# PCB-Contaminated Concrete Pads Removal and Subsurface Investigation

Prepared for:

Sequoyah Fuels Corporation Gore, OK

September, 2004

Prepared by:

**Cinnabar Environmental Services** 

Environmental Engineering and Consulting



5121 South Wheeling (918) 742-0082 Tulsa, OK 74105 www.cinnabar.cc

# PCB-Contaminated Concrete Pads Removal and Subsurface Investigation

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# PCB-Contaminated Concrete Pads Removal and Subsurface Investigation

Sequoyah Fuels Corporation Gore, OK

#### 1.0 INTRODUCTION

#### 1.1 Site Description

The subject site is Sequoyah Fuels Corporation (SFC), a uranium processing facility near Gore, Oklahoma. The facility is presently owned by General Atomics of La Jolla, California, which purchased the plant in 1988 from Kerr-McGee Corporation. The facility is no longer in operation and currently undergoing decommissioning.

The subject of this investigation (project site) is an outside area located on the east side of the Main Process Building, and consists of an area of approximately 1,600 square feet. Kerr-McGee Corporation used the area for locating certain electrical equipment on concrete pads. An Area Map is shown in Exhibit A depicting the facility location, while a Site Location Map shown in Exhibit B depicts the location of the project site within the facility.

The facility is rurally-located, being surrounded by agricultural areas with a low population density. The nearest community is Gore, Oklahoma, with a population of less than 700 and located approximately 4 miles to the northwest of the facility.

#### 1.2 Background

Information obtained from the SFC staff and their contractors indicated the project site is contaminated with Polychlorinated Bi-phenols (PCB) resulting from historical leaks from electrical rectifiers located on the concrete pads. Records indicate the leaks of PCB-containing oils (Aroclor

1260) were discovered and investigated in 1978 and in the early 1980s, with some evidence of limited remediation and disposal of contaminated items during that period. Sometime prior to transfer of facility ownership Kerr-McGee removed all of the electrical equipment from the pads, covered them with an epoxy coating, and attached a placard indicating both were contaminated with PCBs.

The historical leaks and remediation/disposal efforts associated with the rectifiers, as well as some recent limited soil analyses indicating that PCB contamination remains, were recently described in two reports provided earlier to EPA–Region 6, one titled *RCRA Facility Investigation Report (RFI)* and the other titled *Corrective Measure's Study (CMS)*. Those reports were submitted as part of the ongoing decommissioning and facility closure process.

#### 1.3 Scope of Work

Cinnabar Environmental Services (CES) was contracted by SFC to conduct a subsurface investigation at the above referenced site. The purpose of this investigation was to evaluate the subsurface soil and groundwater (if present) for the presence and extent of PCB contamination from known releases of transformer/rectifier oil. The approved scope of work consisted of overseeing the removal and disposal of PCB-contaminated concrete pads, the advancement of environmental borings, the collection of soil and groundwater samples, analysis of samples for PCBs, and the reporting of those information and results to SFC in a written report.

#### 2.0 CONCRETE PADS REMOVAL

#### 2.1 Concrete Sampling

As previously described, the two concrete pads overlying the project area were previously marked as PCB-contaminated. Both pads had been coated with gray epoxy paint and labeled as containing PCB contamination.

In an effort to determine if the PCB contamination was isolated to certain portions of the pads, and thereby possibly allow lesser quantities to be managed as a TSCA waste, pad sampling and analysis activities were initiated. A concrete *Scabbler* was utilized for pulverizing approximately 1/8 inch from the surface of each pad. Each pad was then divided into in nine equal areas for sampling and testing purposes. Some of the samples were then tested for the presence of PCB with field test kits (see Section 3.3), with the results indicating PCB presence in all areas tested. Some of the samples were then sent to a commercial certified lab for verification, with results verifying the presence of PCBs well above the acceptable 50 mg/kg level allowed for disposal in a municipal waste landfill.

A decision was made to handle the entirety of both pads as PCB-contaminated waste, and arranged for their removal and subsequent disposal at an approved site.

#### 2.2 Pad Removal

On August 23 and 24, 2004, Mr. Chris Thompson of Cinnabar and Mr. Bill Reid of Omega Project Services (contractor to SFC) oversaw Gary's Concrete Sawing reduce the pads into more manageable size pieces. Cooling water from the sawing process was vacuumed into 55-gallon drums, resulted in the accumulation of five (5) drums of wastewater that are currently being stored on-site pending analysis and subsequent disposal.

After sawing was complete the concrete, along with some of the sand from beneath the pad, was placed into six (6) 20-yard roll-offs by a SFC contractor. The roll-offs were then covered with a tarp to prevent storm water contact and losses during storage and transport to the disposal site.

#### 2.3 Pad Disposal

The roll-offs were transported by a commercial waste trucking company under hazardous waste manifests to the Clean Harbors waste collection facility in Coffeyville, Kansas. Clean Harbors then loaded the concrete and sand into railcars for transport to the company's TSCA waste disposal facility (Grassy Mountain Facility - UTD #991301748). Copies of the manifests can be found in Exhibit H.

#### 3.0 SUBSURFACE INVESTIGATION

#### 3.1 <u>Environmental Borings</u>

On August 25 and 26, 2004, CES oversaw Giles Environmental in the installation of soil borings at the project area. A grid was constructed across the site on 4 foot centers to identify boring locations. Twenty-eight (28) soil borings were advanced at the project site.

Initial soil-boring locations were selected based on knowledge of past operations and historical analytical data (see Exhibit C), with the goal of determining the lateral and vertical extent of PCB contamination during the first day of drilling. This effort was aided with the use of real-time analysis utilizing field test kits (see Section 3.3). Borings during the second day were to provide further refinement of the contamination locations. A soil boring map indicating the locations of the soil borings on the grid is shown in Exhibit D.

Soil borings were advanced using a truck-mounted direct-push drilling rig under the supervision of an Oklahoma-licensed monitoring well driller. Borings were advanced to equipment refusal, which occurred anywhere between 10 and 16 feet below ground surface (bgs), with the exception of borings along the east site boundary. Borings along the eastern perimeter experienced refusal at approximately 2 feet bgs, due to some unknown obstruction believed to be utility-related. Because of the obstruction, three (3) borings were advanced at an angle to obtain soil samples from beneath the obstruction (shown with arrows on the soil boring map).

Soil samples were collected continuously from the soil borings using a macro-sampler equipped with 5-foot plastic liners. Sampling equipment was decontaminated prior to commencement of the project and following the probing of each soil boring, or more frequently when conditions warranted, using a non-phosphate detergent and a potable water rinse. Rinse water was collected and placed in drums for subsequent disposal.

The lithology of the subsurface soils varied greatly at the site. However, the general lithology of the soil encountered consisted of the following:

- Fine grained sand to a depth of 2 to 7 feet bgs.
- Brown silty clay from 2 to 10 feet bgs.

- Orange and brown highly plastic clay from 4 to 8 feet bgs
- Dark brown weathered shale from 9 to 10 feet to the terminus of the borings.
- Saturation was encountered in only one boring (I5) at approximately 5 feet bgs.

All borings were found to be dry, with the exception of one location (I5) in the middle of the site. However, because saturation was not encountered in other soil borings, coupled with the different lithology of the boring, CES concluded the water encountered was a perched water and not representative of groundwater for the site. No saturation was encountered in borings that were located four feet from I5 in all compass directions.

The I5 lithology was shown to contain sand to a depth of approximately 7 feet bgs, while other borings generally contained sand only to the 1-2.feet bgs. It is unknown why the lithology of boring I5 was different, but CES speculates it may have resulted from sands located beneath the pads having washed into an earlier remediation excavation, or perhaps being purposely placed into an excavation following remediation.

Soil cuttings and other investigation-related materials (gloves, paper towels, etc) generated during the field activities were placed in a 55-gallon drum or placed directly in the previously mentioned roll-off containers. One (1) 55-gallon drum remains on-site for subsequent disposal with remediation materials.

#### 3.2 Soil and Groundwater Sampling

Soil sampling involved collecting approximately 6 inches of soil every 2-3 feet from each boring. Soil samples were placed into plastic baggies, sealed, and marked to indicate the sample grid location and depth of sample. Collected samples were immediately delivered to the field lab located inside the SFC administration building where select samples from field tested for the presence of PCBs. Samples chosen for initial field analysis were generally from each of four zones based on depth covering 0-3 ft, 3-6 ft, 6-9 ft, and 9 ft to auger refusal. Following field testing, the samples were placed in a cooler on ice for transport to a commercial lab.

A mild odor of chlorinated hydrocarbon was detected in a limited number of the borings, and was especially strong in one (I5) located near the center of the site. Those soils with odors were generally always included for field analysis, and some for follow-up commercial lab analysis. Soil samples for laboratory analysis were placed in sealed and packed (no head space) glass containers and placed on ice.

The saturation within boring I5 was only found at the 7 ft bgs level. Because of the strong odor coupled with the saturation, a sample of the groundwater was collected for analysis. Subsequent to advancement of the drilling probe, a 1" well screen was placed in boring I5 to allow for a water sample to be collected. A groundwater sample was collected with a disposable bailer and placed into laboratory prepared glassware and placed on ice.

#### 3.3 Sample Analysis

As previously mentioned, select soil samples were analyzed on-site during the investigation with PCB field test kits. The field test kits were obtained from Dexsil, a manufacturer of environmental field analysis kits. The PCB test kits convert covalently bonded chlorine on the PCB molecules to its ionic chloride form. An ion-specific electrode coupled with the *L2000DX Analyzer* then detects the total chloride levels and converts the results into total PCBs in parts per million (ppm).

Field testing of soil sample required acquisition of a 10 gram sample size. Composite laboratory samples were developed from the soil samples by using a clean spoon to scrap and/or dig small samples to manufacture a "representative" composite of the entire sample. It was reported by the commercial laboratory that a similar methods was used to acquire a laboratory sample also.

Select soil samples analyzed in the field were submitted to Outreach Laboratory in Broken Arrow, Oklahoma for analysis of PCBs (EPA Method 3550B/8082). The purpose of the laboratory analysis was to determine a correlation with the field sample analysis. In addition, some boring location samples were analyzed twice by both field analysis and the commercial laboratory to determine the repeatability of results. Most of the "second" analyses were performed at later dates than the first analysis to help resolve differences between field and laboratory results. All sample results from both the field analyses and the commercial laboratory are shown on the Boring Location Map attached as Exhibit D, as well as within the individual plume maps shown in Exhibit E.

As previously stated, a solvent-type odor was observed in some of the borings. Analysis for volatile organic compounds (VOCs) were requested on two (2) of the samples Exhibiting odor (I5-5 & K2-2).

Similarly to the previously discussed soil samples, the water sample collected from boring I5 was analyzed for PCBs, VOCs, and semi-volatile organic compounds (SVOCs) at the laboratory.

The executed chain-of-custody forms and laboratory reports for samples submitted to Outreach

Laboratories are provided as Exhibit G.

#### 3.4 Analytical Results

#### Soil - PCBs

As previously stated, the Boring Location Map attached as Exhibit D shows all field test and laboratory results for PCB analysis on soils. The concentrations are reported as parts per million (ppm) and have been rounded to the nearest hole number. With some exceptions, the correlation between the field test and laboratory results are fairly consistent. Some of the inconsistency is attributed to the analysis range of the field test kits being limited 2-2,000 ppm PCBs. This would explain why the higher laboratory test results have less correlation with the field test results. It should be noted that the cleanup goal for PCBs will be 50 ppm, and therefore any inaccuracy of the field test kits at the higher concentrations will be insignificant during the subsequent remediation phases. Variations between field and lab sample results at lower concentrations were apparently somewhat attributable to variation within a single sample, as was identified from multiple analyses of a single sample (See Exhibit D).

As previously stated, the regulatory limit set by the EPA for PCBs is 50 ppm. According to the sample results, the areas where soil concentrations exceed 50 ppm are located in the area between the former pads and have migrated towards the east site boundary. Exhibit E provides four (4) PCB Plume Location Maps for soils containing PCB concentrations of >50 ppm. A plume map is provided for each 3 foot interval bgs (i.e. 0-3 feet bgs, 3-6 feet bgs, 6-9 feet bgs, and 9 feet-auger refusal bgs).

#### Soil - Other Organics

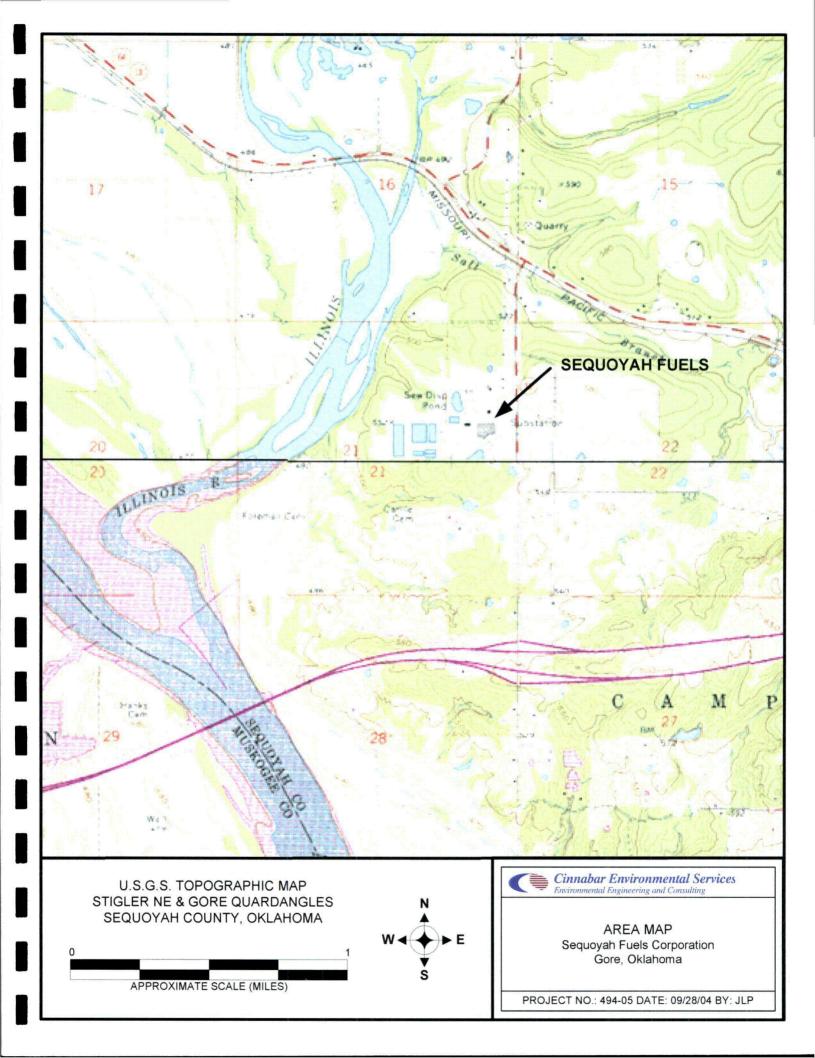
A scan for volatile and semi-volatile constituents was performed on two soil samples. Results indicated the presence of significant levels of 1,2,3- and 1,2,4-Trichlorobenzene. Soil sample I5-5 was found to contain 2,120 mg/kg of 1,2,4-Trichlorobenzene and 1,550 mg/kg of 1,2,3-Trichlorobenzene, while sample K2-2 was found to contain 67.4 mg/kg of 1,2,4-Trichlorobenzene and 65.6 mg/kg of 1,2,3-Trichlorobenzene. Trichlorobenzenes would be expected to be found at the site, as aroclors (PCBs) are normally blended with trichlorobenzenes to make the askarel that goes into transformers and rectifiers.

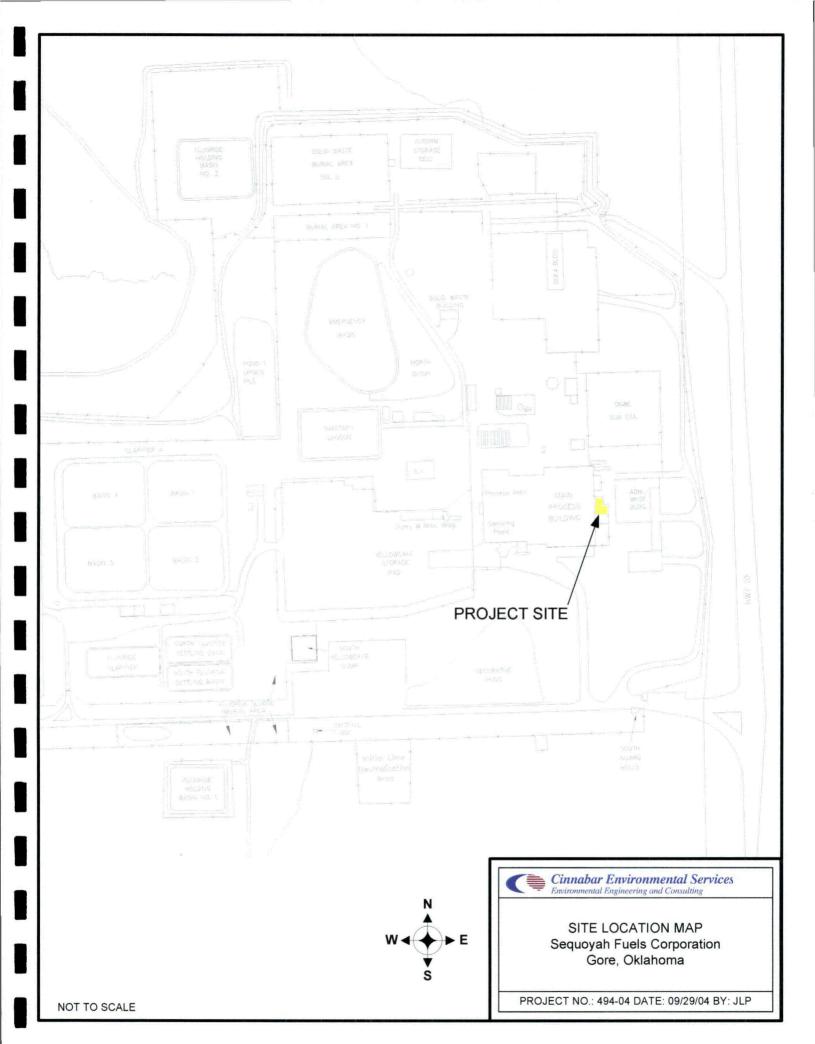
Low levels of methylene chloride were also found in the above described samples as well, with sample I5-5 containing 11.6 mg/kg, and sample K2-2 containing 29.2 mg/kg. Methylene chloride was identified in the facility as a historical industrial solvent used at the facility, and may have been

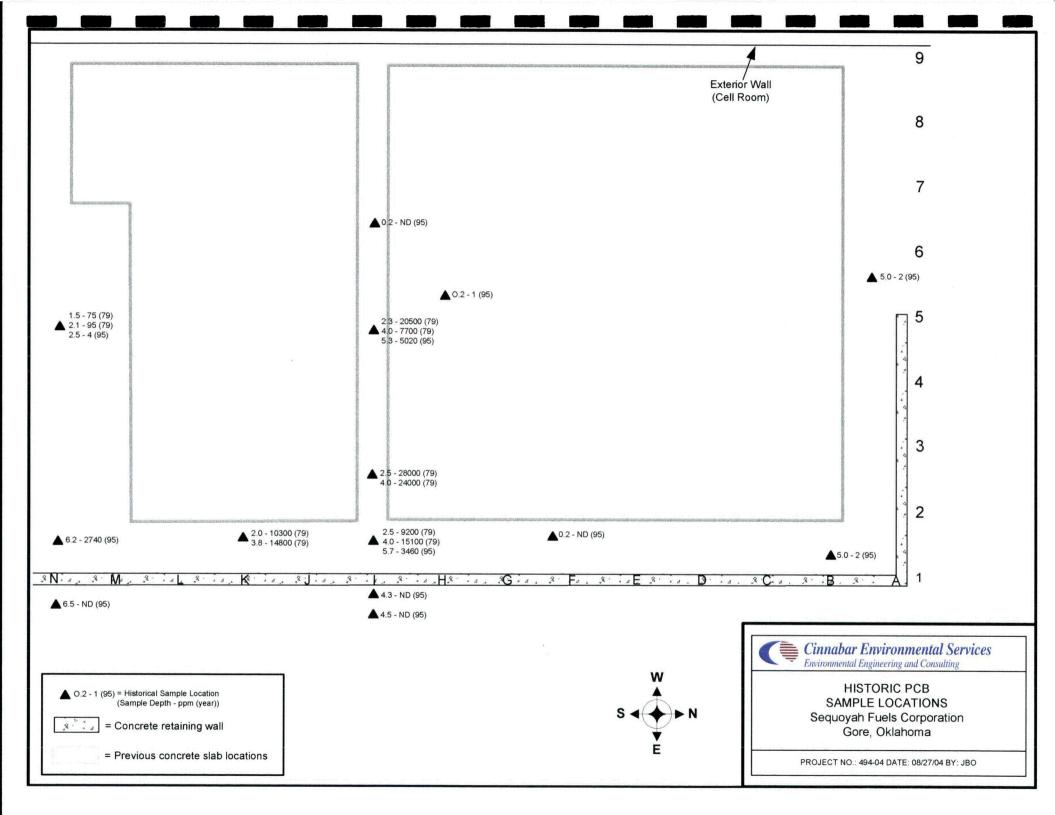
used to clean up equipment and/or concrete pads during any previous PCB remediation efforts by the previous facility owner. However, no records indicating use of methylene chloride for such cleanup have been identified.

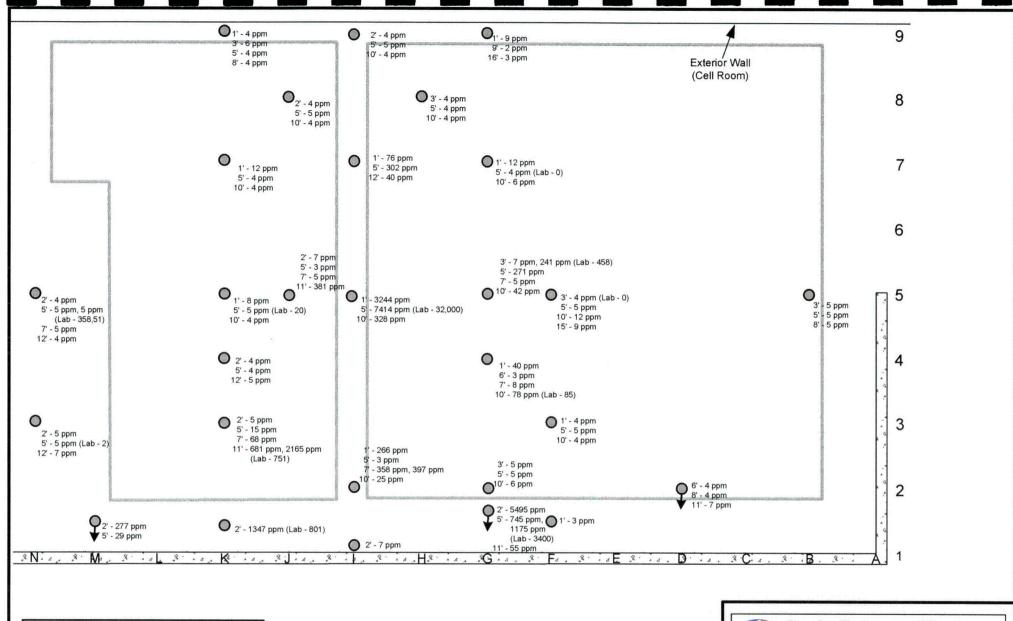
#### Perched Water - PCB and Other Organics

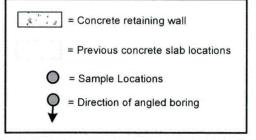
The saturation encountered in boring I5 was found to contain 6.9 and 9.4 mg/l of 1,2,3- and 1,2,4- Trichlorobenzene, respectively. In addition, the PCB levels were found to be 8.13 mg/l, not to be unexpected since it was in the area of highest PCB levels found in soil during the investigation.

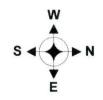


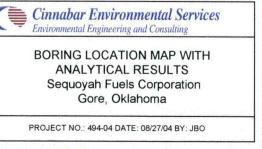


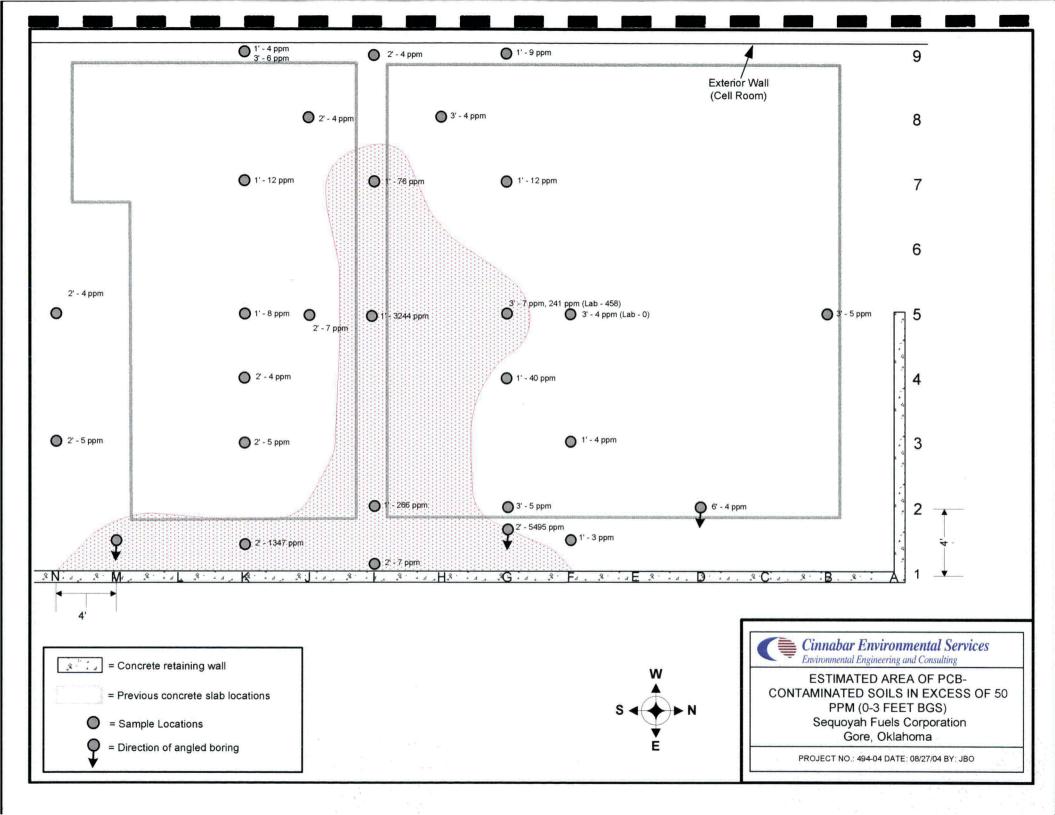


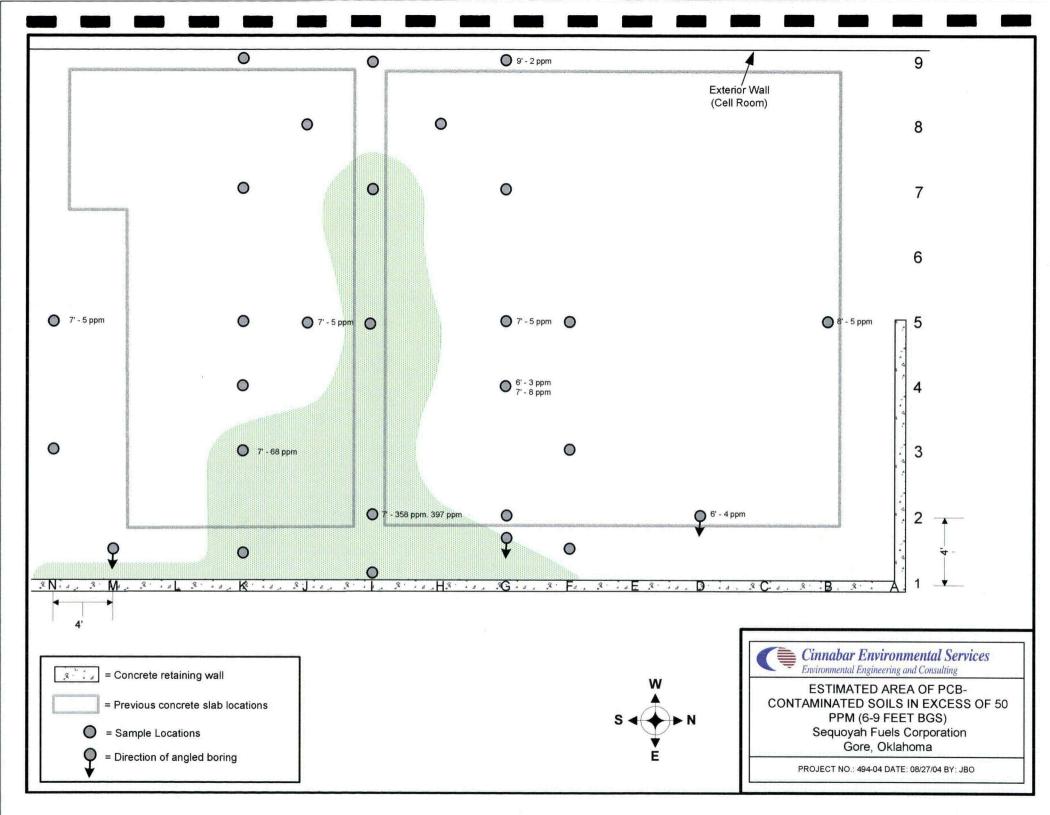


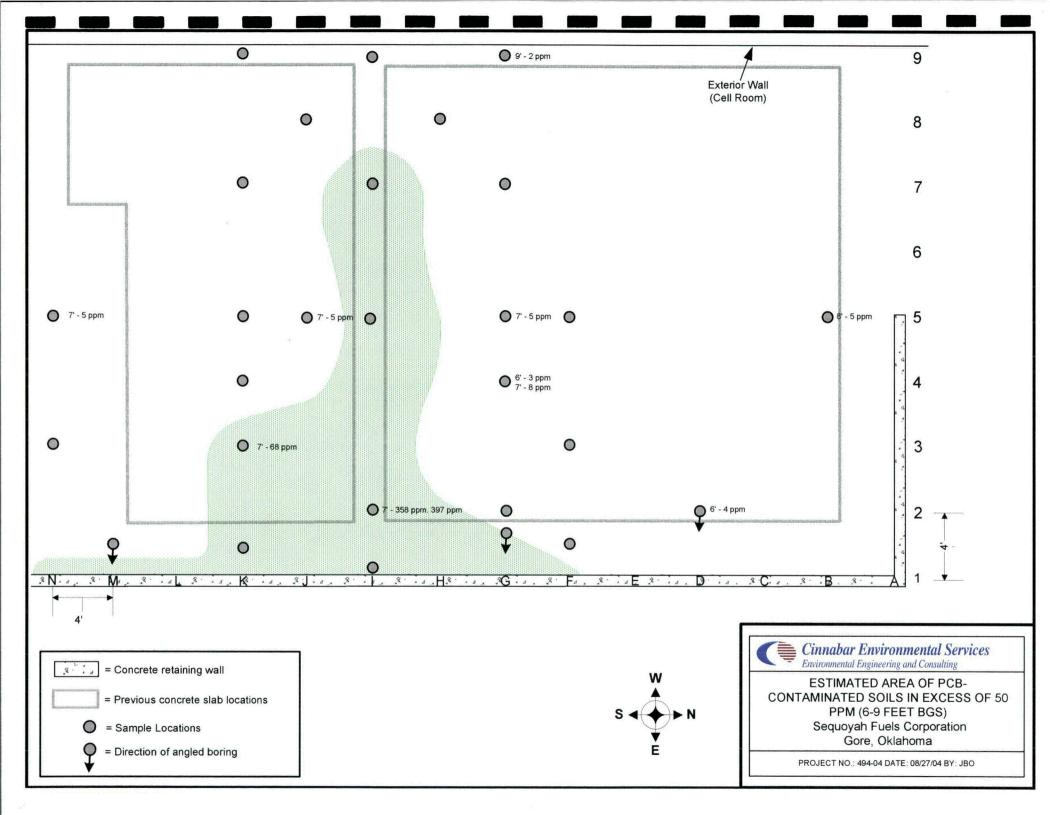


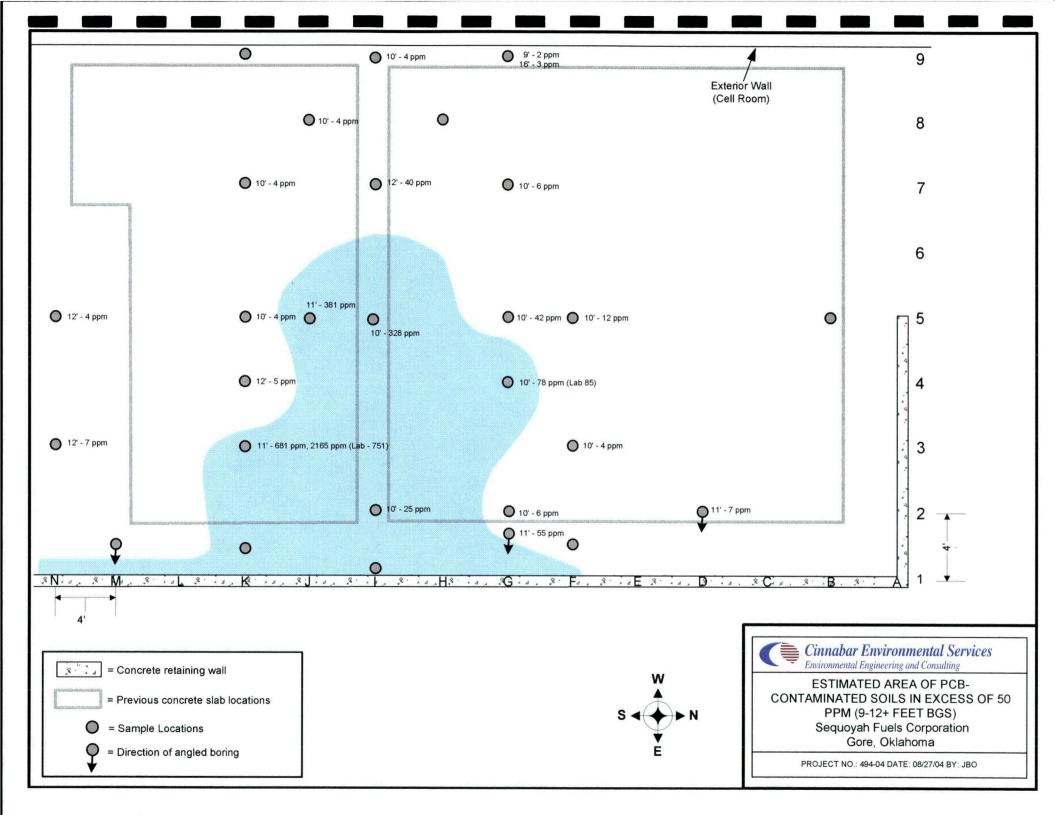






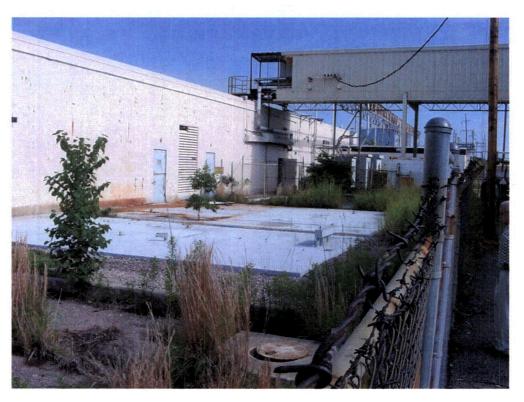








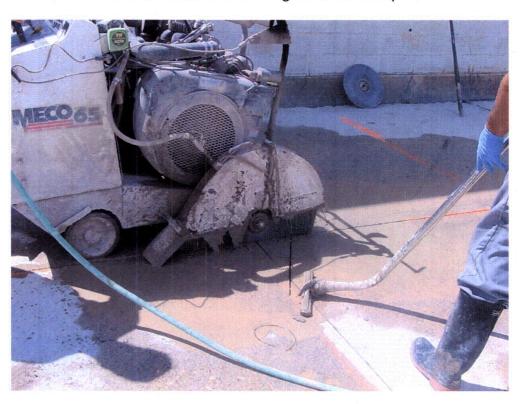
View of PCB Area with slabs looking west



View of PCB Area with slabs looking northwest



View of Scabbler removing concrete samples



View of concrete saw cutting slabs



View of concrete slabs being loaded into roll-off containers



View of PCB Area after slab removal



View of PCB Area during subsurface investigation



September 3, 2004

Scott Munson Sequoyah Fuels Corp. Hwy 10 & I-40 Gore, OK 74435

PROJECT: SF04-255

OUTREACH LAB ID: 20040608

Dear Mr. Munson:

Please find enclosed an analytical report for your samples received in our laboratory on August 26, 2004 for the above captioned project. The four samples were received in good condition and analyzed for PCBs, Volital Organics, and Uranium.

All QC is within limits.

Thank you for choosing Outreach Laboratory and if you have any questions feel free to call.

Laboratory Director

**ODEQ ID #9517** 

NRC ODEQ LIC. #2/7522-01

ON ACCORDANCE MITH

Cert ID# OK 001



Client: Client F Sequoyah Fuels Corp.

Client Project:

Lab Number:
Date Reported:

Date Received:

9/3/2004 8/26/04

Page Number:

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20040608

			Analytical K	shor r				
		Method	Result	Units	DL	Prep Date	Analysis Date	Analys
Lab ID:	2004060	08-01						
Client ID:	Misc/15	-5						
Date Sampled:	8/25/200	04 11:00:00 AM						
Matrix:	Soil							
		O	ganics Analyses					
Arocior 1260		EPA 3550B/8082	32000	mg/kg	800	8/27/2004	8/31/2004	RE
Bromomethane		EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Chloroethane		EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Chloromethane		EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Dichlorodifluoror	nethane	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Vinyl Chloride		EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
1,1-Dichloroether	ne	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Acetone		EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Methylene chloric	ie	EPA 8260B	11.6	mg/kg	232		9/1/2004	RE
cis-1,2-Dichloroe	thene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
l, l-Dichloroethan	)C	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
trans-1,2-Dichlore	oethene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
2-Butanone (ME)	<b>(</b> )	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Chloroform		EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Bromochlorometh	ane	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
1,1,1-Trichloroeth	iane	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Carbon tetrachlor	id <del>e</del>	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
1,2-Dichloroethar	10	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
1,2-Dichloroprop	anė	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Benzene		EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Trichloroethene		EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Bromodichlorome	ethane	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
4-Methyl-2-pentar (MIBK)	попе	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
cis 1,3-dichloropr	opene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Toluene		EPA 8260B		mg/kg	200		9/1/2004	RE
trans 1,3-dichloro	propene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
1,1,2-Trichloroeth		EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
2-Hexanone (MB	K)	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
1,3-Dichloropropa		EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Tetrachloroethene	•	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Dibromochlorome		EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
BDL = Below Deter	ction Limit							

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Client: Sequoyah Fuels Corp.
Client Project:
Lab Number: 20040608
Date Reported: 9/3/2004
Date Received: 8/26/04

### **Analytical Report**

	1						
	Method	Result	Units	DL	Prep Date	Analysis Date	Analyst
Dibromomethane	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Chlorobenzene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
,1,1,2-Tetrachloroethane	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Ethylbenze <b>ne</b>	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Kylenes (M,P)	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Kylenes (O)	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Total Xylenes	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Styrene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Bromoform	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
,2,3-Trichloropropane	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
,1,2,2-Tetrachloroethane	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
,3-Dichlorobenzene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
,4-Dichlorobenzene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
,2-Dichlorobenzene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Trichlorofluoromethane	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Acrylonitrile	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
2,2-Dichloropropane	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
,1-Dichloropropene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
sopropylbenzene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
n-Propylbenzene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Bromobenzene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
,3,5-Trimethylbenzene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
2-Chlorotoluene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
l-Chlorotoluene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
ert-Butylbenzene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
1,2,4-Trimethylbenzene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
ec-Butylbenzene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
sopropyltoluene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
-Butylbenzene	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
1,2,4-Trichlorobenzene	EPA 8260B	2120	mg/kg	200		9/1/2004	RE
1,2,3-Trichlorobenzene	EPA 8260B	1550	mg/kg	200		9/1/2004	RE

Lab ID:

20040608-02 Misc/G4-10

Client ID: Date Sampled:

8/25/2004 11:30:00 PM

Matrix:

Soil

Organics Analyses

BDL = Below Detection Limit

BDL = Below Detection Limit

Page Number:

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Client: Sequoyah Fuels Corp.
Client Project:
Lab Number: 20040608
Date Reported: 9/3/2004
Date Received: 8/26/04

•		Analy ucai ix	horr				
	Method	Result	Units	DL	Prep Date	Analysis Date	Analys
Aroclor 1260	EPA 3550B/8082	86.4	mg/kg	40.00	8/27/2004	9/1/2004	RE
Lab ID: 2004060							
Client ID: Misc/K							
•	04 11:50:00 AM						
Matrix: Soil							
	l l	Radiochemical Analyses					
Jranium	ASTM D 5174M		ug/g	0.098	8/30/2004	9/1/2004	MD
		Organics Analyses					
Aroclor 1260	EPA 3550B/80\$2		mg/kg	40.0	8/27/2004	9/1/2004	RE
Bromomethane	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Chloroethane	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Chloromethane	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Dichlorodifluoromethane	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Vinyl Chloride	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
l,1-Dichloroethene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Acetone	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Methylene chloride	EPA 8260B	29.2	mg/kg	20		9/1/2004	RE
is-1,2-Dichloroethene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
1,1-Dichloroethane	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
rans-1,2-Dichloroethene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
2-Butanone (MEK)	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
Chloroform	EPA 8260B	BDL	mg/kg	20		9/1/2004	R.E
Bromochloromethane	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
l,l,l-Trichloroethane	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Carbon tetrachloride	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
1,2-Dichloroethane	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
1,2-Dichloropropane	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Benzene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Frichloroethene	EPA 8260B			20		9/1/2004	RE
Bromodichloromethane	EPA 8260B		mg/kg	20		9/1/2004	RE
1-Methyl-2-pentanone (MIBK)	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
cis 1,3-dichloropropene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
<b>Foluene</b>	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
rans 1,3-dichloropropene	EPA 8260B		mg/kg	20		9/1/2004	RE
1,1,2-Trichloroethane	EPA 8260B	זמם	mg/kg	20		9/1/2004	RE



Client:
Client Project:
Lab Number:
Date Reported:
Date Received:
Page Number:

Sequoyah Fuels Corp.

20040608

9/3/2004

8/26/04

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	į	Analytical Re	eport				
	Method	Result	Units	DL	Prep Døte	Analysis Date	Analyst
2-Hexanone (MBK)	EPA 8260B	BDL	mg/kg	200		9/1/2004	RE
1,3-Dichloropropane	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Tetrachloroethene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Dibromochloromethane	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Dibromomethane	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Chlorobenzene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
1,1,1,2-Tetrachloroethane	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Ethylbenzene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Xylenes (M,P)	EPA 8260B	BDL	mg/kg	40		9/1/2004	RE
Xylenes (O)	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Total Xylenes	EPA 8260B	BDL	mg/kg	60		9/1/2004	RE
Styrene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Bromoform	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
1,2,3-Trichloropropane	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
1,1,2,2-Tetrachloroethane	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
1,3-Dichlorobenzene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
1,4-Dichlorobenzene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
1,2-Dichlorobenzene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Trichlorofluoromethane	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Acrylonitrile	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
2,2-Dichloropropane	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
1,1-Dichloropropene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Isopropylbenzene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
n-Propylbenzene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Bromobenzene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
1,3,5-Trimethylbenzene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
2-Chlorotoluene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
4-Chlorotoluene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
tert-Butylbenzene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
1,2,4-Trimethylbenzene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RÉ
sec-Butylbenzene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
Isopropyltoluene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
n-Butylbenzene	EPA 8260B	BDL	mg/kg	20		9/1/2004	RE
1,2,4-Trichlorobenzene	EPA 8260B	67.4	mg/kg	20		9/1/2004	RE
1,2,3-Trichlorobenzene	EPA 8260B	65.6	mg/kg	20		9/1/2004	RE



Laboratory

311 North Aspen Broken Arrow, OK 74012 (918) 251-2515 FAX (918) 251-0008

Client:

Sequoyah Fuels Corp.

Client Project:

Lab Number:

Date Reported:

Date Received:

9/3/2004

Page Number:

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20040608

# **Analytical Report**

Method

Result Units

DL

Prep Date Analysis Analyst Date

Lab ID:

20040608-04

Client ID:

Misc/K5-5

Date Sampled: Matrix:

8/25/2004 2:30:00 PM

Organics Analyses

Aroclor 1260

EPA 3550B/8082

20 mg/kg

4.00

8/27/2004

9/1/2004

ŔE

		QC I	Report	•				
Blank	LCS	LC	SD	DUP	MS	MS	SD	Date
	%REC	%REC	RPD	RPD	%REC	%REC	RPD	
BDL	120.0				NC	NĊ		8/31/2004
BDL	91.8				54.0	54.8	1.5	8/27/2004
BDL	101.0				90.0	97.6	8.1	8/27/2004
BDL	93.9				79.2	76.4	3.6	8/27/2004
BDL	103.0				68.0	65.4	3.9	8/27/2004
BDL	107.9	108.2	0.3		103.2	96.9	6.3	9/1/2004
	BDL BDL BDL BDL BDL	BDL 120.0 BDL 91.8 BDL 101.0 BDL 93.9 BDL 103.0	Blank LCS LCS %REC %REC  BDL 120.0  BDL 91.8  BDL 101.0  BDL 93.9  BDL 103.0	Blank LCS LCSD %REC %REC RPD  BDL 120.0 BDL 91.8 BDL 101.0 BDL 93.9 BDL 103.0	#REC %REC RPD RPD  BDL 120.0  BDL 91.8  BDL 101.0  BDL 93.9  BDL 103.0	Blank         LCS         LCSD         DUP RPD         MS %REC           BDL         120.0         NC         NC           BDL         91.8         54.0           BDL         101.0         90.0           BDL         93.9         79.2           BDL         103.0         68.0	Blank         LCS         LCSD         DUP RPD         MS WREC         MS WREC	Blank         LCS %REC         LCSD RPD         DUP RPD         MS MSD %REC         MSD %REC         RPD           BDL         120.0         NC         NC         NC           BDL         91.8         54.0         54.8         1.5           BDL         101.0         90.0         97.6         8.1           BDL         93.9         79.2         76.4         3.6           BDL         103.0         68.0         65.4         3.9

Lab Approval:

BDL = Below Detection Limit



311 North Aspen Broken Arrow, OK 74012

Phone: (918) 251-2515 (918) 251-0008 Fax:

REQUESTED TURNAROUND TIME (ADDITIONAL CHARGES MAY APPLY)

SAMONE DETURNACIONSAL: AL CONTRACTOR SHERP CONTRACTOR AND ALCOHOLOGICAL SHERP CONTRACTOR AND ALCOHOLOGICA SHERP CONTRACTOR AND ALCOHO

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PO# PROJECT # PROJECT NAME

SAMPLER

# CHAIN OF CHETODY

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	LABORA	HURY	Į			Name_							Co	mpany	у			
I1 North A	\enen					Address	<u> </u>						Na	me			· · · · · · · · · · · · · · · · · · ·	
roken Arro	ow, OK 74012					City	S	itate		Zip			Ad	dress_				
	918) 251-2515 918) 251-0008		)			Phone			Fax#				Cft	y		State_	Zip	
ax: (	916) 251-0006								SIS			TEN	_/_					
				_				ACI					//			ı		
PO#					č	SIZE	PRESERVATIVE			_		İ	20					
ROJECT#					O N	ļ	1. HMO3 pH<2 2. tce <4°C			()	12		78	۱ د				
PROJECT N		<del></del>			T A	PLASTIC	3. HCI pH-2 4. H2S/04 pH-2 5. NB/0H pH-11			\$	19	2	3					
REQUESTE: ADDITIONAL	D TURNAROUND TIME CHARGES MAY APPLY)		<u> </u>		N	GLASS	a. neomprom	3	S	714	3	- B	13					
SAMPLER_	thin The	Da -	<del></del>		E			1	$\circ$	ran	$\ell_{\Sigma}$	1	R				REMARKS	
	Signature	7	11:0	٥	\$			2	V	77	1	B	7				FILTERED, UNFILTER	
LAS SIMPLE	CLENT SAMPLE ID	DATE SJUMPLEB	THE SHAPLES	MATRIX													GRAB, COMPOSITE)	
	MIX/15-5	8-250	, SUPE	Sosi	1	GASS	2	X	X									
3	10ce/G-4-10	\$-25-04	11:30	SotL	1	645S	2	X									·	
3	Mass/k2-2	8-25-04	11:50	SOIL	1	6445	2	X	X	X				1				
<u>I</u>	MIG /K5-5	5,25-01	コル	<del></del>	1	GAN	2	X										
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RELINQUIS	HED BY: 100	DATE	7-7-7	11℃ <u>87°0€</u>	_HEUE	IAFO BA:	<i>J. 1. 5</i>		_UAIE	<u> 11</u>	CIME I	_					1	
RELINQUIS	HED BY:	DATE				IVED BY:	·		DATE		TIME		Sample	Conditi	ion Upon	Receipt	000	
My signature o	in this chain of custody form indicat	at any balance can	ried over Shirty (*	101 days is sid	biacl to	a 1.5% per mo	NIN (18% per annum	i) late char	ge. 10 die e	iveill of de	iaun, me c		Custod	y Seals	intact (	D N_ 0		
becomes legal	ly liable for any reasonable attorney	and/or collection 1	ees and all relat	ed costs nece	ssary to	remil the entir	e balance to Outrea	ch Technol	ogies, Inc.	(Outreach	Laboraton	g.	Cooler		•	12°C	San and American	



September 17, 2004

Tom Blachly Cinnabar Environmental Services 5121 S Wheeling Tulsa, OK 74105

PROJECT: SF04-231

OUTREACH LAB ID: 20040645

Dear Mr. Blachly,

Please find enclosed the analytical report for your samples received in our laboratory on September 10, 2004 for the above captioned project. Four soil samples were received in good condition and analyzed for PCB's.

All QC is within control limits. The samples will be disposed of after 30 days unless notified otherwise.

Thank you for choosing Outreach Laboratory. If you have any questions please call us at 918-251-2515.

Laboratory Director

ODEQ ID #9517

NRC ODEQ LIC. #27522-01

CERT. ID #OK001



Client:
Client Project:
Lab Number:
Date Reported:
Date Received:
Page Number:

Sequoyah Fuels Corp. SF04-231 20040645 9/17/2004 9/10/04 1 of 2

	Method	Result	Units	DL	Prep Date	Analysis Date	Analyst	
Lab ID:	20040645-01							
Client ID:	Misc/N5-5R			•				
Date Sampled:	8/26/2004 12:00:00 PM							
Matrix:	Solid							
		Organics Analyses						
Aroclor 1260	EPA 3550B/8082	51.3	mg/kg	9.79	9/14/2004	9/16/2004	RE	
Lab ID:	20040645-02							
Client ID:	Misc/N3-5							
Date Sampled:	8/26/2004 12:00:00 PM							
Matrix:	Solid							
		Organics Analyses						
Aroclor 1260	EPA 3550B/8082	1.83	mg/kg	0.1	9/14/2004	9/15/2004	RE	
Lab ID:	20040645-03							
Client ID:	Misc/F5-3							
Date Sampled:	8/26/2004 12:00:00 PM							
Matrix:	Solid							
		Organics Analyses						
Aroclor 1260	EPA 3550B/8082	0.29	mg/kg	0.09	9/14/2004	9/15/2004	RE	
Lab ID:	20040645-04							
Client ID:	Misc/G7-5							
Date Sampled:	8/26/2004 12:00:00 PM							
Matrix:	Solid							
		Organics Analyses						
Aroclor 1260	EPA 3550B/8082	0.38	mg/kg	0.1	9/14/2004	9/16/2004	RE	



311 North Aspen Broken Arrow, OK 74012 (918) 251-2515 FAX (918) 251-0008 Client:
Client Project:
Lab Number:
Date Reported:
Date Received:
Page Number:

Sequoyah Fuels Corp. SF04-231 20040645 9/17/2004 9/10/04 2 of 2

			QC I	Report	•				
Parameter	Blank	LCS	LC	SD	DUP	MS	MS	SD	Date
		%REC	%REC	RPD	RPD	%REC	%REC	RPD	
Aroclor 1260	BDL	112.0				DO	DO	5.1	9/16/2004

Lab Approval:

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Cinnabar Environmental Services  Environmental Engineering and Consulting	REPORTING LABORATORY		CLIENT/PROJE	CT NAME:			
5121 S. Wheeling	DATE: September 10, 2	September 10, 2004					
Tulsa, OK 74105	NAME: Outreach		Sequuoyah F				
918/742-0082	ADDRESS:		PROJECT NUM				
918/742-0097(fax)	CONTACT:	PHONE:	PROJECT LOCA	ATION:			
			ANALYSIS REQUESTED				
SAMPLERS NAME (PRINT): Chris Thompson							
SAMPLERS AFFILIATION: Cinnabar Environment	l Services						
PRIME NO. & FIELD LAB ID SIZE OF IDENTIFICATION / DATE NO. BOTTLE SAMPLE NO.	TIME SAMPLE TYPE (LIQUID, SLUDGE, ETC			CONDITION UPON RECEIPT			
4 oz. Misc/N5-5R 8/26/0	12:00 Soil	х					
4 oz. Misc/N3-5 8/26/0	12:00 Soil	x					
4 oz. Misc/F5-3 8/25/0	12:00 Soil	x					
4 oz. Misc/G7-5 8/25/0-	12:00 Soil	x					
COC SEAL DATE: RELINO	. A XI '	TE/TIME:		E/TIME: DATA RESULTS TO: FAX: 918-742-0082			
	IISHED BY: (SIGN) DA	NTE/TIME:	RECEIVED BY: (SIGN) DATE	E/TIME:			
BILL TO:				91			

2004 0645

Page Number:



Client:
Client Project:
Lab Number:
Date Reported:
Date Received:

Sequoyah Fuels Corp. \$F04-258 20040615 9/7/2004 8/27/04 1 of 2

	İ	Anaiyt		_				
	Method		Result	Units	DL	Prep Date	Analysis Date	Analyst
Lab ID:	20040615-01							
Client ID:	Misc/G2B-5							
Date Sampled:	8/26/2004 1:50:00 PM							
Matrix:	Soil							
		Organics Ar	nalyses					
Aroclor 1260	EPA 3550B/8082	!	3400	mg/kg	80.0	8/27/2004	9/2/2004	RE
Lab ID:	20040615-02							
Client ID:	Misc/K3-11							
Date Sampled:	8/26/2004 11:15:00 AM							
Matrix:	Soil							
	•	tadiochemical	-					
Uranium	ASTM D 5174M			ug/g	0.095	8/30/2004	9/1/2004	MD
Aroclor 1260	EPA 3550B/8082	Organics Ar	•		40.0	0/22/2004	0/2/2004	D.F.
A10C101 1200	Era 3330B/80B2	i ·	751	mg/kg	40.0	8/27/2004	9/2/2004	RE
Lab ID:	20040615-03							
Client ID:	Misc/G5-3							
Date Sampled:	8/26/2004 10;20:00 AM							
Matrix:	Soil							
	R	Radiochemical	Analyses	1				
Uranium	ASTM D 5174M		_	ug/g	0.097	8/30/2004	9/1/2004	MD
		Organics Ar	ialyses				•	
Aroclor 1260	EPA 3550B/8082		458	mg/kg	40.0	8/27/2004	9/2/2004	RE
Lab ID:	20040615-04							
Client ID:	Misc/N5-5							
Date Sampled: Matrix:	8/26/2004 2:30:00 PM Soil							
		Organics Ar	1alvses					

Outreach Laboratory

311 North Aspen Broken Arrow, OK 74012 (918) 251-2515 FAX (918) 251-0008 Lab Number:

Date Reported:

Date Received:

Page Number:

**ZVV4VV1** 

9/7/2004

8/27/04

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QC	Report
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Parameter	Blank	LCS	LCSD		DUP	MS	MSD		Date
		%REC	%REC	RPD	RPD	%REC	%REC	RPD	
Aroclor 1260	BDL	120.0				NC	NC		8/31/2004
Uranium	BDL	107.9	108.2	0.3		103.2	96.9	6.3	9/1/2004

Lab Approval:

M

BDL - Below Detection Limit

Client:



Client Project:

Lub Number:

Date Reported:

Date Received:

OK 74012

Page Number:

Sequoyah Fuels Corp. SF04-0230 20040365 8/11/2004 8/6/04 1 of 1

### **Analytical Report**

	Method	Result	Units	DL	Prop Date	Analysis Date	Analyst
Lab ID:	20040565-01						
Client iD:	lat Pass						
Date Sampled:	8/5/2004 10:28:00 AM						
Matrix:	Soll						
		Radiochemical Analyses	5				D)
Uranium	ASTM D 5174)	M 282	ug/g	0.100	8/6/2004	8/10/2004	MD
		Organics Analyses					
Arostor 1016	EPA 3550B/80	BDL BDL	mg/kg	0.04	8/6/2004	8/9/2004	RE
Aroclor 1221	EPA 3550B/80	BDL BDL	mg/kg	0.04	8/6/2004	8/9/2004	RE
Aroclor 1232	EPA 3550B/80	BDL BDL	mg/kg	0.04	8/6/2004	8/9/2004	RE
Aroclor 1242	EPA 3550B/80	BDL BDL	mg/kg	0.04	8/6/2004	8/9/2004	RE
Arocior 1248	EPA 3550B/80	BDL BDL	mg/kg	0.04	8/6/2004	8/9/2004	RE
Aroctor 1254	EPA 3550B/80			0.04	8/6/2004	8/9/2004	RE
Aroclor 1260	EPA 3550B/80	<b>82</b> 45.8	mg/kg	0.04	8/6/2004	8/9/2004	RE

			Report						
Parameter	Blank	LCS	LC	SD	DUP	MS	MS	ED .	Date
		%REC	%REC	RFD	RPD	%rec	%REC	RPD	
Aroclor 1254	BDL	66.0				NC	NC		8/9/2004
Urenium	0.119	104.0	101 0	3.6	8.2	97.5	96.6	09	8/10/2004

Lab Approval:

BDL - Below Detection Limit



Client: Client Project: Lab Number: Date Reported: Date Received: Page Number:

Sequeyah Fuels Corp. SF04-20040568 8/11/2004 8/6/04 1 of 2

#### Analytical Report

		/Ana	iyacıı Ke	port				
	Method		Result	Units	DL.	Prep Date	Anniysis Date	Analysi
Lab ID:	20040368-01							-
Client ID:	Misc #2						•	
Date Sampled:	8/6/2004 9:45:00 AM							
Matrix:	Sail							
		Radiochen	ical Analyse					
Urenium	ASTM D 517	<b>I</b> M	<del>6</del> ,50	ug/g	0.095	8/6/2004	8/10/2004	MD
		Organic	a Analyses					
Aroclar 1016	EPA 3550B/	082	BDL	mg/kg	0,04	8/6/2004	8/9/2004	RE
Aroclar 1221	EPA 3550B/8	082	BDL	mg/kg	0.04	8/6/2004	8/9/2004	RE
Aroclor 1232	EPA 3550B/8	082	BDL	mg/kg	0.04	8/6/2004	8/9/2004	RE
Aroclor 1242	EPA 3550B/	1	BDL		0.04	8/6/2004	8/9/2004	RE
Aroclor 1248	EPA 3550B/	082	BDL	mg/kg	0.04	1/6/2004	8/9/2004	RE
Aroclor 1254	EPA 3550B/8	082	BDL	mg/kg	0.04	8/6/2004	8/9/2004	RE
Aroclor 1260	EPA 3550B/8	082	107	mg/kg	0.04	8/6/2004	8/9/2004	RE
Lab ID:	20040568-02							
Client (D:	Mise #3							
Date Sampled:	8/6/2004 10:25:00 AM							•
Matrix:	Soil							
		Radiocheu	ical Analyse	5				
<b>Uranium</b>	ASTM D 517		•	ug/g	0.091	8/6/2004	8/10/2004	MD
		Organic	s Analyses	-00	-,4,,		0/10/2004	MIL
Aroclor 1016	EPA 3550B/	_	BDL	mg/kg	0.04	8/6/2004	8/9/2004	RE
Aroclor (22)	EPA 3550B/	1082	BDL		0.04	\$/6/2004		
Aroclar 1232	EPA 3550B/8	<del>-</del>	BDL		0.04		8/9/2004	RE
Aroclor 1242	EPA 3550B/8		BDL		0.04	8/6/2004	8/9/2004	RE
Aroclor 1248	EPA 3550B/B		BDL		0.04	8/6/2004	8/9/2004	RE
Aroclor 1254	EPA 3550B/B			mg/kg		8/6/2004	8/9/2004	RE
Aroclor 1260	EPA 3550B/8	· · · <del></del>		ns\ka ma∖ka	0.04 0.04	8/6/2004 8/6/2004	8/9/2004 8/9/2004	re Re
Lab JD:	20040568-03						,	
Client ID:	Minc #4							
Date Sampled:	8/6/2004 10:30:00 AM							
Matrixi	Soil						•	
Uranium	ACT ( )	Radiochem	ical Analyses					
\1-(:WIII	ASTM D 517	•	56.7	ug/g	0.092	8/6/2004	8/10/2004	MD
	ł	Organic	Analyses					
BDL - Below Detec	tion Limit							



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Client: Client Project: Lab Number: Date Reported; Date Received: Page Number:

Sequoyah Fueis Corp. SF04-20040568 8/11/2004 8/6/04

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## **Analytical Report**

	Method	Result	Units	DL	Prep Date	Analysis Dats	Analys
Aroclor 1016	EPA 3550B/8082	BDI.	mg/kg	0.04	8/6/2004	8/9/2004	RE
Aroclor 1221	EPA 3550B/8082	BDL	mg/kg	0.04	8/6/2004	8/9/2004	RE
Arpelor 1232	EPA 3550B/8082	BDL	mg/kg	0.04	8/6/2004	8/9/2004	RE
Aroclor 1242	EPA 3550B/8082	BDL	mg/kg	0.04	8/6/2004	8/9/2004	RE
Aroclor 1248	EPA 3550B/8082	BDL	mg/kg	0.04	8/6/2004	8/9/2004	RE
Aroclor 1254	EPA 3550B/5082	BDL	mg/kg	0.04	8/6/2004	8/9/2004	RE
Aroclar 1260	EPA 3550B/8082	491	mg/kg	0.04	8/6/2004	8/9/2004	RE

			QCI	Report					
Parameter	Blank	LCS	ıc	2D	DUP	MS	MS	SD.	Date
		%REC	WREC	RPD	RM	%rec	%rec	RPD	
Arocler 1254	BDL	66.0				NC	NC		8/9/2004
Uranium	0,119	104 0	101 0	3.6	8.2	97.5	96.6	0.9	8/10/2004

Lab Approval:

BDL = Below Detection Limit



Client: Sequoyah Fuels Corp.
Client Project: SF04-231
Lab Number: 20040645
Date Reported: 9/17/2004
Date Received: 9/10/04
Page Number: 1 of 2

## **Analytical Report**

		Allai	Ancai We	shor r				
	Method		Result	Units	DL	Prep Date	Analysis Date	Analyst
Lab ID:	20040645-01							
Client 1D;	Misc/N5-5R	ĺ						
Date Sampled:	8/26/2004 12:00:00 PM	i i						
Matrix:	Solid		_					
Aroclor 1260	PD 4 3550D (0)	Organics	_		0.50	0444004	- /- / /0.00 /	- 5
Afocior 1200	EPA 3550B/80	982	51.3	mg/kg	9.79	9/14/2004	9/16/2004	RE
Lab ID:	20040645-02	}						
Client ID:	Misc/N3-5							
Date Sampled:	8/26/2004 12:00:00 PM							
Matrix:	Solid							
	ļ	Organics	Analyses					
Aroclor 1260	EPA 3550B/8	082	1.83	mg/kg	0.1	9/14/2004	9/15/2004	RE
Lab ID:	20040645-03							
Client ID:	Misc/F5-3							
Date Sampled:	8/26/2004 12:00:00 PM							
Matrix:	Solid							
		Organics	Analyses					
Aroclor 1260	EPA 3550B/8	082	0.29	mg/kg	0.09	9/14/2004	9/15/2004	RE
Lab ID:	20040645-04					s.		
Client ID:	Misc/G7-5							
Date Sampled:	8/26/2004 12:00:00 PM							
Matrix:	Solid							
		Organics	•					
Aroclor 1260	EPA 3550B/8	082	0.38	mg/kg	0.1	9/14/2004	9/16/2004	RE



Outreach Laboratory

311 North Aspen Broken Arrow, OK 74012 (918) 251-2515 FAX (918) 251-0008

Client: Client Project: Sequoyah Fuels Corp.

SF04-231

20040645

9/17/2004

9/10/04

Date Received:

Date Reported:

Lab Number:

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Page Number:

2 of 2

			QC R	eport						
Parameter	Blank	LCS	LCSI	D	DUP	MS	MS	D	Date	
		%REC	%REC_	RPD	RPD	%REC	%REC	RPD		
Aroclor 1260	BDL	112.0				DO	DO	5.1	9/16/2004	_

Lab Approval:

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

	Cinnabar E	invironmental Services pincering and Consuling		REPORTIN	G LABORATORY:							CL	IENT.	PROJ	ECT	NAME:			
	Wheeling	Environalis com Courtestus		DATE:	September 10, 2	004													
	K 74105			NAME:	Outreach							Se	quu	oyah	Fue	els			
918/742			,	ADDRESS:								PROJECT NUMBER: SF040231 .							
918/742	-0097(fax)			CONTACT:	XONTACT: PHONE:						PROJECT LOCATION:								
		PRINT): Chris Thompso								A	NALY:	SIS REC	UEST	ED.			T		
SAMPLE	RS AFFILIA	TION: Cinnabar Envi	ronmental .	Services		}		ŀ		1			j	1			ı		
PRIME LAB ID NO.	NO. & SIZE OF BOTTLE	FIELD IDENTIFICATION / SAMPLE NO.	DATE	TIME	SAMPLE TYPE (LIQUID, SLUDGE, ETC.	PCB													CONDITION UPON RECEIPT
	4 oz.	Misc/N5-5R	8/26/04	12:00	Soil	х		$\Box$											
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	4 oz.	Misc/F5-3	8/25/04	12:00	Soil	X				↓			$oldsymbol{ol}}}}}}}}}}}}}}}}}$						
	4 oz.	Misc/G7-5	8/25/04	12:00	Soil	X		-	+-	-		-	+	-				-	
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CARRIER		6	RELINQUIS	HED BY: (Si	<del></del>				Rg	EEIV	ED BY	: (SIGN	}	DAT		<u>——</u>	+		TWR

les	se print or type. (Form designed for use on elite (12-pitch) typewriter.)	KF	2374	18			orm Approved, OM	18 No. 2050-0039, Expires 8-90-96
4	UNIFORM HAZARDOUS WASTE MANIFEST  1. Generator's to the control of	<b>.</b> .	_		est ment No. .0.0.1	2. Pa		ition in the shaded areas
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	60. 501 6. 4. Generator's Phone (116 ) 189 5511	10	<i>y</i> •••••			8. Sta	te Generator's	
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П	7. Transporter 2 Company Name	8.	US EPA I			E. Sta	ité Transporter	SID THE STATE OF T
	9. Designated Facility Name and Site Address	10.	US EPA I	D Numbe	<u> </u>		neparters Photeste Facility's ID	16 AND THE STREET STREET
	9. Designated Facility Name and Site Address  CLEAN HACBORS FRM, LLC						<b>Zury Price</b>	
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	11. US DOT Description (Including Proper Shipping Name, Ha	azard Clas	and ID Nu	mber)	12. Conta	iners Type	13. Total	Unit Waste No.
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	d.							
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	15. Special Handling Instructions and Additional Information		•		775/	,		
		180	esurc	ر لا ال	doch	•		
	ADW#TL885 LOO# 1274	194	onment are h	fly and acc	urately descr	ibed abo	ve by	
	proper shipping name and are classified, packed, marked, and labels according to applicable international and national government regula	ed, and are #	ali respects	m proper co	andition for tr	ansport t	y highway	
	If I am a large quantity generator, I certify that I have a program economically practicable and that I have selected the practicable	le method of	ोट्डोफला, इ	torage, or	disposal cur	rently av	ailable to me whi	ch minimizes the present and
	luture threat to human health and the environment; OR, if I am the best waste management method that is available to me and hai		-		hade a good	faith eff	be minimize m	
¥	Printed/Typed Name Craix Harlin		Signature	Cla	ig/	. 7	all	Month Day Year   1018 1214 1014
TR	17. Transporter 1 Acknowledgement of Receipt of Material	ls	10:			_/		Atany 5 Mars
<b>₹</b> 29₽0	Printed/Typed Name		Signature	Sen	0	5	6	Month Day Year
OR T	18. Transporter 2 Acknowledgemen of Receipt of Materia		Signature					Month Day Year
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		UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US OKDO5	EPA 10 No.	Manife Docur J & J D,O	est ment No.	2. Page 1		ation in the shaded areas equired by Federal law,
	4	Generator's Phone (9/6) 489 - S	SEQUEYAH P.O. BOY 610 GORE, OK	FLELS 1 7443S	CORP		B. State C	enerators	
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$\ $	L		L		1-1-1-1-1				M
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П	1	COPTEYVILE, KS 67337	<u>L</u>	KS D9	81506		1 1		
GE	1	1. US DOT Description (Including Proper Sh	ilipping Name, Haza	Class and	d ID Number) <b>Š</b>	12. Conta No.		13. Total Juantity	Unit Walte NOS
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	THE TOTAL PROPERTY.	Additional Descriptions for Materials Lists					K. Handlin	Codes fo	Wasted Listed Above
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	r	<ol> <li>GÉNERATOR'S CERTIFICATION: I hereby decla proper shipping name and are classified, packed. according to applicable international and national</li> </ol>	re that the contents of t marked, and labeled, s	this consignme and are in all re	nt are fully and accu			hway	
		If I am a large quantity generator, I certify the economically practicable and that I have select future threat to human health and the environs the best waste management method that is avait	ted the practicable minent; OR, it I am a si	ethod of treat mail quantity (	ment, storage, or i	disposal curr	antly availabl	e to me whi	ch minimizes the present and
Y	<u></u>	Printed/Typed Name Crack Hard		Sig	nature (au	<u> </u>	Tall	<u>ئ</u> ے	Month Day Year
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ROM	OME	EGA PROJE	CT SERVICES	i	FAX NO.	:918489	2621		Se	p. 28	2004 03	:56PM	P4
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1	3. 0	Renerator's Nan	ne and Malling Addr Court Novice Court	988 SEa	BOX 6	FUELS 10	CORP			A. Sta			iber - Access Coult & Access Chemical County of
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	b.										<u> </u>		
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	J. A		iptions for Malerials $re+e$ $R_m$ .							K. Han	dling Codes for	Wastes Lis	ted Above
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	15.	Special Handlin	to TL 60		Herage	e Dat	e 8	<u>-</u> 24-	04				
dže		packed, marked. If I am a large q practicable and t and the environs	CERTIFICATION: I and labolod, and are uantity generator, I could be the three colocities and that I can afford.	In all respects in artify that I have to practicable m	n proper condition a program in pia ethod of truatmen	for transport by the to reduce the figure of displayers the a good faith	highway accome volume and to sposal currently	tiling to ap toxicity of t v available	plicable inte waste gene To me which	emationa erated to sh minimi	I and national go the degree I hav zed the present	everimental r ve determine and fulure th vaete manage	oguilations.  d to be economically reat to human health ement method that is
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Į Į V			or Operator: Certific	allon of receipt	of hazardous m			dest exce	pt as noted	in Item	19.		
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		Emergency Contact Telepho	ne Number		F 80 7 7 28
	J#S	•			
	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. DK.D.O.S. 196.1783	Manifest Document No.	2. Page 1	Information in the shaded areas is not required by Federal law.
A	3. Generator's Name and Malfing Address CFG	WORTH FUELS CORP		A. State Mar	this form (6700edmul/ themusod treatm maps and intrinses of an approached
	A Generator's Phone (G.) C. S. Gol	BOX 610 RE,OK 74435	•	B. State Ger	nerator's ID
П	5. Transporter 1 Company Name	5511 6. USEPAID	Number	C. Stale Tre	naporter's ID. Lana Data Control Control
		687 ATEON NED9863		D. Transpor	ter's Phone Acid in the anticophism with
Ш	7. Transporter 2 Company Name	8. US EPA ID	Number	F. Transport	naporter's ID
П	9. Designated Facility Name and Site Address	10. US EPA ID	Number	G. State Fac	
	RT 3 BOX 65, HUY 16	G NORTH		L English /a	Dhaga
	COFFEY VILLE, KS 62		5.08.025	H. Facility's	1020-251-6380
	11. US DOT Description (Including Proper Shipping	Name, Hazard Class, and ID Number)	12. Con		13. 14. Strong Strong
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	15. Special Handling Instructions and Additional Inf	omation			The second of th
	A	Jorage Date 8	3-24-04	,	,
		BEY	76/9	7	TL655
	16. GENERATOR'S CERTIFICATION: I hereby deci	are that the contents of this consignment are fu	fly and accurately des	cribed above t	y proper shipping name and are classifie
1	packed, marked, and labeled, and are in all respect if I am a large quantity generator, I certify that I be	ave a program in place to reduce the volume and	d toxicity of waste gen	erated to the d	agree I have determined to be economica
	practicable and that I have selected the practicable and the environment; OR, If I am a small quantity				
l	evallable to me and that I can afford.  Printed/Typed Name	Signature /			Month , Day Ye
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TRANSPORTER	18. Transporter Acknowledgemen of Receipt of				
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	19. Discrepancy Indication Space	mocer Re miled to	o John	ETTIS.	8-2624
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ACI	Becowid 386201	bs. 17554 K.	<b>&gt;</b>		
Ļ	20. Facility Owner or Operator. Certification of rec	elpt of hazardous materials covered by this m	anifest except as not	ed in Item 19.	
Ť	- William Name / /	(Signature )		<del></del>	Months Dav. Y
	Printed/Typed Name / /	l altumbus			つ アプレイアルス
	Bobbie Harms	7301	ilu A	arn	08/260

ORIGINAL -- RETURN TO GENERATOR

ROM	:OMEGA PROJECT SERVICES FAX NO. : SS-CULOS	: 9184892621	Sep		3 2004 03:5 NOTE:	7PM	P6			
:		Contact Telephone Nur KF \$37468								
***	UNIFORM HAZARDOUS  OK. D.O.5.1 9 6.1.7.8.3 Document No. 100 Information in not required by									
1	3. Generator's Name and Mailing Address SEQUOYAH FUELS CORP.			A. State Manifest Document Number even must swit a notice mount at the state of the notice with the state of						
	4. Generator's Phone (918 ) 489 - 5511			B. State Generator's ID						
	5. Transporter 1 Company Name 6. US EPA ID Number SMITH SYSTEMS TRANSART MED 9863881.3.3				ite Transporter's ID insporter's Phone,	· .	the state of the			
	7. Transporter 2 Company Name 8. US EPA ID Number			E. State Transporter's ID						
	9. Designated Facility Name and Site Address 10. USEPA ID Number G. State Facility's ID									
	RT 3 BOX 65, HWY 164 HOATH KSD98.15 6802 5				H. Facility's Phone					
	11!' US DOT Description (Including Proper Shipping Name, Hazard Class	s, and ID Number)	12. Conta	ainere Type	13. Total Quantity	14. Unit	Waste No. **			
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ATOR	(c.						100 100 100 100 100 100 100 100 100 100			
	d.									
	ADUH TLGOS LOOF LOT	K. Har	L Handling Codes for Wastes Listed Above (1997)							
	540 rage date: 8-24-04									
( P)	18. GENERATOR'S CERTIFICATION: I hereby declare that the contents of packed, marked, and labeled, and are in all respects in proper condition for if I am a large quantity generator, I certify that I have a program in place practicable and that I have salacted the practicable method of treatment, and the environment; OR, if I am a small quantity generator, I have made available to me and that I can afford.	r transport try highway according to a to reduce the volume and toxicity of storage, or disposal currently available	pplicable inte I waste gene le to mo whic	metions rated to h minim	il and national govern the degree I have di ized the present and	mentai m starmined	egulations.  I to be economically			
<u>↓</u>	Printed Typed Name Cray Harlin	Signature Clay	X . 9	1/21	L.	M	Onth Day Year			
TRANSAORT	17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name	Signature		Les.	<u> </u>	M	onth Day Year			
DET-ELECT	18. Transporter Lacknowledgement of Receipt of Materials Printed/Typed Name	Signature			·	M	onin Day Year			
FACI	18. Discrepancy Indication Space DISCREPANCIE  RICEIVED 31020 165, 1	4100K.	o Je	ohi	18/10					
20. Facility Owner or Operator: Cortification of receipt of hazardous materials covered by this manifest except as noted in item 19.										
Ÿ	Tinted Typed Name	Month 12 8 7 7 6 9 1								

		5	Emergency Co	ontact Telephone	e Number								
	(15)7	UNIFORM HAZARDOL WASTE MANIFEST	JS 1. Generator's US EP.	961783	Manifosi Document No	,2, Pag			ided ereas al law.	ls:			
A	3. 0	enerator's Name and Malling Address SECOPAR FUELS CORP III A State Manifest Document Number of Part of the Company of the Comp											
	4. C	GOPE, OK 74435  B. State Generator's ID  4. Generator's Phone (918) 489-5511  5. Transporter 1 Company Name  6. 1 US EPA ID Number  C. State Transporter's ID								And the second s			
	5. T									Material Science			
		SMITH SUSPENS TRANSPORTATION NZ D986382 1 7. Transporter 2 Company Name 8. US EPA ID Number					E. State Transporter's ID						
	9. C	Designated Facility Name and Site Ad	umber		nsporter's Phone te Facility's ID	-							
	9. Designated Facility Name and Site Address  CLEAN HARBORS PPM / LLC  RT 3 Box 610, HWY 169 NORTH							•					
		COFFEYUTUE, KS 67337   KSD.9815.0802											
	11.	US DOT Description (Including Proposition)		•	12. Canti No.	tiners Type	13. Total Cupntity	14. Unit Wt/Val	Waste I	do de			
	a.	4 PCB -5065	0,9,002	315, 16	1	CM	8	7	**************************************				
G	b.	·							. / er	25			
GHZHKK-OK													
<b>AP</b>	C.						•			• • • •			
Ř	đ.					-			·.	<del></del> -			
	a.												
		Additional Descriptions for Materials L				K. Han	dling Codes for Wa	stes Lister	Above -	<u> </u>			
	CONCRETE RUBISCE 9 SAND												
										i Listra e Listra			
	15. Special Handling Instructions and Additional Information									· ·			
		GENERATOR'S CERTIFICATION: 1								ssified,			
		packed, marked, and labeled, and are in if t am a large quantity generator, I cer practicable and that I have selected the and the environment; OR, if I am a sme	tify that I have a program in place to a practicable method of treatment, store	reduce the volume and to age, or disposal currently	pricity of waste gene available to me which	rated to th minimi	the degree I have dized the present and	etermined t future three	o he econo at to human	nealth			
		available to me and that I can afford.  Printed/Typed Name	·	Signature 4	(1)		<i>,</i>	Мо	nth Day	Year			
Y	17	Transporter 1 Acknowledgement of	Receipt of Materials		( Car f)	1 4	<u> </u>	···· .	1127	<u>- y</u>			
RAZ		Printed/Typed Name		Signature		一		Мо	nth Day	Year			
3046	18.	Transporter 2 Acknowledgement of			<u> </u>	- : \-	<u>,</u>	1.7		$ O_{i} $			
プロージのものストロイ		Printed/Typed Name	t)	Signature	. ,		· · · · · · · · · · · · · · · · · · ·	Mo	nth Day	Year			
	19,	Discrepancy Indication Space					·		<u>.J.</u>	<u> </u>			
FACIL	·. 		A T. Comments of the Comment of the		** - *** ;	·. · ·	W W		194 1944 	10 25 c 100 T			
	20.	Facility Owner or Operator: Certifica	tion of receipt of hazardous materia	is covered by this manif	lest except as note:		1925 Septequiring		يود ده ده. سي	i Ngga ta st			
Y	٠.	Printed/Typed Name		Signature				Мо		Year			
	٠	- ther teer	Consent of september of		Tá:		the third and one		·	1			
GENERATOR'S COPY													