



June 7, 2007

Mr. Roy Crossland
START Project Officer
U.S. Environmental Protection Agency, Region 7
901 North 5th Street
Kansas City, Kansas 66101

**Subject: Trip Report and Data Summary for Removal Site Evaluation Activities
Community Laundromat Site, Ava, Missouri
U.S. EPA Region 7 START 3, Contract No. EP-S7-06-01
Task Order No. 0068.000
Task Monitor: Eric Nold, EPA On-Scene Coordinator**

Dear Mr. Crossland:

Tetra Tech EM Inc. is submitting the enclosed Trip Report for Soil and Concrete Sampling Activities conducted in April 2007 at the Community Laundromat site in Ava, Missouri. If you have any questions or comments regarding this submittal, please contact the project manager at (913) 495-3910.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ted Faile', with a stylized flourish at the end.

Ted Faile, PG, CHMM
START Program Manager

Enclosures

**TRIP REPORT AND DATA SUMMARY
FOR REMOVAL SITE EVALUATION ACTIVITIES
COMMUNITY LAUNDROMAT SITE – AVA, MISSOURI**

**Superfund Technical Assessment and Response Team (START) 3
Contract No. EP-S7-06-01, Task Order 0068.000**

Prepared For:

U.S. Environmental Protection Agency
Region 7
901 North 5th Street
Kansas City, Kansas 66101

June 7, 2007

Prepared By:

Tetra Tech EM Inc.
8030 Flint Street
Lenexa, Kansas 66214
(913) 894-2600

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1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division tasked Tetra Tech EM Inc. (Tetra Tech), under Superfund Technical Assessment and Response Team (START) 3 Contract No. EP-S7-06-01, Task Order No. 0068, to conduct removal site evaluation (RSE) support activities at the Community Laundromat site in Ava, Missouri. The purpose of this investigation was to determine whether tetrachloroethylene (PCE) contamination exists in the soil beneath the slab-on-grade and basement floor of a former dry cleaner building, and to determine whether the basement floor may be serving as a potential source of PCE contamination to the underlying soil and groundwater. The intent of this assessment also was to further define the extent of PCE contamination in soil beyond the footprint of the former dry cleaner building, an objective previously addressed during a preliminary assessment (PA) completed under the START 2 contract in July 2001, and an initial RSE conducted by the Missouri Department of Natural Resources (MDNR) in February 2002.

Information obtained during this most recent phase of RSE activities and presented in this trip report will be used to revise an *Evaluation of Removal Action Alternatives, Community Laundromat Site, Ava, Missouri*, dated August 11, 2006 (Tetra Tech 2006). This document had been prepared by START under a prior contract (START 2, Contract No. 68-S7-01-41). The revised *Evaluation of Removal Action Alternatives* will be submitted to EPA under separate cover.

2.0 SITE BACKGROUND INFORMATION

Information regarding the site's location, description, and relevant investigation history is discussed in this section.

2.1 LOCATION AND DESCRIPTION

The Community Laundromat site is located at 306 Northwest 12th Avenue in the southeast quarter of the northeast quarter of the northwest quarter of Section 11, Township 26 North, Range 16 West in Douglas County, Missouri (Figure 1, Appendix A). The geographic coordinates are 36.9593 degrees (39° 57' 33") north latitude and 92.6614 degrees (92° 39' 41") west longitude, and the Universal Transverse Mercator (UTM) coordinates are 530128 meters east and 4090416 meters north, in Zone 15. The site is in a commercial/residential area in Ava, Missouri. Ava has a population of 3,200 and lies approximately 50 miles southeast of Springfield, Missouri (U.S. Census Bureau 2000).

The site consists of a former laundromat building that was recently demolished by the property owner. Much of the demolition debris remains on site, and the building's basement foundation remains intact. The remainder of the property is unpaved and vacant. Land use in the area is a mix of commercial, light industrial, agricultural, and residential.

The Community Laundromat site was identified as one of several potential contaminant sources associated with the 12th Avenue Solvent site. The 12th Avenue Solvent site was identified by the Missouri Department of Natural Resources (MDNR) during investigative activities associated with the nearby Sentinel Wood Treater (Sentinel) site in December 2000. High levels of total xylenes (27,600 parts per billion [ppb]), ethylbenzene (10,500 ppb), *cis*-1,2-dichloroethene (1,2-DCE) (146 ppb), toluene (79.3 ppb), 1,1-dichloroethene (1,1-DCE) (51.5 ppb), PCE (2.4 ppb), benzene (2.3 ppb), trichloroethylene (TCE) (2.2 ppb), and other compounds were reported in samples collected at a groundwater discharge (wetland) area located about 750 feet downgradient of the Community Laundromat site.

Based on subsequent investigations conducted by EPA, MDNR, and multiple potentially responsible parties (PRP), the primary source of the xylene, ethylbenzene, and toluene compounds was likely a facility other than the Community Laundromat site. However, the Community Laundromat site was believed to be a potential source of one or more of the chlorinated compounds identified above. As of 2002, when the facility was first identified as a potential source of groundwater contamination, the laundromat contained only coin-operated washers and dryers; however, according to the former facility operator, Mr. Joe Banta of Ava, the facility did provide dry cleaning services for "a few years" during the late 1980s and early 1990s. Mr. Banta also confirmed that the facility used PCE during the years when dry cleaning services were offered, and that a "normal amount" of spillage may have occurred during that time. Mr. Banta opened the laundromat in 1986, and operations ceased in 2004. The current property owner is Mr. John Sutton, also of Ava.

PCE has been commonly used in the dry cleaning industry for decades. Natural degradation products of PCE include TCE, 1,1-DCE, 1,2-DCE, and vinyl chloride.

2.2 PREVIOUS INVESTIGATIONS

The following sections describe activities and sample results associated with previous investigations at the Community Laundromat site. Included also is brief discussion of relevant data from off-site investigations that reported contamination potentially associated with the Community Laundromat site.

Significant PCE detections reported during the various investigations are summarized in Table 1. Corresponding sample locations are shown on Figures 2 and 3 in Appendix A.

Pre-CERCLIS Screening

A pre-Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) field investigation was conducted by EPA on July 9 and 10, 2001. EPA and Tetra Tech START installed five soil borings (SB-1 through SB-5) across the site using a track-mounted Geoprobe unit. Continuous cores were collected at each boring location using the Geoprobe's Macro-core sampling system. Cores were collected from the ground surface to refusal (assumed bedrock surface).

Soil samples were collected from two depth intervals at SB-1 through SB-4. The first sample was collected from the 0- to 2-foot interval at each of these borings. A deeper sample was collected at or just above the first occurrence of water. At SB-5, a sample was collected from the 0- to 2-foot interval only due to refusal at a relatively shallow depth of 8 feet below ground surface (bgs). No water was encountered at SB-5.

All soil samples were analyzed for volatile organic compounds (VOC), semi-volatile organic compounds (SVOC), and metals. VOC contamination only will be discussed here, as concentrations of other contaminants were relatively insignificant. Full sample results are presented in the pre-CERCLIS report for this site (Tetra Tech 2001).

PCE was found at a concentration of 0.019 parts per million (ppm) in the soil sample collected from SB-1 at a depth of 17 to 18 feet bgs. This sample was collected very near the water table. PCE was also found at a concentration of 0.57 ppm in a soil sample collected from SB-4 at a depth of 13 to 14 feet bgs.

Groundwater samples were collected at the SB-1 and SB-2 locations using Geoprobe's Screen Point 15 sampling system. The static water level at SB-1 was about 16.7 feet bgs. The static water level at SB-2 was about 17.0 feet bgs. Saturated conditions were noted during the soil sampling at SB-4, at a depth interval of about 12.5 to 14 feet bgs. However, an attempt to sample groundwater at SB-4 was unsuccessful, presumably for one of the following reasons: the saturated interval was too limited, a borehole skin precluded infiltration through the screen, or the screen itself became clogged.

PCE was found at a concentration of 1,300 ppb in the groundwater sample collected from SB-1 at a depth of 16 to 18 feet bgs. This sample also contained 1,1,1-trichloroethane (TCA) at a concentration of 12 ppb.

TABLE 1

**PCE DATA FROM PREVIOUS ON-SITE
AND OFF-SITE INVESTIGATIONS
COMMUNITY LAUNDROMAT SITE, AVA, MISSOURI**

Sample ID	Sample Media	Sample Depth	Sample Date	PCE Concentration
On-site Samples				
EPASB4B	Soil	13-14	7/10/2001	0.570
EPASB1B	Soil	17-18	7/9/2001	0.019
DNRCLSB08B	Soil	16	2/1/2002	0.013
DNRCLSB09C	Soil	14	2/1/2002	0.0198
DNRCLSB10A	Soil	12	2/1/2002	1.98
DNRCLSB10B	Soil	19	2/1/2002	12.40
DNRCLSB12A	Soil	9.5	2/1/2002	0.059
DNRCLSB12B	Soil	17	2/1/2002	0.741
DNRCLSB12C	Soil	17	2/1/2002	0.950
DNRCLSB13B	Soil	8	2/1/2002	0.197
DNRCLSB15A	Soil	7	2/1/2002	0.131
DNRCLSB15B	Soil	10.5	2/1/2002	2.65
EPACLGW1	Groundwater	16-18	7/9/2001	1,300
EPACLGW2	Groundwater	17-21	7/9/2001	6.0
DNRMWCL01	Groundwater	16-18	2/1/2002	21,400
DNRMWCL02	Groundwater	14-16	2/1/2002	7,230
DNRMWCL03	Groundwater	12-14	2/1/2002	49.8
DNRMWCL04	Groundwater	16-18	2/1/2002	1.7
Off-site Samples				
DNRSP01	Spring	NA	1/16/2002	37.3
DNRSW09	Surface Water	NA	12/12/2000	2.4
DNRSW07	Surface Water	NA	12/12/2000	1.0
EMMW10B	Groundwater	8-13	12/1/2003	410J
EMMW11B	Groundwater	5.5-10.5	3/17/2004	12J
EMMW14B	Groundwater	13-18	8/7/2001	140J
EMMW18B	Groundwater	13-18	3/6/2002	11J
EMMW19B	Groundwater	13.5-18.5	3/6/2002	170

Notes:

All water sample results reported in parts per billion.
All soil sample results reported in parts per million.
Sample depths reported in feet below ground surface.

ID Identification number
J Quantified as an estimate
NA Not applicable
PCE Tetrachloroethylene

A PCE concentration of 6 ppb was reported in the groundwater sample collected from SB-2 at a depth of about 17 to 21 feet bgs.

Removal Assessment

In February 2002, MDNR conducted a removal assessment at the site. MDNR used a Geoprobe membrane interface probe (MIP) to screen the site. MIP boring locations were selected based on previous sampling data, information provided by Mr. Banta (former owner) regarding spills on site, and local topography. Based on the MIP results, MDNR collected subsurface soil samples for laboratory analysis. A total of 28 soil samples were collected from 18 soil borings. PCE was reported in 10 of the samples at six soil boring locations. Reported concentrations ranged from 0.013 ppm in sample CL-08 (16 feet bgs), to 12.4 ppm in sample CL-10 (19 feet bgs) (MDNR 2002).

MDNR also installed four temporary wells using direct push technology (DPT) equipment. Groundwater samples collected from these wells contained PCE at concentrations ranging from 1.7 ppb in sample MW-Cl-04, to 21,400 ppb in sample MW-Cl-01 (MDNR 2002). Groundwater samples were collected immediately below the water table (i.e., above bedrock) at all DPT locations.

During the removal assessment, MDNR also sampled a spring located about 1,500 feet southwest and downgradient of the site. The spring had been sampled previously by MDNR in May 2001. The 2001 sample had contained 35.1 ppb of PCE (Tetra Tech 2005). The sample collected during the removal assessment contained a similar PCE concentration of 37.3 ppb (MDNR 2002).

3.0 SITE ACTIVITIES

Sampling activities, including quality assurance (QA) and quality control (QC) sampling, and sample delivery are discussed in this section. A photographic log is provided in Appendix B. A copy of the logbook is provided in Appendix C. EPA field sheets and chain-of-custody forms for the soil sampling event are included in Appendix D. Soil sampling activities for this RSE support task were performed on April 10, 2007, under Analytical Services Request (ASR) number 3402, by START members (STM) Laura Moore and Patrick Leiker, and by EPA On-Scene Coordinators (OSC) Eric Nold and Todd Campbell. A sample summary is provided in Table 2.

TABLE 2

**SAMPLE SUMMARY FOR APRIL 2007 RSE ACTIVITIES
COMMUNITY LAUNDROMATE SITE, AVA, MISSOURI**

EPA Sample Number	Sample Location	Depth (ft bgs)	Sample Medium	Sample Date
3402-1	EPASB6	NA	Concrete	4/09/07
3402-2	EPASB7	NA	Concrete	4/09/07
3403-3	EPASB9	NA	Concrete	4/09/07
3402-4	EPASB8	NA	Concrete	4/10/07
3402-5	EPASB10	NA	Concrete	4/10/07
3402-101	EPASB12	3-4	Soil	4/10/07
3402-102	EPASB12	9-10	Soil	4/10/07
3402-103	EPASB8	0-1*	Soil	4/10/07
3402-104	EPASB8	1-1.5*	Soil	4/10/07
3402-105	EPASB11	6.5-7.5	Soil	4/10/07
3402-106	EPASB11	10.5-11.5	Soil	4/10/07
3402-107	EPASB11	15-16	Soil	4/10/07
3402-108	EPASB15	11.5-12.5	Soil	4/10/07
3402-109	EPASB15	13-13.5	Soil	4/10/07
3402-110	EPASB10	0-1*	Soil	4/10/07
3402-111	EPASB6	0-1*	Soil	4/10/07
3402-112	EPASB7	0-1*	Soil	4/10/07
3402-113	EPASB9	0-1*	Soil	4/10/07
3402-114	EPASB14	8-9	Soil	4/10/07
3402-115	EPASB14	12-13	Soil	4/10/07
3402-115FD	EPASB14	12-13	Soil	4/10/07
3402-116	EPASB13	0.2-1	Soil	4/10/07
3402-120FB	Trip Blank	NA	Soil	4/10/07
3402-201	Basement Sump	NA	Water	4/10/07
3402-202	Equipment Rinsate	NA	Water	4/10/07
3402-203	Trip Blank	NA	Water	4/10/07
3402-204	Unlabeled Container	NA	Product	4/10/07

Notes:

* Sample collected from beneath the basement floor
RSE Removal Site Evaluation
EPA U.S. Environmental Protection Agency
ft bgs Feet below ground surface
NA Not applicable

3.1 SOIL SAMPLING

The objective of soil sampling was to document the presence of contaminants beneath the former Community Laundromat building and to further delineate contamination west of the building. Ten samples, including a field duplicate, were collected from four DPT soil borings; seven samples, including a

background sample, were collected from six hand-augered borings. Figure 4 depicts the soil boring locations for this RSE activity.

All samples were submitted for analysis of VOCs and toxicity characteristic leaching procedure (TCLP) VOCs. Two 40-milliliter vials were submitted for each analysis. Although TCLP samples were collected from each location, the EPA laboratory was scheduled to perform TCLP analysis only on those samples found to contain PCE (or any degradation product of PCE) at or above its TCLP threshold value in the regular VOC sample. Because the TCLP method involves a dilution factor of 20, the minimum concentration that would trigger TCLP analysis would actually be equal to 20 times the PCE TCLP threshold value of 700 ppb, or 14,000 ppb. Samples were preserved on ice at or below 4 degrees Celsius (°C) and submitted to the EPA Region 7 laboratory for analysis.

3.2 CONCRETE SAMPLING

Five of the six hand-augered borings were completed beneath the basement floor of the former dry cleaner building. Penetrating this floor required the use of a pneumatic hammer. Samples of the concrete chips/dust derived from the hammering process were collected for VOC analysis to determine whether the concrete may have become contaminated by PCE releases on the basement floor, potentially serving as a source of PCE contamination to the subsurface. Five concrete chip/dust samples were collected as per Region 7 EPA Standard Operating Procedure (SOP) 4231.2011: *Chip, Wipe, and Sweep Sampling*, placed into 40-milliliter vials, and stored in coolers maintained at or below 4°C pending submittal to the EPA Region 7 laboratory. Similar to the soil samples, the EPA laboratory was scheduled to perform TCLP analysis on those samples found to contain PCE (or any degradation product of PCE) at or above its TCLP threshold value in the regular VOC sample.

3.3 WATER SAMPLING

During the RSE activities, a sump containing water was identified in the southeast corner of the basement. Because the building had been demolished, the sump was exposed to the elements and probably contained rainwater. However, START collected a sample of this water to ensure it did not pose an obvious pathway threat, since the demolition site was essentially unsecured. The sample was preserved on ice at or below 4 °C and submitted to the EPA Region 7 laboratory for VOC analysis.

3.4 UNKNOWN LIQUID SAMPLING

During the sampling activities for this RSE, an unlabelled, open plastic container (approximately 5 gallons) was discovered among the debris from the recently demolished former dry cleaner building. The container contained an unknown liquid resembling hydraulic fluid. START collected a sample of the liquid and submitted it to the EPA Region 7 laboratory for analysis of VOCs.

3.5 QUALITY ASSURANCE AND QUALITY CONTROL SAMPLING

One field duplicate, two trip blanks (one soil and one water), and one equipment rinsate sample were collected for this phase of RSE activities.

3.6 SAMPLE DELIVERY

Samples were hand-delivered by START to the EPA Region 7 laboratory on April 11, 2007. Standard turnaround times were requested for all samples.

4.0 ANALYTICAL DATA SUMMARY

Laboratory data were transmitted to START by EPA on May 2, 2007. The complete EPA Region 7 laboratory report is included in Appendix E. PCE was detected in one of the concrete samples, and in 12 of the soil samples, as shown on Figure 4 in Appendix A. The PCE concentrations are also reported in Table 3 and discussed further in the following paragraphs. PCE was not detected in the sump water sample; nor was it detected in any of the QA/QC samples. Low levels of acetone, carbon disulfide, methylene chloride, cyclohexane, ethyl benzene, toluene, xylene, 1,2-dichlorobenzene, and 2-butanone were detected in one or more of the samples. However, the presence of these compounds is believed unrelated to former dry cleaning operations, and their concentrations are well below any levels of concern. 1,2-dichlorobenzene is a common ingredient in herbicides, and the other compounds may be related to laboratory processes or demolition debris (paint, adhesives, etc.).

PCE was detected in one concrete sample, collected from SB8 located near the center of the basement floor, at a concentration of 0.044 ppm. Two soil samples collected from directly beneath the concrete at the SB8 location also contained PCE. A concentration of 0.400L ppm was reported for both soil samples—one collected at 0 to 0.5 feet bgs (i.e., beneath the concrete), and the other collected at 1.0 to 1.5 feet bgs.

TABLE 3

**PCE CONCENTRATIONS IN SOIL AND CONCRETE SAMPLES
COMMUNITY LAUNDROMATE SITE, AVA, MISSOURI**

EPA Sample Number	Boring Location	Depth (ft bgs)	Sample Media	PCE Concentration (ppm)
3402-4	EPASB8	NA	Concrete	0.044
3402-101	EPASB12	3-4	Soil	0.053
3402-102	EPASB12	9-10	Soil	0.270
3402-103	EPASB8	0-1*	Soil	0.400L
3402-104	EPASB8	1-1.5*	Soil	0.400L
3402-105	EPASB11	6.5-7.5	Soil	0.040
3402-106	EPASB11	10.5-11.5	Soil	0.270
3402-107	EPASB11	15-16	Soil	0.620
3402-108	EPASB15	11.5-12.5	Soil	5.40
3402-109	EPASB15	13-13.5	Soil	2.10
3402-111	EPASB6	0-1*	Soil	0.086
3402-112	EPASB7	0-1*	Soil	0.014
3402-113	EPASB9	0-1*	Soil	0.038
MRBCA Soil Value for PCE – Protection of Domestic Groundwater Use Pathway				0.141

Notes:

Shaded results indicate concentrations exceed MRBCA soil threshold for PCE – Protection of Domestic Groundwater Use Pathway (MDNR 2004)

*	Sample collected from beneath the basement floor	MRBCA	Missouri Risk-Based Corrective Action
EPA	U.S. Environmental Protection Agency	NA	Not applicable
ft bgs	Feet below ground surface	PCE	Tetrachlorethylene
L	The reported value may be biased low	ppm	parts per million
MDNR	Missouri Department of Natural Resources		

The “L” code on these samples indicates the data may be biased low because the concentration exceeded the calibrated range of the analytical instrument in the laboratory. (The samples were inadvertently submitted for low-level detection limits, and the results of a high-level extraction analysis attempted by the laboratory were determined invalid.) Nevertheless, the data indicate that soils above the Missouri Risk-Based Corrective Action (MRBCA) soil threshold of 0.141 ppm (protection of domestic groundwater use pathway) exist beneath the central portion of the basement floor, and the presence of PCE in the concrete at this location suggests that a release may have occurred nearby.

Relatively high levels of PCE were also reported in soil samples collected from SB15, located near the center of the slab-on-grade floor north of the basement. Samples collected from 11.5 to 12.5 feet bgs and 13.0 to 13.5 feet bgs contained PCE at levels of 5.4 ppm and 2.1 ppm, respectively. These data, along with

data collected during previous investigations, suggest a release may have occurred within or near the northern portion of the former dry cleaner building.

PCE levels above the MRBCA soil threshold were also reported in samples collected from SB11 and SB12, located west of the former dry cleaner building. The PCE levels detected in these samples were consistent with levels detected in other samples collected from this area during previous investigations, thereby confirming the currently proposed “removal boundaries” west of the building.

The PCE levels detected in the soil and concrete samples did not approach concentrations that would warrant TCLP analysis, as described in Sections 3.1 and 3.2. Therefore, no TCLP analysis was performed on any of the soil or concrete samples.

No detectable levels of VOCs were reported in the unknown liquid sample collected from the open plastic container on site. The liquid resembled hydraulic fluid (see Appendix B).

5.0 DEVIATIONS FROM THE QAPP

The approved Quality Assurance Project Plan (QAPP) proposed collection of groundwater samples from as many as five temporary DPT wells. However, at the request of the OSC, no DPT wells were installed during this phase of RSE activities. As indicated in Section 2.2, groundwater sampling at this site had occurred during previous investigations.

6.0 SUMMARY AND CONCLUSIONS

The Community Laundromat site currently consists of a former laundromat building that was recently demolished by the property owner. Much of the demolition debris remains on site, and the building’s basement foundation remains intact. Soil and concrete sampling was conducted on April 10, 2007, to determine whether PCE contamination exists in the soil beneath the slab-on-grade and basement floors of a former dry cleaner building, and to determine whether the basement floor may be serving as a potential source of PCE contamination to underlying soil and groundwater. The intent of this RSE activity also was to further define the extent of PCE contamination in soil beyond the footprint of the former dry cleaner building, an objective previously addressed during a PA completed under the START 2 contract in July 2001, and an initial RSE conducted by MDNR in February 2002. The April 2007 activities also included collection of a water sample from a sump located in the southeast corner of the basement, and a product sample from a small plastic container found on site.

Results of the soil sampling indicated that PCE levels are well above the MRBCA soil threshold of 0.141 ppm (protection of domestic groundwater use pathway) beneath the central portion of the basement floor, and beneath the slab-on-grade located immediately north of the basement. A low concentration of PCE was reported in the concrete sample collected from the central portion of the basement floor, indicating that a release may have occurred nearby. High concentrations of PCE detected in the soil beneath the slab-on-grade indicate a release may have also occurred in that area. PCE levels detected in soil samples collected west of the former building were consistent with levels reported in other samples collected from this area during previous investigations, thereby confirming the currently proposed “removal boundaries” west of the building. No PCE was detected in the sump water sample, confirming that the sump probably contained only rainwater.

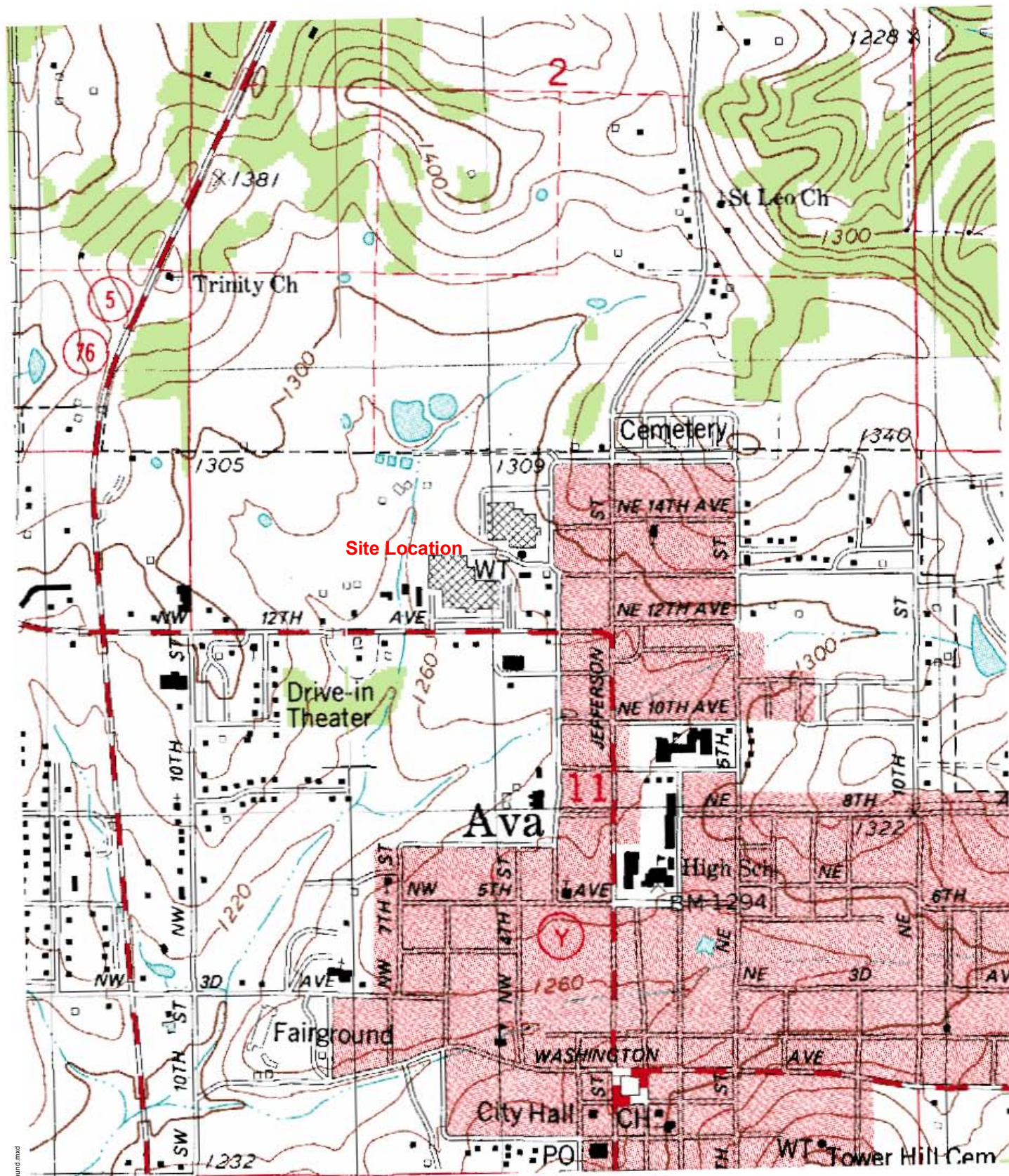
The determination that PCE levels below the basement floor and the slab-on-grade north of the basement exceed the MRBCA soil threshold of 0.141 ppm impacts the removal scenarios currently described in *Evaluation of Removal Action Alternatives, Community Laundromat Site, Ava, Missouri*, dated August 11, 2006. As requested by EPA, START will revise this document to reflect the new soil data and associated impacts on the various removal action alternatives described therein.

7.0 REFERENCES

- Missouri Department of Natural Resources (MDNR). 2002. Removal Assessment Report. Community Laundromat Site, Douglas County, Missouri. MON000704080. April 23.
- MDNR. 2004. Missouri Risk-Based Corrective Action (MRBCA) Process for Petroleum Storage Tanks. January.
- Tetra Tech EM Inc. (Tetra Tech). 2001. Pre-CERCLIS Site-screening Assessment of Community Laundromat, Ava, Missouri. November 2.
- Tetra Tech. 2005. Geographical Information System Database for Ava, Missouri. Version 04.
- Tetra Tech. 2006. *Evaluation of Removal Action Alternatives, Community Laundromat Site, Ava, Missouri*. August 11.
- U. S. Census Bureau. 2000. Annual Time Series, Population Estimates by County.

APPENDIX A

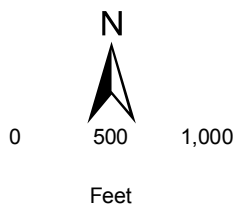
FIGURES



Community Laundromat
Ava, Missouri

Figure 1
Site Location Map

Legend
Site Location



Tetra Tech EM Inc.



Legend

● PCE Soil - Detections

ft Feet

ppm Parts per million

PCE Tetrachloroethene



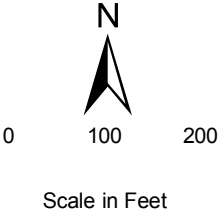
Scale in Feet

Community Laundromat
Ava, Missouri

Figure 2
Previous Investigations
PCE Detections in Soil



Tetra Tech EM Inc.



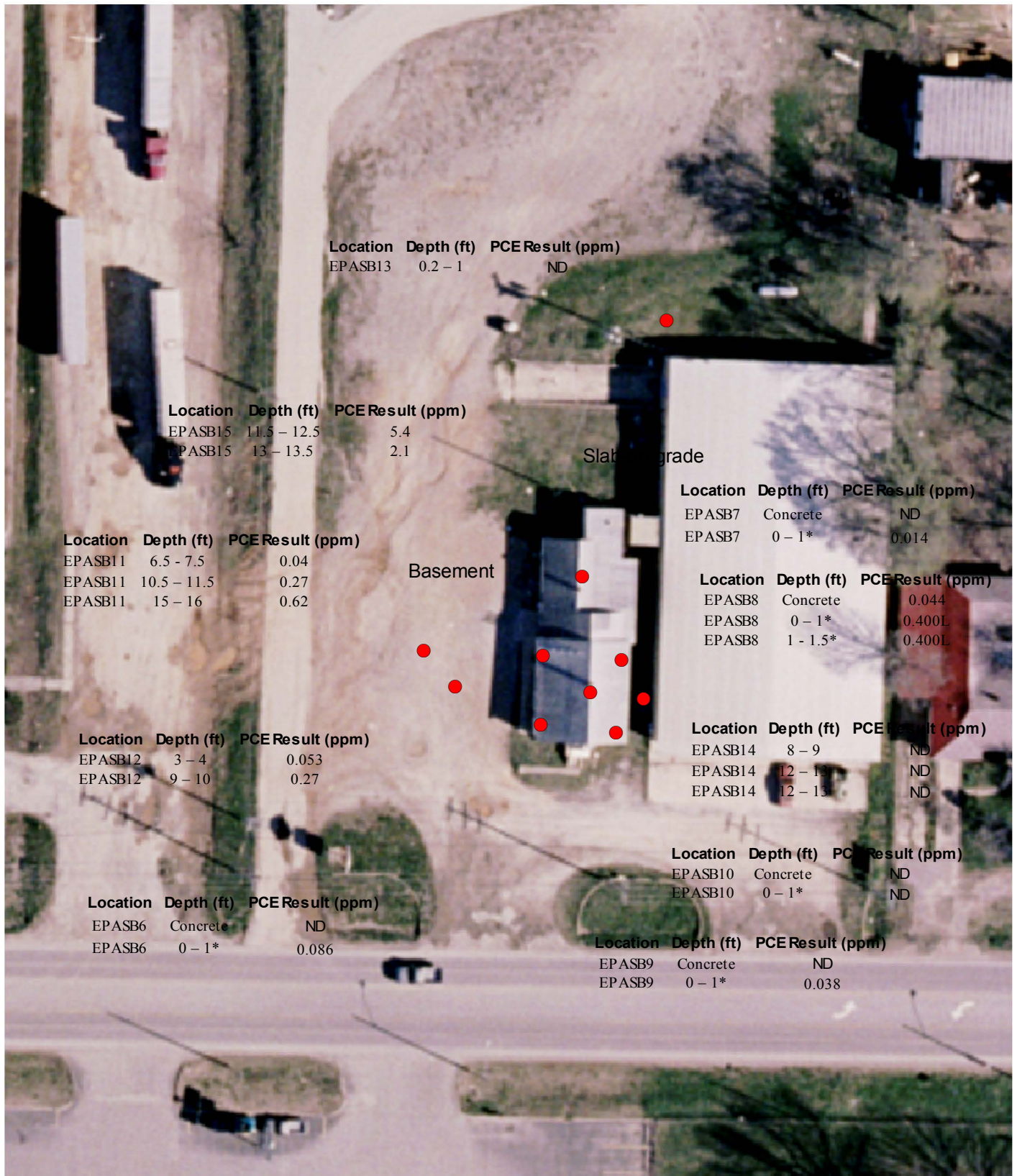
- Legend
- Monitoring Well-Permanent
 - Monitoring Well-Temporary
 - Seep
 - Surface Water
 - D Sample Diluted for Analysis
 - ft Feet
 - J Estimated Value
 - ppb Parts per billion
 - PCE Tetrachloroethene
 - U PCE Not Detected

Source: Ava, MO DOQQ 2002

Community Laundromat
Ava, Missouri

Figure 3
Previous Investigations
PCE Detections in Water

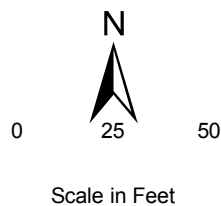
Tetra Tech EM Inc.



Legend

- Sample Boring with PCE Data
- * Sample Collected from Beneath Basement Floor
- ft Feet
- L Reported Value May be Biased Low
- ND PCE Not Detected
- PCE Tetrachloroethene
- ppm Parts per million

Source: Ava, MO DOQQ 2002



Community Laundromat
Ava, Missouri

Figure 4
PCE Current Investigation
Sample Results



Tetra Tech EM Inc.

Date: 05/23/07

Drawn By: Colin Willis

Project No: 19004.L.07.0068.000

APPENDIX B
PHOTOGRAPHIC LOG

**Community Laundromat
Ava, Missouri**



<p>TETRA TECH PROJECT NO. X9004.07.0068.000</p> <p>Direction: North</p>	DESCRIPTION	This photograph shows remaining debris and basement foundation at the former dry cleaning facility. Municipal Well No. 4 is located next to water tower.	1
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Laura Moore	04/09/2007



<p>TETRA TECH PROJECT NO. X9004.07.0068.000</p> <p>Direction: Northeast</p>	DESCRIPTION	This photograph shows the basement of the former dry cleaning facility where SB6, SB7, SB8, SB9, and SB10 were located.	2
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Laura Moore	04/09/2007

**Community Laundromat
Ava, Missouri**



TETRA TECH PROJECT NO. X9004.07.0068.000 Direction: Southwest	DESCRIPTION	This photograph shows the basement of the former dry cleaning facility. Debris burn area is southwest corner.	3
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Laura Moore	04/09/2007



TETRA TECH PROJECT NO. X9004.07.0068.000 Direction: East	DESCRIPTION	This photograph shows the location of SB11 ("X"), west of the former building.	4
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Laura Moore	04/09/2007

**Community Laundromat
Ava, Missouri**



TETRA TECH PROJECT NO. X9004.07.0068.000 Direction: East	DESCRIPTION	This photograph shows the location of SB12 (wooden stake), west of the former building.	5
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Laura Moore	04/09/2007



TETRA TECH PROJECT NO. X9004.07.0068.000 Direction: Southeast	DESCRIPTION	This photograph shows the location of SB13 (plastic bag), off northwest corner of Action Realty building.	6
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Laura Moore	04/10/2007

**Community Laundromat
Ava, Missouri**



<p>TETRA TECH PROJECT NO. X9004.07.0068.000</p> <p>Direction: South</p>	DESCRIPTION	This photograph shows the location of SB14 (orange paint), between the basement of the former dry cleaner building and the Action Realty building.	7
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Laura Moore	04/09/2007



<p>TETRA TECH PROJECT NO. X9004.07.0068.000</p> <p>Direction: Southeast</p>	DESCRIPTION	This photograph shows the location of SB15 (orange paint), near the center of the remaining slab-on-grade north of the basement.	8
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Laura Moore	04/09/2007

**Community Laundromat
Ava, Missouri**



TETRA TECH PROJECT NO. X9004.07.0068.000 Direction: NA	DESCRIPTION	This photograph shows the sump located in the southeast corner of the basement.	9
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Laura Moore	04/10/2007



TETRA TECH PROJECT NO. X9004.07.0068.000 Direction: Northeast	DESCRIPTION	This photograph shows the container of unknown liquid located amid debris at the north end of the former dry cleaner building.	10
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Laura Moore	04/10/2007

**Community Laundromat
Ava, Missouri**



TETRA TECH PROJECT NO. X9004.07.0068.000 Direction: NA	DESCRIPTION	This photograph shows an example of concrete coring through the basement floor. This photograph shows SB9 located in the southwest corner of the basement.	11
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Laura Moore	04/10/2007

END OF PHOTOGRAPHIC RECORD

TETRA TECH PROJECT NO. Direction:	DESCRIPTION		Date
	CLIENT		
	PHOTOGRAPHER		

APPENDIX C

LOGBOOK

2 4/9/07

Patrick Leiker

Community Landromet Site I9004.L.07.0068.00

0945 Tetra Tech START Team members

Patrick Leiker and Laura Moore leave

Tetra Tech Lenexa, KS office for EPA labs.

1002 Pick up sample labels, field sheets
and QC lab samples.

1120 Depart EPA warehouse with EPA

OSCs Eric Nold and Todd Campbell

1619 Arrive at site in Ava, Missouri.

Discuss sample locations. Minor change
made to sample locations discussed
in QAPP. 1 soil boring will
be moved from west parking lot
to east area between buildings.

Call Missouri One-Call to confirm
utility locate due date. Due
at ~~13:00~~ PL 1300 4/9/07.

1645 Mark and GPS sample locations.

Prepare Geoprobe and sample containers.

Discuss sample labeling strategy.

Turn on and calibrate MultiRac PID.

1753 OSC Nold begins direct-push at

EPA-SB12 0-4' 7.2 ppm @ 3' BGS,

4-6.5' BGS 0.0 ppm 6.5'-10' 4.2 ppm

TD 9.5' BGS
10' JM

4/9/07

3

1805 OSC CAMPBELL STARTS BORING

EPA-SB 6 CON

1810 START Team member Leiker collects
sample EPA-SB6 Con from concrete
in NW corner of basement slab

1829 OSC Campbell starts boring EPA-SB6-con

1834 START Member Leiker collects

sample EPA-SB7 Con from concrete
in NE corner of basement slab

1905 STM LEIKER COLLECTED SAMPLE

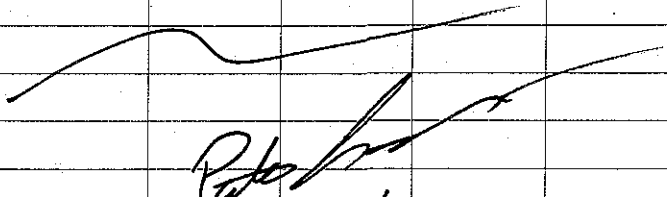
3402-3 ^{EPA}SB-9 CON SW CORNER

1910 COLLECTED 3402-101 (EPA-SB12-
3'-4')

1920 COLLECTED 3402-102 (EPA-SB12-
9'-10')

2000 Depart from the site to the hotel.

Equipment disconnected. Samples labeled
and packed.


4/9/07

4 4/9/07 Patrick Leiker
Community Landmark 19004. L 07.0068.00
0702 Arrive at site.

EPA-SB 6	36.961428	-92.662383
EPA-SB 7	36.961412	-92.662331
EPA-SB 8		
EPA-SB 9	36.961353	-92.662363
EPA-SB 10	36.961306	-92.6622716
EPA-SB 11	36.961336	-92.662475
EPA-SB 12	36.96143	-92.662495
EPA-SB 13	36.9613483	-92.6625116 ^{mm}
EPA-SB 14	36.96139	-92.662185
EPA-SB 15	36.961485	-92.662335

PHOTO 1 SB 13 LOOKING 4 E NOT SAMPLED
2 SB 14 " " - MADE & BLDG SAMPLE
3 SB 12 " E
4 SB 15 " SE
5 SB 14 " S
6 SB 6 " W
7 SB 9 " SW
8 SB 7 " DOWN
9 SUMP + SB 10 " E
10 SUMP
11 SB 8 " N

0795 NOLD STARTING EPA SB 11
0750 COLLECTED SAMPLE OF SUMP

4/10/07 5
WATER (EPA-SUMP-01) 3402-201
0800 EPA SB 11 0-4' 0.0 ppm
0757 STM LEIKER COLLECTED 3402-4
(EPA-SB 8 CON)
0820 EPA-SB 11 4-8' 0.5 ppm @
GRAVELLY SECTION 6.5' - 7.5' BGS
8' - 11.5' 0.5 ppm
11.5' - 15' 3.7 ppm @ 13' BGS
0830 STM LEIKER COLLECTED 3402-5
(EPA-SB 10 CON)
0830 STM LEIKER COLLECTED 3402-103
EPA-SB 8-0-1' (BENEATH CONCRETE)
0850 3402-104 EPA-SB 8-1-1.5'
(BENEATH CONCRETE)
0900 COLLECTED (EPA-SB 11-6.5-7.5')
3402-105
0910 COLLECTED EPA-SB 11-10.5-11.5'
3402-106
0920 WENT TO GET SUPPLIES
0940 BACK @ SITE
1000 THOROCRETE - START PATCHING
CRACKS WITH THOROCRETE CEMENT
PATCH
1005 PARAMETERS FOR TAP ON WEST SIDE
OF BLDG THAT IS E OF SITE
T 12.67 °C pH 7.53 SC 472 ms/cm

6 4/10/07

1020 COLLECTED RINSE SAMPLE OF HAND AUGER

1100 EPA SB 11 TO 18' 15' - 18'

6.3 ppm @ 16' COLLECTED

1105 EPA SB-11-15-16' NO TCLP PER EN

1125 START EPA SB 15 0-4' 0.2 ppm

~~4-8'~~ 0.8 ppm 4'-7.5'

1.7 ppm @ 7.5'-10'

10-13' 57 ppm @ 12.5' BAS

6.4 ppm @ 11' BAS

1215 REFS @ 13.5' BAS

13-13.5' BAS 36.5 ppm

1220 COLLECT EPA SB 15-11.5-12.5'

3402-108

1230 COLLECT EPA-SB 15-13-13.5'

3402-109

1255 Leave site for lunch

1330 Return to site. STM Motor and

DSC Nold leave site to GPS off-site dumping area.

1335 OSC Campbell begins drilling at SE corner of basement slab. Will drill through sump to collect sample.

1350 COLLECTED EPA SB 10-0-1' Below CONCRETE 3402-110

4/10/07

1405 COLLECTED EPA-SB 6-0-1'

BELOW CONCRETE 3402-111

1425 COLLECTED EPA-SB 7-0-1'

BELOW CONCRETE 3402-112

1435 COLLECTED EPA SB 9-0-1'

BELOW CONCRETE 3402-113

1440 EPA-SB-14 0-4' 0.0 ppm

1' RECOVERY

4-8' 0.0 ppm

8-11 0.2 ppm

11-13 0.0 ppm

1515 COLLECTED EPA-SB 14-8-9'

3402-114 + MS/MSD

3402-114 MS/MSD

1535 COLLECTED EPA-SB 14-12-13'

3402-115 + DUP 3402-115 FD

1605 COLLECT EPA-SB 13-2'-1'

BACKGROUND SAMPLE

1620 COLLECTED HAZMAT - UNKNOWN

MATERIAL (LIQUID) IN PLASTIC CONTAINER ON SITE

1640 OFF SITE

2030 @ LENSEX OFFICE

XXXXX M2022

APPENDIX D

CHAIN-OF-CUSTODY FORMS AND FIELD SHEETS

**CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII**

ACTIVITY LEADER(Print) <u>ERIC NOLD</u>	NAME OF SURVEY OR ACTIVITY <u>COMMUNITY CLEANERS</u>	DATE OF COLLECTION <u>9-10</u> <u>7</u> <u>07</u> DAY MONTH YEAR	SHEET <u>1</u> of <u>2</u>
--	---	---	-------------------------------

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS				VOA SET (2 VIALS EA)	SAMPLED MEDIA					RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)	
	CUBITAINER	BOTTLE	BOTTLE	BOTTLE		water	soil	sediment	dust	other		
												NUMBERS OF CONTAINERS PER SAMPLE NUMBER
3402-1					5						X	CONCRETE
-2					5						X	"
-3					5						X	"
-4					5						X	"
-5					5						X	"
-201					4	X						
-202R					4	X						
-203TB					4	X						
-204					2						X	UNKNOWN LIQUID
-101					5		X					
-102					5		X					Cooler 3.2°C
-103					5		X					
-104					3		X					Sample 114 ms/msd
-105					5		X					only 5 VOA vials
-106					5		X					received not 10.
-107					3		X					
-108					5		X					
-109					3		X					
-110					5		X					
-111					5		X					
-112					5		X					
-113					4		X					
-114					5		X					
-114 ms/msd					10		X					

DESCRIPTION OF SHIPMENT _____ PIECE(S) CONSISTING OF _____ BOX(ES) <u>2</u> ICE CHEST(S); OTHER _____	MODE OF SHIPMENT _____ COMMERCIAL CARRIER: _____ _____ COURIER _____ SAMPLER CONVEYED (SHIPPING DOCUMENT NUMBER) _____
--	--

PERSONNEL CUSTODY RECORD					
RELINQUISHED BY (SAMPLER) <u>Grom 10</u>	DATE <u>4.11.07</u>	TIME <u>10:45</u>	RECEIVED BY <u>Kay L. Dallmann</u>	REASON FOR CHANGE OF CUSTODY <u>analysis</u>	
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED		
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY	
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED		
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY	
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED		

**CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII**

ACTIVITY LEADER(Print) <u>ERIC NOLD</u>	NAME OF SURVEY OR ACTIVITY <u>COMMUNITY CLEANERS</u>	DATE OF COLLECTION <u>7-10</u> DAY <u>4</u> MONTH <u>07</u> YEAR	SHEET <u>2</u> of <u>2</u>
--	---	---	-------------------------------

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS				VOA SET (2 VIALS EA)	SAMPLED MEDIA					RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc)
	CUBITAINER	BOTTLE	BOTTLE	BOTTLE		water	soil	sediment	dust	other	
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
3402-715					5	X					
-115FD					5	X					
-116					3	X					
-120FB					4	X					

DESCRIPTION OF SHIPMENT	MODE OF SHIPMENT
_____ PIECE(S) CONSISTING OF _____ BOX(ES) <u>2</u> ICE CHEST(S); OTHER _____	_____ COMMERCIAL CARRIER: _____ _____ COURIER _____ SAMPLER CONVEYED (SHIPPING DOCUMENT NUMBER) _____

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER) <u>[Signature]</u>	DATE <u>4.1.07</u>	TIME <u>10:45</u>	RECEIVED BY <u>Kayle Doleman</u>	REASON FOR CHANGE OF CUSTODY <u>analysis</u>
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED	

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 **Sample Number:** 1 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 3402-1-__

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00

Location Desc: Cement sample

External Sample Number: EPA-SB6 CON

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: ____ **Sample Collection: Start:** 4/9/07 18:10
Longitude: ____ **End:** 1/1/ :-

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	1 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)
1 40 ml VOA %SOLIDS
2 40 ml VOA TCLP VOC

5,6

Sample Collected By: EN

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 3402 Sample Number: 2 QC Code: Matrix: Solid Tag ID: 3402-2-

Project ID: ENA71M00 Project Manager: Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava State: Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE Site ID: A71M Site OU: 00

Location Desc: Cement sample

External Sample Number: EPA-SB-7 CON

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: Sample Collection: Start: 4/9/07 18:34
Longitude: End: 1:1

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	1 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

1 %SOLIDS 40 ml VOA
2 TCLP VOC 40 ml VOA

3,4

Sample Collected By: EN

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 **Sample Number:** 3 **QC Code:** ___ **Matrix:** Solid **Tag ID:** 3402-3-___

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00

Location Desc: Cement sample

External Sample Number: EPA-SB 9 - CON

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: _____

Sample Collection: Start: 4/9/07 19:05

Longitude: _____

End: / / :

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	1 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)
1 40 ml VOA % SOLIDS
2 40 ml VOA TELP VOC

Sample Collected By: EN 7,8

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 **Sample Number:** 4 **QC Code:** ___ **Matrix:** Solid **Tag ID:** 3402-4-___

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00

Location Desc: Cement sample

External Sample Number: EPA-SB8-CON

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___

Sample Collection: Start: 4/10/07 07:57

Longitude: ___

End: ___

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	1 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

1 40 ml VOA % SOLIDS
2 40 ml VOA TELP VOC

Sample Collected By: EN

13,14

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 **Sample Number:** 5 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 3402-5-__

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00

Location Desc: Cement sample

External Sample Number: SPA-SB10 CAN

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: _____ **Sample Collection: Start:** 4/10/07 08:20
Longitude: _____ **End:** 1/1/ __:

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	1 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

1 40 ml VOA 90 SOLIDS
2 40 ml VOA TELP VOC

Sample Collected By: EN

15,16

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 3402 Sample Number: 101 QC Code: ___ Matrix: Solid Tag ID: 3402-101-___

Project ID: ENA71M00 Project Manager: Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava State: Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE Site ID: A71M Site OU: 00

Location Desc: Soil sample

External Sample Number:

EPA-SB12-3'-4'

EPA-SB12-3'-4'

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: ___

Sample Collection: Start: 4/9/07

18:10

Longitude: ___

End: 1/1/

:-

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

1 40 ml VOA % SOLIDS

2 40 ml VOA TCLP VOC

Sample Collected By: EN

9,10

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 **Sample Number:** 102 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 3402-102-__

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00

Location Desc: Soil sample

External Sample Number: EPA-SB12-8'-10'

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: ____ **Sample Collection: Start:** 4/9/07 19:25
Longitude: ____ **End:** 1/1 ____

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

1 40 ml % SOLIDS

2 40 ml TCLP VOC

Sample Collected By: EN 11, 12

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 **Sample Number:** 103 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 3402-103-__

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00

Location Desc: Soil sample

External Sample Number: EPA-SBB-0'-1'

Expected Conc: _____ (or Circle One: Low Medium High) **Date:** _____ **Time(24 hr):** _____
Latitude: _____ **Sample Collection: Start:** 08/10/07 08:30
Longitude: _____ **End:** / / :

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

1 40 mL VOA % SOLIDS
2 40 mL VOA TCLP VOC

0-1' BELOW CONCRETE

Sample Collected By: EN

17, 18

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 3402 Sample Number: 104 QC Code: ___ Matrix: Solid Tag ID: 3402-104-___

Project ID: ENA71M00 Project Manager: Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava State: Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE Site ID: A71M Site OU: 00

Location Desc: Soil sample

External Sample Number: EPA-SB8-1-1.5

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: ___

Sample Collection: Start: 4/10/07 0850

Longitude: ___

End: ___/___/___ ___:___

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

1 40 mL VOA % SOLIDS

Sample Collected By: EN

19, 20

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 **Sample Number:** 105 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 3402-105-__

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00

Location Desc: Soil sample

External Sample Number: 2PA-SB-11-6.5-7.5'

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: _____ **Sample Collection: Start:** 4/10/07 09:00
Longitude: _____ **End:** / / :

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

1 40 ml VOA % SOLIDS
2 40 ml VOA TELP VOL

Sample Collected By: EN 21, 22

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 **Sample Number:** 106 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 3402-106-____

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00

Location Desc: Soil sample

External Sample Number: EPA-SB 11 - 10.5' - 11.5'

Expected Conc: _____ (or Circle One: Low Medium High) **Date** _____ **Time(24 hr)** _____
Latitude: _____ **Sample Collection: Start:** 4/10/02 09:10
Longitude: _____ **End:** / / :

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

1 40ml VOA % SOLIDS
2 40ml VOA TCLP VOC

Sample Collected By: EN 23,24

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 **Sample Number:** 107 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 3402-107-__

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00

Location Desc: Soil sample

External Sample Number: EPA-SB-11-15-16'

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: _____ **Sample Collection: Start:** 4/10/07 11:05
Longitude: _____ **End:** / / :

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

1 40 ml VOA % SOLIDS

Sample Collected By: EN 25,26

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 **Sample Number:** 108 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 3402-108-__

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00

Location Desc: Soil sample

External Sample Number: EPA-SB15-11.5-125

Expected Conc: _____ (or Circle One: Low Medium High) **Date** _____ **Time(24 hr)** _____
Latitude: _____ **Sample Collection: Start:** 4/10/07 12:20
Longitude: _____ **End:** 1/1/ :

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

1 40 ml org SOLIDS
2 40 ml TCLP VOC

Sample Collected By: EN 27, 28

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 **Sample Number:** 109 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 3402-109-____

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00

Location Desc: Soil sample

External Sample Number: EPA-SB15-13'-13.5'

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: ____ **Sample Collection: Start:** 4/19/07 1230
Longitude: ____ **End:** 1/1/ :

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

1 40 ml VOA 0% SOLIDS

Sample Collected By: EN

29,30

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 **Sample Number:** 110 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 3402-110-____

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00

Location Desc: Soil sample

External Sample Number: EPA-SB10-0-1'

Expected Conc: _____ (or Circle One: Low Medium High) **Date** _____ **Time(24 hr)** _____
Latitude: _____ **Sample Collection: Start:** 4/10/07 13:50
Longitude: _____ **End:** / / :

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H ₂ O + sodium bisulfate (in vial)	14 Days	2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

1 40 ml VOA % SOLIDS
2 40 ml VOA TELP VOC

Sample Collected By: EN

3132

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 **Sample Number:** 111 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 3402-111-__

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00

Location Desc: Soil sample

External Sample Number: EPA-SB-C-0-1'

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: ____ **Sample Collection: Start:** 4/10/07 14:15
Longitude: ____ **End:** 1/1/ :

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

1 40 ml VOA 9/10 SOLIDS
2 40 ml VOA TELP VOC

Sample Collected By: EN

33,341

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 3402 Sample Number: 112 QC Code: ___ Matrix: Solid Tag ID: 3402-112-___

Project ID: ENA71M00 Project Manager: Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava State: Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE Site ID: A71M Site OU: 00

Location Desc: Soil sample

External Sample Number: EPA-SB7-0-1

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: ___ Sample Collection: Start: 4/19/07 14:25
Longitude: ___ End: 1 1 1 : 1

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

1 40 ml VOA % SOLIDS
2 40 ml VOA TCLP VOC

Sample Collected By: EN

35, 36

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 **Sample Number:** 113 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 3402-113-__

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00

Location Desc: Soil sample

External Sample Number: EPA-SB9-0-1

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: ____ **Sample Collection: Start:** 4/10/01 14:35
Longitude: ____ **End:** / / :

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

1 40ml VOA % SOLIDS

1 40ml VOA TCLP VOC

Sample Collected By: EN

37, 38

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 **Sample Number:** 114 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 3402-114-____

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00

Location Desc: Soil sample

External Sample Number: 28A-5B-14-6'-9'

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: ____ **Sample Collection: Start:** 4/10/07 15:15
Longitude: ____ **End:** ____/____/____ ____:____

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

1 40 ml VOA % SOLIDS
2 40 ml VOA TCLP VOC

Sample Collected By: EN 39,40

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 Sample Number: 117 QC Code: _____ Matrix: Solid Tag ID: 3402-117-114 MS/MSD

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00

Location Desc: Soil sample

External Sample Number: EPA-SB-14-8-9'

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: _____ **Sample Collection: Start:** 4/10/07 15:15
Longitude: _____ **End:** / / :

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

2 40 ml % SO4DS

4 40 ml VOA TCLP VOC

Sample Collected By: EN 45, 46, 47, 48

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 Sample Number: 115 QC Code: Matrix: Solid Tag ID: 3402-115-__

Project ID: ENA71M00 Project Manager: Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava State: Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE Site ID: A71M Site OU: 00

Location Desc: Soil sample

External Sample Number: EPA-SB 14-12-13

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: Sample Collection: Start: 7/10/07 15:35
Longitude: End: 11 11 11

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

1 40ml VOA % SOLIDS
2 40 ml VOA TCLP VOC

Sample Collected By: EN 41,42

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 Sample Number: 118 QC Code: _____ Matrix: Solid Tag ID: 3402-118-115FP

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00

Location Desc: Soil sample

External Sample Number: EPA-SB14-12-13

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: _____ **Sample Collection: Start:** 4/10/07 15:35
Longitude: _____ **End:** 1/1/ :

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

1 40ml VOA % Solids

2 40ml VOA TCLP VOC

Sample Collected By: EN ym,so

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 **Sample Number:** 116 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 3402-116-__

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00

Location Desc: Soil sample

External Sample Number: EPA-SB/3-0.2-1'

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ____

Sample Collection: Start: 4/10/01 16.05

Longitude: ____

End: ____/____/____ ____:____

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

1 40ml VOA % solids

Sample Collected By: EN 4/11/01

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 **Sample Number:** 120 **QC Code:** FB **Matrix:** Solid **Tag ID:** 3402-120-FB

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00

Location Desc: Soil VOA 5035 Trip Blank sample

External Sample Number: TRIP BLANK

Expected Conc: _____ (or Circle One: Low Medium High) **Date** _____ **Time(24 hr)** _____
Latitude: _____ **Sample Collection: Start:** LAB PREPARED _____
Longitude: _____ **End:** _____

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 - 40mL VOA vial (preserved/tared)	4 Deg C, H2O + sodium bisulfate (in vial)	14 Days	2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Sample Comments:

(N/A)

Sample Collected By: EN

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 **Sample Number:** 201 **QC Code:** ____ **Matrix:** Water **Tag ID:** 3402-201-__

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00

Location Desc: LDL VOA sample

External Sample Number: EPA-SUMP-01

Expected Conc: _____ (or Circle One: Low Medium High) **Date** _____ **Time(24 hr)** _____
Latitude: _____ **Sample Collection: Start:** 4/10/07 07:50 ^{PL}
Longitude: _____ **End:** / / 07:45

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) YSI Water Quality Parameters

0741 ^{PL} Temp pH $\mu S/cm$ DO mg/L
0741 8.90 7.34 1158 5.40

Sample Collected By: EN

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 3402 Sample Number: 202 QC Code: Matrix: Water Tag ID: 3402-202-R

Project ID: ENA71M00 Project Manager: Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava State: Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE Site ID: A71M Site OU: 00

Location Desc: LDL VOA sample

External Sample Number: RINSATE

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: Sample Collection: Start: 4/10/07 10:20
Longitude: End: / / :

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: EN

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 3402 Sample Number: 203 QC Code: __ Matrix: Water Tag ID: 3402-203-TB

Project ID: ENA71M00

Project Manager: Eric Nold

Project Desc: Community Laundromat Removal Site Evaluation

City: Ava

State: Missouri

Program: Superfund

Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE

Site ID: A71M Site OU: 00

Location Desc: LDL VOA sample

External Sample Number:

TRIP BLANK

Expected Conc: (or Circle One: Low Medium High)

Date

Time(24 hr)

Latitude: ____

Sample Collection: Start:

LAB PREPARED

Longitude: ____

End:

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: EN

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 3402 **Sample Number:** 204 **QC Code:** ____ **Matrix:** Water **Tag ID:** 3402-204-__

Project ID: ENA71M00 **Project Manager:** Eric Nold
Project Desc: Community Laundromat Removal Site Evaluation
City: Ava **State:** Missouri
Program: Superfund
Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE **Site ID:** A71M **Site OU:** 00.

Location Desc: LDL VOA sample

External Sample Number: HAZMAT

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: _____ **Sample Collection: Start:** 4/10/07 16:20
Longitude: _____ **End:** 1/1/ :-

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
2 4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

~~★~~!! UNKNOWN LIQUID ~~★~~!!

Sample Collected By: EN

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 3402 Sample Number: 206 QC Code: PE Matrix: Water Tag ID: 3402-206-PE

Project ID: ENA71M00

Project Manager: Eric Nold

Project Desc: Community Laundromat Removal Site Evaluation

City: Ava

State: Missouri

Program: Superfund

Site Name: COMMUNITY LAUNDROMAT SITE - SITEWIDE

Site ID: A71M Site OU: 00

Location Desc: CLP QATS PE SAMPLE: LDL VOA

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date: _____ Time(24 hr): _____

Latitude: _____

Sample Collection: Start: 03/23/2007 10:00

Longitude: _____

End: ____/____/____ ____:____

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 sample 4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

QATS SAMPLE ID #PW299

Sample and Instruction Sheets left in back dock refrigerator to be include with field samples. 03-20-07
PLC

Sample Collected By: _____

APPENDIX E

TRANSMITTAL OF SAMPLE ANALYSIS RESULTS FOR ASR #3402

**United States Environmental Protection Agency
Region 7
901 N. 5th Street
Kansas City, KS 66101**

Date:

Subject: Transmittal of Sample Analysis Results for ASR #: 3402

Project ID: ENA71M00

Project Description: Community Laundromat Removal Site Evaluation

From: Dale I. Bates, Director
Regional Laboratory, Environmental Services Division

To: Eric Nold
SUPR/EFLR

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the enclosed Customer Satisfaction Survey and Data Disposition/Sample Release memo for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Data Disposition/Sample Release memo.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

cc: Analytical Data File.

Project Manager: Eric Nold**Org:** SUPR/EFLR**Phone:** 913-551-7488**Project ID:** ENA71M00**Project Desc:** Community Laundromat Removal Site Evaluation**Location:** Ava**State:** Missouri**Program:** Superfund**Site Name:** COMMUNITY LAUNDROMAT SITE - SITEWIDE**Site ID:** A71M **Site OU:** 00**Purpose:** Site Characterization**GPRA PRC:** 302DC6C**Explanation of Codes, Units and Qualifiers used on this report****Sample QC Codes:** QC Codes identify the type of sample for quality control purpose.**Units:** Specific units in which results are reported.

___ = Field Sample
FB = Field Blank
FD = Field Duplicate

% = Percent
ug/L = Micrograms per Liter
ug/kg = Micrograms per Kilogram

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank) = Values have been reviewed and found acceptable for use.

J = The identification of the analyte is acceptable; the reported value is an estimate.

L = The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.

U = The analyte was not detected at or above the reporting limit.

UJ = The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.

ASR Number: 3402

Sample Information Summary

05/02/2007

Project ID: ENA71M00

Project Desc: Community Laundromat Removal Site Evaluation

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1 - ___		Solid	Cement sample	EPA-SB6 CON	04/09/2007	18:10			04/11/2007
2 - ___		Solid	Cement sample	EPA-SB7 CON	04/09/2007	18:34			04/11/2007
3 - ___		Solid	Cement sample	EPA-SB9- CON	04/09/2007	19:05			04/11/2007
4 - ___		Solid	Cement sample	EPA-SB9- CON	04/10/2007	07:57			04/11/2007
5 - ___		Solid	Cement sample	EPA-5310 CON	04/10/2007	08:20			04/11/2007
101 - ___		Solid	Soil sample	EPA-SB12-3'- 4'	04/09/2007	18:10			04/11/2007
102 - ___		Solid	Soil sample	EPA-SB12-8'- 10'	04/09/2007	19:25			04/11/2007
103 - ___		Solid	Soil sample	EPA-SB12- 0'-1'	04/10/2007	08:30			04/11/2007
104 - ___		Solid	Soil sample	EPA-SB8- 1-1.5	04/10/2007	08:50			04/11/2007
105 - ___		Solid	Soil sample	EPA-SB- 11-6.5'- 7.5'	04/10/2007	09:00			04/11/2007
106 - ___		Solid	Soil sample	EPA-SB11- 10.5'- 11.5'	04/10/2007	09:10			04/11/2007
107 - ___		Solid	Soil sample	EPA-SB11- 15'-16'	04/10/2007	11:05			04/11/2007
108 - ___		Solid	Soil sample	EPA-SB15- 11.5-12.5	04/10/2007	12:20			04/11/2007
109 - ___		Solid	Soil sample	EPA-SB15- 13'-13.5'	04/10/2007	12:30			04/11/2007
110 - ___		Solid	Soil sample	EPA-SB10-0- 1'	04/10/2007	13:50			04/11/2007
111 - ___		Solid	Soil sample	EPA-SB6- 0-1'	04/10/2007	14:15			04/11/2007
112 - ___		Solid	Soil sample	EPA-SB7- 0-1	04/10/2007	14:25			04/11/2007
113 - ___		Solid	Soil sample	EPA-SB9- 0-1	04/10/2007	14:35			04/11/2007
114 - ___		Solid	Soil sample	EPA-SB- 14-8'-9'	04/10/2007	15:15			04/11/2007
115 - ___		Solid	Soil sample	EPA-SB14-12- 13	04/10/2007	15:35			04/11/2007
115 - FD		Solid	Soil Sample	EPA-SB14-12- 13	04/10/2007	15:35			04/11/2007
116 - ___		Solid	Soil sample	EPA-SB13- 0.2-1'	04/10/2007	16:05			04/11/2007
120 - FB		Solid	Soil VOA 5035 Trip Blank sample	TRIP BLANK					04/11/2007
201 - ___		Water	LDL VOA sample	EPA-SUMP-01	04/10/2007	07:50			04/11/2007
202 - ___		Water	LDL VOA sample	Rinsate	04/10/2007	10:20			04/11/2007
203 - FB		Water	LDL VOA Sample	TRIP					04/11/2007

ASR Number: 3402

Sample Information Summary

05/02/2007

Project ID: ENA71M00

Project Desc: Community Laundromat Removal Site Evaluation

Sample No	QC Code	Matrix	Location	Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
204 - ____		Water	LDL	VOA sample	BLANK HAZ MAT	04/10/2007	16:20			04/11/2007

Analysis Comments About Results For This Analysis

1 Percent Solid**Lab:** Region 7 ESAT Contract Lab (In-House)**Method:** EPA Region 7 RLAB Method 3142.9D

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 101-__ 102-__
 103-__ 104-__ 105-__ 106-__ 107-__ 108-__ 109-__
 110-__ 111-__ 112-__ 113-__ 114-__ 115-__ 115-FD
 116-__ 120-FB

Comments:

(N/A)

1 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap**Lab:** Region 7 ESAT Contract Lab (In-House)**Method:** EPA Region 7 RLAB Method 3230.16C

Samples: 1-__ 2-__ 3-__ 4-__ 5-__

Comments:

Dichlorodifluoromethane and Vinyl Chloride were UJ-Coded in sample 3. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. The actual reporting limit for these analytes may be higher than the reported value.

2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap**Lab:** Region 7 ESAT Contract Lab (In-House)**Method:** EPA Region 7 RLAB Method 3230.16C

Samples: 101-__ 102-__ 103-__ 104-__ 105-__ 106-__ 107-__
 108-__ 109-__ 110-__ 111-__ 112-__ 113-__ 114-__
 115-__ 115-FD 116-__ 120-FB

Comments:

Tetrachloroethene was L-coded in samples 103 and 104. Although the analyte in question has been positively identified in the sample, the quantitation exceeded the calibrated range of the instrument. The reported value is the top of the calibrated range of the instrument and is accompanied by an L-code to indicate that the actual value is greater than the reported value. An initial screen on samples 103 and 104 showed the concentration of Tetrachloroethene to be significantly lower than the TCLP regulatory level. The high level extraction analysis was attempted for these samples. However, due to the time and the air in the vials, the Tetrachloroethene values were not valid. The high level extraction method was used to report Tetrachloroethene in samples 108 and 109.

1,1-Dichloroethene was UJ-coded in samples 114, 101, 102, 103, 104, 105, 106, 107, 109, 110, 111, 112, 113, 115, and 115-FD. Carbon Disulfide was UJ-coded in samples 107, and 112. These analytes were not found in the samples at or above the reporting limit, however,

Analysis Comments About Results For This Analysis

the reporting limit is an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. The actual reporting limit for these analytes may be higher than the reported value.

Carbon Disulfide was J-coded in samples 114, 101, 102, 103, 104, 105, 106, 109, 110, 111, 113, 115, and 115-FD. Although the analytes in question have been positively identified in the samples, the quantitation is an estimate (J-coded) due to the continuing calibration check not meeting accuracy specifications. The actual concentration for these analytes may be higher than the reported value.

Dichlorodifluoromethane was UJ-coded in samples 114, 101, 102, 103, 104, 105, 106, 107, 109, 110, 111, 112, 113, 115, and 115-FD. This analyte was not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of this analyte in the laboratory control sample. The actual reporting limit for this analyte may be higher than the reported value.

Acetone was U-coded in samples 101, 102, 103, 104, 105, 109, 110, 112, 113, and 115. Only samples containing this analyte at a level greater than ten times the contamination level of the blank are reported without being qualified. All samples that contained this analyte but at a level less than ten times the contamination in the blank have the result U-coded indicating that the reporting limit has been raised to the level found in the sample.

Acetone was U-coded in samples 120-FB and 108. Only samples containing this analytes at a level greater than ten times the contamination level of the blank are reported without being qualified. All samples that contained this analyte but at a level less than ten times the contamination in the blank have the result U-coded indicating that the reporting limit has been raised to the level found in the sample.

Bromoform, 1,2-Dibromoethane, Methyl tert-butyl Ether, and 1,1,2-Trichloroethane were UJ-coded in sample 114. These analytes were not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of these analytes in the laboratory matrix spike. The actual reporting limit for these analytes may be higher than the reported value.

Carbon Disulfide was J-coded in sample 114. Although the analyte in question has been positively identified in the sample, the quantitation is an estimate (J-coded) due to high recovery of this analyte in the laboratory matrix spike. The actual concentration for this analyte may be lower than the reported value.

1 VOCs in Water by GC/MS

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Samples: 204-__

Comments:

1 VOCs in Water by GC/MS for Low Detection Limits

Analysis Comments About Results For This Analysis

Lab: Contract Lab Program (Out-Source)**Method:** CLP Statement of Work**Samples:** 201-__ 202-__ 203-FB**Comments:**

Slight acetone and methylene chloride contamination was found in the laboratory method blank. Only samples containing these analytes at a level greater than ten times the contamination level of the blank are reported without being qualified. All samples that contained these analytes but at a level less than ten times the contamination in the blank have the result U-coded indicating that the reporting limit has been raised to the level found in the sample. Samples affected were: Acetone in sample -202 and methylene chloride in sample -201.

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Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1 Percent Solid					
Solids, percent	%	94.6	94.4	93.0	96.8
1 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg	140	74	15 U	62
Benzene	ug/kg	11 U	11 U	7.3 U	14 U
Bromodichloromethane	ug/kg	11 U	11 U	7.3 U	14 U
Bromoform	ug/kg	11 U	11 U	7.3 U	14 U
Bromomethane	ug/kg	11 U	11 U	7.3 U	14 U
2-Butanone	ug/kg	11 U	11 U	7.3 U	14 U
Carbon Disulfide	ug/kg	11 U	52	7.3 U	14 U
Carbon Tetrachloride	ug/kg	11 U	11 U	7.3 U	14 U
Chlorobenzene	ug/kg	11 U	11 U	7.3 U	14 U
Chloroethane	ug/kg	11 U	11 U	7.3 U	14 U
Chloroform	ug/kg	11 U	11 U	7.3 U	14 U
Chloromethane	ug/kg	11 U	11 U	7.3 U	14 U
Cyclohexane	ug/kg	11 U	11 U	7.3 U	14 U
1,2-Dibromo-3-Chloropropane	ug/kg	11 U	11 U	7.3 U	14 U
Dibromochloromethane	ug/kg	11 U	11 U	7.3 U	14 U
1,2-Dibromoethane	ug/kg	11 U	11 U	7.3 U	14 U
1,2-Dichlorobenzene	ug/kg	11 U	11 U	7.3 U	14 U
1,3-Dichlorobenzene	ug/kg	11 U	11 U	7.3 U	14 U
1,4-Dichlorobenzene	ug/kg	11 U	11 U	7.3 U	14 U
Dichlorodifluoromethane	ug/kg	11 U	11 U	7.3 U	14 U
1,1-Dichloroethane	ug/kg	11 U	11 U	7.3 U	14 U
1,2-Dichloroethane	ug/kg	11 U	11 U	7.3 U	14 U
1,1-Dichloroethene	ug/kg	11 U	11 U	7.3 U	14 U
cis-1,2-Dichloroethene	ug/kg	11 U	11 U	7.3 U	14 U
trans-1,2-Dichloroethene	ug/kg	11 U	11 U	7.3 U	14 U
1,2-Dichloropropane	ug/kg	11 U	11 U	7.3 U	14 U
cis-1,3-Dichloropropene	ug/kg	11 U	11 U	7.3 U	14 U
trans-1,3-Dichloropropene	ug/kg	11 U	11 U	7.3 U	14 U
Ethyl Benzene	ug/kg	11 U	11 U	7.3 U	14 U
2-Hexanone	ug/kg	21 U	22 U	15 U	28 U
Isopropylbenzene	ug/kg	11 U	11 U	7.3 U	14 U
Methyl Acetate	ug/kg	11 U	11 U	7.3 U	14 U
Methyl tert-butyl ether	ug/kg	11 U	11 U	7.3 U	14 U
Methylcyclohexane	ug/kg	11 U	11 U	7.3 U	14 U
Methylene Chloride	ug/kg	11 U	11 U	7.3 U	14 U
4-Methyl-2-Pentanone	ug/kg	21 U	22 U	15 U	28 U
Styrene	ug/kg	11 U	11 U	7.3 U	14 U
1,1,2,2-Tetrachloroethane	ug/kg	11 U	11 U	7.3 U	14 U
Tetrachloroethene	ug/kg	11 U	11 U	7.3 U	44
Toluene	ug/kg	11 U	11 U	7.3 U	14 U
1,2,3-Trichlorobenzene	ug/kg	21 U	22 U	15 U	28 U
1,2,4-Trichlorobenzene	ug/kg	11 U	11 U	7.3 U	14 U
1,1,1-Trichloroethane	ug/kg	11 U	11 U	7.3 U	14 U

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Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1,1,2-Trichloroethane	ug/kg	11 U	11 U	7.3 U	14 U
Trichloroethene	ug/kg	11 U	11 U	7.3 U	14 U
Trichlorofluoromethane	ug/kg	11 U	11 U	7.3 U	14 U
1,1,2-Trichlorotrifluoroethane	ug/kg	11 U	11 U	7.3 U	14 U
Vinyl Chloride	ug/kg	11 U	11 U	7.3 U	14 U
m and/or p-Xylene	ug/kg	11 U	11 U	7.3 U	14 U
o-Xylene	ug/kg	11 U	11 U	7.3 U	14 U

Analysis/ Analyte	Units	5-__	101-__	102-__	103-__
1 Percent Solid					
Solids, percent	%	92.0	78.8	69.9	72.9
1 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg	59			
Benzene	ug/kg	12 U			
Bromodichloromethane	ug/kg	12 U			
Bromoform	ug/kg	12 U			
Bromomethane	ug/kg	12 U			
2-Butanone	ug/kg	12 U			
Carbon Disulfide	ug/kg	70			
Carbon Tetrachloride	ug/kg	12 U			
Chlorobenzene	ug/kg	12 U			
Chloroethane	ug/kg	12 U			
Chloroform	ug/kg	12 U			
Chloromethane	ug/kg	12 U			
Cyclohexane	ug/kg	12 U			
1,2-Dibromo-3-Chloropropane	ug/kg	12 U			
Dibromochloromethane	ug/kg	12 U			
1,2-Dibromoethane	ug/kg	12 U			
1,2-Dichlorobenzene	ug/kg	12 U			
1,3-Dichlorobenzene	ug/kg	12 U			
1,4-Dichlorobenzene	ug/kg	12 U			
Dichlorodifluoromethane	ug/kg	12 U			
1,1-Dichloroethane	ug/kg	12 U			
1,2-Dichloroethane	ug/kg	12 U			
1,1-Dichloroethene	ug/kg	12 U			
cis-1,2-Dichloroethene	ug/kg	12 U			
trans-1,2-Dichloroethene	ug/kg	12 U			
1,2-Dichloropropane	ug/kg	12 U			
cis-1,3-Dichloropropene	ug/kg	12 U			
trans-1,3-Dichloropropene	ug/kg	12 U			
Ethyl Benzene	ug/kg	12 U			
2-Hexanone	ug/kg	24 U			
Isopropylbenzene	ug/kg	12 U			
Methyl Acetate	ug/kg	12 U			
Methyl tert-butyl ether	ug/kg	12 U			
Methylcyclohexane	ug/kg	12 U			
Methylene Chloride	ug/kg	12 U			
4-Methyl-2-Pentanone	ug/kg	24 U			
Styrene	ug/kg	12 U			
1,1,2,2-Tetrachloroethane	ug/kg	12 U			
Tetrachloroethene	ug/kg	12 U			
Toluene	ug/kg	12 U			
1,2,3-Trichlorobenzene	ug/kg	24 U			
1,2,4-Trichlorobenzene	ug/kg	12 U			
1,1,1-Trichloroethane	ug/kg	12 U			

Analysis/ Analyte	Units	5-__	101-__	102-__	103-__
1,1,2-Trichloroethane	ug/kg	12 U			
Trichloroethene	ug/kg	12 U			
Trichlorofluoromethane	ug/kg	12 U			
1,1,2-Trichlorotrifluoroethane	ug/kg	12 U			
Vinyl Chloride	ug/kg	12 U			
m and/or p-Xylene	ug/kg	12 U			
o-Xylene	ug/kg	12 U			
2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg		30 U	21 U	14 U
Benzene	ug/kg		5.5 U	7.1 U	6.3 U
Bromodichloromethane	ug/kg		5.5 U	7.1 U	6.3 U
Bromoform	ug/kg		5.5 U	7.1 U	6.3 U
Bromomethane	ug/kg		5.5 U	7.1 U	6.3 U
2-Butanone	ug/kg		5.5 U	7.1 U	6.3 U
Carbon Disulfide	ug/kg		12 J	44 J	13 J
Carbon Tetrachloride	ug/kg		5.5 U	7.1 U	6.3 U
Chlorobenzene	ug/kg		5.5 U	7.1 U	6.3 U
Chloroethane	ug/kg		5.5 U	7.1 U	6.3 U
Chloroform	ug/kg		5.5 U	7.1 U	6.3 U
Chloromethane	ug/kg		5.5 U	7.1 U	6.3 U
Cyclohexane	ug/kg		5.5 U	7.1 U	6.3 U
1,2-Dibromo-3-Chloropropane	ug/kg		5.5 U	7.1 U	6.3 U
Dibromochloromethane	ug/kg		5.5 U	7.1 U	6.3 U
1,2-Dibromoethane	ug/kg		5.5 U	7.1 U	6.3 U
1,2-Dichlorobenzene	ug/kg		5.5 U	7.1 U	6.3 U
1,3-Dichlorobenzene	ug/kg		5.5 U	7.1 U	6.3 U
1,4-Dichlorobenzene	ug/kg		5.5 U	7.1 U	6.3 U
Dichlorodifluoromethane	ug/kg		5.5 UJ	7.1 UJ	6.3 UJ
1,1-Dichloroethane	ug/kg		5.5 U	7.1 U	6.3 U
1,2-Dichloroethane	ug/kg		5.5 U	7.1 U	6.3 U
1,1-Dichloroethene	ug/kg		5.5 UJ	7.1 UJ	6.3 UJ
cis-1,2-Dichloroethene	ug/kg		5.5 U	7.1 U	6.3 U
trans-1,2-Dichloroethene	ug/kg		5.5 U	7.1 U	6.3 U
1,2-Dichloropropane	ug/kg		5.5 U	7.1 U	6.3 U
cis-1,3-Dichloropropene	ug/kg		5.5 U	7.1 U	6.3 U
trans-1,3-Dichloropropene	ug/kg		5.5 U	7.1 U	6.3 U
Ethyl Benzene	ug/kg		5.5 U	7.1 U	6.3 U
2-Hexanone	ug/kg		11 U	14 U	13 U
Isopropylbenzene	ug/kg		5.5 U	7.1 U	6.3 U
Methyl Acetate	ug/kg		5.5 U	7.1 U	6.3 U
Methyl tert-butyl ether	ug/kg		5.5 U	7.1 U	6.3 U
Methylcyclohexane	ug/kg		5.5 U	7.1 U	6.3 U
Methylene Chloride	ug/kg		5.7	7.1 U	6.3 U
4-Methyl-2-Pentanone	ug/kg		11 U	14 U	13 U
Styrene	ug/kg		5.5 U	7.1 U	6.3 U

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Analysis/ Analyte	Units	5-__	101-__	102-__	103-__
1,1,2,2-Tetrachloroethane	ug/kg		5.5 U	7.1 U	6.3 U
Tetrachloroethene	ug/kg		53	270	400 L
Toluene	ug/kg		5.5 U	7.1 U	6.3 U
1,2,3-Trichlorobenzene	ug/kg		11 U	14 U	13 U
1,2,4-Trichlorobenzene	ug/kg		5.5 U	7.1 U	6.3 U
1,1,1-Trichloroethane	ug/kg		5.5 U	7.1 U	6.3 U
1,1,2-Trichloroethane	ug/kg		5.5 U	7.1 U	6.3 U
Trichloroethene	ug/kg		5.5 U	7.1 U	6.3 U
Trichlorofluoromethane	ug/kg		5.5 U	7.1 U	6.3 U
1,1,2-Trichlorotrifluoroethane	ug/kg		5.5 U	7.1 U	6.3 U
Vinyl Chloride	ug/kg		5.5 U	7.1 U	6.3 U
m and/or p-Xylene	ug/kg		5.5 U	7.1 U	6.3 U
o-Xylene	ug/kg		5.5 U	7.1 U	6.3 U

Analysis/ Analyte	Units	104-__	105-__	106-__	107-__
1 Percent Solid					
Solids, percent	%	73.0	78.5	62.3	73.3
2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg	20 U	13 U	30 U	16 U
Benzene	ug/kg	7.4 U	5.9 U	15 U	7.8 U
Bromodichloromethane	ug/kg	7.4 U	5.9 U	15 U	7.8 U
Bromoform	ug/kg	7.4 U	5.9 U	15 U	7.8 U
Bromomethane	ug/kg	7.4 U	5.9 U	15 U	7.8 U
2-Butanone	ug/kg	7.4 U	5.9 U	15 U	7.8 U
Carbon Disulfide	ug/kg	36 U	16 U	24 U	7.8 U
Carbon Tetrachloride	ug/kg	7.4 U	5.9 U	15 U	7.8 U
Chlorobenzene	ug/kg	7.4 U	5.9 U	15 U	7.8 U
Chloroethane	ug/kg	7.4 U	5.9 U	15 U	7.8 U
Chloroform	ug/kg	7.4 U	5.9 U	15 U	7.8 U
Chloromethane	ug/kg	7.4 U	5.9 U	15 U	7.8 U
Cyclohexane	ug/kg	7.4 U	5.9 U	15 U	43
1,2-Dibromo-3-Chloropropane	ug/kg	7.4 U	5.9 U	15 U	7.8 U
Dibromochloromethane	ug/kg	7.4 U	5.9 U	15 U	7.8 U
1,2-Dibromoethane	ug/kg	7.4 U	5.9 U	15 U	7.8 U
1,2-Dichlorobenzene	ug/kg	7.4 U	5.9 U	15 U	7.8 U
1,3-Dichlorobenzene	ug/kg	7.4 U	5.9 U	15 U	7.8 U
1,4-Dichlorobenzene	ug/kg	7.4 U	5.9 U	15 U	7.8 U
Dichlorodifluoromethane	ug/kg	7.4 U	5.9 U	15 U	7.8 U
1,1-Dichloroethane	ug/kg	7.4 U	5.9 U	15 U	7.8 U
1,2-Dichloroethane	ug/kg	7.4 U	5.9 U	15 U	7.8 U
1,1-Dichloroethene	ug/kg	7.4 U	5.9 U	15 U	7.8 U
cis-1,2-Dichloroethene	ug/kg	7.4 U	5.9 U	15 U	7.8 U
trans-1,2-Dichloroethene	ug/kg	7.4 U	5.9 U	15 U	7.8 U
1,2-Dichloropropane	ug/kg	7.4 U	5.9 U	15 U	7.8 U
cis-1,3-Dichloropropene	ug/kg	7.4 U	5.9 U	15 U	7.8 U
trans-1,3-Dichloropropene	ug/kg	7.4 U	5.9 U	15 U	7.8 U
Ethyl Benzene	ug/kg	7.4 U	5.9 U	15 U	9.7
2-Hexanone	ug/kg	15 U	12 U	30 U	16 U
Isopropylbenzene	ug/kg	7.4 U	5.9 U	15 U	7.8 U
Methyl Acetate	ug/kg	7.4 U	5.9 U	15 U	7.8 U
Methyl tert-butyl ether	ug/kg	7.4 U	5.9 U	15 U	7.8 U
Methylcyclohexane	ug/kg	7.4 U	5.9 U	15 U	7.8 U
Methylene Chloride	ug/kg	7.4 U	5.9 U	15 U	7.8 U
4-Methyl-2-Pentanone	ug/kg	15 U	12 U	30 U	16 U
Styrene	ug/kg	7.4 U	5.9 U	15 U	7.8 U
1,1,2,2-Tetrachloroethane	ug/kg	7.4 U	5.9 U	15 U	7.8 U
Tetrachloroethene	ug/kg	400 U	40	270	620
Toluene	ug/kg	7.4 U	5.9 U	15 U	26
1,2,3-Trichlorobenzene	ug/kg	15 U	12 U	30 U	16 U
1,2,4-Trichlorobenzene	ug/kg	7.4 U	5.9 U	15 U	7.8 U
1,1,1-Trichloroethane	ug/kg	7.4 U	5.9 U	15 U	7.8 U

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Analysis/ Analyte	Units	104-__	105-__	106-__	107-__
1,1,2-Trichloroethane	ug/kg	7.4 U	5.9 U	15 U	7.8 U
Trichloroethene	ug/kg	7.4 U	5.9 U	15 U	7.8 U
Trichlorofluoromethane	ug/kg	7.4 U	5.9 U	15 U	7.8 U
1,1,2-Trichlorotrifluoroethane	ug/kg	7.4 U	5.9 U	15 U	7.8 U
Vinyl Chloride	ug/kg	7.4 U	5.9 U	15 U	7.8 U
m and/or p-Xylene	ug/kg	7.4 U	5.9 U	15 U	21
o-Xylene	ug/kg	7.4 U	5.9 U	15 U	8.6

Analysis/ Analyte	Units	108-__	109-__	110-__	111-__
1 Percent Solid					
Solids, percent	%	59.4	77.6	69.3	70.3
2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg	34 U	31 U	18 U	35
Benzene	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
Bromodichloromethane	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
Bromoform	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
Bromomethane	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
2-Butanone	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
Carbon Disulfide	ug/kg	26	18.8 U	50 U	28 U
Carbon Tetrachloride	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
Chlorobenzene	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
Chloroethane	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
Chloroform	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
Chloromethane	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
Cyclohexane	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
1,2-Dibromo-3-Chloropropane	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
Dibromochloromethane	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
1,2-Dibromoethane	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
1,2-Dichlorobenzene	ug/kg	18	6.4 U	8.0 U	7.4 U
1,3-Dichlorobenzene	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
1,4-Dichlorobenzene	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
Dichlorodifluoromethane	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
1,1-Dichloroethane	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
1,2-Dichloroethane	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
1,1-Dichloroethene	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
cis-1,2-Dichloroethene	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
trans-1,2-Dichloroethene	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
1,2-Dichloropropane	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
cis-1,3-Dichloropropene	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
trans-1,3-Dichloropropene	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
Ethyl Benzene	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
2-Hexanone	ug/kg	18 U	13 U	16 U	15 U
Isopropylbenzene	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
Methyl Acetate	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
Methyl tert-butyl ether	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
Methylcyclohexane	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
Methylene Chloride	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
4-Methyl-2-Pentanone	ug/kg	18 U	13 U	16 U	15 U
Styrene	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
1,1,2,2-Tetrachloroethane	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
Tetrachloroethene	ug/kg	5400	2100	8.0 U	86
Toluene	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
1,2,3-Trichlorobenzene	ug/kg	18 U	13 U	16 U	15 U
1,2,4-Trichlorobenzene	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
1,1,1-Trichloroethane	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U

ASR Number: 3402

RLAB Approved Sample Analysis Results

05/02/2007

Project ID: ENA71M00

Project Desc: Community Laundromat Removal Site Evaluation

Analysis/ Analyte	Units	108-__	109-__	110-__	111-__
1,1,2-Trichloroethane	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
Trichloroethene	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
Trichlorofluoromethane	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
1,1,2-Trichlorotrifluoroethane	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
Vinyl Chloride	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
m and/or p-Xylene	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U
o-Xylene	ug/kg	8.9 U	6.4 U	8.0 U	7.4 U

ASR Number: 3402

RLAB Approved Sample Analysis Results

05/02/2007

Project ID: ENA71M00

Project Desc: Community Laundromat Removal Site Evaluation

Analysis/ Analyte	Units	112-__	113-__	114-__	115-__
1 Percent Solid					
Solids, percent	%	70.5	77.2	71.7	69.4
2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg	23 U	26 U	13 U	14 U
Benzene	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
Bromodichloromethane	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
Bromoform	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
Bromomethane	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
2-Butanone	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
Carbon Disulfide	ug/kg	7.0 U	5.8 U	12 U	14 U
Carbon Tetrachloride	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
Chlorobenzene	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
Chloroethane	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
Chloroform	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
Chloromethane	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
Cyclohexane	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
1,2-Dibromo-3-Chloropropane	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
Dibromochloromethane	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
1,2-Dibromoethane	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
1,2-Dichlorobenzene	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
1,3-Dichlorobenzene	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
1,4-Dichlorobenzene	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
Dichlorodifluoromethane	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
1,1-Dichloroethane	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
1,2-Dichloroethane	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
1,1-Dichloroethene	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
cis-1,2-Dichloroethene	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
trans-1,2-Dichloroethene	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
1,2-Dichloropropane	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
cis-1,3-Dichloropropene	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
trans-1,3-Dichloropropene	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
Ethyl Benzene	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
2-Hexanone	ug/kg	14 U	12 U	13 U	14 U
Isopropylbenzene	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
Methyl Acetate	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
Methyl tert-butyl ether	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
Methylcyclohexane	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
Methylene Chloride	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
4-Methyl-2-Pentanone	ug/kg	14 U	12 U	13 U	14 U
Styrene	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
1,1,2,2-Tetrachloroethane	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
Tetrachloroethene	ug/kg	14	38	6.7 U	7.0 U
Toluene	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
1,2,3-Trichlorobenzene	ug/kg	14 U	12 U	13 U	14 U
1,2,4-Trichlorobenzene	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
1,1,1-Trichloroethane	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U

ASR Number: 3402

RLAB Approved Sample Analysis Results

05/02/2007

Project ID: ENA71M00

Project Desc: Community Laundromat Removal Site Evaluation

Analysis/ Analyte	Units	112-__	113-__	114-__	115-__
1,1,2-Trichloroethane	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
Trichloroethene	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
Trichlorofluoromethane	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
1,1,2-Trichlorotrifluoroethane	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
Vinyl Chloride	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
m and/or p-Xylene	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U
o-Xylene	ug/kg	7.0 U	5.8 U	6.7 U	7.0 U

ASR Number: 3402

RLAB Approved Sample Analysis Results

05/02/2007

Project ID: ENA71M00

Project Desc: Community Laundromat Removal Site Evaluation

Analysis/ Analyte	Units	115-FD	116-__	120-FB	201-__
1 Percent Solid					
Solids, percent	%	70.1	80.0	94.4	
2 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg	61	180	17 U	
Benzene	ug/kg	7.3 U	7.3 U	5.4 U	
Bromodichloromethane	ug/kg	7.3 U	7.3 U	5.4 U	
Bromoform	ug/kg	7.3 U	7.3 U	5.4 U	
Bromomethane	ug/kg	7.3 U	7.3 U	5.4 U	
2-Butanone	ug/kg	9.8	11	5.4 U	
Carbon Disulfide	ug/kg	15 U	16	5.4 U	
Carbon Tetrachloride	ug/kg	7.3 U	7.3 U	5.4 U	
Chlorobenzene	ug/kg	7.3 U	7.3 U	5.4 U	
Chloroethane	ug/kg	7.3 U	7.3 U	5.4 U	
Chloroform	ug/kg	7.3 U	7.3 U	5.4 U	
Chloromethane	ug/kg	7.3 U	7.3 U	5.4 U	
Cyclohexane	ug/kg	7.3 U	7.3 U	5.4 U	
1,2-Dibromo-3-Chloropropane	ug/kg	7.3 U	7.3 U	5.4 U	
Dibromochloromethane	ug/kg	7.3 U	7.3 U	5.4 U	
1,2-Dibromoethane	ug/kg	7.3 U	7.3 U	5.4 U	
1,2-Dichlorobenzene	ug/kg	7.3 U	7.3 U	5.4 U	
1,3-Dichlorobenzene	ug/kg	7.3 U	7.3 U	5.4 U	
1,4-Dichlorobenzene	ug/kg	7.3 U	7.3 U	5.4 U	
Dichlorodifluoromethane	ug/kg	7.3 U	7.3 U	5.4 U	
1,1-Dichloroethane	ug/kg	7.3 U	7.3 U	5.4 U	
1,2-Dichloroethane	ug/kg	7.3 U	7.3 U	5.4 U	
1,1-Dichloroethene	ug/kg	7.3 U	7.3 U	5.4 U	
cis-1,2-Dichloroethene	ug/kg	7.3 U	7.3 U	5.4 U	
trans-1,2-Dichloroethene	ug/kg	7.3 U	7.3 U	5.4 U	
1,2-Dichloropropane	ug/kg	7.3 U	7.3 U	5.4 U	
cis-1,3-Dichloropropene	ug/kg	7.3 U	7.3 U	5.4 U	
trans-1,3-Dichloropropene	ug/kg	7.3 U	7.3 U	5.4 U	
Ethyl Benzene	ug/kg	7.3 U	7.3 U	5.4 U	
2-Hexanone	ug/kg	15 U	15 U	11 U	
Isopropylbenzene	ug/kg	7.3 U	7.3 U	5.4 U	
Methyl Acetate	ug/kg	7.3 U	7.3 U	5.4 U	
Methyl tert-butyl ether	ug/kg	7.3 U	7.3 U	5.4 U	
Methylcyclohexane	ug/kg	7.3 U	7.3 U	5.4 U	
Methylene Chloride	ug/kg	7.9	7.3 U	5.4 U	
4-Methyl-2-Pentanone	ug/kg	15 U	15 U	11 U	
Styrene	ug/kg	7.3 U	7.3 U	5.4 U	
1,1,2,2-Tetrachloroethane	ug/kg	7.3 U	7.3 U	5.4 U	
Tetrachloroethene	ug/kg	7.3 U	7.3 U	5.4 U	
Toluene	ug/kg	13	7.3 U	5.4 U	
1,2,3-Trichlorobenzene	ug/kg	15 U	15 U	11 U	
1,2,4-Trichlorobenzene	ug/kg	7.3 U	7.3 U	5.4 U	
1,1,1-Trichloroethane	ug/kg	7.3 U	7.3 U	5.4 U	

ASR Number: 3402

RLAB Approved Sample Analysis Results

05/02/2007

Project ID: ENA71M00

Project Desc: Community Laundromat Removal Site Evaluation

Analysis/ Analyte	Units	115-FD	116-__	120-FB	201-__
1,1,2-Trichloroethane	ug/kg	7.3 U	7.3 U	5.4 U	
Trichloroethene	ug/kg	7.3 U	7.3 U	5.4 U	
Trichlorofluoromethane	ug/kg	7.3 U	7.3 U	5.4 U	
1,1,2-Trichlorotrifluoroethane	ug/kg	7.3 U	7.3 U	5.4 U	
Vinyl Chloride	ug/kg	7.3 U	7.3 U	5.4 U	
m and/or p-Xylene	ug/kg	7.3 U	7.3 U	5.4 U	
o-Xylene	ug/kg	7.3 U	7.3 U	5.4 U	
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L				5.0 U
Benzene	ug/L				0.50 U
Bromochloromethane	ug/L				0.50 U
Bromodichloromethane	ug/L				0.50 U
Bromoform	ug/L				0.50 U
Bromomethane	ug/L				0.50 U
2-Butanone	ug/L				5.0 U
Carbon Disulfide	ug/L				0.50 U
Carbon Tetrachloride	ug/L				0.50 U
Chlorobenzene	ug/L				0.50 U
Chloroethane	ug/L				0.50 U
Chloroform	ug/L				0.50 U
Chloromethane	ug/L				0.50 U
Cyclohexane	ug/L				0.50 U
1,2-Dibromo-3-Chloropropane	ug/L				0.50 U
Dibromochloromethane	ug/L				0.50 U
1,2-Dibromoethane	ug/L				0.50 U
1,2-Dichlorobenzene	ug/L				0.50 U
1,3-Dichlorobenzene	ug/L				0.50 U
1,4-Dichlorobenzene	ug/L				0.50 U
Dichlorodifluoromethane	ug/L				0.50 U
1,1-Dichloroethane	ug/L				0.50 U
1,2-Dichloroethane	ug/L				0.50 U
1,1-Dichloroethene	ug/L				0.50 U
cis-1,2-Dichloroethene	ug/L				0.50 U
trans-1,2-Dichloroethene	ug/L				0.50 U
1,2-Dichloropropane	ug/L				0.50 U
cis-1,3-Dichloropropene	ug/L				0.50 U
trans-1,3-Dichloropropene	ug/L				0.50 U
Ethyl Benzene	ug/L				0.50 U
2-Hexanone	ug/L				5.0 U
Isopropylbenzene	ug/L				0.50 U
Methyl Acetate	ug/L				0.50 U
Methyl tert-butyl ether	ug/L				0.50 U
Methylcyclohexane	ug/L				0.50 U
Methylene Chloride	ug/L				0.72 U
4-Methyl-2-Pentanone	ug/L				5.0 U

ASR Number: 3402

RLAB Approved Sample Analysis Results

05/02/2007

Project ID: ENA71M00

Project Desc: Community Laundromat Removal Site Evaluation

Analysis/ Analyte	Units	115-FD	116-__	120-FB	201-__
Styrene	ug/L				0.50 U
1,1,2,2-Tetrachloroethane	ug/L				0.50 U
Tetrachloroethene	ug/L				0.50 U
Toluene	ug/L				0.50 U
1,2,3-Trichlorobenzene	ug/L				0.50 U
1,2,4-Trichlorobenzene	ug/L				0.50 U
1,1,1-Trichloroethane	ug/L				0.50 U
1,1,2-Trichloroethane	ug/L				0.50 U
Trichloroethene	ug/L				0.50 U
Trichlorofluoromethane	ug/L				0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L				0.50 U
Vinyl Chloride	ug/L				0.50 U
m and/or p-Xylene	ug/L				0.50 U
o-Xylene	ug/L				0.50 U

ASR Number: 3402

RLAB Approved Sample Analysis Results

05/02/2007

Project ID: ENA71M00

Project Desc: Community Laundromat Removal Site Evaluation

Analysis/ Analyte	Units	202-__	203-FB	204-__
1 VOCs in Water by GC/MS				
Acetone	ug/L			10 U
Benzene	ug/L			5.0 U
Bromodichloromethane	ug/L			5.0 U
Bromoform	ug/L			5.0 U
Bromomethane	ug/L			5.0 U
2-Butanone	ug/L			10 U
Carbon Disulfide	ug/L			5.0 U
Carbon Tetrachloride	ug/L			5.0 U
Chlorobenzene	ug/L			5.0 U
Chloroethane	ug/L			5.0 U
Chloroform	ug/L			5.0 U
Chloromethane	ug/L			5.0 U
Cyclohexane	ug/L			5.0 U
1,2-Dibromo-3-Chloropropane	ug/L			5.0 U
Dibromochloromethane	ug/L			5.0 U
1,2-Dibromoethane	ug/L			5.0 U
1,2-Dichlorobenzene	ug/L			5.0 U
1,3-Dichlorobenzene	ug/L			5.0 U
1,4-Dichlorobenzene	ug/L			5.0 U
Dichlorodifluoromethane	ug/L			5.0 U
1,1-Dichloroethane	ug/L			5.0 U
1,2-Dichloroethane	ug/L			5.0 U
1,1-Dichloroethene	ug/L			5.0 U
cis-1,2-Dichloroethene	ug/L			5.0 U
trans-1,2-Dichloroethene	ug/L			5.0 U
1,2-Dichloropropane	ug/L			5.0 U
cis-1,3-Dichloropropene	ug/L			5.0 U
trans-1,3-Dichloropropene	ug/L			5.0 U
Ethyl Benzene	ug/L			5.0 U
2-Hexanone	ug/L			10 U
Isopropylbenzene	ug/L			5.0 U
Methyl Acetate	ug/L			5.0 U
Methyl tert-butyl ether	ug/L			5.0 U
Methylcyclohexane	ug/L			5.0 U
Methylene Chloride	ug/L			5.0 U
4-Methyl-2-Pentanone	ug/L			10 U
Styrene	ug/L			5.0 U
1,1,2,2-Tetrachloroethane	ug/L			5.0 U
Tetrachloroethene	ug/L			5.0 U
Toluene	ug/L			5.0 U
1,2,3-Trichlorobenzene	ug/L			5.0 U
1,2,4-Trichlorobenzene	ug/L			5.0 U
1,1,1-Trichloroethane	ug/L			5.0 U
1,1,2-Trichloroethane	ug/L			5.0 U
Trichloroethene	ug/L			5.0 U

ASR Number: 3402

RLAB Approved Sample Analysis Results

05/02/2007

Project ID: ENA71M00

Project Desc: Community Laundromat Removal Site Evaluation

Analysis/ Analyte	Units	202-__	203-FB	204-__
Trichlorofluoromethane	ug/L			5.0 U
1,1,2-Trichlorotrifluoroethane	ug/L			5.0 U
Vinyl Chloride	ug/L			5.0 U
m and/or p-Xylene	ug/L			5.0 U
o-Xylene	ug/L			5.0 U
1 VOCs in Water by GC/MS for Low Detection Limits				
Acetone	ug/L	9.1 U	5.0 U	
Benzene	ug/L	0.50 U	0.50 U	
Bromochloromethane	ug/L	0.50 U	0.50 U	
Bromodichloromethane	ug/L	0.50 U	0.50 U	
Bromoform	ug/L	0.50 U	0.50 U	
Bromomethane	ug/L	0.50 U	0.50 U	
2-Butanone	ug/L	5.0 U	5.0 U	
Carbon Disulfide	ug/L	0.50 U	0.50 U	
Carbon Tetrachloride	ug/L	0.50 U	0.50 U	
Chlorobenzene	ug/L	0.50 U	0.50 U	
Chloroethane	ug/L	0.50 U	0.50 U	
Chloroform	ug/L	0.50 U	0.50 U	
Chloromethane	ug/L	0.50 U	0.50 U	
Cyclohexane	ug/L	0.50 U	0.50 U	
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	
Dibromochloromethane	ug/L	0.50 U	0.50 U	
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	
Ethyl Benzene	ug/L	0.50 U	0.50 U	
2-Hexanone	ug/L	5.0 U	5.0 U	
Isopropylbenzene	ug/L	0.50 U	0.50 U	
Methyl Acetate	ug/L	0.50 U	0.50 U	
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	
Methylcyclohexane	ug/L	0.50 U	0.50 U	
Methylene Chloride	ug/L	26	0.50 U	
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	
Styrene	ug/L	0.50 U	0.50 U	
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	

ASR Number: 3402

RLAB Approved Sample Analysis Results

05/02/2007

Project ID: ENA71M00

Project Desc: Community Laundromat Removal Site Evaluation

Analysis/ Analyte	Units	202-__	203-FB	204-__
Tetrachloroethene	ug/L	0.50 U	0.50 U	
Toluene	ug/L	0.50 U	0.50 U	
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	
Trichloroethene	ug/L	0.50 U	0.50 U	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	
Vinyl Chloride	ug/L	0.50 U	0.50 U	
m and/or p-Xylene	ug/L	0.50 U	0.50 U	
o-Xylene	ug/L	0.50 U	0.50 U	

**United States Environmental Protection Agency
Region VII
901 N. 5th Street
Kansas City, KS 66101**

Date: __/__/__

Subject: Data Disposition/Sample Release for ASR #: 3402

Project ID: ENA71M00

Project Description: Community Laundromat Removal Site Evaluation

From: Eric Nold
SUPR/EFLR

To: Kaye Dollmann
ENSV/RLAB/CATS

I have received and reviewed the Transmittal of Sample Analysis Results for the above-referenced Analytical Services Request(ASR) and have indicated my findings below by checking one of the boxes for Data Disposition.

- ☐ "RELEASED" - Read-only to all Region 7 employees and contractors that have R7LIMS "Customer" account.
- ☐ "Project Manager Accessible" - Available on the LAN in R7LIMS for my use only.
- ☐ "Archived" - THIS DATA IS OF A SENSITIVE NATURE. Any future reports must be requested through the laboratory.

I have determined that the samples need to be held until _____, after which time they will be disposed of in accordance with applicable regulations. I understand that if I do not specify a "hold until" date, the process for proper disposal of the samples will be initiated 30 days after the date on the data transmittal.