dichloropropane	ND		ug/L	0.660	1.00	1	04/10/06 12:30	SW846 8260B	6041664
cis-1,3-Dichloropropene	ND		ug/L	0.450	1.00	1	04/10/06 12:30	SW846 8260B	6041664
trans-1,3-Dichloropropene	ND		ug/L	0.490	1.00	1	04/10/06 12:30	SW846 8260B	6041664
1,1-Dichloropropene	ND		ug/L	0.510	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Ethylbenzene	**87.6**		ug/L	0.340	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Hexachlorobutadiene	ND		ug/L	0.670	1.00	1	04/10/06 12:30	SW846 8260B	6041664
2-Hexanone	ND		ug/L	2.53	50.0	1	04/10/06 12:30	SW846 8260B	6041664
Isopropylbenzene	**6.08**		ug/L	0.340	1.00	1	04/10/06 12:30	SW846 8260B	6041664
p-Isopropyltoluene	ND		ug/L	0.340	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Methyl tert-Butyl Ether	**4.64**		ug/L	0.320	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Methylene Chloride	ND		ug/L	1.26	5.00	1	04/10/06 12:30	SW846 8260B	6041664
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	04/10/06 12:30	SW846 8260B	6041664
Naphthalene	**21.4**		ug/L	1.13	5.00	1	04/10/06 12:30	SW846 8260B	6041664
n-Propylbenzene	**11.2**		ug/L	0.370	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Styrene	ND		ug/L	0.390	1.00	1	04/10/06 12:30	SW846 8260B	6041664
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	04/10/06 12:30	SW846 8260B	6041664
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Tetrachloroethene	ND		ug/L	0.390	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Toluene	**183**		ug/L	0.280	1.00	1	04/10/06 12:30	SW846 8260B	6041664
1,2,3-Trichlorobenzene	ND		ug/L	0.560	2.00	1	04/10/06 12:30	SW846 8260B	6041664
1,2,4-Trichlorobenzene	ND		ug/L	0.790	2.00	1	04/10/06 12:30	SW846 8260B	6041664
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	04/10/06 12:30	SW846 8260B	6041664
1,1,1-Trichloroethane	ND		ug/L	0.400	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Trichloroethene	ND		ug/L	0.450	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Trichlorofluoromethane	ND		ug/L	0.480	1.00	1	04/10/06 12:30	SW846 8260B	6041664

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Herb Hand

Work Order: NPD0794
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 04/07/06 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPD0794-02 (P9311GWP59D - Water) - cont. Sampled: 04/06/06 09:30									
Volatile Organic Compounds by EPA Method 8260B - cont.									
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	04/10/06 12:30	SW846 8260B	6041664
1,3,5-Trimethylbenzene	**16.9**		ug/L	0.280	1.00	1	04/10/06 12:30	SW846 8260B	6041664
1,2,4-Trimethylbenzene	**50.7**		ug/L	0.340	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Vinyl chloride	ND		ug/L	0.430	1.00	1	04/10/06 12:30	SW846 8260B	6041664
Xylenes, total	**278**		ug/L	0.820	3.00	1	04/10/06 12:30	SW846 8260B	6041664
Surr: 1,2-Dichloroethane-d4 (70-130%)	*99 %*					*1*	*04/10/06 12:30*	*SW846 8260B*	*6041664*
Surr: 1,2-Dichloroethane-d4 (70-130%)	*100 %*					*1*	*04/11/06 12:18*	*SW846 8260B*	*6042192*
Surr: Dibromofluoromethane (79-122%)	*92 %*					*1*	*04/10/06 12:30*	*SW846 8260B*	*6041664*
Surr: Dibromofluoromethane (79-122%)	*122 %*					*1*	*04/11/06 12:18*	*SW846 8260B*	*6042192*
Surr: Toluene-d8 (78-121%)	*97 %*					*1*	*04/10/06 12:30*	*SW846 8260B*	*6041664*
Surr: Toluene-d8 (78-121%)	*96 %*					*1*	*04/11/06 12:18*	*SW846 8260B*	*6042192*
Surr: 4-Bromofluorobenzene (78-126%)	*108 %*					*1*	*04/10/06 12:30*	*SW846 8260B*	*6041664*
Surr: 4-Bromofluorobenzene (78-126%)	*102 %*					*1*	*04/11/06 12:18*	*SW846 8260B*	*6042192*
Sample ID: NPD0794-03 (TB04060602 - Water) Sampled: 04/06/06 00:01									
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND		ug/L	5.91	50.0	1	04/09/06 21:56	SW846 8260B	6041664
Benzene	ND		ug/L	0.290	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Bromobenzene	ND		ug/L	0.470	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Bromochloromethane	ND		ug/L	0.420	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Bromodichloromethane	ND		ug/L	0.380	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Bromoform	ND		ug/L	0.500	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Bromomethane	ND		ug/L	0.600	1.00	1	04/09/06 21:56	SW846 8260B	6041664
2-Butanone	ND		ug/L	5.09	50.0	1	04/09/06 21:56	SW846 8260B	6041664
sec-Butylbenzene	ND		ug/L	0.380	1.00	1	04/09/06 21:56	SW846 8260B	6041664
n-Butylbenzene	ND		ug/L	0.460	1.00	1	04/09/06 21:56	SW846 8260B	6041664
tert-Butylbenzene	ND		ug/L	0.390	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Carbon disulfide	ND		ug/L	0.310	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Carbon Tetrachloride	ND		ug/L	0.480	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Chlorobenzene	ND		ug/L	0.320	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Chloroethane	ND		ug/L	0.500	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Chloroform	ND		ug/L	0.380	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Chloromethane	ND		ug/L	0.460	1.00	1	04/09/06 21:56	SW846 8260B	6041664
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	04/09/06 21:56	SW846 8260B	6041664
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	04/09/06 21:56	SW846 8260B	6041664
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	04/09/06 21:56	SW846 8260B	6041664
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Dibromomethane	ND		ug/L	0.570	1.00	1	04/09/06 21:56	SW846 8260B	6041664
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	04/09/06 21:56	SW846 8260B	6041664
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	04/09/06 21:56	SW846 8260B	6041664
1,2-Dichlorobenzene	ND		ug/L	0.370	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	04/09/06 21:56	SW846 8260B	6041664
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	04/09/06 21:56	SW846 8260B	6041664

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Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Herb Hand

Work Order: NPD0794
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 04/07/06 08:00

ANALYTICAL REPORT

Sample ID: NPD0794-03 (TB04060602 - Water) - cont. Sampled: 04/06/06 00:01

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
1,2-Dichloroethane	ND		ug/L	0.280	1.00	1	04/09/06 21:56	SW846 8260B	6041664
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	04/09/06 21:56	SW846 8260B	6041664
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	04/09/06 21:56	SW846 8260B	6041664
trans-1,2-Dichloroethene	ND		ug/L	0.340	1.00	1	04/09/06 21:56	SW846 8260B	6041664
1,3-Dichloropropane	ND		ug/L	0.630	1.00	1	04/09/06 21:56	SW846 8260B	6041664
1,2-Dichloropropane	ND		ug/L	0.500	1.00	1	04/09/06 21:56	SW846 8260B	6041664
2,2-Dichloropropane	ND		ug/L	0.660	1.00	1	04/09/06 21:56	SW846 8260B	6041664
cis-1,3-Dichloropropene	ND		ug/L	0.450	1.00	1	04/09/06 21:56	SW846 8260B	6041664
trans-1,3-Dichloropropene	ND		ug/L	0.490	1.00	1	04/09/06 21:56	SW846 8260B	6041664
1,1-Dichloropropene	ND		ug/L	0.510	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Ethylbenzene	ND		ug/L	0.340	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Hexachlorobutadiene	ND		ug/L	0.670	1.00	1	04/09/06 21:56	SW846 8260B	6041664
2-Hexanone	ND		ug/L	2.53	50.0	1	04/09/06 21:56	SW846 8260B	6041664
Isopropylbenzene	ND		ug/L	0.340	1.00	1	04/09/06 21:56	SW846 8260B	6041664
p-Isopropyltoluene	ND		ug/L	0.340	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Methyl tert-Butyl Ether	ND		ug/L	0.320	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Methylene Chloride	ND		ug/L	1.26	5.00	1	04/09/06 21:56	SW846 8260B	6041664
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	04/09/06 21:56	SW846 8260B	6041664
Naphthalene	ND		ug/L	1.13	5.00	1	04/09/06 21:56	SW846 8260B	6041664
n-Propylbenzene	ND		ug/L	0.370	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Styrene	ND		ug/L	0.390	1.00	1	04/09/06 21:56	SW846 8260B	6041664
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	04/09/06 21:56	SW846 8260B	6041664
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Tetrachloroethene	ND		ug/L	0.390	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Toluene	ND		ug/L	0.280	1.00	1	04/09/06 21:56	SW846 8260B	6041664
1,2,3-Trichlorobenzene	ND		ug/L	0.560	2.00	1	04/09/06 21:56	SW846 8260B	6041664
1,2,4-Trichlorobenzene	ND		ug/L	0.790	2.00	1	04/09/06 21:56	SW846 8260B	6041664
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	04/09/06 21:56	SW846 8260B	6041664
1,1,1-Trichloroethane	ND		ug/L	0.400	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Trichloroethene	ND		ug/L	0.450	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Trichlorofluoromethane	ND		ug/L	0.480	1.00	1	04/09/06 21:56	SW846 8260B	6041664
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	04/09/06 21:56	SW846 8260B	6041664
1,3,5-Trimethylbenzene	ND		ug/L	0.280	1.00	1	04/09/06 21:56	SW846 8260B	6041664
1,2,4-Trimethylbenzene	ND		ug/L	0.340	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Vinyl chloride	ND		ug/L	0.430	1.00	1	04/09/06 21:56	SW846 8260B	6041664
Xylenes, total	ND		ug/L	0.820	3.00	1	04/09/06 21:56	SW846 8260B	6041664
Surr: 1,2-Dichloroethane-d4 (70-130%)	*107 %*					*1*	*04/09/06 21:56*	*SW846 8260B*	*6041664*
Surr: Dibromofluoromethane (79-122%)	*110 %*					*1*	*04/09/06 21:56*	*SW846 8260B*	*6041664*
Surr: Toluene-d8 (78-121%)	*96 %*					*1*	*04/09/06 21:56*	*SW846 8260B*	*6041664*
Surr: 4-Bromofluorobenzene (78-126%)	*106 %*					*1*	*04/09/06 21:56*	*SW846 8260B*	*6041664*

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Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Herb Hand

Work Order: NPD0794
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 04/07/06 08:00

ANALYTICAL REPORT

Sample ID: NPD0794-04 (P9303GWP40 - Water) Sampled: 04/06/06 16:10

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	ND	"UJ"	ug/L	5.91	50.0	1	04/10/06 06:41	SW846 8260B	6041664
Benzene	**348000**		ug/L	1450	5000	5000	04/11/06 10:51	SW846 8260B	6042192
Bromobenzene	ND	"UJ"	ug/L	0.470	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Bromochloromethane	ND		ug/L	0.420	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Bromodichloromethane	ND		ug/L	0.380	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Bromoform	ND		ug/L	0.500	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Bromomethane	ND		ug/L	0.600	1.00	1	04/10/06 06:41	SW846 8260B	6041664
2-Butanone	ND		ug/L	5.09	50.0	1	04/10/06 06:41	SW846 8260B	6041664
sec-Butylbenzene	ND		ug/L	0.380	1.00	1	04/10/06 06:41	SW846 8260B	6041664
n-Butylbenzene	ND		ug/L	0.460	1.00	1	04/10/06 06:41	SW846 8260B	6041664
tert-Butylbenzene	ND		ug/L	0.390	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Carbon disulfide	ND		ug/L	0.310	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Carbon Tetrachloride	ND		ug/L	0.480	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Chlorobenzene	ND		ug/L	0.320	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Chloroethane	ND		ug/L	0.500	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Chloroform	ND		ug/L	0.380	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Chloromethane	ND		ug/L	0.460	1.00	1	04/10/06 06:41	SW846 8260B	6041664
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	04/10/06 06:41	SW846 8260B	6041664
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	04/10/06 06:41	SW846 8260B	6041664
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	04/10/06 06:41	SW846 8260B	6041664
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Dibromomethane	ND		ug/L	0.570	1.00	1	04/10/06 06:41	SW846 8260B	6041664
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	04/10/06 06:41	SW846 8260B	6041664
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	04/10/06 06:41	SW846 8260B	6041664
1,2-Dichlorobenzene	ND		ug/L	0.370	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	04/10/06 06:41	SW846 8260B	6041664
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	04/10/06 06:41	SW846 8260B	6041664
1,2-Dichloroethane	ND		ug/L	0.280	1.00	1	04/10/06 06:41	SW846 8260B	6041664
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	04/10/06 06:41	SW846 8260B	6041664
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	04/10/06 06:41	SW846 8260B	6041664
trans-1,2-Dichloroethene	ND		ug/L	0.340	1.00	1	04/10/06 06:41	SW846 8260B	6041664
1,3-Dichloropropane	ND		ug/L	0.630	1.00	1	04/10/06 06:41	SW846 8260B	6041664
1,2-Dichloropropane	ND		ug/L	0.500	1.00	1	04/10/06 06:41	SW846 8260B	6041664
2,2-Dichloropropane	ND		ug/L	0.660	1.00	1	04/10/06 06:41	SW846 8260B	6041664
cis-1,3-Dichloropropene	ND		ug/L	0.450	1.00	1	04/10/06 06:41	SW846 8260B	6041664
trans-1,3-Dichloropropene	ND		ug/L	0.490	1.00	1	04/10/06 06:41	SW846 8260B	6041664
1,1-Dichloropropene	ND	"UJ"	ug/L	0.510	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Ethylbenzene	**534**		ug/L	34.0	100	100	04/11/06 10:22	SW846 8260B	6042192
Hexachlorobutadiene	ND	"UJ"	ug/L	0.670	1.00	1	04/10/06 06:41	SW846 8260B	6041664
2-Hexanone	ND	"UJ"	ug/L	2.53	50.0	1	04/10/06 06:41	SW846 8260B	6041664
Isopropylbenzene	**15.4**	"J"	ug/L	0.340	1.00	1	04/10/06 06:41	SW846 8260B	6041664
p-Isopropyltoluene	ND	"UJ"	ug/L	0.340	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Methyl tert-Butyl Ether	**36.0**	"J"	ug/L	0.320	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Methylene Chloride	ND	"UJ"	ug/L	1.26	5.00	1	04/10/06 06:41	SW846 8260B	6041664

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Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Herb Hand

Work Order: NPD0794
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 04/07/06 08:00

ANALYTICAL REPORT

Sample ID: NPD0794-04 (P9303GWP40 - Water) - cont. Sampled: 04/06/06 16:10

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	04/10/06 06:41	SW846 8260B	6041664
Naphthalene	**70.2**		ug/L	1.13	5.00	1	04/10/06 06:41	SW846 8260B	6041664
n-Propylbenzene	**26.1**		ug/L	0.370	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Styrene	ND		ug/L	0.390	1.00	1	04/10/06 06:41	SW846 8260B	6041664
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	04/10/06 06:41	SW846 8260B	6041664
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Tetrachloroethene	ND		ug/L	0.390	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Toluene	**123**		ug/L	0.280	1.00	1	04/10/06 06:41	SW846 8260B	6041664
1,2,3-Trichlorobenzene	ND		ug/L	0.560	2.00	1	04/10/06 06:41	SW846 8260B	6041664
1,2,4-Trichlorobenzene	ND		ug/L	0.790	2.00	1	04/10/06 06:41	SW846 8260B	6041664
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	04/10/06 06:41	SW846 8260B	6041664
1,1,1-Trichloroethane	ND		ug/L	0.400	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Trichloroethene	ND		ug/L	0.450	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Trichlorofluoromethane	ND		ug/L	0.480	1.00	1	04/10/06 06:41	SW846 8260B	6041664
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	04/10/06 06:41	SW846 8260B	6041664
1,3,5-Trimethylbenzene	ND		ug/L	0.280	1.00	1	04/10/06 06:41	SW846 8260B	6041664
1,2,4-Trimethylbenzene	**129**		ug/L	0.340	1.00	1	04/10/06 06:41	SW846 8260B	6041664
Vinyl chloride	ND		ug/L	0.430	1.00	1	04/10/06 06:41	SW846 8260B	6041664
o-Xylene	**470**		ug/L	32.0	100	100	04/11/06 10:22	SW846 8260B	6042192
m,p-Xylene	**1140**		ug/L	50.0	100	100	04/11/06 10:22	SW846 8260B	6042192
Xylenes, total	**1610**		ug/L	82.0	300	100	04/11/06 10:22	SW846 8260B	6042192
Surr: 1,2-Dichloroethane-d4 (70-130%)	*29 %*	*Z*				*1*	*04/10/06 06:41*	*SW846 8260B*	*6041664*
Surr: 1,2-Dichloroethane-d4 (70-130%)	*95 %*					*1*	*04/11/06 10:22*	*SW846 8260B*	*6042192*
Surr: Dibromofluoromethane (79-122%)	*79 %*					*1*	*04/10/06 06:41*	*SW846 8260B*	*6041664*
Surr: Dibromofluoromethane (79-122%)	*91 %*					*1*	*04/11/06 10:22*	*SW846 8260B*	*6042192*
Surr: Toluene-d8 (78-121%)	*94 %*					*1*	*04/10/06 06:41*	*SW846 8260B*	*6041664*
Surr: Toluene-d8 (78-121%)	*97 %*					*1*	*04/11/06 10:22*	*SW846 8260B*	*6042192*
Surr: 4-Bromofluorobenzene (78-126%)	*125 %*					*1*	*04/10/06 06:41*	*SW846 8260B*	*6041664*
Surr: 4-Bromofluorobenzene (78-126%)	*105 %*					*1*	*04/11/06 10:22*	*SW846 8260B*	*6042192*

Client	URS Corporation (St. Louis)/SHELL (13668)	Work Order:	NPD0794
	1001 Highlands Plaza Dr. West, Suite 300	Project Name:	West Fenceline P-93 Project
	St. Louis, MO 63110	Project Number:	SAP 340061
Attn	Herb Hand	Received:	04/07/06 08:00

DATA QUALIFIERS AND DEFINITIONS

J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.
Z	Due to sample matrix effects, the surrogate recovery was below the acceptance limits.

METHOD MODIFICATION NOTES

Cooler 1 of 1

TEST AMERICA

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☐ 7602 Commerce Drive, Watertown, WI 53094 Phone 800-833-7036

☐ 704 Enterprise Drive, Cedar Falls, IA 50613 Phone 319-277-2401

☐ 14500 Trinity Blvd., Suite 106, Fort Worth, TX 76155 Phone 817-571-6800

☐ 3601 South Dixie Drive, Dayton, OH 46439 Phone 800-572-9839

☐ 1380 Busch Parkway, Buffalo Grove, IL 60089 Phone 847-808-7766

☐ 1110 Elkton Drive, Suite A, Colorado Springs, CO 80907 Phone 719-593-9911

☐ Other _____

NPD0794

04/17/06 23:59

Shell Oil Products US Chain Of Custody Record

SOP US Project Manager to be invoiced:

☐ ENVIRONMENTAL SERVICES

☐ TECHNICAL SERVICES

☐ RMT HOUSTON

☐ BILL CONSULTANT

NAME OF PM TO BILL: Herb Hand (SOPUS)

NAME OF TS TO BILL:

☑ SHELL RATES ☐ STATE REIMBURSEMENT RATES

INCIDENT # (S&E ONLY): 9 7 2 1 6 6 3 4

SAP or CRMT # (TS/CRMT):

DATE: 4/6/06

PAGE: 1 of 1

Invoice with _____ sampling events for this site, sampled through the following date: _____

CONSULTANT COMPANY: URS Corporation

ADDRESS: 1001 Highlands Plaza Drive West; Suite 300

CITY: St. Louis, MO 63110

TELEPHONE: (office) 314-429-0100 (cell) 314-409-6460

FAX: (Office) 431-429-0462 (Trailer) 618-254-1512

E-MAIL: Jeff Adams Thomas_Adams@urscorp.com

SITE ADDRESS (Street and City): West Fenceline P-93 SOPUS-[redacted] 170 East Rand Avenue; Hartford, IL 62048

PROJECT CONTACT (Report to): Herb Hand (SOPUS) (Copy to): Jeff Adams (URS)

CONSULTANT PROJECT NO.: West Fenceline P-93 SOPUS-[redacted]

SAMPLER NAME(S) (Print): Michael Corbett

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS): ☐ STANDARD (10 DAY) ☑ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS if more than one method is listed, circle one

TEMPERATURE ON RECEIPT C°

SPECIAL INSTRUCTIONS OR NOTES :

Level 4 QC Deliverables Temp Blank Included

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOCs Method 8260	TPH-GRO (8015)	TPH-DRO (8015)	8260 / 8015 Moisture	Level 4 QC Deliverables	Container PID Readings or Laboratory Notes
	P9311GWP59	4/6/06	0930	water	X					3	X				X	NPD0794-01
	P9311GWP59D	4/6/06	0930	water	X					3	X				X	-02
	TB04060602	4/6/06		water	X					1	X					-03
	P9303GWP40	4/6/06	1610	water	X					3	X				X	-04

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Michael Corbett 4/6/06 1730			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	[signature]	4/7/06	8:00

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client

05/1/01 Revision

West Fenceline Data Review

Laboratory SDG: NPD0934

Reviewer: Tony Sedlacek

Date Reviewed: 2/12/2007

Guidance: USEPA Contract Laboratory National Functional Guidelines for Organic Data Review (USEPA 1999).

Applicable Work Plan: West Fenceline P-93 Dissolved Phase Benzene Investigation (2006)

Sample Identification #	Sample Identification #
P9303GWP59	P9305GWP45
P9305GWP58	TB04070603
P9306GWP50EB	P9306GWP50

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC?

No, the COC designated sample P9305GWP58 as an MS/MSD to be analyzed for VOCs. The laboratory did not spike this sample for VOCs, due to high levels of target analytes in the native sample. Therefore, VOC MS/MSD data for sample P9305GWP58 was not received as part of the data package.

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that several surrogate recoveries and LCS recovery for bromochloromethane were outside evaluation criteria. Although not indicated in the laboratory case narrative, analytes were detected in method and equipment blanks. These issues are addressed further in the appropriate sections below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within QAPP limits?

Yes

Field ID	Parameter	Analyte	Qualification
N/A			

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration	Units
P9306GWP50EB	VOCs	Benzene	41.1	µg/L
6041550-BLK1	VOCs	Naphthalene	2.94	µg/L
6041550-BLK1	VOCs	1,2,3-Trichlorobenzene	1.32	µg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Field ID	Parameter	Analyte	New RL	Qualification
P9305GWP45	VOCs	Naphthalene	-	**U**
P9306GWP50	VOCs	Naphthalene	-	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria
6041550-BS1	VOCs	Bromochloromethane	**131**	N/A	74-130

Analytical data that required qualification based on LCS data are included in the table below. Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
N/A			

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Field ID	Parameter	Surrogate	Recovery	Criteria
P9305GWP45	VOCs	1,2-Dichloroethane-d_4	**28**	70-130
P9305GWP45	VOCs	Dibromofluoromethane	**39**	79-122
P9305GWP58	VOCs	1,2-Dichloroethane-d_4	**55**	70-130
P9306GWP50	VOCs	1,2-Dichloroethane-d_4	**30**	70-130
P9306GWP50	VOCs	Dibromofluoromethane	**132**	79-122

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
P9305GWP45	VOCs	All detects/nondetects	**J/UJ**
P9305GWP58	VOCs	All detects/nondetects	**J/UJ**
P9306GWP50	VOCs	All detects/nondetects	**J/UJ**

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples reported as part of this SDG?

No, the COC designated sample P9305GWP58 as an MS/MSD to be analyzed for VOCs. The laboratory did not spike this sample for VOCs, due to high levels of target analytes in the native sample. Therefore, VOC MS/MSD data for sample P9305GWP58 was not received as part of the data package.

Were MS/MSD recoveries within evaluation criteria?

N/A

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
N/A					

Analytical data that required qualification based on MS/MSD data are included in the table below.

Field ID	Parameter	Analyte	Qualification
N/A			

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

Were laboratory duplicate sample RPDs within criteria?

N/A

Field ID	Parameter	Analyte	RPD	Criteria
N/A				

Data qualified due to outlying laboratory duplicate recoveries are identified below:

Field ID	Parameter	Analyte	Qualification
N/A			

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

Field ID	Field Duplicate ID
N/A	

Were field duplicates within evaluation criteria?

N/A

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
N/A					

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Yes

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run ***was not*** reported:

Field ID	Parameter	Dilution Factor
N/A		

11.0 Additional Qualifications

Were additional qualifications applied?

No

1.0 FULL VALIDATION OF VOC DATA - SDG NPD0934

This section describes the full validation for four water samples which were prepared by USEPA SW-846 Method 5030B and analyzed for volatile organic compounds (VOCs) by USEPA SW-846 Method 8260B. Samples were analyzed by Test America Analytical Testing Corporation of Nashville, Tennessee, and submitted as part of sample delivery group (SDG) NPD0934. Samples included as part of this validation are listed below:

Sample Identification
P9303GWP59
P9305GWP45
P9305GWP58
P9306GWP50

QA/QC criteria were identified in the West Fenceline P-93 Dissolved Phase Benzene Investigation 2006 work plan and USEPA SW-846 Method 8260B. Evaluation of the analytical data followed procedures outlined in the USEPA Contract Program National Functional Guidelines for Organic Data Review (USEPA 1999) where applicable to SW-846 Method 8260B.

Criteria evaluated included the following method performance criteria:

- Data package completeness
- Laboratory case narrative/cooler receipt form
- Holding times and sample preservation
- GC/MS instrument performance
- Initial calibration
- Calibration verification
- Blank samples
- Surrogate spike recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) samples
- Internal standards and retention times
- Laboratory control spike (LCS) samples
- Target compound identification and quantitation
- Overall data assessment

1.1 Data Package Completeness

The data package was reviewed to make certain that it contained the data contractually required in the deliverable. This included checking the data package for the results of each analyte requested for each field sample submitted in the analytical batch, along with

requested QC documentation for the respective methods. The COC designated sample P9305GWP58 as an MS/MSD to be analyzed for VOCs. The laboratory did not spike this sample for VOCs, due to high levels of target analytes in the native sample. Therefore, VOC MS/MSD data for sample P9305GWP58 was not received and the data package was not complete.

1.2 Laboratory Case Narrative/Cooler Receipt Form

The laboratory case narrative indicated that several surrogate recoveries and LCS recovery for bromochloromethane were outside evaluation criteria. Although not indicated in the laboratory case narrative, analytes were detected in method and equipment blanks. These issues are addressed further in the appropriate section below. No problems were indicated in the cooler receipt form for the validated samples.

1.3 Holding Times and Sample Preservation

Review of the sample collection and analysis dates involved comparing the chains-of-custody, the summary forms, the raw data forms, and the chromatograms for accuracy, consistency, and holding time compliance. The samples were received at $4^{\circ}C \pm 2^{\circ}C$, and at a pH <2 and were analyzed within the 14 day holding time criteria. No qualification of data was required due to sample preservation or holding time criteria.

1.4 GC/MS Instrument Performance

GC/MS instrument performance checks were performed to ensure mass resolution, identification, and instrument sensitivity. Criteria for evaluation of instrument performance included possible transcription/calculation errors, adherence to instrument tuning frequency requirements, mass assignments, and ion abundance criteria. Instrument performance check samples were evaluated against criteria established in USEPA SW-846 Method 8260B.

Based on the raw data, the ion abundance criteria were within evaluation criteria for all masses, and no qualification of data was required. The raw data forms were checked against the summary forms and no calculation or transcription errors were noted.

1.5 Initial Calibration

An Initial calibration (ICAL) was established to assess whether the instrument was capable of producing acceptable qualitative and quantitative data for volatile analysis. Samples as part of SDG NPD0934 were analyzed using instrument HP36. The ICAL for instrument HP36 was established on 4-8-06 prior to sample analysis and using at least five concentration standards to establish the initial calibration curve as required by Method 8260B. An average response factor (RF) was determined for each target analyte, the RFs were reviewed and verified greater than 0.10 for chloromethane, 1,1-dichloroethane and bromoform, 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane and

greater than 0.05 for all other target analytes, with the exception of acetone (0.024) and 2-butanone (0.028). The ICAL for compound 2-butanone was determined by linear least squares regression; therefore, no qualification of data was required. Acetone data qualifications are summarized in the table below.

Field ID	Analyte	Qualification
P9303GWP59	Acetone	**R**
P9305GWP45	Acetone	**R**
P9305GWP58	Acetone	**R**
P9306GWP50	Acetone	**R**

Review of the initial calibration summary forms indicated %RSDs were $\leq$ 30% for calibration check compounds (CCCs) [1,1-dichloroethene, toluene, chloroform, ethylbenzene, 1,2-dichloropropane, and vinyl chloride], and $\leq$ 15% for non-CCCs with some exceptions. The initial calibration for compounds with %RSD values above 15% was determined using least square linear regression. All correlation coefficients (r) were greater than 0.990, with the exception of bromoform (.989). Bromoform was previously qualified in samples P9305GWP58 and P9306GWP50 due to low surrogate recovery; therefore, no additional qualification is needed. Bromoform data qualifications are summarized in the table below.

Field ID	Analyte	Qualification
P9303GWP59	Bromoform	**UJ**
P9305GWP45	Bromoform	**UJ**

Percent RSDs were recalculated from the raw data and no errors in calculation were noted; therefore, no qualification of data was required. A second source verification was analyzed following the initial calibration. All percent difference values were within 15 percent, with the exception of those compounds summarized in the table below.

Analyte	%D
Acetone	**-20.5**
Bromochloromethane	**-16.0**
1,3-Dichloropropane	**-16.4**
1,2-Dichlorobenzene	**-17.3**

Acetone was previously qualified because of ICAL RF less than 0.05 in all associated samples and bromochloromethane, 1,3-dichloropropane and 1,2-dichlorobenzene were previously qualified due to low surrogate recovery in samples P9305GWP58 and P9306GWP50; therefore, no additional qualification is needed. Qualifications for compounds with %Ds greater than 15% are summarized in the table below.

Field ID	Analyte	Qualification
P9303GWP59	Bromochloromethane	**UJ**

Field ID	Analyte	Qualification
P9303GWP59	1,3-Dichloropropane	UJ
P9303GWP59	1,2-Dichlorobenzene	UJ
P9305GWP45	Bromochloromethane	UJ
P9305GWP45	1,3-Dichloropropane	UJ
P9305GWP45	1,2-Dichlorobenzene	UJ

1.6 Calibration verification

Review of the sample chromatograms indicated the calibration verifications (CVs) were performed at the required frequency every 12 hours. Review of continuing calibration summary forms indicated all RFs met the evaluation criteria of greater than 0.10 (chloromethane, 1,1-dichloroethane and bromoform), 0.30 (chlorobenzene and 1,1,2,2-tetrachloroethane) and greater than 0.05 for all other analytes with the exception of acetone (0.027) and 2-butanone (0.034). Acetone was were previously qualified due to initial calibration RFs less than 0.05 and the 2-butanone calibration was determined by linear least squares; therefore, no additional qualification of data was required. In addition, percent differences (%Ds) and percent drift (%Drift) met the evaluation criteria of $\leq$ 20 percent for CCCs and < 30 percent for all other target analytes with the exceptions those summarized below:

CV (Date/Time)	Analyte	%D or %Drift
04/07/07 1738	Hexachlorobutadiene	33.5

The compound hexachlorobutadiene was previously qualified due to low surrogate recovery in samples P9305GWP58 and P9306GWP50; therefore, no additional qualification of data is needed. Qualifications due to %D greater than 30% are summarized in the table below.

Field ID	Analyte	Qualification
P9303GWP59	Hexachlorobutadiene	UJ
P9305GWP45	Hexachlorobutadiene	UJ

Recalculations of the RFs and %Ds for two target compounds were completed for each CV, and no errors in calculation were noted. No qualification of data was required.

1.7 Blank Samples

The purpose of the method blank samples is to evaluate the existence and magnitude of contamination problems emanating from laboratory activities. Method blank samples were analyzed with each analytical batch as required by USEPA SW-846 Method 8260B. All target compounds were reported as nondetect in all method blanks and equipment blanks analyzed as part of this SDG with the exception of those summarized in the table below.

Blank ID	Parameter	Analyte	Concentration	Units
P9306GWP50EB	VOCs	Benzene	41.1	µg/L
6041550-BLK1	VOCs	Naphthalene	2.94	µg/L
6041550-BLK1	VOCs	1,2,3-Trichlorobenzene	1.32	µg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Field ID	Parameter	Analyte	New RL	Qualification
P9305GWP45	VOCs	Naphthalene	-	**U**
P9306GWP50	VOCs	Naphthalene	-	**U**

Target analytes for all trip blank samples were reported as nondetect. The review of chromatograms indicates all peaks present were accounted or the concentrations reported were below the method detection limit. No qualification of data was required.

1.8 Surrogate Spike Recoveries

Surrogate compounds were used to evaluate the overall laboratory sample preparation efficiency on a per sample basis. All surrogate recoveries were within the method acceptance criteria, with the exception of those summarized in the table below.

Field ID	Surrogate	Recovery	Criteria
P9305GWP45	1,2-Dichloroethane-d4	**28**	70-130
P9305GWP45	Dibromofluoromethane	**39**	79-122
P9305GWP58	1,2-Dichloroethane-d4	**55**	70-130
P9306GWP50	1,2-Dichloroethane-d4	**30**	70-130
P9306GWP50	Dibromofluoromethane	**132**	79-122

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Analyte	Qualification
P9305GWP45	All detects/nondetects	**J/UJ**
P9305GWP58	All detects/nondetects	**J/UJ**
P9306GWP50	All detects/nondetects	**J/UJ**

A minimum of ten percent of the recoveries were recalculated, and the summary forms versus the raw data were verified. No calculation or transcription errors were noted and no qualification of data was required.

1.9 Matrix Spike/Matrix Spike Duplicate (MS/MSD) Samples

MS/MSD samples are analyzed to assess potential matrix effects. Sample PS11-1106 was spiked and analyzed for VOCs. The COC designated sample P9305GWP58 as an MS/MSD to be analyzed for VOCs. The laboratory did not spike this sample for VOCs, due to high levels of target analytes in the native sample. Therefore, VOC MS/MSD data for sample P9305GWP58 was not received as part of the data package.

1.10 Internal Standards and Retention Times

Internal standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during each analytical run. IS areas must be within -50 percent to +100 percent, and the IS retention times must be within 30 seconds of the IS continuing calibration retention time. IS areas and retention times for the validated samples in this SDG were within evaluation criteria, with the exception of those summarized in the table below.

Field ID	Internal standard	Internal standard area	Internal standard criteria
P9306GWP50	Chlorobenzene-d5	**1570129**	380174-1520696

The internal standard area was above evaluation criteria and all analytes associated with Chlorobenzene-d5 were nondetect; therefore no qualification of data was required. The retention time for internal standard fluorobenzene (5.96) minutes was outside evaluation criteria (4.47-5.47) minutes in samples P9305GWP45 and P9306GWP50. The retention time shifted due to elevated levels of benzene in the samples. Therefore, analytes quantified with internal standard fluorobenzene were qualified as summarized in the table below with the exception of acetone. Acetone was previously qualified due to an ICAL RF less than 0.5; therefore, no additional qualification of data is needed. The methyl tert-butyl ether result was reported from the diluted sample and not associated with internal standard fluorobenzene; no qualification of data was required.

Field ID	Analyte	Qualification
P9305GWP45	Bromodichloromethane	**R**
P9305GWP45	Carbon disulfide	**R**
P9305GWP45	Carbon tetrachloride	**R**
P9305GWP45	Chloroform	**R**
P9305GWP45	Chloromethane	**R**
P9305GWP45	1,2-Dichloroethane	**R**
P9305GWP45	cis-1,2-Dichloroethene	**R**
P9305GWP45	1,1-Dichloroethene	**R**
P9305GWP45	trans-1,2-Dichloroethene	**R**
P9305GWP45	2,2-Dichloropropane	**R**
P9305GWP45	1,1-Dichloropropene	**R**
P9305GWP45	Methyl tert-butyl ether	**R**
P9305GWP45	1,1,1-Trichloroethane	**R**
P9305GWP45	Trichlorofluoromethane	**R**

Field ID	Analyte	Qualification
P9305GWP45	Vinyl chloride	R
P9306GWP50	Bromodichloromethane	R
P9306GWP50	Carbon disulfide	R
P9306GWP50	Carbon tetrachloride	R
P9306GWP50	Chloroform	R
P9306GWP50	Chloromethane	R
P9306GWP50	1,2-Dichloroethane	R
P9306GWP50	cis-1,2-Dichloroethene	R
P9306GWP50	1,1-Dichloroethene	R
P9306GWP50	trans-1,2-Dichloroethene	R
P9306GWP50	2,2-Dichloropropane	R
P9306GWP50	1,1-Dichloropropene	R
P9306GWP50	1,1,1-Trichloroethane	R
P9306GWP50	Trichlorofluoromethane	R
P9306GWP50	Vinyl chloride	R

The summary forms versus the raw data were verified and no transcription errors were noted.

1.11 Laboratory Control Spike Samples

Laboratory control samples were analyzed with each analytical batch to assess the accuracy of the analytical process. LCS recoveries were within evaluation criteria, with the exception of bromochloromethane (131%) with criteria (74-130%). All associated samples were nondetect for bromochloromethane and did not require qualification.

A minimum of ten percent of the spiking compound recoveries for the LCS's were recalculated using the LCS summary forms, and no calculation or transcription errors were noted.

1.12 Target Compound Identification and Quantitation

For validation of the compound identification, chromatograms were reviewed to verify the major peaks were identified, the spectra of the identified compounds were verified against the library spectra, and the relative retention time was no greater than 0.06 different from the associated CV retention times. A minimum of ten percent of the detected target analytes and spiking compounds were verified. No anomalies were noted with the identification of the target compounds in the samples.

For the validation of compound quantitation, 10% of the target analytes were recalculated from the raw data, and no calculation errors were noted. Additionally, the reporting limits were verified to determine if reporting limits (RLs) were adjusted for dilutions. No qualification of the data was required and review of the data indicated the correct RLs were reported.

1.13 Overall Data Assessment

Based on the criteria outlined, it is recommended that the results reported for these analyses be accepted for their intended use, with the exception of rejected (R) data. Acceptable levels of accuracy and precision, based on LCS, and surrogate data were achieved for this SDG. In addition, completeness, defined to be the percentage of analytical results which are judged to be valid, including estimated (J/UJ) data, was 86 percent for VOC data for this SDG and should be used for their intended purpose. The percentage of valid analytical results for all SDGs included in the project, met the project goal of 95 percent.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

May 15, 2006

Client: URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn: Jeff Adams

Work Order: NPD0934
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Nbr: SAP 340061
P/O Nbr: 97216634
Date Received: 04/08/06

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
P9303GWP59	NPD0934-01	04/07/06 09:05
P9305GWP45	NPD0934-02	04/07/06 11:00
P9305GWP58	NPD0934-03	04/07/06 12:05
TB04070603	NPD0934-04	04/07/06 00:01
P9306GWP50EB	NPD0934-05	04/07/06 15:10
P9306GWP50	NPD0934-06	04/07/06 16:00

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

Additional Laboratory Comments:

Per enclosed Chain of Custody, "samples were properly preserved and received in good condition on 4/8/06. Analysis was extracted and performed within method required holding times following Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846)". All QC results were within acceptable limits. Initial and Continuing Calibration requirements were met. Package was completed as a "Level IV".

Please note for this work order: Sample NPD0934-03 (P9305GWP58) was not analyzed as the MS/MSD sample due to the high concentration of target analytes that are present in the sample. A Blank Spike was the only QC reported with these samples. Due to sample matrix interference, the surrogate recoveries were outside laboratory acceptable QC limit. Bromochloromethane in the LCS for QC bacth 6041550 was outside laboraotry acceptable QC limit biased high. Analyte not detected in the samples, therefore data not impacted.

Organics: Unknown analyte concentrations were determined using the average response factor from the initial calibration curve for all analytes whose % RSD is less than or equal to 15. All other analyte concentrations were determined using linear regression analysis. Copies of curves for compounds with %RSD's greater than 15 are supplied.

As you review this data package, please call me if you require any additional information at # 1-800-765-0980 ext 1256.
Illinois Certification Number: 001177

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

Report Approved By:

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	URS Corporation (St. Louis)/SHELL (13668)	Work Order:	NPD0934
	1001 Highlands Plaza Dr. West, Suite 300	Project Name:	170 E. Rand Avenue, Hartford, IL
	St. Louis, MO 63110	Project Number:	SAP 340061
Attn	Jeff Adams	Received:	04/08/06 08:30

Glenn Lee Norton
Data Package Coordinator

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPD0934
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Number: SAP 340061
Received: 04/08/06 08:30

ANALYTICAL REPORT

Sample ID: NPD0934-01 (P9303GWP59 - Water) Sampled: 04/07/06 09:05

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	ND	"R"	ug/L	5.91	50.0	1	04/12/06 13:11	SW846 8260B	6041550
Benzene	**3650**		ug/L	14.5	50.0	50	04/13/06 00:29	SW846 8260B	6042169
Bromobenzene	ND		ug/L	0.470	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Bromochloromethane	ND	"UJ"	ug/L	0.420	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Bromodichloromethane	ND		ug/L	0.380	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Bromoform	ND	"UJ"	ug/L	0.500	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Bromomethane	ND		ug/L	0.600	1.00	1	04/12/06 13:11	SW846 8260B	6041550
2-Butanone	ND		ug/L	5.09	50.0	1	04/12/06 13:11	SW846 8260B	6041550
sec-Butylbenzene	ND		ug/L	0.380	1.00	1	04/12/06 13:11	SW846 8260B	6041550
n-Butylbenzene	ND		ug/L	0.460	1.00	1	04/12/06 13:11	SW846 8260B	6041550
tert-Butylbenzene	**6.21**		ug/L	0.390	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Carbon disulfide	**1.08**		ug/L	0.310	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Carbon Tetrachloride	ND		ug/L	0.480	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Chlorobenzene	ND		ug/L	0.320	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Chloroethane	ND		ug/L	0.500	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Chloroform	ND		ug/L	0.380	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Chloromethane	ND		ug/L	0.460	1.00	1	04/12/06 13:11	SW846 8260B	6041550
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	04/12/06 13:11	SW846 8260B	6041550
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	04/12/06 13:11	SW846 8260B	6041550
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	04/12/06 13:11	SW846 8260B	6041550
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Dibromomethane	ND		ug/L	0.570	1.00	1	04/12/06 13:11	SW846 8260B	6041550
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	04/12/06 13:11	SW846 8260B	6041550
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	04/12/06 13:11	SW846 8260B	6041550
1,2-Dichlorobenzene	ND	"UJ"	ug/L	0.370	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	04/12/06 13:11	SW846 8260B	6041550
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	04/12/06 13:11	SW846 8260B	6041550
1,2-Dichloroethane	ND		ug/L	0.280	1.00	1	04/12/06 13:11	SW846 8260B	6041550
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	04/12/06 13:11	SW846 8260B	6041550
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	04/12/06 13:11	SW846 8260B	6041550
trans-1,2-Dichloroethene	ND		ug/L	0.340	1.00	1	04/12/06 13:11	SW846 8260B	6041550
1,3-Dichloropropane	ND	"UJ"	ug/L	0.630	1.00	1	04/12/06 13:11	SW846 8260B	6041550
1,2-Dichloropropane	ND		ug/L	0.500	1.00	1	04/12/06 13:11	SW846 8260B	6041550
2,2-Dichloropropane	ND		ug/L	0.660	1.00	1	04/12/06 13:11	SW846 8260B	6041550
cis-1,3-Dichloropropene	ND		ug/L	0.450	1.00	1	04/12/06 13:11	SW846 8260B	6041550
trans-1,3-Dichloropropene	ND		ug/L	0.490	1.00	1	04/12/06 13:11	SW846 8260B	6041550
1,1-Dichloropropene	ND		ug/L	0.510	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Ethylbenzene	**153**		ug/L	0.340	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Hexachlorobutadiene	ND	"UJ"	ug/L	0.670	1.00	1	04/12/06 13:11	SW846 8260B	6041550
2-Hexanone	ND		ug/L	2.53	50.0	1	04/12/06 13:11	SW846 8260B	6041550
Isopropylbenzene	**16.0**		ug/L	0.340	1.00	1	04/12/06 13:11	SW846 8260B	6041550
p-Isopropyltoluene	ND		ug/L	0.340	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Diisopropyl Ether	ND		ug/L	0.420	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Methyl tert-Butyl Ether	ND		ug/L	0.320	1.00	1	04/12/06 13:11	SW846 8260B	6041550

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPD0934
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Number: SAP 340061
Received: 04/08/06 08:30

ANALYTICAL REPORT

Sample ID: NPD0934-01 (P9303GWP59 - Water) - cont. Sampled: 04/07/06 09:05

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Methylene Chloride	ND		ug/L	1.26	5.00	1	04/12/06 13:11	SW846 8260B	6041550
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	04/12/06 13:11	SW846 8260B	6041550
Naphthalene	**21.4**		ug/L	1.13	5.00	1	04/12/06 13:11	SW846 8260B	6041550
n-Propylbenzene	**40.6**		ug/L	0.370	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Styrene	ND		ug/L	0.390	1.00	1	04/12/06 13:11	SW846 8260B	6041550
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	04/12/06 13:11	SW846 8260B	6041550
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Tetrachloroethene	ND		ug/L	0.390	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Toluene	**4.63**		ug/L	0.280	1.00	1	04/12/06 13:11	SW846 8260B	6041550
1,2,3-Trichlorobenzene	ND		ug/L	0.560	2.00	1	04/12/06 13:11	SW846 8260B	6041550
1,2,4-Trichlorobenzene	ND		ug/L	0.790	2.00	1	04/12/06 13:11	SW846 8260B	6041550
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	04/12/06 13:11	SW846 8260B	6041550
1,1,1-Trichloroethane	ND		ug/L	0.400	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Trichloroethene	ND		ug/L	0.450	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Trichlorofluoromethane	ND		ug/L	0.480	1.00	1	04/12/06 13:11	SW846 8260B	6041550
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	04/12/06 13:11	SW846 8260B	6041550
1,3,5-Trimethylbenzene	**48.2**		ug/L	0.280	1.00	1	04/12/06 13:11	SW846 8260B	6041550
1,2,4-Trimethylbenzene	**167**		ug/L	0.340	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Vinyl chloride	ND		ug/L	0.430	1.00	1	04/12/06 13:11	SW846 8260B	6041550
m,p-Xylene	**246**		ug/L	0.500	1.00	1	04/12/06 13:11	SW846 8260B	6041550
o-Xylene	**16.0**		ug/L	0.320	1.00	1	04/12/06 13:11	SW846 8260B	6041550
Xylenes, total	**262**		ug/L	0.820	3.00	1	04/12/06 13:11	SW846 8260B	6041550
Surr: 1,2-Dichloroethane-d4 (70-130%)	*94 %*					*1*	*04/12/06 13:11*	*SW846 8260B*	*6041550*
Surr: 1,2-Dichloroethane-d4 (70-130%)	*109 %*					*1*	*04/13/06 00:29*	*SW846 8260B*	*6042169*
Surr: Dibromofluoromethane (79-122%)	*119 %*					*1*	*04/12/06 13:11*	*SW846 8260B*	*6041550*
Surr: Dibromofluoromethane (79-122%)	*100 %*					*1*	*04/13/06 00:29*	*SW846 8260B*	*6042169*
Surr: Toluene-d8 (78-121%)	*93 %*					*1*	*04/12/06 13:11*	*SW846 8260B*	*6041550*
Surr: Toluene-d8 (78-121%)	*84 %*					*1*	*04/13/06 00:29*	*SW846 8260B*	*6042169*
Surr: 4-Bromofluorobenzene (78-126%)	*101 %*					*1*	*04/12/06 13:11*	*SW846 8260B*	*6041550*
Surr: 4-Bromofluorobenzene (78-126%)	*89 %*					*1*	*04/13/06 00:29*	*SW846 8260B*	*6042169*

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ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPD0934
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Number: SAP 340061
Received: 04/08/06 08:30

ANALYTICAL REPORT

Sample ID: NPD0934-02 (P9305GWP45 - Water) Sampled: 04/07/06 11:00

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	ND	R	ug/L	5.91	50.0	1	04/12/06 13:40	SW846 8260B	6041550
Benzene	1460000		ug/L	29000	100000	100000	04/13/06 01:00	SW846 8260B	6042169
Bromobenzene	ND	UJ	ug/L	0.470	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Bromochloromethane	ND	UJ	ug/L	0.420	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Bromodichloromethane	1.86	J R	ug/L	0.380	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Bromoform	ND	UJ	ug/L	0.500	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Bromomethane	ND		ug/L	0.600	1.00	1	04/12/06 13:40	SW846 8260B	6041550
2-Butanone	ND		ug/L	5.09	50.0	1	04/12/06 13:40	SW846 8260B	6041550
sec-Butylbenzene	ND		ug/L	0.380	1.00	1	04/12/06 13:40	SW846 8260B	6041550
n-Butylbenzene	ND		ug/L	0.460	1.00	1	04/12/06 13:40	SW846 8260B	6041550
tert-Butylbenzene	ND	UJ	ug/L	0.390	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Carbon disulfide	ND	R	ug/L	0.310	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Carbon Tetrachloride	2.03	J R	ug/L	0.480	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Chlorobenzene	ND	UJ	ug/L	0.320	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Chlorodibromomethane	ND	UJ	ug/L	0.360	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Chloroethane	ND	UJ	ug/L	0.500	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Chloroform	ND	R	ug/L	0.380	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Chloromethane	ND	R	ug/L	0.460	1.00	1	04/12/06 13:40	SW846 8260B	6041550
2-Chlorotoluene	ND	UJ	ug/L	0.270	1.00	1	04/12/06 13:40	SW846 8260B	6041550
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	04/12/06 13:40	SW846 8260B	6041550
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	04/12/06 13:40	SW846 8260B	6041550
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Dibromomethane	ND		ug/L	0.570	1.00	1	04/12/06 13:40	SW846 8260B	6041550
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	04/12/06 13:40	SW846 8260B	6041550
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	04/12/06 13:40	SW846 8260B	6041550
1,2-Dichlorobenzene	ND	UJ	ug/L	0.370	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Dichlorodifluoromethane	ND	UJ	ug/L	0.410	1.00	1	04/12/06 13:40	SW846 8260B	6041550
1,1-Dichloroethane	ND	UJ	ug/L	0.320	1.00	1	04/12/06 13:40	SW846 8260B	6041550
1,2-Dichloroethane	ND	R	ug/L	0.280	1.00	1	04/12/06 13:40	SW846 8260B	6041550
cis-1,2-Dichloroethene	ND	R	ug/L	0.390	1.00	1	04/12/06 13:40	SW846 8260B	6041550
1,1-Dichloroethene	ND	R	ug/L	0.450	1.00	1	04/12/06 13:40	SW846 8260B	6041550
trans-1,2-Dichloroethene	ND	R	ug/L	0.340	1.00	1	04/12/06 13:40	SW846 8260B	6041550
1,3-Dichloropropane	ND	UJ	ug/L	0.630	1.00	1	04/12/06 13:40	SW846 8260B	6041550
1,2-Dichloropropane	ND	UJ	ug/L	0.500	1.00	1	04/12/06 13:40	SW846 8260B	6041550
2,2-Dichloropropane	ND	R	ug/L	0.660	1.00	1	04/12/06 13:40	SW846 8260B	6041550
cis-1,3-Dichloropropene	ND	UJ	ug/L	0.450	1.00	1	04/12/06 13:40	SW846 8260B	6041550
trans-1,3-Dichloropropene	ND	UJ	ug/L	0.490	1.00	1	04/12/06 13:40	SW846 8260B	6041550
1,1-Dichloropropene	ND	R	ug/L	0.510	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Ethylbenzene	5.80	J	ug/L	0.340	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Hexachlorobutadiene	ND	UJ	ug/L	0.670	1.00	1	04/12/06 13:40	SW846 8260B	6041550
2-Hexanone	ND	UJ	ug/L	2.53	50.0	1	04/12/06 13:40	SW846 8260B	6041550
Isopropylbenzene	3.76	J	ug/L	0.340	1.00	1	04/12/06 13:40	SW846 8260B	6041550
p-Isopropyltoluene	ND	UJ	ug/L	0.340	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Diisopropyl Ether	ND	UJ	ug/L	0.420	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Methyl tert-Butyl Ether	116	J R	ug/L	0.320	1.00	1	04/12/06 13:40	SW846 8260B	6041550

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Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPD0934
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Number: SAP 340061
Received: 04/08/06 08:30

ANALYTICAL REPORT

Sample ID: NPD0934-02 (P9305GWP45 - Water) - cont. Sampled: 04/07/06 11:00

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Methylene Chloride	ND		ug/L	1.26	5.00	1	04/12/06 13:40	SW846 8260B	6041550
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	04/12/06 13:40	SW846 8260B	6041550
Naphthalene	4.89		ug/L	1.13	5.00	1	04/12/06 13:40	SW846 8260B	6041550
n-Propylbenzene	2.71	J	ug/L	0.370	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Styrene	ND		ug/L	0.390	1.00	1	04/12/06 13:40	SW846 8260B	6041550
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	04/12/06 13:40	SW846 8260B	6041550
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Tetrachloroethene	ND		ug/L	0.390	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Toluene	14.7	J	ug/L	0.280	1.00	1	04/12/06 13:40	SW846 8260B	6041550
1,2,3-Trichlorobenzene	ND		ug/L	0.560	2.00	1	04/12/06 13:40	SW846 8260B	6041550
1,2,4-Trichlorobenzene	ND		ug/L	0.790	2.00	1	04/12/06 13:40	SW846 8260B	6041550
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	04/12/06 13:40	SW846 8260B	6041550
1,1,1-Trichloroethane	ND	R	ug/L	0.400	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Trichloroethene	ND		ug/L	0.450	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Trichlorofluoromethane	ND	R	ug/L	0.480	1.00	1	04/12/06 13:40	SW846 8260B	6041550
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	04/12/06 13:40	SW846 8260B	6041550
1,3,5-Trimethylbenzene	3.52	J	ug/L	0.280	1.00	1	04/12/06 13:40	SW846 8260B	6041550
1,2,4-Trimethylbenzene	5.37	J	ug/L	0.340	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Vinyl chloride	ND	R	ug/L	0.430	1.00	1	04/12/06 13:40	SW846 8260B	6041550
m,p-Xylene	9.71	J	ug/L	0.500	1.00	1	04/12/06 13:40	SW846 8260B	6041550
o-Xylene	4.97	J	ug/L	0.320	1.00	1	04/12/06 13:40	SW846 8260B	6041550
Xylenes, total	14.7	J	ug/L	0.820	3.00	1	04/12/06 13:40	SW846 8260B	6041550
Surr: 1,2-Dichloroethane-d4 (70-130%)	*28 %*	*Z*				*1*	*04/12/06 13:40*	*SW846 8260B*	*6041550*
Surr: 1,2-Dichloroethane-d4 (70-130%)	*106 %*					*1*	*04/13/06 01:00*	*SW846 8260B*	*6042169*
Surr: Dibromofluoromethane (79-122%)	*39 %*	*Z*				*1*	*04/12/06 13:40*	*SW846 8260B*	*6041550*
Surr: Dibromofluoromethane (79-122%)	*101 %*					*1*	*04/13/06 01:00*	*SW846 8260B*	*6042169*
Surr: Toluene-d8 (78-121%)	*97 %*					*1*	*04/12/06 13:40*	*SW846 8260B*	*6041550*
Surr: Toluene-d8 (78-121%)	*85 %*					*1*	*04/13/06 01:00*	*SW846 8260B*	*6042169*
Surr: 4-Bromofluorobenzene (78-126%)	*124 %*					*1*	*04/12/06 13:40*	*SW846 8260B*	*6041550*
Surr: 4-Bromofluorobenzene (78-126%)	*107 %*					*1*	*04/13/06 01:00*	*SW846 8260B*	*6042169*

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ANALYTICAL TESTING CORPORATION
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Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPD0934
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Number: SAP 340061
Received: 04/08/06 08:30

ANALYTICAL REPORT

Sample ID: NPD0934-03 (P9305GWP58 - Water) Sampled: 04/07/06 12:05

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	ND		ug/L	5.91	50.0	1	04/12/06 14:09	SW846 8260B	6041550
Benzene	52200		ug/L	290	1000	1000	04/13/06 02:01	SW846 8260B	6042169
Bromobenzene	ND		ug/L	0.470	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Bromochloromethane	ND		ug/L	0.420	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Bromodichloromethane	ND		ug/L	0.380	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Bromoform	ND		ug/L	0.500	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Bromomethane	ND		ug/L	0.600	1.00	1	04/12/06 14:09	SW846 8260B	6041550
2-Butanone	ND		ug/L	5.09	50.0	1	04/12/06 14:09	SW846 8260B	6041550
sec-Butylbenzene	5.87		ug/L	0.380	1.00	1	04/12/06 14:09	SW846 8260B	6041550
n-Butylbenzene	ND		ug/L	0.460	1.00	1	04/12/06 14:09	SW846 8260B	6041550
tert-Butylbenzene	6.32		ug/L	0.390	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Carbon disulfide	ND		ug/L	0.310	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Carbon Tetrachloride	ND		ug/L	0.480	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Chlorobenzene	ND		ug/L	0.320	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Chloroethane	ND		ug/L	0.500	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Chloroform	ND		ug/L	0.380	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Chloromethane	ND		ug/L	0.460	1.00	1	04/12/06 14:09	SW846 8260B	6041550
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	04/12/06 14:09	SW846 8260B	6041550
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	04/12/06 14:09	SW846 8260B	6041550
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	04/12/06 14:09	SW846 8260B	6041550
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Dibromomethane	ND		ug/L	0.570	1.00	1	04/12/06 14:09	SW846 8260B	6041550
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	04/12/06 14:09	SW846 8260B	6041550
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	04/12/06 14:09	SW846 8260B	6041550
1,2-Dichlorobenzene	ND		ug/L	0.370	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	04/12/06 14:09	SW846 8260B	6041550
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	04/12/06 14:09	SW846 8260B	6041550
1,2-Dichloroethane	ND		ug/L	0.280	1.00	1	04/12/06 14:09	SW846 8260B	6041550
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	04/12/06 14:09	SW846 8260B	6041550
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	04/12/06 14:09	SW846 8260B	6041550
trans-1,2-Dichloroethene	ND		ug/L	0.340	1.00	1	04/12/06 14:09	SW846 8260B	6041550
1,3-Dichloropropane	ND		ug/L	0.630	1.00	1	04/12/06 14:09	SW846 8260B	6041550
1,2-Dichloropropane	ND		ug/L	0.500	1.00	1	04/12/06 14:09	SW846 8260B	6041550
2,2-Dichloropropane	ND		ug/L	0.660	1.00	1	04/12/06 14:09	SW846 8260B	6041550
cis-1,3-Dichloropropene	ND		ug/L	0.450	1.00	1	04/12/06 14:09	SW846 8260B	6041550
trans-1,3-Dichloropropene	ND		ug/L	0.490	1.00	1	04/12/06 14:09	SW846 8260B	6041550
1,1-Dichloropropene	ND		ug/L	0.510	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Ethylbenzene	203		ug/L	6.80	20.0	20	04/13/06 01:30	SW846 8260B	6042169
Hexachlorobutadiene	ND		ug/L	0.670	1.00	1	04/12/06 14:09	SW846 8260B	6041550
2-Hexanone	ND		ug/L	2.53	50.0	1	04/12/06 14:09	SW846 8260B	6041550
Isopropylbenzene	26.0		ug/L	0.340	1.00	1	04/12/06 14:09	SW846 8260B	6041550
p-Isopropyltoluene	ND		ug/L	0.340	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Diisopropyl Ether	ND		ug/L	0.420	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Methyl tert-Butyl Ether	ND		ug/L	0.320	1.00	1	04/12/06 14:09	SW846 8260B	6041550

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPD0934
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Number: SAP 340061
Received: 04/08/06 08:30

ANALYTICAL REPORT

Sample ID: NPD0934-03 (P9305GWP58 - Water) - cont. Sampled: 04/07/06 12:05

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Methylene Chloride	ND		ug/L	1.26	5.00	1	04/12/06 14:09	SW846 8260B	6041550
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	04/12/06 14:09	SW846 8260B	6041550
Naphthalene	24.2		ug/L	1.13	5.00	1	04/12/06 14:09	SW846 8260B	6041550
n-Propylbenzene	59.6		ug/L	0.370	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Styrene	ND		ug/L	0.390	1.00	1	04/12/06 14:09	SW846 8260B	6041550
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	04/12/06 14:09	SW846 8260B	6041550
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Tetrachloroethene	ND		ug/L	0.390	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Toluene	233		ug/L	5.60	20.0	20	04/13/06 01:30	SW846 8260B	6042169
1,2,3-Trichlorobenzene	ND		ug/L	0.560	2.00	1	04/12/06 14:09	SW846 8260B	6041550
1,2,4-Trichlorobenzene	ND		ug/L	0.790	2.00	1	04/12/06 14:09	SW846 8260B	6041550
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	04/12/06 14:09	SW846 8260B	6041550
1,1,1-Trichloroethane	ND		ug/L	0.400	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Trichloroethene	ND		ug/L	0.450	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Trichlorofluoromethane	ND		ug/L	0.480	1.00	1	04/12/06 14:09	SW846 8260B	6041550
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	04/12/06 14:09	SW846 8260B	6041550
1,3,5-Trimethylbenzene	40.8		ug/L	0.280	1.00	1	04/12/06 14:09	SW846 8260B	6041550
1,2,4-Trimethylbenzene	103		ug/L	0.340	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Vinyl chloride	ND		ug/L	0.430	1.00	1	04/12/06 14:09	SW846 8260B	6041550
m,p-Xylene	376		ug/L	0.500	1.00	1	04/12/06 14:09	SW846 8260B	6041550
o-Xylene	112		ug/L	0.320	1.00	1	04/12/06 14:09	SW846 8260B	6041550
Xylenes, total	488		ug/L	0.820	3.00	1	04/12/06 14:09	SW846 8260B	6041550
Surr: 1,2-Dichloroethane-d4 (70-130%)	*55 %*	*Z*				*1*	*04/12/06 14:09*	*SW846 8260B*	*6041550*
Surr: 1,2-Dichloroethane-d4 (70-130%)	*107 %*					*1*	*04/13/06 01:30*	*SW846 8260B*	*6042169*
Surr: Dibromofluoromethane (79-122%)	*89 %*					*1*	*04/12/06 14:09*	*SW846 8260B*	*6041550*
Surr: Dibromofluoromethane (79-122%)	*101 %*					*1*	*04/13/06 01:30*	*SW846 8260B*	*6042169*
Surr: Toluene-d8 (78-121%)	*91 %*					*1*	*04/12/06 14:09*	*SW846 8260B*	*6041550*
Surr: Toluene-d8 (78-121%)	*84 %*					*1*	*04/13/06 01:30*	*SW846 8260B*	*6042169*
Surr: 4-Bromofluorobenzene (78-126%)	*116 %*					*1*	*04/12/06 14:09*	*SW846 8260B*	*6041550*
Surr: 4-Bromofluorobenzene (78-126%)	*99 %*					*1*	*04/13/06 01:30*	*SW846 8260B*	*6042169*

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Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPD0934
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Number: SAP 340061
Received: 04/08/06 08:30

ANALYTICAL REPORT

Sample ID: NPD0934-04RE1 (TB04070603 - Water) Sampled: 04/07/06 00:01

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	ND		ug/L	5.91	50.0	1	04/12/06 23:28	SW846 8260B	6042169
Benzene	ND		ug/L	0.290	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Bromobenzene	ND		ug/L	0.470	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Bromochloromethane	ND		ug/L	0.420	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Bromodichloromethane	ND		ug/L	0.380	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Bromoform	ND		ug/L	0.500	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Bromomethane	ND		ug/L	0.600	1.00	1	04/12/06 23:28	SW846 8260B	6042169
2-Butanone	ND		ug/L	5.09	50.0	1	04/12/06 23:28	SW846 8260B	6042169
sec-Butylbenzene	ND		ug/L	0.380	1.00	1	04/12/06 23:28	SW846 8260B	6042169
n-Butylbenzene	ND		ug/L	0.460	1.00	1	04/12/06 23:28	SW846 8260B	6042169
tert-Butylbenzene	ND		ug/L	0.390	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Carbon disulfide	ND		ug/L	0.310	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Carbon Tetrachloride	ND		ug/L	0.480	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Chlorobenzene	ND		ug/L	0.320	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Chloroethane	ND		ug/L	0.500	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Chloroform	ND		ug/L	0.380	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Chloromethane	ND		ug/L	0.460	1.00	1	04/12/06 23:28	SW846 8260B	6042169
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	04/12/06 23:28	SW846 8260B	6042169
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	04/12/06 23:28	SW846 8260B	6042169
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	04/12/06 23:28	SW846 8260B	6042169
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Dibromomethane	ND		ug/L	0.570	1.00	1	04/12/06 23:28	SW846 8260B	6042169
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	04/12/06 23:28	SW846 8260B	6042169
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	04/12/06 23:28	SW846 8260B	6042169
1,2-Dichlorobenzene	ND		ug/L	0.370	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	04/12/06 23:28	SW846 8260B	6042169
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	04/12/06 23:28	SW846 8260B	6042169
1,2-Dichloroethane	ND		ug/L	0.280	1.00	1	04/12/06 23:28	SW846 8260B	6042169
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	04/12/06 23:28	SW846 8260B	6042169
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	04/12/06 23:28	SW846 8260B	6042169
trans-1,2-Dichloroethene	ND		ug/L	0.340	1.00	1	04/12/06 23:28	SW846 8260B	6042169
1,3-Dichloropropane	ND		ug/L	0.630	1.00	1	04/12/06 23:28	SW846 8260B	6042169
1,2-Dichloropropane	ND		ug/L	0.500	1.00	1	04/12/06 23:28	SW846 8260B	6042169
2,2-Dichloropropane	ND		ug/L	0.660	1.00	1	04/12/06 23:28	SW846 8260B	6042169
cis-1,3-Dichloropropene	ND		ug/L	0.450	1.00	1	04/12/06 23:28	SW846 8260B	6042169
trans-1,3-Dichloropropene	ND		ug/L	0.490	1.00	1	04/12/06 23:28	SW846 8260B	6042169
1,1-Dichloropropene	ND		ug/L	0.510	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Ethylbenzene	ND		ug/L	0.340	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Hexachlorobutadiene	ND		ug/L	0.670	1.00	1	04/12/06 23:28	SW846 8260B	6042169
2-Hexanone	ND		ug/L	2.53	50.0	1	04/12/06 23:28	SW846 8260B	6042169
Isopropylbenzene	ND		ug/L	0.340	1.00	1	04/12/06 23:28	SW846 8260B	6042169
p-Isopropyltoluene	ND		ug/L	0.340	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Methyl tert-Butyl Ether	ND		ug/L	0.320	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Methylene Chloride	ND		ug/L	1.26	5.00	1	04/12/06 23:28	SW846 8260B	6042169

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Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPD0934
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Number: SAP 340061
Received: 04/08/06 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPD0934-04RE1 (TB04070603 - Water) - cont. Sampled: 04/07/06 00:01									
Volatile Organic Compounds by EPA Method 8260B - cont.									
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	04/12/06 23:28	SW846 8260B	6042169
Naphthalene	ND		ug/L	1.13	5.00	1	04/12/06 23:28	SW846 8260B	6042169
n-Propylbenzene	ND		ug/L	0.370	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Styrene	ND		ug/L	0.390	1.00	1	04/12/06 23:28	SW846 8260B	6042169
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	04/12/06 23:28	SW846 8260B	6042169
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Tetrachloroethene	ND		ug/L	0.390	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Toluene	ND		ug/L	0.280	1.00	1	04/12/06 23:28	SW846 8260B	6042169
1,2,3-Trichlorobenzene	ND		ug/L	0.560	2.00	1	04/12/06 23:28	SW846 8260B	6042169
1,2,4-Trichlorobenzene	ND		ug/L	0.790	2.00	1	04/12/06 23:28	SW846 8260B	6042169
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	04/12/06 23:28	SW846 8260B	6042169
1,1,1-Trichloroethane	ND		ug/L	0.400	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Trichloroethene	ND		ug/L	0.450	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Trichlorofluoromethane	ND		ug/L	0.480	1.00	1	04/12/06 23:28	SW846 8260B	6042169
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	04/12/06 23:28	SW846 8260B	6042169
1,3,5-Trimethylbenzene	ND		ug/L	0.280	1.00	1	04/12/06 23:28	SW846 8260B	6042169
1,2,4-Trimethylbenzene	ND		ug/L	0.340	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Vinyl chloride	ND		ug/L	0.430	1.00	1	04/12/06 23:28	SW846 8260B	6042169
Xylenes, total	ND		ug/L	0.820	3.00	1	04/12/06 23:28	SW846 8260B	6042169
Surr: 1,2-Dichloroethane-d4 (70-130%)	*103 %*					*1*	*04/12/06 12:42*	*SW846 8260B*	*6041550*
Surr: 1,2-Dichloroethane-d4 (70-130%)	*107 %*					*1*	*04/12/06 23:28*	*SW846 8260B*	*6042169*
Surr: Dibromofluoromethane (79-122%)	*134 %*	*Z*				*1*	*04/12/06 12:42*	*SW846 8260B*	*6041550*
Surr: Dibromofluoromethane (79-122%)	*101 %*					*1*	*04/12/06 23:28*	*SW846 8260B*	*6042169*
Surr: Toluene-d8 (78-121%)	*94 %*					*1*	*04/12/06 12:42*	*SW846 8260B*	*6041550*
Surr: Toluene-d8 (78-121%)	*85 %*					*1*	*04/12/06 23:28*	*SW846 8260B*	*6042169*
Surr: 4-Bromofluorobenzene (78-126%)	*103 %*					*1*	*04/12/06 12:42*	*SW846 8260B*	*6041550*
Surr: 4-Bromofluorobenzene (78-126%)	*99 %*					*1*	*04/12/06 23:28*	*SW846 8260B*	*6042169*
Sample ID: NPD0934-05 (P9306GWP50EB - Water) Sampled: 04/07/06 15:10									
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND		ug/L	5.91	50.0	1	04/12/06 23:59	SW846 8260B	6042169
Benzene	**41.1**		ug/L	0.290	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Bromobenzene	ND		ug/L	0.470	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Bromochloromethane	ND		ug/L	0.420	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Bromodichloromethane	ND		ug/L	0.380	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Bromoform	ND		ug/L	0.500	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Bromomethane	ND		ug/L	0.600	1.00	1	04/12/06 23:59	SW846 8260B	6042169
2-Butanone	ND		ug/L	5.09	50.0	1	04/12/06 23:59	SW846 8260B	6042169
sec-Butylbenzene	ND		ug/L	0.380	1.00	1	04/12/06 23:59	SW846 8260B	6042169
n-Butylbenzene	ND		ug/L	0.460	1.00	1	04/12/06 23:59	SW846 8260B	6042169
tert-Butylbenzene	ND		ug/L	0.390	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Carbon disulfide	ND		ug/L	0.310	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Carbon Tetrachloride	ND		ug/L	0.480	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Chlorobenzene	ND		ug/L	0.320	1.00	1	04/12/06 23:59	SW846 8260B	6042169

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Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPD0934
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Number: SAP 340061
Received: 04/08/06 08:30

ANALYTICAL REPORT

Sample ID: NPD0934-05 (P9306GWP50EB - Water) - cont. Sampled: 04/07/06 15:10

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Chloroethane	ND		ug/L	0.500	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Chloroform	ND		ug/L	0.380	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Chloromethane	ND		ug/L	0.460	1.00	1	04/12/06 23:59	SW846 8260B	6042169
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	04/12/06 23:59	SW846 8260B	6042169
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	04/12/06 23:59	SW846 8260B	6042169
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	04/12/06 23:59	SW846 8260B	6042169
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Dibromomethane	ND		ug/L	0.570	1.00	1	04/12/06 23:59	SW846 8260B	6042169
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	04/12/06 23:59	SW846 8260B	6042169
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	04/12/06 23:59	SW846 8260B	6042169
1,2-Dichlorobenzene	ND		ug/L	0.370	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	04/12/06 23:59	SW846 8260B	6042169
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	04/12/06 23:59	SW846 8260B	6042169
1,2-Dichloroethane	ND		ug/L	0.280	1.00	1	04/12/06 23:59	SW846 8260B	6042169
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	04/12/06 23:59	SW846 8260B	6042169
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	04/12/06 23:59	SW846 8260B	6042169
trans-1,2-Dichloroethene	ND		ug/L	0.340	1.00	1	04/12/06 23:59	SW846 8260B	6042169
1,3-Dichloropropane	ND		ug/L	0.630	1.00	1	04/12/06 23:59	SW846 8260B	6042169
1,2-Dichloropropane	ND		ug/L	0.500	1.00	1	04/12/06 23:59	SW846 8260B	6042169
2,2-Dichloropropane	ND		ug/L	0.660	1.00	1	04/12/06 23:59	SW846 8260B	6042169
cis-1,3-Dichloropropene	ND		ug/L	0.450	1.00	1	04/12/06 23:59	SW846 8260B	6042169
trans-1,3-Dichloropropene	ND		ug/L	0.490	1.00	1	04/12/06 23:59	SW846 8260B	6042169
1,1-Dichloropropene	ND		ug/L	0.510	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Ethylbenzene	ND		ug/L	0.340	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Hexachlorobutadiene	ND		ug/L	0.670	1.00	1	04/12/06 23:59	SW846 8260B	6042169
2-Hexanone	ND		ug/L	2.53	50.0	1	04/12/06 23:59	SW846 8260B	6042169
Isopropylbenzene	ND		ug/L	0.340	1.00	1	04/12/06 23:59	SW846 8260B	6042169
p-Isopropyltoluene	ND		ug/L	0.340	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Methyl tert-Butyl Ether	ND		ug/L	0.320	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Methylene Chloride	ND		ug/L	1.26	5.00	1	04/12/06 23:59	SW846 8260B	6042169
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	04/12/06 23:59	SW846 8260B	6042169
Naphthalene	ND		ug/L	1.13	5.00	1	04/12/06 23:59	SW846 8260B	6042169
n-Propylbenzene	ND		ug/L	0.370	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Styrene	ND		ug/L	0.390	1.00	1	04/12/06 23:59	SW846 8260B	6042169
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	04/12/06 23:59	SW846 8260B	6042169
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Tetrachloroethene	ND		ug/L	0.390	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Toluene	ND		ug/L	0.280	1.00	1	04/12/06 23:59	SW846 8260B	6042169
1,2,3-Trichlorobenzene	ND		ug/L	0.560	2.00	1	04/12/06 23:59	SW846 8260B	6042169
1,2,4-Trichlorobenzene	ND		ug/L	0.790	2.00	1	04/12/06 23:59	SW846 8260B	6042169
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	04/12/06 23:59	SW846 8260B	6042169
1,1,1-Trichloroethane	ND		ug/L	0.400	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Trichloroethene	ND		ug/L	0.450	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Trichlorofluoromethane	ND		ug/L	0.480	1.00	1	04/12/06 23:59	SW846 8260B	6042169

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Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPD0934
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Number: SAP 340061
Received: 04/08/06 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPD0934-05 (P9306GWP50EB - Water) - cont. Sampled: 04/07/06 15:10									
Volatile Organic Compounds by EPA Method 8260B - cont.									
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	04/12/06 23:59	SW846 8260B	6042169
1,3,5-Trimethylbenzene	ND		ug/L	0.280	1.00	1	04/12/06 23:59	SW846 8260B	6042169
1,2,4-Trimethylbenzene	ND		ug/L	0.340	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Vinyl chloride	ND		ug/L	0.430	1.00	1	04/12/06 23:59	SW846 8260B	6042169
Xylenes, total	ND		ug/L	0.820	3.00	1	04/12/06 23:59	SW846 8260B	6042169
Surr: 1,2-Dichloroethane-d4 (70-130%)	*108 %*					*1*	*04/12/06 23:59*	*SW846 8260B*	*6042169*
Surr: Dibromofluoromethane (79-122%)	*100 %*					*1*	*04/12/06 23:59*	*SW846 8260B*	*6042169*
Surr: Toluene-d8 (78-121%)	*84 %*					*1*	*04/12/06 23:59*	*SW846 8260B*	*6042169*
Surr: 4-Bromofluorobenzene (78-126%)	*93 %*					*1*	*04/12/06 23:59*	*SW846 8260B*	*6042169*
Sample ID: NPD0934-06 (P9306GWP50 - Water) Sampled: 04/07/06 16:00									
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND		ug/L	5.91	50.0	1	04/12/06 15:08	SW846 8260B	6041550
Benzene	1310000		ug/L	29000	100000	100000	04/13/06 03:02	SW846 8260B	6042169
Bromobenzene	ND		ug/L	0.470	1.00	1	04/12/06 15:08	SW846 8260B	6041550
Bromochloromethane	ND		ug/L	0.420	1.00	1	04/12/06 15:08	SW846 8260B	6041550
Bromodichloromethane	1.86		ug/L	0.380	1.00	1	04/12/06 15:08	SW846 8260B	6041550
Bromoform	ND	RL5	ug/L	500	1000	1000	04/13/06 02:32	SW846 8260B	6042169
Bromomethane	ND		ug/L	0.600	1.00	1	04/12/06 15:08	SW846 8260B	6041550
2-Butanone	ND		ug/L	5.09	50.0	1	04/12/06 15:08	SW846 8260B	6041550
sec-Butylbenzene	ND		ug/L	0.380	1.00	1	04/12/06 15:08	SW846 8260B	6041550
n-Butylbenzene	ND		ug/L	0.460	1.00	1	04/12/06 15:08	SW846 8260B	6041550
tert-Butylbenzene	ND		ug/L	0.390	1.00	1	04/12/06 15:08	SW846 8260B	6041550
Carbon disulfide	ND		ug/L	0.310	1.00	1	04/12/06 15:08	SW846 8260B	6041550
Carbon Tetrachloride	2.03		ug/L	0.480	1.00	1	04/12/06 15:08	SW846 8260B	6041550
Chlorobenzene	ND	RL5	ug/L	320	1000	1000	04/13/06 02:32	SW846 8260B	6042169
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	04/12/06 15:08	SW846 8260B	6041550
Chloroethane	ND		ug/L	0.500	1.00	1	04/12/06 15:08	SW846 8260B	6041550
Chloroform	ND		ug/L	0.380	1.00	1	04/12/06 15:08	SW846 8260B	6041550
Chloromethane	ND		ug/L	0.460	1.00	1	04/12/06 15:08	SW846 8260B	6041550
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	04/12/06 15:08	SW846 8260B	6041550
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	04/12/06 15:08	SW846 8260B	6041550
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	04/12/06 15:08	SW846 8260B	6041550
1,2-Dibromoethane (EDB)	ND	RL5	ug/L	380	1000	1000	04/13/06 02:32	SW846 8260B	6042169
Dibromomethane	1.43		ug/L	0.570	1.00	1	04/12/06 15:08	SW846 8260B	6041550
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	04/12/06 15:08	SW846 8260B	6041550
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	04/12/06 15:08	SW846 8260B	6041550
1,2-Dichlorobenzene	ND		ug/L	0.370	1.00	1	04/12/06 15:08	SW846 8260B	6041550
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	04/12/06 15:08	SW846 8260B	6041550
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	04/12/06 15:08	SW846 8260B	6041550
1,2-Dichloroethane	ND		ug/L	0.280	1.00	1	04/12/06 15:08	SW846 8260B	6041550
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	04/12/06 15:08	SW846 8260B	6041550
~~cis-1,2-Dichloroethene~~	~~ND~~	~~RL5~~	~~ug/L~~	~~390~~	~~1000~~	~~1000~~	~~04/13/06 02:32~~	~~SW846 8260B~~	~~6042169~~
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	04/12/06 15:08	SW846 8260B	6041550

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Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Jeff Adams

Work Order: NPD0934
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Number: SAP 340061
Received: 04/08/06 08:30

ANALYTICAL REPORT

Sample ID: NPD0934-06 (P9306GWP50 - Water) - cont. Sampled: 04/07/06 16:00

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
trans-1,2-Dichloroethene	ND	"UJ" "R"	ug/L	0.340	1.00	1	04/12/06 15:08	SW846 8260B	6041550
1,3-Dichloropropane	ND	RL5	ug/L	630	1000	1000	04/13/06 02:32	SW846 8260B	6042169
1,2-Dichloropropane	2.21	"R"	ug/L	0.500	1.00	1	04/12/06 15:08	SW846 8260B	6041550
2,2-Dichloropropane	ND	"UJ" "R"	ug/L	0.660	1.00	1	04/12/06 15:08	SW846 8260B	6041550
cis-1,3-Dichloropropene	ND	RL5	ug/L	450	1000	1000	04/13/06 02:32	SW846 8260B	6042169
trans-1,3-Dichloropropene	ND	RL5	ug/L	490	1000	1000	04/13/06 02:32	SW846 8260B	6042169
1,1-Dichloropropene	ND	"UJ" "R"	ug/L	0.510	1.00	1	04/12/06 15:08	SW846 8260B	6041550
Ethylbenzene	ND	RL5	ug/L	340	1000	1000	04/13/06 02:32	SW846 8260B	6042169
Hexachlorobutadiene	ND	"UJ"	ug/L	0.670	1.00	1	04/12/06 15:08	SW846 8260B	6041550
2-Hexanone	ND	RL5	ug/L	2530	50000	1000	04/13/06 02:32	SW846 8260B	6042169
Isopropylbenzene	ND	"UJ"	ug/L	0.340	1.00	1	04/12/06 15:08	SW846 8260B	6041550
p-Isopropyltoluene	ND	"UJ"	ug/L	0.340	1.00	1	04/12/06 15:08	SW846 8260B	6041550
Diisopropyl Ether	ND	"UJ"	ug/L	0.420	1.00	1	04/12/06 15:08	SW846 8260B	6041550
Methyl tert-Butyl Ether	25300	"R"	ug/L	320	1000	1000	04/13/06 02:32	SW846 8260B	6042169
Methylene Chloride	ND	"UJ"	ug/L	1.26	5.00	1	04/12/06 15:08	SW846 8260B	6041550
4-Methyl-2-pentanone	ND	RL5	ug/L	4250	50000	1000	04/13/06 02:32	SW846 8260B	6042169
Naphthalene	ND 3.43	"UJ"	ug/L	1.13	5.00	1	04/12/06 15:08	SW846 8260B	6041550
n-Propylbenzene	ND	"UJ"	ug/L	0.370	1.00	1	04/12/06 15:08	SW846 8260B	6041550
Styrene	ND	RL5	ug/L	390	1000	1000	04/13/06 02:32	SW846 8260B	6042169
1,1,1,2-Tetrachloroethane	ND	RL5	ug/L	370	1000	1000	04/13/06 02:32	SW846 8260B	6042169
1,1,2,2-Tetrachloroethane	ND	"UJ"	ug/L	0.490	1.00	1	04/12/06 15:08	SW846 8260B	6041550
Tetrachloroethene	ND	RL5	ug/L	390	1000	1000	04/13/06 02:32	SW846 8260B	6042169
Toluene	ND	RL5	ug/L	280	1000	1000	04/13/06 02:32	SW846 8260B	6042169
1,2,3-Trichlorobenzene	ND	"UJ"	ug/L	0.560	2.00	1	04/12/06 15:08	SW846 8260B	6041550
1,2,4-Trichlorobenzene	ND	"UJ"	ug/L	0.790	2.00	1	04/12/06 15:08	SW846 8260B	6041550
1,1,2-Trichloroethane	ND	RL5	ug/L	420	1000	1000	04/13/06 02:32	SW846 8260B	6042169
1,1,1-Trichloroethane	ND	"UJ" "R"	ug/L	0.400	1.00	1	04/12/06 15:08	SW846 8260B	6041550
Trichloroethene	ND	"UJ"	ug/L	0.450	1.00	1	04/12/06 15:08	SW846 8260B	6041550
Trichlorofluoromethane	ND	"R"	ug/L	0.480	1.00	1	04/12/06 15:08	SW846 8260B	6041550
1,2,3-Trichloropropane	ND	"UJ"	ug/L	0.560	1.00	1	04/12/06 15:08	SW846 8260B	6041550
1,3,5-Trimethylbenzene	3.05	"J"	ug/L	0.280	1.00	1	04/12/06 15:08	SW846 8260B	6041550
1,2,4-Trimethylbenzene	4.31	"J"	ug/L	0.340	1.00	1	04/12/06 15:08	SW846 8260B	6041550
Vinyl chloride	ND	"UJ" "R"	ug/L	0.430	1.00	1	04/12/06 15:08	SW846 8260B	6041550
Xylenes, total	ND	RL5	ug/L	820	3000	1000	04/13/06 02:32	SW846 8260B	6042169
Surr: 1,2-Dichloroethane-d4 (70-130%)	*30 %*	*Z*				*1*	*04/12/06 15:08*	*SW846 8260B*	*6041550*
Surr: 1,2-Dichloroethane-d4 (70-130%)	*109 %*					*1*	*04/13/06 02:32*	*SW846 8260B*	*6042169*
Surr: Dibromofluoromethane (79-122%)	*132 %*	*Z*				*1*	*04/12/06 15:08*	*SW846 8260B*	*6041550*
Surr: Dibromofluoromethane (79-122%)	*99 %*					*1*	*04/13/06 02:32*	*SW846 8260B*	*6042169*
Surr: Toluene-d8 (78-121%)	*95 %*					*1*	*04/12/06 15:08*	*SW846 8260B*	*6041550*
Surr: Toluene-d8 (78-121%)	*85 %*					*1*	*04/13/06 02:32*	*SW846 8260B*	*6042169*
Surr: 4-Bromofluorobenzene (78-126%)	*124 %*					*1*	*04/12/06 15:08*	*SW846 8260B*	*6041550*
Surr: 4-Bromofluorobenzene (78-126%)	*105 %*					*1*	*04/13/06 02:32*	*SW846 8260B*	*6042169*

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	URS Corporation (St. Louis)/SHELL (13668)	Work Order:	NPD0934
	1001 Highlands Plaza Dr. West, Suite 300	Project Name:	170 E. Rand Avenue, Hartford, IL
	St. Louis, MO 63110	Project Number:	SAP 340061
Attn	Jeff Adams	Received:	04/08/06 08:30

DATA QUALIFIERS AND DEFINITIONS

J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
RL5	Reporting limit raised due to high single peak analyte.
Z	Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
Z2	Surrogate recovery was above the acceptance limits. Data not impacted.

METHOD MODIFICATION NOTES

West Fenceline Data Review

Laboratory SDG: NPD1163

Reviewer: Tony Sedlacek

Date Reviewed: 2/26/2007

Guidance: USEPA Contract Laboratory National Functional Guidelines for Organic Data Review (USEPA 1999).

Applicable Work Plan: West Fenceline P-93 Dissolved Phase Benzene Investigation (2006)

Sample Identification #	Sample Identification #
P9306GWP62.5	TB04100604

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that 1,2-dichloroethane-d_4 and dibromofluoromethane surrogate recoveries for were outside evaluation criteria. This issue is addressed further in the appropriate section below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within QAPP limits?

Yes

Field ID	Parameter	Analyte	Qualification
N/A			

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

Blank ID	Parameter	Analyte	Concentration	Units
N/A				

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Field ID	Parameter	Analyte	New RL	Qualification
N/A				

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria
N/A					

Analytical data that required qualification based on LCS data are included in the table below. Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
N/A			

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Field ID	Parameter	Surrogate	Recovery	Criteria
P9306GWP62.5	VOCs	1,2-Dichlorethane-d_4	**3**	70-130
P9306GWP62.5	VOCs	Dibromofluoromethane	**33**	79-122

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
P9306GWP62.5	VOCs	All detects/nondetects	**J/R**

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples reported as part of this SDG?

No

Were MS/MSD recoveries within evaluation criteria?

N/A

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
N/A					

Analytical data that required qualification based on MS/MSD data are included in the table below.

Field ID	Parameter	Analyte	Qualification
N/A			

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

Were laboratory duplicate sample RPDs within criteria?

N/A

Field ID	Parameter	Analyte	RPD	Criteria
N/A				

Data qualified due to outlying laboratory duplicate recoveries are identified below:

Field ID	Parameter	Analyte	Qualification
N/A			

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

Field ID	Field Duplicate ID
N/A	

Were field duplicates within evaluation criteria?

N/A

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
N/A					

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Analytes were detected in sample that were diluted.

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run ***was not*** reported:

Field ID	Parameter	Dilution Factor
N/A		

11.0 Additional Qualifications

Were additional qualifications applied?

No

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April 28, 2006

Client: URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn: Amelia Turnell

Work Order: NPD1163
Project Name: West Fenceline P-93 Project
Project Nbr: SAP 340061
P/O Nbr: 97216640
Date Received: 04/11/06

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
P9306GWP62.5	NPD1163-01	04/10/06 09:20
TB04100604	NPD1163-02	04/10/06 00:01

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

Additional Laboratory Comments:
Per enclosed Chain of Custody, "samples were properly preserved and received in good condition on 4/11/06. Analysis was extracted and performed within method required holding times following Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846)". All QC results were within acceptable limits. Initial and Continuing Calibration requirements were met. Package was completed as a "Level IV".

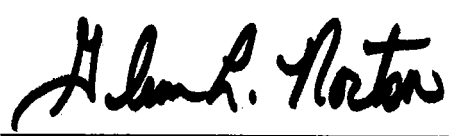
Please note for P9306GWP62.5 (NPD1163-01): Surrogates 1,2-Dichloroethane-d4 and Dibromofluoromethane were outside laboratory acceptable QC limit biased low in the 1X analysis due matrix interference. Ethylbenzene, Toluene, and Total Xylene were reported results are greater than the upper level of the calibration due to high concentration of Benzene in this sample. These analytes were flagged with an "E".

Organics: Unknown analyte concentrations were determined using the average response factor from the initial calibration curve for all analytes whose % RSD is less than or equal to 15. All other analyte concentrations were determined using linear regression analysis. Copies of curves for compounds with %RSD's greater than 15 are supplied.

As you review this data package, please call me if you require any additional information at # 1-800-765-0980 ext 1256.
Illinois Certification Number: 001177

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

Report Approved By:



TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	URS Corporation (St. Louis)/SHELL (13668)	Work Order:	NPD1163
	1001 Highlands Plaza Dr. West, Suite 300	Project Name:	West Fenceline P-93 Project
	St. Louis, MO 63110	Project Number:	SAP 340061
Attn	Amelia Turnell	Received:	04/11/06 08:30

Glenn Lee Norton

Data Package Coordinator

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Amelia Turnell

Work Order: NPD1163
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 04/11/06 08:30

ANALYTICAL REPORT

Sample ID: NPD1163-01 (P9306GWP62.5 - Water) Sampled: 04/10/06 09:20

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	325	"J"	ug/L	5.91	50.0	1	04/12/06 02:09	SW846 8260B	6042516
Benzene	827000		ug/L	29000	100000	100000	04/13/06 06:36	SW846 8260B	6042516
Bromobenzene	ND	"R"	ug/L	0.470	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Bromochloromethane	ND		ug/L	0.420	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Bromodichloromethane	ND		ug/L	0.380	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Bromoform	ND	"R"	ug/L	0.500	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Bromomethane	4.32	"J"	ug/L	0.600	1.00	1	04/12/06 02:09	SW846 8260B	6042516
2-Butanone	ND	"R"	ug/L	5.09	50.0	1	04/12/06 02:09	SW846 8260B	6042516
sec-Butylbenzene	ND	"R"	ug/L	0.380	1.00	1	04/12/06 02:09	SW846 8260B	6042516
n-Butylbenzene	4.05	"J"	ug/L	0.460	1.00	1	04/12/06 02:09	SW846 8260B	6042516
tert-Butylbenzene	ND	"R"	ug/L	0.390	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Carbon disulfide	ND		ug/L	0.310	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Carbon Tetrachloride	ND		ug/L	0.480	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Chlorobenzene	ND		ug/L	0.320	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Chloroethane	ND		ug/L	0.500	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Chloroform	ND		ug/L	0.380	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Chloromethane	ND		ug/L	0.460	1.00	1	04/12/06 02:09	SW846 8260B	6042516
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	04/12/06 02:09	SW846 8260B	6042516
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	04/12/06 02:09	SW846 8260B	6042516
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	04/12/06 02:09	SW846 8260B	6042516
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Dibromomethane	ND		ug/L	0.570	1.00	1	04/12/06 02:09	SW846 8260B	6042516
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	04/12/06 02:09	SW846 8260B	6042516
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	04/12/06 02:09	SW846 8260B	6042516
1,2-Dichlorobenzene	ND		ug/L	0.370	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	04/12/06 02:09	SW846 8260B	6042516
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	04/12/06 02:09	SW846 8260B	6042516
1,2-Dichloroethane	ND		ug/L	0.280	1.00	1	04/12/06 02:09	SW846 8260B	6042516
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	04/12/06 02:09	SW846 8260B	6042516
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	04/12/06 02:09	SW846 8260B	6042516
trans-1,2-Dichloroethene	ND		ug/L	0.340	1.00	1	04/12/06 02:09	SW846 8260B	6042516
1,3-Dichloropropane	ND		ug/L	0.630	1.00	1	04/12/06 02:09	SW846 8260B	6042516
1,2-Dichloropropane	ND		ug/L	0.500	1.00	1	04/12/06 02:09	SW846 8260B	6042516
2,2-Dichloropropane	ND		ug/L	0.660	1.00	1	04/12/06 02:09	SW846 8260B	6042516
cis-1,3-Dichloropropene	ND		ug/L	0.450	1.00	1	04/12/06 02:09	SW846 8260B	6042516
trans-1,3-Dichloropropene	ND		ug/L	0.490	1.00	1	04/12/06 02:09	SW846 8260B	6042516
1,1-Dichloropropene	ND	"R"	ug/L	0.510	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Ethylbenzene	>100 ~~401~~	E "J"	ug/L	0.340	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Hexachlorobutadiene	ND	"R"	ug/L	0.670	1.00	1	04/12/06 02:09	SW846 8260B	6042516
2-Hexanone	ND	"R"	ug/L	2.53	50.0	1	04/12/06 02:09	SW846 8260B	6042516
Isopropylbenzene	45.4	"J"	ug/L	0.340	1.00	1	04/12/06 02:09	SW846 8260B	6042516
p-Isopropyltoluene	ND	"R"	ug/L	0.340	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Methyl tert-Butyl Ether	18600		ug/L	320	1000	1000	04/13/06 06:06	SW846 8260B	6042516
Methylene Chloride	ND	"R"	ug/L	1.26	5.00	1	04/12/06 02:09	SW846 8260B	6042516

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Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Amelia Turnell

Work Order: NPD1163
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 04/11/06 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPD1163-01 (P9306GWP62.5 - Water) - cont. Sampled: 04/10/06 09:20									
Volatile Organic Compounds by EPA Method 8260B - cont.									
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	04/12/06 02:09	SW846 8260B	6042516
Naphthalene	104	J	ug/L	1.13	5.00	1	04/12/06 02:09	SW846 8260B	6042516
n-Propylbenzene	118	J	ug/L	0.370	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Styrene	ND		ug/L	0.390	1.00	1	04/12/06 02:09	SW846 8260B	6042516
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	04/12/06 02:09	SW846 8260B	6042516
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Tetrachloroethene	ND		ug/L	0.390	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Toluene	~~>100 491000~~	E	ug/L	280	1000	1000	04/13/06 06:06	SW846 8260B	6042516
1,2,3-Trichlorobenzene	ND		ug/L	0.560	2.00	1	04/12/06 02:09	SW846 8260B	6042516
1,2,4-Trichlorobenzene	ND		ug/L	0.790	2.00	1	04/12/06 02:09	SW846 8260B	6042516
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	04/12/06 02:09	SW846 8260B	6042516
1,1,1-Trichloroethane	ND		ug/L	0.400	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Trichloroethene	ND		ug/L	0.450	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Trichlorofluoromethane	ND		ug/L	0.480	1.00	1	04/12/06 02:09	SW846 8260B	6042516
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	04/12/06 02:09	SW846 8260B	6042516
1,3,5-Trimethylbenzene	56.3	J	ug/L	0.280	1.00	1	04/12/06 02:09	SW846 8260B	6042516
1,2,4-Trimethylbenzene	164	J	ug/L	0.340	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Vinyl chloride	ND		ug/L	0.430	1.00	1	04/12/06 02:09	SW846 8260B	6042516
Xylenes, total	~~>100 791~~	~~E~~ J	ug/L	0.820	3.00	1	04/12/06 02:09	SW846 8260B	6042516
Surr: 1,2-Dichloroethane-d4 (70-130%)	*3 %*	*Z*				*1*	*04/12/06 02:09*	*SW846 8260B*	*6042516*
Surr: Dibromofluoromethane (79-122%)	*33 %*	*Z*				*1*	*04/12/06 02:09*	*SW846 8260B*	*6042516*
Surr: Toluene-d8 (78-121%)	*86 %*					*1*	*04/12/06 02:09*	*SW846 8260B*	*6042516*
Surr: 4-Bromofluorobenzene (78-126%)	*117 %*					*1*	*04/12/06 02:09*	*SW846 8260B*	*6042516*
Sample ID: NPD1163-02 (TB04100604 - Water) Sampled: 04/10/06 00:01									
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND		ug/L	5.91	50.0	1	04/11/06 23:36	SW846 8260B	6042516
Benzene	ND		ug/L	0.290	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Bromobenzene	ND		ug/L	0.470	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Bromochloromethane	ND		ug/L	0.420	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Bromodichloromethane	ND		ug/L	0.380	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Bromoform	ND		ug/L	0.500	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Bromomethane	ND		ug/L	0.600	1.00	1	04/11/06 23:36	SW846 8260B	6042516
2-Butanone	ND		ug/L	5.09	50.0	1	04/11/06 23:36	SW846 8260B	6042516
sec-Butylbenzene	ND		ug/L	0.380	1.00	1	04/11/06 23:36	SW846 8260B	6042516
n-Butylbenzene	ND		ug/L	0.460	1.00	1	04/11/06 23:36	SW846 8260B	6042516
tert-Butylbenzene	ND		ug/L	0.390	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Carbon disulfide	ND		ug/L	0.310	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Carbon Tetrachloride	ND		ug/L	0.480	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Chlorobenzene	ND		ug/L	0.320	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Chloroethane	ND		ug/L	0.500	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Chloroform	ND		ug/L	0.380	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Chloromethane	ND		ug/L	0.460	1.00	1	04/11/06 23:36	SW846 8260B	6042516

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Amelia Turnell

Work Order: NPD1163
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 04/11/06 08:30

ANALYTICAL REPORT

Sample ID: NPD1163-02 (TB04100604 - Water) - cont. Sampled: 04/10/06 00:01

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	04/11/06 23:36	SW846 8260B	6042516
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	04/11/06 23:36	SW846 8260B	6042516
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	04/11/06 23:36	SW846 8260B	6042516
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Dibromomethane	ND		ug/L	0.570	1.00	1	04/11/06 23:36	SW846 8260B	6042516
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	04/11/06 23:36	SW846 8260B	6042516
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	04/11/06 23:36	SW846 8260B	6042516
1,2-Dichlorobenzene	ND		ug/L	0.370	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	04/11/06 23:36	SW846 8260B	6042516
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	04/11/06 23:36	SW846 8260B	6042516
1,2-Dichloroethane	ND		ug/L	0.280	1.00	1	04/11/06 23:36	SW846 8260B	6042516
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	04/11/06 23:36	SW846 8260B	6042516
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	04/11/06 23:36	SW846 8260B	6042516
trans-1,2-Dichloroethene	ND		ug/L	0.340	1.00	1	04/11/06 23:36	SW846 8260B	6042516
1,3-Dichloropropane	ND		ug/L	0.630	1.00	1	04/11/06 23:36	SW846 8260B	6042516
1,2-Dichloropropane	ND		ug/L	0.500	1.00	1	04/11/06 23:36	SW846 8260B	6042516
2,2-Dichloropropane	ND		ug/L	0.660	1.00	1	04/11/06 23:36	SW846 8260B	6042516
cis-1,3-Dichloropropene	ND		ug/L	0.450	1.00	1	04/11/06 23:36	SW846 8260B	6042516
trans-1,3-Dichloropropene	ND		ug/L	0.490	1.00	1	04/11/06 23:36	SW846 8260B	6042516
1,1-Dichloropropene	ND		ug/L	0.510	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Ethylbenzene	ND		ug/L	0.340	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Hexachlorobutadiene	ND		ug/L	0.670	1.00	1	04/11/06 23:36	SW846 8260B	6042516
2-Hexanone	ND		ug/L	2.53	50.0	1	04/11/06 23:36	SW846 8260B	6042516
Isopropylbenzene	ND		ug/L	0.340	1.00	1	04/11/06 23:36	SW846 8260B	6042516
p-Isopropyltoluene	ND		ug/L	0.340	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Methyl tert-Butyl Ether	ND		ug/L	0.320	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Methylene Chloride	ND		ug/L	1.26	5.00	1	04/11/06 23:36	SW846 8260B	6042516
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	04/11/06 23:36	SW846 8260B	6042516
Naphthalene	ND		ug/L	1.13	5.00	1	04/11/06 23:36	SW846 8260B	6042516
n-Propylbenzene	ND		ug/L	0.370	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Styrene	ND		ug/L	0.390	1.00	1	04/11/06 23:36	SW846 8260B	6042516
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	04/11/06 23:36	SW846 8260B	6042516
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Tetrachloroethene	ND		ug/L	0.390	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Toluene	ND		ug/L	0.280	1.00	1	04/11/06 23:36	SW846 8260B	6042516
1,2,3-Trichlorobenzene	ND		ug/L	0.560	2.00	1	04/11/06 23:36	SW846 8260B	6042516
1,2,4-Trichlorobenzene	ND		ug/L	0.790	2.00	1	04/11/06 23:36	SW846 8260B	6042516
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	04/11/06 23:36	SW846 8260B	6042516
1,1,1-Trichloroethane	ND		ug/L	0.400	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Trichloroethene	ND		ug/L	0.450	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Trichlorofluoromethane	ND		ug/L	0.480	1.00	1	04/11/06 23:36	SW846 8260B	6042516
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	04/11/06 23:36	SW846 8260B	6042516
1,3,5-Trimethylbenzene	ND		ug/L	0.280	1.00	1	04/11/06 23:36	SW846 8260B	6042516
1,2,4-Trimethylbenzene	ND		ug/L	0.340	1.00	1	04/11/06 23:36	SW846 8260B	6042516
Vinyl chloride	ND		ug/L	0.430	1.00	1	04/11/06 23:36	SW846 8260B	6042516

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Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Amelia Turnell

Work Order: NPD1163
Project Name: West Fenceline P-93 Project
Project Number: SAP 340061
Received: 04/11/06 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPD1163-02 (TB04100604 - Water) - cont. Sampled: 04/10/06 00:01									
Volatile Organic Compounds by EPA Method 8260B - cont.									
Xylenes, total	ND		ug/L	0.820	3.00	1	04/11/06 23:36	SW846 8260B	6042516
Surr: 1,2-Dichloroethane-d4 (70-130%)	*108 %*					*1*	*04/11/06 23:36*	*SW846 8260B*	*6042516*
Surr: Dibromofluoromethane (79-122%)	*100 %*					*1*	*04/11/06 23:36*	*SW846 8260B*	*6042516*
Surr: Toluene-d8 (78-121%)	*86 %*					*1*	*04/11/06 23:36*	*SW846 8260B*	*6042516*
Surr: 4-Bromofluorobenzene (78-126%)	*104 %*					*1*	*04/11/06 23:36*	*SW846 8260B*	*6042516*

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Client	URS Corporation (St. Louis)/SHELL (13668)	Work Order:	NPD1163
	1001 Highlands Plaza Dr. West, Suite 300	Project Name:	West Fenceline P-93 Project
	St. Louis, MO 63110	Project Number:	SAP 340061
Attn	Amelia Turnell	Received:	04/11/06 08:30

DATA QUALIFIERS AND DEFINITIONS

E	Concentration exceeds the calibration range and therefore result is semi-quantitative.
Z	Due to sample matrix effects, the surrogate recovery was below the acceptance limits.

METHOD MODIFICATION NOTES

Cooler 1 of 1

TEST AMERICA

☑ 2690 FOSTER CREIGHTON, NASHVILLE, TN 37204 PHONE 800-765-0980 FAX# 616-726-3404

☐ 7602 Commerce Drive, Watertown, WI 53094 Phone 800-833-7036
☐ 704 Enterprise Drive, Cedar Falls, IA 50613 Phone 319-277-2401
☐ 14500 Trinity Blvd., Suite 106, Fort Worth, TX 76155 Phone 817-571-6800
☐ 3601 South Dixie Drive, Dayton, OH 46439 Phone 800-572-9839
☐ 1380 Busch Parkway, Buffalo Grove, IL 60089 Phone 847-808-7766
☐ 1110 Elkton Drive, Suite A, Colorado Springs, CO 80907 Phone 719-593-9911
☐ Other _____

Shell Oil Products US Chain Of Custody Record

SOP US Project Manager to be Invoiced:

☐ ENVIRONMENTAL SERVICES
☐ TECHNICAL SERVICES
☐ RMT HOUSTON
☐ BILL CONSULTANT

NAME OF PM TO BILL: Herb Hand (SOPUS)

NAME OF TS TO BILL:

☑ SHELL RATES ☐ STATE REIMBURSEMENT RATES

INCIDENT # (S&E ONLY): 9 7 2 1 6 6 3 4

SAP or CRMT # (TS/CRMT):

DATE: 4/10/06
PAGE: 1 of 1

Invoice with _____ sampling events for this site, sampled through the following date: _____

CONSULTANT COMPANY: URS Corporation

ADDRESS: 1001 Highlands Plaza Drive West; Suite 300

CITY: St. Louis, MO 63110

TELEPHONE: (office) 314-429-0100 (cell) 314-409-6460

FAX: (Office) 431-429-0462 (Trailer) 618-254-1512

E-MAIL: Jeff Adams Thomas_Adams@urscorp.com

SITE ADDRESS (Street and City): P93 West Fenceline
SOPUS-[redacted]170 East Rand Avenue; Hartford, IL 62048

PROJECT CONTACT (Report to): Herb Hand (SOPUS) (Copy to): Jeff Adams (URS)

CONSULTANT PROJECT NO.: P93 West Fenceline
SOPUS-[redacted]

SAMPLER NAME(S) (Print): Mike Corbett

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☐ STANDARD (10 DAY) ☑ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

TEMPERATURE ON RECEIPT C°

REQUESTED ANALYSIS if more than one method is listed, circle one

SPECIAL INSTRUCTIONS OR NOTES :
Level 4 QC Deliverables Temp Blank included

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOCs Method 8260	TPH-GRO (8015)	TPH-DRO (8015)	8260 / 8015 Moisture	Level 4 QC Deliverables	Container PID Readings or Laboratory Notes
	P9306GWP62.5	4/10/06	0920	water	X					3	X				X	NPD1163 -1
	TB04100604	4/10/06		water						1	X				X	04/16/06 23:59 -2

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Mike Corbett 4/10/06 1800			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	JN	4-11-06	0830

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

05/1/01 Revision

West Fenceline Data Review

Laboratory SDG: NPD1302

Reviewer: Tony Sedlacek

Date Reviewed: 2/26/2007

Guidance: USEPA Contract Laboratory National Functional Guidelines for Organic Data Review (USEPA 1999).

Applicable Work Plan: West Fenceline P-93 Dissolved Phase Benzene Investigation (2006)

Sample Identification #	Sample Identification #
P93309GWP66	P9309GWP66D
P9309GWP52	TB04110605
P9309GWP52EB	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that surrogate recoveries were outside evaluation criteria. Analytes were detected in the trip blank, equipment blank and method blank samples. In addition, samples were diluted due to high levels of target analytes. These issues are addressed further in the appropriate sections below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within QAPP limits?

Yes

Field ID	Parameter	Analyte	Qualification
N/A			

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration	Units
TB04110605	VOCs	1,2,3-Trichlorobenzene	0.870	µg/L
P9309GWP52EB	VOCs	Benzene	1.01	µg/L
P9309GWP52EB	VOCs	1,2-dichloroethane	9.64	µg/L
P9309GWP52EB	VOCs	trans-1,3-dichloropropene	1.20	µg/L
P9309GWP52EB	VOCs	Ethylbenzene	1.40	µg/L
P9309GWP52EB	VOCs	Methyl tert-butyl ether	2.63	µg/L
P9309GWP52EB	VOCs	Naphthalene	4.54	µg/L
P9309GWP52EB	VOCs	1,2,4-Trimethylbenzene	0.610	µg/L
P9309GWP52EB	VOCs	Xylenes, total	1.12	µg/L
6042030-BLK1	VOCs	Benzene	0.680	µg/L
6042030-BLK1	VOCs	1,2,3-Trichlorobenzene	0.870	µg/L
6042030-BLK2	VOCs	Hexachlorobutadiene	1.11	µg/L
6042030-BLK2	VOCs	Naphthalene	1.39	µg/L
6042030-BLK2	VOCs	1,2,3-Trichlorobenzene	1.73	µg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Field ID	Parameter	Analyte	New RL	Qualification
N/A				

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria
N/A					

Analytical data that required qualification based on LCS data are included in the table below. Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
N/A			

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Field ID	Parameter	Surrogate	Recovery	Criteria
P9309GWP66	VOCs	1,2-Dichloroethane-d_4	**16**	70-130
P9309GWP66	VOCs	Dibromofluoromethane	**63**	79-122

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Sample P9309GWP66 was diluted and analyzed as part of batch 6044135. The benzene result was reported from the diluted sample; therefore, benzene was not qualified.

Field ID	Parameter	Analyte	Qualification
P9309GWP66	VOCs	All detects/nondetects	**J/UJ**

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples reported as part of this SDG?

No

Were MS/MSD recoveries within evaluation criteria?

N/A

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
N/A					

Analytical data that required qualification based on MS/MSD data are included in the table below.

Field ID	Parameter	Analyte	Qualification
N/A			

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

Were laboratory duplicate sample RPDs within criteria?

N/A

Field ID	Parameter	Analyte	RPD	Criteria
N/A				

Data qualified due to outlying laboratory duplicate recoveries are identified below:

Field ID	Parameter	Analyte	Qualification
N/A			

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
P9309GWP66	P9309GWP66D

Were field duplicates within evaluation criteria?

Yes

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
N/A					

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

No

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run ***was not*** reported:

Field ID	Parameter	Dilution Factor
P9309GWP66D	VOCs	10
P9309GWP52	VOCs	10

11.0 Additional Qualifications

Were additional qualifications applied?

No

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

May 12, 2006

Client: URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn: Amelia Turnell

Work Order: NPD1302
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Nbr: SAP 340061
P/O Nbr: 97216634
Date Received: 04/12/06

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
P9309GWP66	NPD1302-01	04/11/06 15:00
P9309GWP66D	NPD1302-02	04/11/06 15:00
P9309GWP52	NPD1302-03	04/11/06 14:30
TB04110605	NPD1302-04	04/11/06 00:01
P9309GWP52EB	NPD1302-05	04/10/06 13:15

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

Additional Laboratory Comments:
Per enclosed Chain of Custody, "samples were properly preserved and received in good condition on 4/12/06. Analysis was extracted and performed within method required holding times following Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846)". Initial and Continuing Calibration requirements were met. Package was completed as a "Level IV" with 'NJ' electronic data deliverables.

Please note for QC batch 6042030: Naphthalene and 1,2,3-Triclorobenzene in the method prep was detected above the MDL but less than the MRL in 6042030-BLK2. Hexachloropropane was detected above the MRL in 6042030-BLK2. No impact on data results. 1,2,3-Triclorobenzene in the method prep was detected above the MDL but less than the MRL in 6042030-BLK1. Surrogates 1,2-Dichloroethane--d4 and Dibromofluoromethane in P9309GWP66 were outside laboratory acceptable QC limit biased low due to matrix interference.

Organics: Unknown analyte concentrations were determined using the average response factor from the initial calibration curve for all analytes whose % RSD is less than or equal to 15. All other analyte concentrations were determined using linear regression analysis. Copies of curves for compounds with %RSD's greater than 15 are supplied.

As you review this data package, please call me if you require any additional information at # 1-800-765-0980 ext 1256.
Illinois Certification Number: 001177

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

Report Approved By:

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	URS Corporation (St. Louis)/SHELL (13668)	Work Order:	NPD1302
	1001 Highlands Plaza Dr. West, Suite 300	Project Name:	170 E. Rand Avenue, Hartford, IL
	St. Louis, MO 63110	Project Number:	SAP 340061
Attn	Amelia Turnell	Received:	04/12/06 08:00

Glenn Lee Norton
Data Package Coordinator

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Amelia Turnell

Work Order: NPD1302
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Number: SAP 340061
Received: 04/12/06 08:00

ANALYTICAL REPORT

Sample ID: NPD1302-01 (P9309GWP66 - Water) Sampled: 04/11/06 15:00

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	ND	"UJ"	ug/L	5.91	50.0	1	04/15/06 07:24	SW846 8260B	6042030
~~Benzene~~	~~629000~~	~~E1 "J"~~	~~ug/L~~	~~580~~	~~2000~~	~~2000~~	~~04/16/06 16:51~~	~~SW846 8260B~~	~~6042030~~
Benzene	**295000**		ug/L	1450	5000	5000	04/17/06 13:09	SW846 8260B	6044135
Bromobenzene	ND	"UJ"	ug/L	0.470	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Bromochloromethane	ND		ug/L	0.420	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Bromodichloromethane	ND		ug/L	0.380	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Bromoform	ND		ug/L	0.500	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Bromomethane	ND	"UJ"	ug/L	0.600	1.00	1	04/15/06 07:24	SW846 8260B	6042030
2-Butanone	ND	"UJ"	ug/L	5.09	50.0	1	04/15/06 07:24	SW846 8260B	6042030
sec-Butylbenzene	**4.54**	"J"	ug/L	0.380	1.00	1	04/15/06 07:24	SW846 8260B	6042030
n-Butylbenzene	ND	"UJ"	ug/L	0.460	1.00	1	04/15/06 07:24	SW846 8260B	6042030
tert-Butylbenzene	**0.590**	"J"	ug/L	0.390	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Carbon disulfide	ND	"UJ"	ug/L	0.310	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Carbon Tetrachloride	ND		ug/L	0.480	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Chlorobenzene	ND		ug/L	0.320	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Chloroethane	ND		ug/L	0.500	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Chloroform	ND		ug/L	0.380	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Chloromethane	ND		ug/L	0.460	1.00	1	04/15/06 07:24	SW846 8260B	6042030
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	04/15/06 07:24	SW846 8260B	6042030
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	04/15/06 07:24	SW846 8260B	6042030
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	04/15/06 07:24	SW846 8260B	6042030
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Dibromomethane	ND		ug/L	0.570	1.00	1	04/15/06 07:24	SW846 8260B	6042030
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	04/15/06 07:24	SW846 8260B	6042030
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	04/15/06 07:24	SW846 8260B	6042030
1,2-Dichlorobenzene	ND		ug/L	0.370	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	04/15/06 07:24	SW846 8260B	6042030
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	04/15/06 07:24	SW846 8260B	6042030
1,2-Dichloroethane	ND		ug/L	0.280	1.00	1	04/15/06 07:24	SW846 8260B	6042030
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	04/15/06 07:24	SW846 8260B	6042030
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	04/15/06 07:24	SW846 8260B	6042030
trans-1,2-Dichloroethene	ND		ug/L	0.340	1.00	1	04/15/06 07:24	SW846 8260B	6042030
1,3-Dichloropropane	ND		ug/L	0.630	1.00	1	04/15/06 07:24	SW846 8260B	6042030
1,2-Dichloropropane	ND		ug/L	0.500	1.00	1	04/15/06 07:24	SW846 8260B	6042030
2,2-Dichloropropane	ND		ug/L	0.660	1.00	1	04/15/06 07:24	SW846 8260B	6042030
cis-1,3-Dichloropropene	ND		ug/L	0.450	1.00	1	04/15/06 07:24	SW846 8260B	6042030
trans-1,3-Dichloropropene	ND		ug/L	0.490	1.00	1	04/15/06 07:24	SW846 8260B	6042030
1,1-Dichloropropene	ND	"UJ"	ug/L	0.510	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Ethylbenzene	**740**		ug/L	3.40	10.0	10	04/15/06 07:54	SW846 8260B	6042030
Hexachlorobutadiene	ND	"UJ"	ug/L	0.670	1.00	1	04/15/06 07:24	SW846 8260B	6042030
2-Hexanone	ND	"UJ"	ug/L	2.53	50.0	1	04/15/06 07:24	SW846 8260B	6042030
Isopropylbenzene	**15.4**	"J"	ug/L	0.340	1.00	1	04/15/06 07:24	SW846 8260B	6042030
p-Isopropyltoluene	**4.39**	"J"	ug/L	0.340	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Methyl tert-Butyl Ether	**8570**		ug/L	32.0	100	100	04/16/06 16:22	SW846 8260B	6042030

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Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Amelia Turnell

Work Order: NPD1302
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Number: SAP 340061
Received: 04/12/06 08:00

ANALYTICAL REPORT

Sample ID: NPD1302-01 (P9309GWP66 - Water) - cont. Sampled: 04/11/06 15:00

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Methylene Chloride	ND		ug/L	1.26	5.00	1	04/15/06 07:24	SW846 8260B	6042030
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	04/15/06 07:24	SW846 8260B	6042030
Naphthalene	**53.1**		ug/L	1.13	5.00	1	04/15/06 07:24	SW846 8260B	6042030
n-Propylbenzene	**26.2**		ug/L	0.370	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Styrene	ND		ug/L	0.390	1.00	1	04/15/06 07:24	SW846 8260B	6042030
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	04/15/06 07:24	SW846 8260B	6042030
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Tetrachloroethene	ND		ug/L	0.390	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Toluene	**156**		ug/L	0.280	1.00	1	04/15/06 07:24	SW846 8260B	6042030
1,2,3-Trichlorobenzene	ND		ug/L	0.560	2.00	1	04/15/06 07:24	SW846 8260B	6042030
1,2,4-Trichlorobenzene	ND		ug/L	0.790	2.00	1	04/15/06 07:24	SW846 8260B	6042030
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	04/15/06 07:24	SW846 8260B	6042030
1,1,1-Trichloroethane	ND		ug/L	0.400	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Trichloroethene	ND		ug/L	0.450	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Trichlorofluoromethane	ND		ug/L	0.480	1.00	1	04/15/06 07:24	SW846 8260B	6042030
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	04/15/06 07:24	SW846 8260B	6042030
1,3,5-Trimethylbenzene	**35.0**		ug/L	0.280	1.00	1	04/15/06 07:24	SW846 8260B	6042030
1,2,4-Trimethylbenzene	**137**		ug/L	0.340	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Vinyl chloride	ND		ug/L	0.430	1.00	1	04/15/06 07:24	SW846 8260B	6042030
Xylenes, total	**502**		ug/L	0.820	3.00	1	04/15/06 07:24	SW846 8260B	6042030
Surr: 1,2-Dichloroethane-d4 (70-130%)	*16 %*	*Z*				*1*	*04/15/06 07:24*	*SW846 8260B*	*6042030*
Surr: 1,2-Dichloroethane-d4 (70-130%)	*103 %*					*1*	*04/17/06 13:09*	*SW846 8260B*	*6044135*
Surr: Dibromofluoromethane (79-122%)	*63 %*	*Z*				*1*	*04/15/06 07:24*	*SW846 8260B*	*6042030*
Surr: Dibromofluoromethane (79-122%)	*116 %*					*1*	*04/17/06 13:09*	*SW846 8260B*	*6044135*
Surr: Toluene-d8 (78-121%)	*111 %*					*1*	*04/15/06 07:24*	*SW846 8260B*	*6042030*
Surr: Toluene-d8 (78-121%)	*98 %*					*1*	*04/17/06 13:09*	*SW846 8260B*	*6044135*
Surr: 4-Bromofluorobenzene (78-126%)	*118 %*					*1*	*04/15/06 07:24*	*SW846 8260B*	*6042030*
Surr: 4-Bromofluorobenzene (78-126%)	*104 %*					*1*	*04/17/06 13:09*	*SW846 8260B*	*6044135*

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Amelia Turnell

Work Order: NPD1302
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Number: SAP 340061
Received: 04/12/06 08:00

ANALYTICAL REPORT

Sample ID: NPD1302-02 (P9309GWP66D - Water) Sampled: 04/11/06 15:00

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	ND		ug/L	59.1	500	10	04/16/06 13:26	SW846 8260B	6042030
Benzene	**569000**		ug/L	1450	5000	5000	04/16/06 14:24	SW846 8260B	6042030
Bromobenzene	ND		ug/L	4.70	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Bromochloromethane	ND		ug/L	4.20	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Bromodichloromethane	ND		ug/L	3.80	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Bromoform	ND		ug/L	5.00	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Bromomethane	ND		ug/L	6.00	10.0	10	04/16/06 13:26	SW846 8260B	6042030
2-Butanone	ND		ug/L	50.9	500	10	04/16/06 13:26	SW846 8260B	6042030
sec-Butylbenzene	**5.20**	J	ug/L	3.80	10.0	10	04/16/06 13:26	SW846 8260B	6042030
n-Butylbenzene	ND		ug/L	4.60	10.0	10	04/16/06 13:26	SW846 8260B	6042030
tert-Butylbenzene	ND		ug/L	3.90	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Carbon disulfide	ND		ug/L	3.10	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Carbon Tetrachloride	ND		ug/L	4.80	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Chlorobenzene	ND		ug/L	3.20	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Chlorodibromomethane	ND		ug/L	3.60	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Chloroethane	ND		ug/L	5.00	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Chloroform	ND		ug/L	3.80	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Chloromethane	ND		ug/L	4.60	10.0	10	04/16/06 13:26	SW846 8260B	6042030
2-Chlorotoluene	ND		ug/L	2.70	10.0	10	04/16/06 13:26	SW846 8260B	6042030
4-Chlorotoluene	ND		ug/L	3.70	10.0	10	04/16/06 13:26	SW846 8260B	6042030
1,2-Dibromo-3-chloropropane	ND		ug/L	16.4	50.0	10	04/16/06 13:26	SW846 8260B	6042030
1,2-Dibromoethane (EDB)	ND		ug/L	3.80	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Dibromomethane	ND		ug/L	5.70	10.0	10	04/16/06 13:26	SW846 8260B	6042030
1,4-Dichlorobenzene	ND		ug/L	4.60	10.0	10	04/16/06 13:26	SW846 8260B	6042030
1,3-Dichlorobenzene	ND		ug/L	3.60	10.0	10	04/16/06 13:26	SW846 8260B	6042030
1,2-Dichlorobenzene	ND		ug/L	3.70	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Dichlorodifluoromethane	ND		ug/L	4.10	10.0	10	04/16/06 13:26	SW846 8260B	6042030
1,1-Dichloroethane	ND		ug/L	3.20	10.0	10	04/16/06 13:26	SW846 8260B	6042030
1,2-Dichloroethane	ND		ug/L	2.80	10.0	10	04/16/06 13:26	SW846 8260B	6042030
cis-1,2-Dichloroethene	ND		ug/L	3.90	10.0	10	04/16/06 13:26	SW846 8260B	6042030
1,1-Dichloroethene	ND		ug/L	4.50	10.0	10	04/16/06 13:26	SW846 8260B	6042030
trans-1,2-Dichloroethene	ND		ug/L	3.40	10.0	10	04/16/06 13:26	SW846 8260B	6042030
1,3-Dichloropropane	ND		ug/L	6.30	10.0	10	04/16/06 13:26	SW846 8260B	6042030
1,2-Dichloropropane	ND		ug/L	5.00	10.0	10	04/16/06 13:26	SW846 8260B	6042030
2,2-Dichloropropane	ND		ug/L	6.60	10.0	10	04/16/06 13:26	SW846 8260B	6042030
cis-1,3-Dichloropropene	ND		ug/L	4.50	10.0	10	04/16/06 13:26	SW846 8260B	6042030
trans-1,3-Dichloropropene	ND		ug/L	4.90	10.0	10	04/16/06 13:26	SW846 8260B	6042030
1,1-Dichloropropene	ND		ug/L	5.10	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Ethylbenzene	**698**		ug/L	3.40	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Hexachlorobutadiene	ND		ug/L	6.70	10.0	10	04/16/06 13:26	SW846 8260B	6042030
2-Hexanone	ND		ug/L	25.3	500	10	04/16/06 13:26	SW846 8260B	6042030
Isopropylbenzene	ND		ug/L	3.40	10.0	10	04/16/06 13:26	SW846 8260B	6042030
p-Isopropyltoluene	ND		ug/L	3.40	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Methyl tert-Butyl Ether	**8730**		ug/L	64.0	200	200	04/16/06 13:55	SW846 8260B	6042030
Methylene Chloride	ND		ug/L	12.6	50.0	10	04/16/06 13:26	SW846 8260B	6042030

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Amelia Turnell

Work Order: NPD1302
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Number: SAP 340061
Received: 04/12/06 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPD1302-02 (P9309GWP66D - Water) - cont. Sampled: 04/11/06 15:00									
Volatile Organic Compounds by EPA Method 8260B - cont.									
4-Methyl-2-pentanone	ND		ug/L	42.5	500	10	04/16/06 13:26	SW846 8260B	6042030
Naphthalene	**36.2**	J	ug/L	11.3	50.0	10	04/16/06 13:26	SW846 8260B	6042030
n-Propylbenzene	**21.3**		ug/L	3.70	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Styrene	ND		ug/L	3.90	10.0	10	04/16/06 13:26	SW846 8260B	6042030
1,1,1,2-Tetrachloroethane	ND		ug/L	3.70	10.0	10	04/16/06 13:26	SW846 8260B	6042030
1,1,2,2-Tetrachloroethane	ND		ug/L	4.90	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Tetrachloroethene	ND		ug/L	3.90	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Toluene	**130**		ug/L	2.80	10.0	10	04/16/06 13:26	SW846 8260B	6042030
1,2,3-Trichlorobenzene	ND		ug/L	5.60	20.0	10	04/16/06 13:26	SW846 8260B	6042030
1,2,4-Trichlorobenzene	ND		ug/L	7.90	20.0	10	04/16/06 13:26	SW846 8260B	6042030
1,1,2-Trichloroethane	ND		ug/L	4.20	10.0	10	04/16/06 13:26	SW846 8260B	6042030
1,1,1-Trichloroethane	ND		ug/L	4.00	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Trichloroethene	ND		ug/L	4.50	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Trichlorofluoromethane	ND		ug/L	4.80	10.0	10	04/16/06 13:26	SW846 8260B	6042030
1,2,3-Trichloropropane	ND		ug/L	5.60	10.0	10	04/16/06 13:26	SW846 8260B	6042030
1,3,5-Trimethylbenzene	**34.2**		ug/L	2.80	10.0	10	04/16/06 13:26	SW846 8260B	6042030
1,2,4-Trimethylbenzene	**131**		ug/L	3.40	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Vinyl chloride	ND		ug/L	4.30	10.0	10	04/16/06 13:26	SW846 8260B	6042030
Xylenes, total	**548**		ug/L	8.20	30.0	10	04/16/06 13:26	SW846 8260B	6042030
Surr: 1,2-Dichloroethane-d4 (70-130%)	*79 %*	*Z*				*1*	*04/16/06 13:26*	*SW846 8260B*	*6042030*
Surr: Dibromofluoromethane (79-122%)	*81 %*	*Z*				*1*	*04/16/06 13:26*	*SW846 8260B*	*6042030*
Surr: Toluene-d8 (78-121%)	*100 %*					*1*	*04/16/06 13:26*	*SW846 8260B*	*6042030*
Surr: 4-Bromofluorobenzene (78-126%)	*109 %*					*1*	*04/16/06 13:26*	*SW846 8260B*	*6042030*
Sample ID: NPD1302-03 (P9309GWP52 - Water) Sampled: 04/11/06 14:30									
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND		ug/L	59.1	500	10	04/16/06 14:54	SW846 8260B	6042030
Benzene	**250000**		ug/L	1450	5000	5000	04/16/06 15:53	SW846 8260B	6042030
Bromobenzene	ND		ug/L	4.70	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Bromochloromethane	ND		ug/L	4.20	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Bromodichloromethane	ND		ug/L	3.80	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Bromoform	ND		ug/L	5.00	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Bromomethane	ND		ug/L	6.00	10.0	10	04/16/06 14:54	SW846 8260B	6042030
2-Butanone	ND		ug/L	50.9	500	10	04/16/06 14:54	SW846 8260B	6042030
sec-Butylbenzene	**117**		ug/L	3.80	10.0	10	04/16/06 14:54	SW846 8260B	6042030
n-Butylbenzene	ND		ug/L	4.60	10.0	10	04/16/06 14:54	SW846 8260B	6042030
tert-Butylbenzene	**32.8**		ug/L	3.90	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Carbon disulfide	ND		ug/L	3.10	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Carbon Tetrachloride	ND		ug/L	4.80	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Chlorobenzene	ND		ug/L	3.20	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Chlorodibromomethane	ND		ug/L	3.60	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Chloroethane	ND		ug/L	5.00	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Chloroform	ND		ug/L	3.80	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Chloromethane	ND		ug/L	4.60	10.0	10	04/16/06 14:54	SW846 8260B	6042030

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Amelia Turnell

Work Order: NPD1302
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Number: SAP 340061
Received: 04/12/06 08:00

ANALYTICAL REPORT

Sample ID: NPD1302-03 (P9309GWP52 - Water) - cont. Sampled: 04/11/06 14:30

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
2-Chlorotoluene	ND		ug/L	2.70	10.0	10	04/16/06 14:54	SW846 8260B	6042030
4-Chlorotoluene	ND		ug/L	3.70	10.0	10	04/16/06 14:54	SW846 8260B	6042030
1,2-Dibromo-3-chloropropane	ND		ug/L	16.4	50.0	10	04/16/06 14:54	SW846 8260B	6042030
1,2-Dibromoethane (EDB)	ND		ug/L	3.80	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Dibromomethane	ND		ug/L	5.70	10.0	10	04/16/06 14:54	SW846 8260B	6042030
1,4-Dichlorobenzene	ND		ug/L	4.60	10.0	10	04/16/06 14:54	SW846 8260B	6042030
1,3-Dichlorobenzene	ND		ug/L	3.60	10.0	10	04/16/06 14:54	SW846 8260B	6042030
1,2-Dichlorobenzene	ND		ug/L	3.70	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Dichlorodifluoromethane	ND		ug/L	4.10	10.0	10	04/16/06 14:54	SW846 8260B	6042030
1,1-Dichloroethane	ND		ug/L	3.20	10.0	10	04/16/06 14:54	SW846 8260B	6042030
1,2-Dichloroethane	ND		ug/L	2.80	10.0	10	04/16/06 14:54	SW846 8260B	6042030
cis-1,2-Dichloroethene	ND		ug/L	3.90	10.0	10	04/16/06 14:54	SW846 8260B	6042030
1,1-Dichloroethene	ND		ug/L	4.50	10.0	10	04/16/06 14:54	SW846 8260B	6042030
trans-1,2-Dichloroethene	ND		ug/L	3.40	10.0	10	04/16/06 14:54	SW846 8260B	6042030
1,3-Dichloropropane	ND		ug/L	6.30	10.0	10	04/16/06 14:54	SW846 8260B	6042030
1,2-Dichloropropane	ND		ug/L	5.00	10.0	10	04/16/06 14:54	SW846 8260B	6042030
2,2-Dichloropropane	ND		ug/L	6.60	10.0	10	04/16/06 14:54	SW846 8260B	6042030
cis-1,3-Dichloropropene	ND		ug/L	4.50	10.0	10	04/16/06 14:54	SW846 8260B	6042030
trans-1,3-Dichloropropene	ND		ug/L	4.90	10.0	10	04/16/06 14:54	SW846 8260B	6042030
1,1-Dichloropropene	ND		ug/L	5.10	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Ethylbenzene	**1260**		ug/L	3.40	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Hexachlorobutadiene	ND		ug/L	6.70	10.0	10	04/16/06 14:54	SW846 8260B	6042030
2-Hexanone	ND		ug/L	25.3	500	10	04/16/06 14:54	SW846 8260B	6042030
Isopropylbenzene	**123**		ug/L	3.40	10.0	10	04/16/06 14:54	SW846 8260B	6042030
p-Isopropyltoluene	**69.6**		ug/L	3.40	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Methyl tert-Butyl Ether	**10100**		ug/L	64.0	200	200	04/16/06 15:23	SW846 8260B	6042030
Methylene Chloride	ND		ug/L	12.6	50.0	10	04/16/06 14:54	SW846 8260B	6042030
4-Methyl-2-pentanone	ND		ug/L	42.5	500	10	04/16/06 14:54	SW846 8260B	6042030
Naphthalene	**215**		ug/L	11.3	50.0	10	04/16/06 14:54	SW846 8260B	6042030
n-Propylbenzene	**310**		ug/L	3.70	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Styrene	ND		ug/L	3.90	10.0	10	04/16/06 14:54	SW846 8260B	6042030
1,1,1,2-Tetrachloroethane	ND		ug/L	3.70	10.0	10	04/16/06 14:54	SW846 8260B	6042030
1,1,2,2-Tetrachloroethane	ND		ug/L	4.90	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Tetrachloroethene	ND		ug/L	3.90	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Toluene	**68.5**		ug/L	2.80	10.0	10	04/16/06 14:54	SW846 8260B	6042030
1,2,3-Trichlorobenzene	ND		ug/L	5.60	20.0	10	04/16/06 14:54	SW846 8260B	6042030
1,2,4-Trichlorobenzene	ND		ug/L	7.90	20.0	10	04/16/06 14:54	SW846 8260B	6042030
1,1,2-Trichloroethane	ND		ug/L	4.20	10.0	10	04/16/06 14:54	SW846 8260B	6042030
1,1,1-Trichloroethane	ND		ug/L	4.00	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Trichloroethene	ND		ug/L	4.50	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Trichlorofluoromethane	ND		ug/L	4.80	10.0	10	04/16/06 14:54	SW846 8260B	6042030
1,2,3-Trichloropropane	ND		ug/L	5.60	10.0	10	04/16/06 14:54	SW846 8260B	6042030
1,3,5-Trimethylbenzene	**485**		ug/L	2.80	10.0	10	04/16/06 14:54	SW846 8260B	6042030
1,2,4-Trimethylbenzene	**1770**		ug/L	3.40	10.0	10	04/16/06 14:54	SW846 8260B	6042030
Vinyl chloride	ND		ug/L	4.30	10.0	10	04/16/06 14:54	SW846 8260B	6042030

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Amelia Turnell

Work Order: NPD1302
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Number: SAP 340061
Received: 04/12/06 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPD1302-03 (P9309GWP52 - Water) - cont. Sampled: 04/11/06 14:30									
Volatile Organic Compounds by EPA Method 8260B - cont.									
Xylenes, total	**2340**		ug/L	8.20	30.0	10	04/16/06 14:54	SW846 8260B	6042030
Surr: 1,2-Dichloroethane-d4 (70-130%)	*94 %*					*1*	*04/16/06 14:54*	*SW846 8260B*	*6042030*
Surr: Dibromofluoromethane (79-122%)	*94 %*					*1*	*04/16/06 14:54*	*SW846 8260B*	*6042030*
Surr: Toluene-d8 (78-121%)	*97 %*					*1*	*04/16/06 14:54*	*SW846 8260B*	*6042030*
Surr: 4-Bromofluorobenzene (78-126%)	*105 %*					*1*	*04/16/06 14:54*	*SW846 8260B*	*6042030*
Sample ID: NPD1302-04 (TB04110605 - Water) Sampled: 04/11/06 00:01									
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND		ug/L	5.91	50.0	1	04/15/06 04:28	SW846 8260B	6042030
Benzene	ND		ug/L	0.290	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Bromobenzene	ND		ug/L	0.470	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Bromochloromethane	ND		ug/L	0.420	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Bromodichloromethane	ND		ug/L	0.380	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Bromoform	ND		ug/L	0.500	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Bromomethane	ND		ug/L	0.600	1.00	1	04/15/06 04:28	SW846 8260B	6042030
2-Butanone	ND		ug/L	5.09	50.0	1	04/15/06 04:28	SW846 8260B	6042030
sec-Butylbenzene	ND		ug/L	0.380	1.00	1	04/15/06 04:28	SW846 8260B	6042030
n-Butylbenzene	ND		ug/L	0.460	1.00	1	04/15/06 04:28	SW846 8260B	6042030
tert-Butylbenzene	ND		ug/L	0.390	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Carbon disulfide	ND		ug/L	0.310	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Carbon Tetrachloride	ND		ug/L	0.480	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Chlorobenzene	ND		ug/L	0.320	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Chloroethane	ND		ug/L	0.500	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Chloroform	ND		ug/L	0.380	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Chloromethane	ND		ug/L	0.460	1.00	1	04/15/06 04:28	SW846 8260B	6042030
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	04/15/06 04:28	SW846 8260B	6042030
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	04/15/06 04:28	SW846 8260B	6042030
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	04/15/06 04:28	SW846 8260B	6042030
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Dibromomethane	ND		ug/L	0.570	1.00	1	04/15/06 04:28	SW846 8260B	6042030
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	04/15/06 04:28	SW846 8260B	6042030
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	04/15/06 04:28	SW846 8260B	6042030
1,2-Dichlorobenzene	ND		ug/L	0.370	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	04/15/06 04:28	SW846 8260B	6042030
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	04/15/06 04:28	SW846 8260B	6042030
1,2-Dichloroethane	ND		ug/L	0.280	1.00	1	04/15/06 04:28	SW846 8260B	6042030
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	04/15/06 04:28	SW846 8260B	6042030
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	04/15/06 04:28	SW846 8260B	6042030
trans-1,2-Dichloroethene	ND		ug/L	0.340	1.00	1	04/15/06 04:28	SW846 8260B	6042030
1,3-Dichloropropane	ND		ug/L	0.630	1.00	1	04/15/06 04:28	SW846 8260B	6042030
1,2-Dichloropropane	ND		ug/L	0.500	1.00	1	04/15/06 04:28	SW846 8260B	6042030
2,2-Dichloropropane	ND		ug/L	0.660	1.00	1	04/15/06 04:28	SW846 8260B	6042030
cis-1,3-Dichloropropene	ND		ug/L	0.450	1.00	1	04/15/06 04:28	SW846 8260B	6042030

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Amelia Turnell

Work Order: NPD1302
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Number: SAP 340061
Received: 04/12/06 08:00

ANALYTICAL REPORT

Sample ID: NPD1302-04 (TB04110605 - Water) - cont. Sampled: 04/11/06 00:01

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
trans-1,3-Dichloropropene	ND		ug/L	0.490	1.00	1	04/15/06 04:28	SW846 8260B	6042030
1,1-Dichloropropene	ND		ug/L	0.510	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Ethylbenzene	ND		ug/L	0.340	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Hexachlorobutadiene	ND		ug/L	0.670	1.00	1	04/15/06 04:28	SW846 8260B	6042030
2-Hexanone	ND		ug/L	2.53	50.0	1	04/15/06 04:28	SW846 8260B	6042030
Isopropylbenzene	ND		ug/L	0.340	1.00	1	04/15/06 04:28	SW846 8260B	6042030
p-Isopropyltoluene	ND		ug/L	0.340	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Methyl tert-Butyl Ether	ND		ug/L	0.320	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Methylene Chloride	ND		ug/L	1.26	5.00	1	04/15/06 04:28	SW846 8260B	6042030
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	04/15/06 04:28	SW846 8260B	6042030
Naphthalene	ND		ug/L	1.13	5.00	1	04/15/06 04:28	SW846 8260B	6042030
n-Propylbenzene	ND		ug/L	0.370	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Styrene	ND		ug/L	0.390	1.00	1	04/15/06 04:28	SW846 8260B	6042030
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	04/15/06 04:28	SW846 8260B	6042030
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Tetrachloroethene	ND		ug/L	0.390	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Toluene	~~ND~~		ug/L	0.280	1.00	1	04/15/06 04:28	SW846 8260B	6042030
1,2,3-Trichlorobenzene	**0.870**	J	ug/L	0.560	2.00	1	04/15/06 04:28	SW846 8260B	6042030
1,2,4-Trichlorobenzene	~~ND~~		ug/L	0.790	2.00	1	04/15/06 04:28	SW846 8260B	6042030
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	04/15/06 04:28	SW846 8260B	6042030
1,1,1-Trichloroethane	ND		ug/L	0.400	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Trichloroethene	ND		ug/L	0.450	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Trichlorofluoromethane	ND		ug/L	0.480	1.00	1	04/15/06 04:28	SW846 8260B	6042030
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	04/15/06 04:28	SW846 8260B	6042030
1,3,5-Trimethylbenzene	ND		ug/L	0.280	1.00	1	04/15/06 04:28	SW846 8260B	6042030
1,2,4-Trimethylbenzene	ND		ug/L	0.340	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Vinyl chloride	ND		ug/L	0.430	1.00	1	04/15/06 04:28	SW846 8260B	6042030
Xylenes, total	ND		ug/L	0.820	3.00	1	04/15/06 04:28	SW846 8260B	6042030
Surr: 1,2-Dichloroethane-d4 (70-130%)	*99 %*					*1*	*04/15/06 04:28*	*SW846 8260B*	*6042030*
Surr: Dibromofluoromethane (79-122%)	*100 %*					*1*	*04/15/06 04:28*	*SW846 8260B*	*6042030*
Surr: Toluene-d8 (78-121%)	*99 %*					*1*	*04/15/06 04:28*	*SW846 8260B*	*6042030*
Surr: 4-Bromofluorobenzene (78-126%)	*104 %*					*1*	*04/15/06 04:28*	*SW846 8260B*	*6042030*

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Amelia Turnell

Work Order: NPD1302
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Number: SAP 340061
Received: 04/12/06 08:00

ANALYTICAL REPORT

Sample ID: NPD1302-05 (P9309GWP52EB - Water) Sampled: 04/10/06 13:15

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	ND		ug/L	5.91	50.0	1	04/15/06 05:56	SW846 8260B	6042030
Benzene	1.01		ug/L	0.290	1.00	1	04/16/06 12:27	SW846 8260B	6042030
Bromobenzene	ND		ug/L	0.470	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Bromochloromethane	ND		ug/L	0.420	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Bromodichloromethane	ND		ug/L	0.380	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Bromoform	ND		ug/L	0.500	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Bromomethane	ND		ug/L	0.600	1.00	1	04/15/06 05:56	SW846 8260B	6042030
2-Butanone	ND		ug/L	5.09	50.0	1	04/15/06 05:56	SW846 8260B	6042030
sec-Butylbenzene	ND		ug/L	0.380	1.00	1	04/15/06 05:56	SW846 8260B	6042030
n-Butylbenzene	ND		ug/L	0.460	1.00	1	04/15/06 05:56	SW846 8260B	6042030
tert-Butylbenzene	ND		ug/L	0.390	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Carbon disulfide	ND		ug/L	0.310	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Carbon Tetrachloride	ND		ug/L	0.480	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Chlorobenzene	ND		ug/L	0.320	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Chlorodibromomethane	ND		ug/L	0.360	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Chloroethane	ND		ug/L	0.500	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Chloroform	ND		ug/L	0.380	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Chloromethane	ND		ug/L	0.460	1.00	1	04/15/06 05:56	SW846 8260B	6042030
2-Chlorotoluene	ND		ug/L	0.270	1.00	1	04/15/06 05:56	SW846 8260B	6042030
4-Chlorotoluene	ND		ug/L	0.370	1.00	1	04/15/06 05:56	SW846 8260B	6042030
1,2-Dibromo-3-chloropropane	ND		ug/L	1.64	5.00	1	04/15/06 05:56	SW846 8260B	6042030
1,2-Dibromoethane (EDB)	ND		ug/L	0.380	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Dibromomethane	ND		ug/L	0.570	1.00	1	04/15/06 05:56	SW846 8260B	6042030
1,4-Dichlorobenzene	ND		ug/L	0.460	1.00	1	04/15/06 05:56	SW846 8260B	6042030
1,3-Dichlorobenzene	ND		ug/L	0.360	1.00	1	04/15/06 05:56	SW846 8260B	6042030
1,2-Dichlorobenzene	ND		ug/L	0.370	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Dichlorodifluoromethane	ND		ug/L	0.410	1.00	1	04/15/06 05:56	SW846 8260B	6042030
1,1-Dichloroethane	ND		ug/L	0.320	1.00	1	04/15/06 05:56	SW846 8260B	6042030
1,2-Dichloroethane	9.64		ug/L	0.280	1.00	1	04/15/06 05:56	SW846 8260B	6042030
cis-1,2-Dichloroethene	ND		ug/L	0.390	1.00	1	04/15/06 05:56	SW846 8260B	6042030
1,1-Dichloroethene	ND		ug/L	0.450	1.00	1	04/15/06 05:56	SW846 8260B	6042030
trans-1,2-Dichloroethene	ND		ug/L	0.340	1.00	1	04/15/06 05:56	SW846 8260B	6042030
1,3-Dichloropropane	ND		ug/L	0.630	1.00	1	04/15/06 05:56	SW846 8260B	6042030
1,2-Dichloropropane	ND		ug/L	0.500	1.00	1	04/15/06 05:56	SW846 8260B	6042030
2,2-Dichloropropane	ND		ug/L	0.660	1.00	1	04/15/06 05:56	SW846 8260B	6042030
cis-1,3-Dichloropropene	ND		ug/L	0.450	1.00	1	04/15/06 05:56	SW846 8260B	6042030
trans-1,3-Dichloropropene	1.20		ug/L	0.490	1.00	1	04/15/06 05:56	SW846 8260B	6042030
1,1-Dichloropropene	ND		ug/L	0.510	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Ethylbenzene	1.40		ug/L	0.340	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Hexachlorobutadiene	ND		ug/L	0.670	1.00	1	04/15/06 05:56	SW846 8260B	6042030
2-Hexanone	ND		ug/L	2.53	50.0	1	04/15/06 05:56	SW846 8260B	6042030
Isopropylbenzene	ND		ug/L	0.340	1.00	1	04/15/06 05:56	SW846 8260B	6042030
p-Isopropyltoluene	ND		ug/L	0.340	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Methyl tert-Butyl Ether	2.63		ug/L	0.320	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Methylene Chloride	ND		ug/L	1.26	5.00	1	04/15/06 05:56	SW846 8260B	6042030

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ANALYTICAL TESTING CORPORATION
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Client URS Corporation (St. Louis)/SHELL (13668)
1001 Highlands Plaza Dr. West, Suite 300
St. Louis, MO 63110
Attn Amelia Turnell

Work Order: NPD1302
Project Name: 170 E. Rand Avenue, Hartford, IL
Project Number: SAP 340061
Received: 04/12/06 08:00

ANALYTICAL REPORT

Sample ID: NPD1302-05 (P9309GWP52EB - Water) - cont. Sampled: 04/10/06 13:15

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
4-Methyl-2-pentanone	ND		ug/L	4.25	50.0	1	04/15/06 05:56	SW846 8260B	6042030
Naphthalene	4.54	J	ug/L	1.13	5.00	1	04/15/06 05:56	SW846 8260B	6042030
n-Propylbenzene	ND		ug/L	0.370	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Styrene	ND		ug/L	0.390	1.00	1	04/15/06 05:56	SW846 8260B	6042030
1,1,1,2-Tetrachloroethane	ND		ug/L	0.370	1.00	1	04/15/06 05:56	SW846 8260B	6042030
1,1,2,2-Tetrachloroethane	ND		ug/L	0.490	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Tetrachloroethene	ND		ug/L	0.390	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Toluene	ND		ug/L	0.280	1.00	1	04/15/06 05:56	SW846 8260B	6042030
1,2,3-Trichlorobenzene	ND		ug/L	0.560	2.00	1	04/15/06 05:56	SW846 8260B	6042030
1,2,4-Trichlorobenzene	ND		ug/L	0.790	2.00	1	04/15/06 05:56	SW846 8260B	6042030
1,1,2-Trichloroethane	ND		ug/L	0.420	1.00	1	04/15/06 05:56	SW846 8260B	6042030
1,1,1-Trichloroethane	ND		ug/L	0.400	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Trichloroethene	ND		ug/L	0.450	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Trichlorofluoromethane	ND		ug/L	0.480	1.00	1	04/15/06 05:56	SW846 8260B	6042030
1,2,3-Trichloropropane	ND		ug/L	0.560	1.00	1	04/15/06 05:56	SW846 8260B	6042030
1,3,5-Trimethylbenzene	ND		ug/L	0.280	1.00	1	04/15/06 05:56	SW846 8260B	6042030
1,2,4-Trimethylbenzene	0.610	J	ug/L	0.340	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Vinyl chloride	ND		ug/L	0.430	1.00	1	04/15/06 05:56	SW846 8260B	6042030
Xylenes, total	1.12	J	ug/L	0.820	3.00	1	04/15/06 05:56	SW846 8260B	6042030
Surr: 1,2-Dichloroethane-d4 (70-130%)	*92 %*					*1*	*04/15/06 05:56*	*SW846 8260B*	*6042030*
Surr: Dibromofluoromethane (79-122%)	*95 %*					*1*	*04/15/06 05:56*	*SW846 8260B*	*6042030*
Surr: Toluene-d8 (78-121%)	*100 %*					*1*	*04/15/06 05:56*	*SW846 8260B*	*6042030*
Surr: 4-Bromofluorobenzene (78-126%)	*108 %*					*1*	*04/15/06 05:56*	*SW846 8260B*	*6042030*

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	URS Corporation (St. Louis)/SHELL (13668)	Work Order:	NPD1302
	1001 Highlands Plaza Dr. West, Suite 300	Project Name:	170 E. Rand Avenue, Hartford, IL
	St. Louis, MO 63110	Project Number:	SAP 340061
Attn	Amelia Turnell	Received:	04/12/06 08:00

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
E1	Concentration estimated. Analyte exceeded calibration range. Reanalysis not possible due to insufficient sample.
J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
Z	Due to sample matrix effects, the surrogate recovery was below the acceptance limits.

METHOD MODIFICATION NOTES

NPD1302

04/17/06 23:59

TEST AMERICA

☑ 2690 FOSTER CREIGHTON, NASHVILLE, TN 37204 PHONE 800-765-09

☐ 7602 Commerce Drive, Watertown, WI 53094 Phone 800-833-7036

☐ 704 Enterprise Drive, Cedar Falls, IA 50613 Phone 319-277-2401

☐ 14500 Trinity Blvd., Suite 106, Fort Worth, TX 76155 Phone 817-571-6800

☐ 3601 South Dixie Drive, Dayton, OH 46439 Phone 800-572-9839

☐ 1380 Busch Parkway, Buffalo Grove, IL 60089 Phone 847-808-7766

☐ 1110 Elkton Drive, Suite A, Colorado Springs, CO 80907 Phone 719-593-9911

☐ Other _____

Shell Oil Products US Chain Of Custody Record

SOP US Project Manager to be invoiced:

☐ ENVIRONMENTAL SERVICES

☐ TECHNICAL SERVICES

☐ RMT HOUSTON

☐ BILL CONSULTANT

NAME OF PM TO BILL: Herb Hand (SOPUS)

NAME OF TS TO BILL:

☑ SHELL RATES ☐ STATE REIMBURSEMENT RATES

INCIDENT # (S&E ONLY): 9 7 2 1 6 6 3 4

SAP or CRMT # (TS/CRMT):

DATE: 04/11/06

PAGE: _____ of _____

Invoice with _____ sampling events for this site, sampled through the following date: _____

CONSULTANT COMPANY: URS Corporation

ADDRESS: 1001 Highlands Plaza Drive West; Suite 300

CITY: St. Louis, MO 63110

TELEPHONE: (office) 314-429-0100 (cell) 314-409-6460

FAX: (Office) 431-429-0462 (Trailer) 618-254-1512

E-MAIL: Jeff Adams Thomas_Adams@urscorp.com

SITE ADDRESS (Street and City): SOPUS-Rand Avenue 170 East Rand Avenue; Hartford, IL 62048

PROJECT CONTACT (Report to): Herb Hand (SOPUS) (Copy to): Jeff Adams (URS)

CONSULTANT PROJECT NO.: SOPUS-Rand Avenue

SAMPLER NAME(S) (Print):

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS): ☐ STANDARD (10 DAY) ☑ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

TEMPERATURE ON RECEIPT C°

REQUESTED ANALYSIS if more than one method is listed, circle one

SPECIAL INSTRUCTIONS OR NOTES :

Level 4 QC Deliverables

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOCs Method 8260	TPH-GRO (8015)	TPH-DRO (8015)	8260 / 8015 Moisture	Level 4 QC Deliverables	Container PID Readings or Laboratory Notes
	P9309GWP66	04/11/06	1500	W	✓					3	✓				✓	NPD1302-01
	P9309GWP66D	04/11/06	1500	W	✓					3	✓				✓	-02
	P9309GWP52	04/11/06	1430	W	✓					3	✓				✓	-03
	TB04110605	04/11/06		W	✓					1	✓				✓	-04
	P9309GWP52EB	04/10	1315	W	✓					3	✓				✓	-05

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FedEx	04/11/06	1830
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		4/12/06	8:00

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

05/1/01 Revision