Department of Energy
Field Office, Albuquerque
Kirtland Area Office
P.O. Box 5400
Albuquerque New Mexico 87185-5400

SEP 26 1997

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

REP SNL TA03/97

Dr. Robert S. (Stu) Dinwiddie, Manager
RCRA Permits Management Program
Hazardous and Radioactive Materials Bureau
New Mexico Environment Department
2044 Galisteo St., Bldg A
Santa Fe, NM 87505-2100

Subject: Closure Report for the Electrokinetic Extraction System Demonstration

Dear Mr. Dinwiddie:

The purpose of this letter is the submittal of the enclosed Final Closure Report for the Sandia National Laboratories, New Mexico (SNL/NM) Electrokinetic Extraction System (EES) Demonstration RCRA Research, Development, and Demonstration Permit No. NM5890110518-RDD3. The report has been written in accordance with the specifications contained in Permit Attachment J (Closure Plan). It also meets the requirements of Permit Condition II.J.9 (Final Closure Report) and is being submitted within 180 days after completion of closure.

As required by Section I.F of the RCRA RD&D Permit, a certification page is also enclosed with the appropriate signatures in accordance with 20 NMAC 4.1, Subpart IX, 40 CFR 270.11 and 270.30(k). If you have any questions regarding this submittal, please contact Mr. Ted Pietrok of my staff at (505) 845-5649.

Sincerely,

Brenda G. Harmson

for Michael J. Zamorski
Acting Area Manager

Enclosures

cc w/o enclosures:
G. Laskar, DOE/KAO
K. Griffith, DOE/KAO
E. Krauss, MS0141, SNL/NM
D. Moore, MS1044, SNL/NM
E. Lindgren, MS0719, SNL/NM

6600-Generated Documents

Certification Statement for Approval and Final Release of Documents

To be used when a SNL Officer and KAO must approve release

Document title and author: Final Closure Report for the Electrokinetic Extraction System Demonstration, RCRA Research, Development, and Demonstration Permit No. NM5890110518-RDD3, prepared by E. Lindgren, 6621

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather, evaluate, and prepare the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations.

Joan B Woodard — 9-25-97

Joan B. Woodard
Vice President
Energy and Environment Division, 6000
Sandia National Laboratories
Albuquerque, New Mexico
Co-Operator

Date

and

Brenda Harmison — 9-26-97

for Michael J. Zamorski
Acting Area Manager
Kirtland Area Office
U.S. Department of Energy
Albuquerque Operations Office
Owner and Co-Operator

Date

ELECTROKINETIC EXTRACTION SYSTEM DEMONSTRATION

FINAL CLOSURE REPORT

RCRA RESEARCH, DEVELOPMENT AND DEMONSTRATION

PERMIT NO. NM890110518-RDD3

U.S. Department of Energy
Sandia National Laboratories
Environmental Restoration Technologies Department
Albuquerque, NM 87185-0719

September 10, 1997

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Attachments and Appendices

ATTACHMENT A: CERTIFICATION OF CLOSURE CERTIFICATES

APPENDIX A: COPIES OF LABORATORY ANALYSIS SHEETS FOR RCRA METALS IN PRE-TEST SOIL SAMPLES

APPENDIX B: COPIES OF LABORATORY ANALYSIS SHEETS FOR CHROMIUM IN POST-TEST SOIL SAMPLES

APPENDIX C: COPIES OF LABORATORY ANALYSIS SHEETS FOR ORGANICS, FOR CHROMIUM (VI), AND FOR TOTAL METALS IN PRE-TEST SOIL SAMPLES

APPENDIX D: COPIES OF LABORATORY ANALYSIS SHEETS FOR ORGANICS IN THE CATHODE EFFLUENT STREAM, THE CATHODE EXHAUST STREAM, AND THE SOIL GAS SAMPLES

APPENDIX E: COPIES OF LABORATORY ANALYSIS SHEETS FOR CHROMIUM IN WASTE EFFLUENTS

APPENDIX F: COPIES OF LABORATORY ANALYSIS SHEETS FOR VOLATILE ORGANICS, CHROMIUM (VI), AND TOTAL METALS FOR DECON WATER SAMPLES AND TRIP BLANKS

APPENDIX G: COPIES OF DATA VERIFICATION SHEETS FROM THE SNL SAMPLE MANAGEMENT OFFICE FOR CONTRACT LABORATORY ANALYSES

1.0 INTRODUCTION

Heavy-metal contamination of soils and groundwater is a widespread problem at Environmental Protection Agency (EPA) Superfund sites, Department of Energy (DOE)-operated sites, and privately-owned facilities throughout the nation. Currently, the only viable method for remediating heavy-metal contaminated soil is by excavation followed by soil washing or relocation. A possible technique for *in-situ* removal of such contaminants is through the use of electrokinetics. To conduct electrokinetic remediation, electrodes are implanted into the ground, and a direct current is imposed between the electrodes. Metal ions migrate toward an electrode where they can be removed. This technique was demonstrated with an Electrokinetic Extraction System (EES) performed in the Unlined Chromic Acid Pit (UCAP) in the Chemical Waste Landfill (CWL), Technical Area III, Sandia National Laboratories (SNL), under the Resource Conservation and Recovery Act (RCRA) Research, Development and Demonstration (RD&D) Permit Number NM890110518-RDD3. The EES demonstration activities began at the site on October 6, 1995 with pre-test sampling and installation of equipment and ended on April 3, 1997 with the completion of closure activities.

According to the EES Demonstration Closure Plan, the CWL Closure Plan will take precedence to ensure that the closure performance standards of 40 CFR 264.111 are achieved for the entire landfill. Therefore, this closure effort has focused on the standards for disposal or decontamination of equipment, structures, and soils specific to the EES as specified in the EES Demonstration RCRA RD&D Permit No. NM890110518-RDD3. This closure report includes the certification of closure and closure report information as required by Permit Condition II.J in accordance with Permit Attachments A and J, and Permit Condition III.I in accordance with Permit Attachment F.

2.0 ACTIVITIES PERFORMED UNDER CLOSURE

2.1 Closure Schedule

This Closure Report serves to meet the requirements of a final closure report for the EES demonstration as given in Attachment J of the Permit. Notification of the commencement of closure activities was given on October 24, 1996 as per Section II.J.3. of the Permit. Closure activities began 48 days later on December 12, 1996 and ended April 3, 1997 within 180 days as specified in Section II.J.4. of the Permit. A Certificate of Closure, due by June 2, 1997 (within 60 days of completion of closure; Permit Section II.J.8), was signed by an independently registered professional engineer as specified in Attachment J and submitted to NMED on May 29. However, contrary to past practice, the certificate was

rejected because the engineer works for SNL. A second Certificate of Closure was submitted to NMED on June 20, 1997. A copy of these certificates are in Attachment A of this report. This report of closure activities is due by September 30, 1997 (within 180 days of completion of closure; Permit Section II.J.9).

2.2 Decontamination and Disposal of Equipment, Structures, and Soils

2.2.1 SURFACE EQUIPMENT

All surface equipment has been removed from the site. Equipment that was not in contact with the hazardous-waste site soil or effluents, and therefore not contaminated, was removed from the site and placed in storage. Contaminated, salvageable equipment, such as electrodes, pumps, and instrumentation, was washed with phosphate-free soap, rinsed with deionized water, and placed in storage. All wash and rinse water was sent to the SNL Hazardous Waste Management Facility (HWMF). Some polyethylene tubing and minor PVC piping was considered not appropriate for decontamination and was disposed of through the HWMF. A listing of all hazardous wastes is given in Table 1.

2.2.2 SUBSURFACE EQUIPMENT

Attempts were made to remove the subsurface equipment. Near surface equipment (such as access boxes and electrical cables) that was placed in non-contaminated soil was pulled from the ground and disposed of as solid waste. Approximately one half of the soil-wetting wells were also removed. However, attempts to remove the electrode ceramic casings, cold fingers, and neutron access tubes were met with limited success as was anticipated in the Permit. All remaining subsurface equipment was terminated at least 1 foot below land surface and was grouted in place with commercial bentonite grout. Figure 1 shows the locations of the subsurface equipment left in the EES demonstration area in the CWL.

3.0 VARIANCES FROM ACTIVITIES DESCRIBED IN THE APPROVED PERMIT CLOSURE PLAN

The maximum number of electrodes listed in the Approved Permit Closure Plan was nine. However, as described in a letter to Ms. Barbara Hoditschek dated November 28, 1995, fifteen electrodes had been installed due to a planned physical alteration.

Maximum quantities of several types of wastes were listed in the Permit Closure Plan; however, much less waste was generated than anticipated. Also, a few incidental wastes (cathode effluents, unused reagents, and compressor blow-down water) were generated. See Section 4 and Table 1 for details.

4.0 IDENTIFICATION AND QUALIFICATION OF THE KINDS OF WASTES PRODUCED

Wastes generated during the EES demonstration were labeled, stored, and managed in compliance with 20 NMAC 4.1, Subpart III, 40 CFR 262.34 (a) and disposed of through the SNL HWMF, Permit No. NM5890110518-1.

Wastes included soil cuttings from boreholes, decontamination (decon) water from cleaning equipment, solid debris (personal protective equipment, wipes, sampling tubes, tubing, some surface and subsurface equipment, etc.), and the anode effluents. Incidental wastes were the compressor blow-down water that included oil as an emulsion, the cathode effluents (which contained copper), and the unused reagents, acetic acid and sodium hydroxide.

The amount of wastes produced was less that the maximum quantities specified in Attachment J of the Permit. Table 1 lists the actual quantity of waste produced by this demonstration and the maximum quantity of each type of waste allowed in the Permit.

5.0 CONTRACT LABORATORY SAMPLE ANALYSIS SHEETS

To support the chemical data collection needs for evaluating the hazardous characteristics of the wastes generated by the EES demonstration, sampling and analyses of the waste were performed according to the requirements given in Permit Attachment A: "Waste Analysis Plan" and the "Proposed Sample and Analysis Plan for Additional Characterization of the CWL UCAP" (see Permit Section I.K.). Sampling activities were performed before (pre-test), during, and after (post-test) the electrokinetic activities. Diagrams of the pre-test and post-test sampling locations are given in Figures 2 and 3 and listings are given in Tables 2 and 3, respectively. All sample analyses for RCRA metals, for organics, and for gases were sent to an off-site commercial laboratory using standard contract laboratory program (CLP) protocols. Appendices A - F include copies of all Contract Laboratory Sheets. Summaries of the results are given in the next section.

6.0 SUMMARY OF THE LABORATORY ANALYSES

In accordance with the Certification of Closure in Attachment J of the Permit, confirmatory sampling (post-test) was performed as described in the Permit Attachment A: Waste Analysis Plan during the closure activities. The post-test sampling was designed to detect any negative impacts (in particular, soil moisture content increases at depth) to the UCAP resulting from the EES demonstration which could potentially impact the CWL Closure Plan.

6.1 Soils For Toxicity Characteristic Metals

The Permit required post-test samples to be analyzed for any metals found above the Toxicity Characteristic Leaching Procedure (TCLP) limit (see Table 4) in at least two pre-test samples (see Contract Laboratory Sheets in Appendix A). All metals except chromium were below the TCLP limits; therefore, post-test samples were analyzed for chromium. Appendix B contains the post-test Laboratory Analysis Sheets. A summary of the pre- and post-test soil sample TCLP analyses for chromium are given in Tables 2 and 3, respectively. Both sets of data show similar TCLP levels of chromium, all under 100 ppm.

6.2 Soils For Moisture Content

When the collected sample size for the RCRA metal analyses was sufficiently large, a split of the soil sample was taken for moisture content. Soil moisture analyses were conducted in-house by the appropriate ASTM method: ASTM D2216-92 (conventional oven-drying method) for most samples and ASTM D4643 (microwave oven-drying method) when faster results were required in the field. Tables 2 and 3 also give a summary of the pre- and post-test soil-sample moisture contents.

To check the post-test moisture contents at depth below the demonstration area, the moisture content of the last planned post-test sample in each borehole was quickly determined in the field by microwave drying. No moisture content was 5 wt% above the average moisture content measured at that horizon in the pre-test samples (see Table 5), so no additional samples at depth were required as per Section 2.4.1 of Permit Attachment A. Soil moistures at depths greater than 16' were generally within 1 wt% of the pre-test samples, which indicates no negative impacts to the CWL UCAP due to moisture from the EES demonstration.

In addition to the soil samples for moisture contents, process knowledge also supports the conclusion that there were no significant moisture changes. The amount of water added to the soil and extracted from the soil was recorded in an effort to determine the net gain or loss of water to the soil. Water was intentionally added to the demonstration through the input of makeup water (2065 gal), acids (74 gal), and bases (134 gal) to the ceramic electrokinetic electrodes, and water was added to the soil through the series of injection wells (50±10 gal). Some water was also unintentionally added to the demonstration through leakage of chiller water through defective electrode heat exchangers and cold fingers (estimated to be 35 gal). Water was removed from the demonstration by pumping water from the ceramic electrodes to effluent barrels (2337 gal). So, although significant amounts of water were both added and

removed from the soil, it is estimated that the net water added to the soil from activities conducted at the electrokinetic demonstration was only 20±10 gallons.

6.3 Soils for Organics and Total Metals

Some pre-test soil samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and poly-chlorinated biphenyls (PCBs). The results were submitted to NMED in a letter to Ms. Barbara Hoditschek dated July 3, 1996. These samples were also analyzed for the TCLP concentrations of the 8 RCRA metals as indicated in Section 6.1 and Table 2 of this report. In addition, the samples were analyzed for total metal concentrations of the 8 RCRA metals, and of beryllium, cobalt, copper, and nickel, and also analyzed for chromium (VI). The results of the sample analyses for chromium (VI), total metals, and only those organics detected are listed in Table 6. All of the Laboratory Data Sheets are included in Appendix C. The only organic Toxicity Characteristic constituent detected was nitrobenzene, and the concentration did not exceed the Toxicity Characteristic Limit as given in Table 4; therefore no post-test sampling for organics was conducted.

6.4 Gases And Liquid Effluents For Organics

Samples of the middle cathode effluent stream and the cathode vacuum system exhaust were collected together at two times during the demonstration. These samples were analyzed for organics. Most analytes were not detected at all, and those that were had low concentrations (2-150 μg/L for organics in the effluents and 0.42 pmmv of methylene chloride in one of the exhaust samples). Table 7 gives a summary of the organics detected; Appendix D lists all of the Laboratory Analysis sheets.

Soil gas sampling was conducted before, during, and after the demonstration. A summary of the results of the soil gas analyses, showing only detectable organics, is also given in Table 7. Laboratory Analysis Sheets are in Appendix D. The concentrations of the soil gases increased considerably after the soil temperature was raised to approximately 50°C by resistive heating. This increase in soil gases is a strong indication that there may be some liquid phase organics present in the heated zone near the sampling port; however, the cathode effluent and cathode vacuum exhaust samples did not indicate that organics were being driven out of the zone of influence by the EES process.

6.5 Waste Effluents For Chromium

The mass of chromium removed from the landfill through the anode effluents was evaluated by sampling the waste containers. All of the electrodes

(cathodes and anodes) were pumped out immediately following installation, and the waste was put into container EK1. Thereafter, each electrode effluent was directed into a separate satellite waste container. The first few anode satellite waste containers were sampled and then transferred and combined into waste barrels that were taken to the <90-day waste accumulation area. These samples prior to mixing are called A1 Eff through A5 Eff. It was then found to be easier not to composite the waste containers, so each one contained effluent from only one electrode. These containers and samples were called EK xx. The Permit required liquid effluent samples to be analyzed for any metals found above the toxicity limit in at least two pre-test soil samples (see Section 2.2.1 of Permit Attachment A: Waste Analysis Plan); therefore, waste effluent samples were analyzed for chromium (and, in some cases, for iron for our own demonstration knowledge). Table 8 gives the amount of chromium in the first satellite waste containers and in each waste barrel and the total chromium removed from the landfill through the demonstration effluents. Appendix E contains the Laboratory Analysis sheets for all of the samples sent to the off-site laboratory for analysis. Note that EK-1 was collected prior to the onset of the process operation and was treated as equipment installation waste. The chromium content of EK1 was determined by an in-house UV/VIS method. Although much chromium was removed from the UCAP, much still remains in the soil.

7.0 SUMMARY OF QA/QC DOCUMENTATION FOR CONTRACT LABORATORY ANALYSES

The Sandia Sample Management Office (SMO) performs QA/QC services for environmental samples submitted through its office. Appendix G contains the data verification sheets from the SMO that evaluate the QA/QC methods of the sample collection process and the analytical laboratory. Since the samples were analyzed by a CLP laboratory using EPA methods and protocols, their quality control methodology is acceptable as outlined in Permit Attachment A.

As per the Waste Analysis Plan (Permit Attachment A), duplicate samples were taken at a rate of 10%, a decon water sample was taken each day samples were taken, and a VOC trip blank accompanied the VOC samples. The Laboratory Analysis Sheets for the duplicate samples are included with the others in Appendices A-E. For the TCLP chromium analyses in pre- and post-test soil samples, the duplicates are also included in Tables 2 and 3. The Laboratory Analysis Sheets for the decon water and the VOC trip blanks are listed in Appendix F. No poor QA/QC indicators were found.

8.0 RECORDKEEPING

The written Operational Records which were located at the EES demonstration facility have been moved to the SNL Department 6621 office (Dept. 6622 was

eliminated and the project transferred to Dept. 6621) in Room 4021C, Building 823. These records were moved and the entire facility removed from the site so as not to impede a Voluntary Corrective Action at the CWL. Records include process monitoring notes and summaries, waste sampling and analysis records, contract laboratory analysis results, chemical waste disposal requests, personnel training records, tables of the quantity of wastes extracted and stored, inspection logs, a copy of the Permit, and a copy of the Permit Application which includes the Contingency Plan, Closure Plan, and Waste Analysis Plan, etc. Because the Contingency Plan was not activated, there are no Contingency Plan activation reports.

9.0 CONCLUSIONS

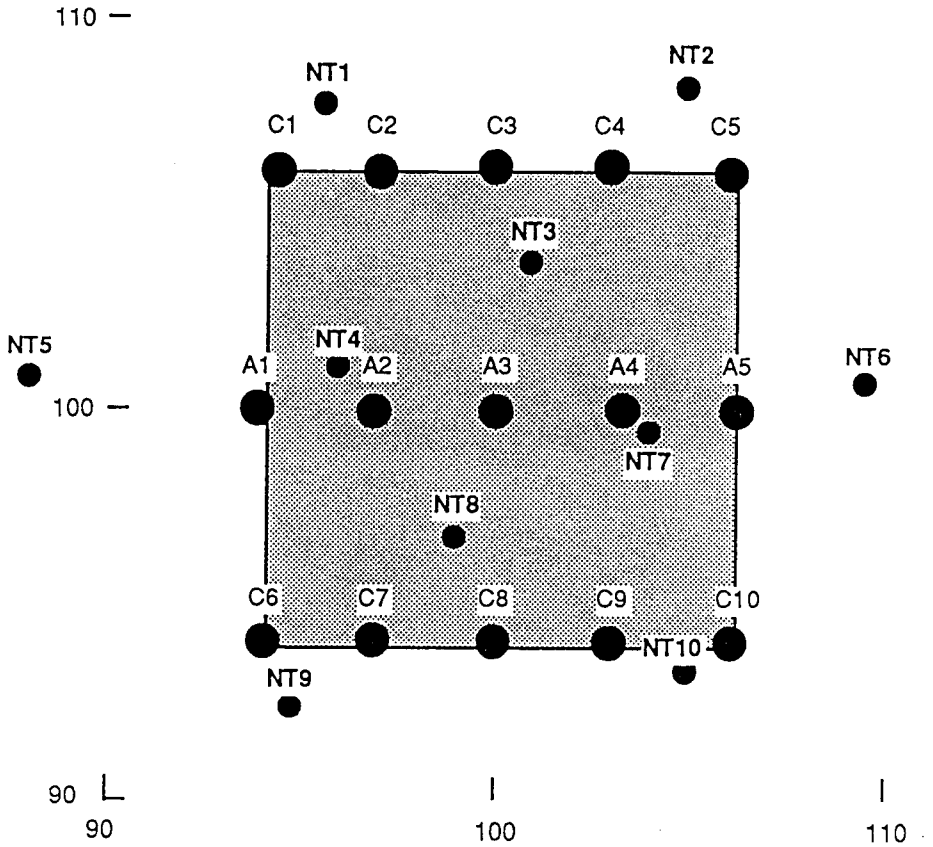
The Electrokinetic Extraction System Demonstration performed under RCRA RD&D Permit No. NM890110518-RDD3 successfully showed that heavy-metal contamination, as demonstrated with chromate-contaminated soil, can be removed *in-situ* through ion migration induced by currents imposed between electrodes implanted in unsaturated soils. This Final Closure Report concludes the EES demonstration as set forth in the Permit. The confirmatory sampling and analyses as outlined in the Permit Attachment A: Waste Analysis Plan was performed as given in this report. No negative impacts to the UCAP, which could potentially impact the CWL Closure Plan, resulting from this EES demonstration were detected.

FIGURES

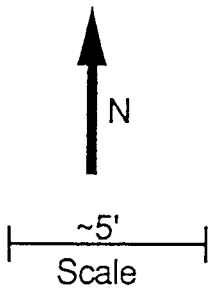
Figure 1. Plan View of Equipment Grouted and Left in the Ground

Figure 2. Pre-Test Sampling Locations and Depths

Figure 3. Post-Test Sampling Locations and Depths



Local Coordinate System in feet where A3 = 100,100. To Convert to Chemical Waste Landfill Coordinate System subtract 81 from X, add 11 to Y coordinates.

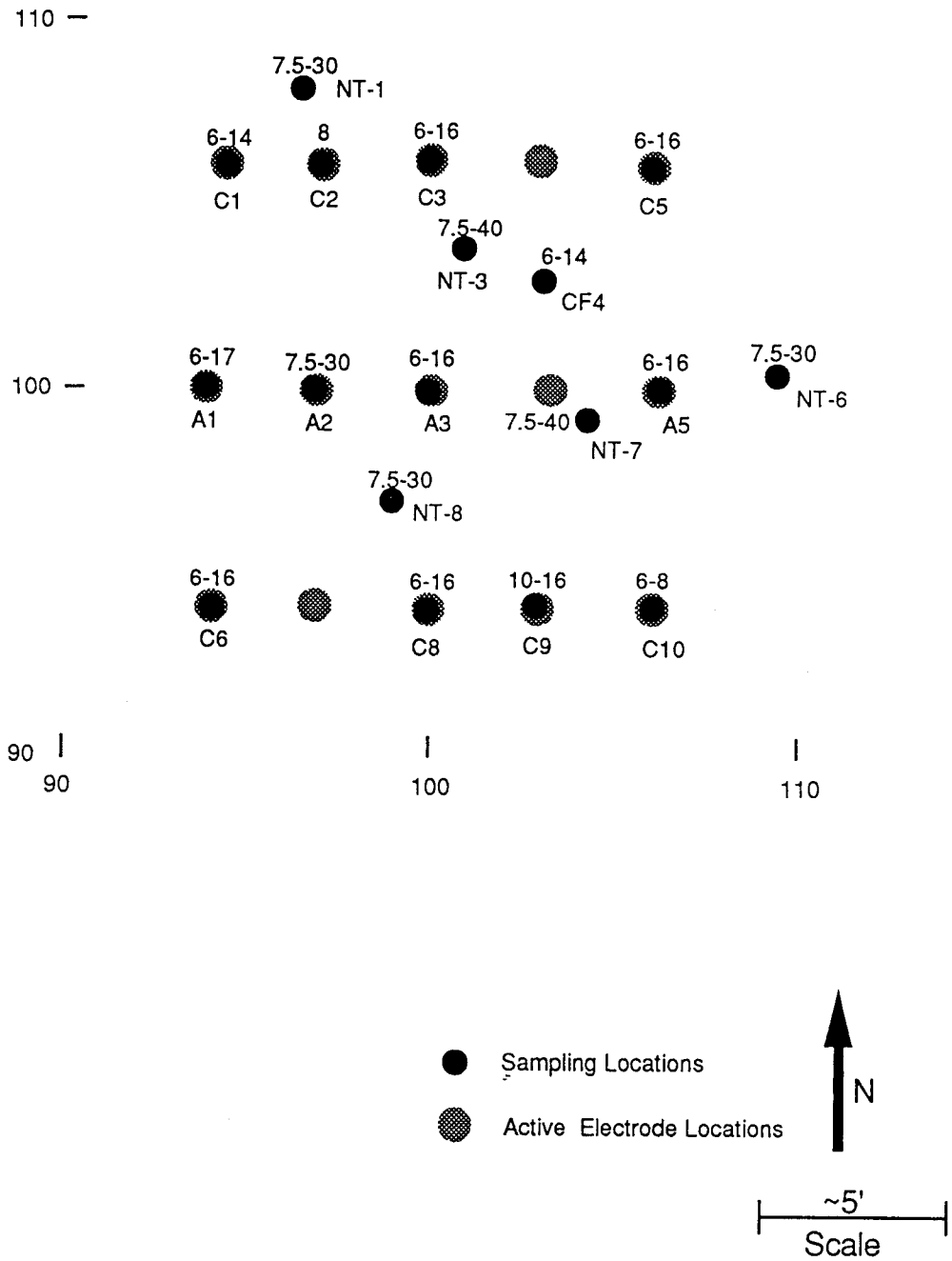


A1 — 3 in. PVC Pipe w/ Ceramic Ends Electrode

NT6 — 2 1/2 in. PVC Neutron Tubes

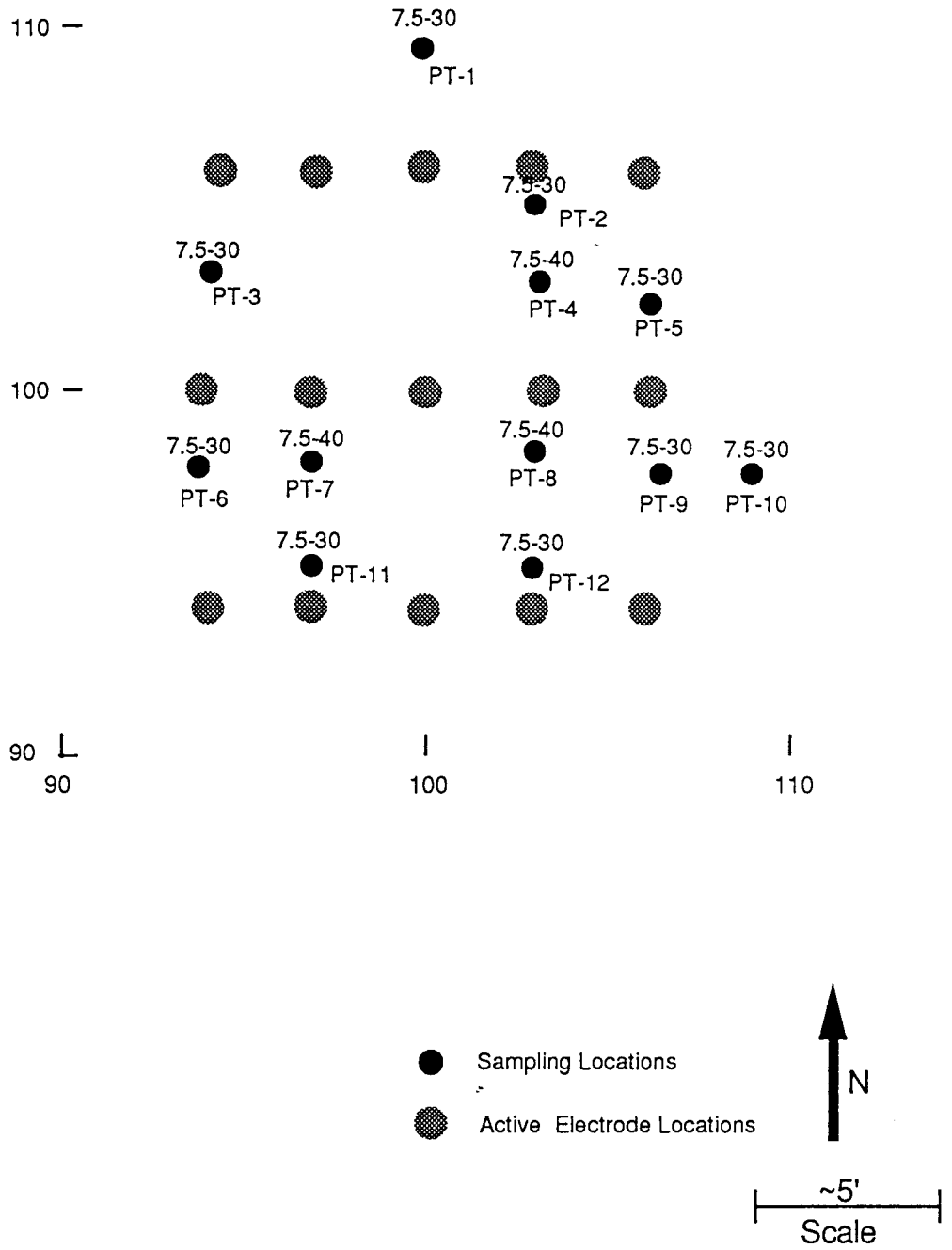
Area in which approximately 20 1/2 in. PVC Infiltration Wells remain

Figure 1. Plan View of Equipment Grouted and Left in the Ground



Local Coordinate System in feet where A3 = 100,100. To Convert to Chemical Waste Landfill Coordinate System subtract 81 from X, add 11 to Y coordinates.

Figure 2. Pre-Test Sampling Locations and Depths



Local Coordinate System in feet where A3 = 100,100. To Convert to Chemical Waste Landfill Coordinate System subtract 81 from X, add 11 to Y coordinates.

Figure 3. Post-Test Sampling Locations and Depths

TABLES

Table 1. Quantity of Wastes Produced and Maximums in Permit

Table 2. Pre-Test TCLP Chromium and Moisture Content in Soils

Table 3. Post-Test TCLP Chromium and Moisture Content in Soils

Table 4. Toxicity Characteristic Limits of Metals and the Toxicity Characteristic Organic Detected

Table 5. Average Moisture Content at Depth in Pre-Test Samples and Post-Test Moisture Contents at Depth

Table 6. Summary of Pre-Test Soil Samples Analyzed for Organics, Chromium (VI), and Total Metals

Table 7. Summary of Soil Gas Analyses: Two Cathode Effluent Samples, Two Cathode Exhaust Samples, and Three Soil Gas Samples

Table 8. Total Chromium Waste Generated in Anode Effluents

Table 1. Quantity of Wastes Produced and Maximums in Permit

	Soil		Debris		Decon Water	Anode Effluent		Cathode Effluent*	Other Aqueous	
	(Gal)	(kg)	(Gal)	(kg)	(Gal)	(Gal)	(g Cr)	(Gal)	(Gal)	(Identity)
61253	600	4088	43	20	70					
53480						55	7	265		
80596						197	61			
53485								329		
53486						472	146		55	Compressor blow down water w/oil
53488						367	148	147		
53489						155	55			
53490						316	191		8	10% NaOH
53490									24	20% Acetic Acid
61638			45	20	15			92	18	Compressor blow down water w/oil
84743			130	59	42					
TOTALS		**4088**		**99**	**127**	**1562**	**608**	**833**	**105**	
Max Quantities**		**11000**		**900**	**550**	**58000**	**380000**			

*Cathode effluent was anticipated to be non-hazardous and to be disposed of into the sanitary sewer; however, copper was present so it was disposed of through the SNL Hazardous Waste Management Facility.

**Maximum quantity of waste expected to be generated specified in Attachment J of RCRA RD&D Permit.

Table 2. Pre-Test TCLP Chromium and Moisture Content in Soils

Sample I.D.		Contract Lab Chromium Analysis		In-House Analysis
Location	Depth	Lab No.	TCLP Cr (ppm)	wt% moisture
NT-1	7.5	26970	ND	7.17
NT-1	10	26971	ND	4.93
NT-1	12.5	26972	ND	3.22
NT-1	15	26973	1.7	3.5
NT-1	15	26974 DUP	1.7	-----
NT-1	17.5	26975	1.2	-----
NT-1	20	26976	2.1	5.97
NT-1	22.5	26977	0.47	9.08
NT-1	25	26978	0.26	5.83
NT-1	30	26979	0.096	7.34
C1	6	27047	0.012 J	6.92
C1	8	27048	ND	
C1	10	27049	ND	3.29
C1	12	27050	ND	1.9
C1	14	27051	30.6	4.85
C2	8	27053	ND	6.28
C3	6	27029	ND	5.99
C3	8	27040	0.031 J	6.88
C3	10	27041	ND	2.92
C3	10	27041 DUP	ND	-----
C3	12	27042	ND	1.43
C3	14	27043	26.9	2.81
C3	16	27044	9.1	8.48
C5	6	27033	ND	8.34
C5	8	27034	ND	4.8
C5	10	27035	ND	2.68
C5	12	27036	0.14 J	1.93
C5	14	27037	0.31 J	2.06
C5	16	27038	2.9	5.6
NT-3	7.5	26991	9.2	9.27
NT-3	10	26992	5.6	4.18
NT-3	12.5	26993	7.1	4.73
NT-3	15	26994	12.1	3.15
NT-3	17.5	26995	5	4.72
NT-3	20	26996	1.8	2.24
NT-3	22.5	26997	7.2	5.95
NT-3	25	26998	1.9	5.02
NT-3	30	26999	5.8	-----
NT-3	35	27000	2.5	6.03

Table 2 continued.

Sample I.D.		Contract Lab Chromium Analysis		In-House Analysis
Location	Depth	Lab No.	TCLP Cr (ppm)	wt% moisture
NT-3	40	27001	5.1	6.32
CF4	6	27112	6.3	-----
CF4	8	27113	13	9.23
CF4	10	27115	49.3	12.59
CF4	12	27116	8.5	2.49
CF4	12	27116 DUP	8.6	-----
CF4	14	27117	1	-----
A1	6	27107	0.036 J	-----
A1	8	27108	0.64	-----
A1	10	27109	20.8	11.4
A1	12	27110	0.52	-----
A1	17	27111	12.5	3.36
A2	7.5	27081	0.043 J	8.6
A2	10	27082	3	18.81
A2	12.5	27083	1.8	-----
A2	15	27084	1.9	-----
A2	17.5	27085	8.1	-----
A2	20	27086	1	-----
A2	22.5	27087	3	-----
A2	22.5	27087 DUP	3.2	-----
A2	25	27088	0.84	6.92
A2	30	27089	1.5	5.97

A3	6	27090	ND	-----
A3	8	27091	3.3	-----
A3	10	27092	17.8	12.87
A3	12	27093	20.8	4.01
A3	12	27093 DUP	19.5	-----
A3	14	27094	33.7	-----
A3	16	27095	91.9	6.09
A4	6	-----	-----	7.54
A4	8	-----	-----	11.83
A4	10	-----	-----	10.15
A4	12	-----	-----	4.15
A4	16	-----	-----	4.13
A5	6	27096	0.38 J	8.27
A5	8	27097	2.5	-----
A5	10	27098	103	10.56
A5	12	27099	19.5	3.61
A5	12	27099 DUP	20.8	-----
A5	14	27100	7.4	-----

Table 2 continued.

Sample I.D.		Contract Lab Chromium Analysis		In-House Analysis
Location	Depth	Lab No.	TCLP Cr (ppm)	wt% moisture
A5	16	27102	19.2	3.42
NT-6	7.5	26981	56.4	10.62
NT-6	10	26982	8.7	7.8
NT-6	12.5	26983	4	2.64
NT-6	12.5	26984 DUP	3.5	-----
NT-6	15	25985	2.2	2.52
NT-6	17.5	26986	1.1	3.14
NT-6	20	26987	1.1	2.45
NT-6	22.5	26988	4	7.82
NT-6	25	26989	4.4	5.39
NT-6	30	26990	4	6.42
NT-7	7.5	27012	19.7	11.93
NT-7	10	27013	35.5	11.11
NT-7	12.5	27014	7.9	4.7
NT-7	15	27015	10.7	4.82
NT-7	17.5	27016	7.3	3.18
NT-7	20	27017	4.1	4.02
NT-7	22.5	27018	5.2	7.95
NT-7	25	27019	5.2	5.37
NT-7	30	27020	7.5	5.74
NT-7	35	27021	3.8	3.1
NT-7	40	27022	6.8	6.08
NT-8	7.5	27023	3.7	19.01
NT-8	7.5	27032 DUP	6.3	-----
NT-8	10	27024	1.7	10.9
NT-8	12.5	27025	6	7.86
NT-8	15	27026	37.3	5.68
NT-8	17.5	27027	5.3	3.95
NT-8	20	27028	18.7	4.56
NT-8	22.5	27029	3	8.08
NT-8	25	27030	3.8	5.87
NT-8	30	27031	3.7	4.08
C6	6	27054	2.1	-----
C6	8	27055	0.37 J	-----
C6	10	27056	0.0066 J	-----
C6	12	27057	ND	-----
C6	14	27058	2	-----
C6	14	27058 DUP	2.2	-----
C6	16	27059	0.24	2.4
C7	6	-----	-----	7.58
C7	8	-----	-----	15.83

Table 2 continued.

Sample I.D.		Contract Lab Chromium Analysis		In-House Analysis
Location	Depth	Lab No.	TCLP Cr (ppm)	wt% moisture
C7	10	-----	-----	5.69
C7	12	-----	-----	3.94
C7	14	-----	-----	9.07
C7	16	-----	-----	6.11
C8	6	27060	0.0097 J	-----
C8	8	27068	0.49	-----
C8	10	27069	5	5.35
C8	10	27069 DUP	6.5	-----
C8	12	27070	6.1	2.89
C8	14	27071	4.1	2.33
C8	16	27072	1.4	3.68
C9	6	-----	-----	9.09
C9	8	-----	-----	9.28
C9	10	27076	27.4	7.03
C9	12	27077	1.1	2.33
C9	12	27077 DUP	0.92	-----
C9	14	27078	0.7	2.22
C9	16	27079	0.16 J	2.76
C10	6	27061	1.2	7.26
C10	8	27062	3.1	-----
C10	10	-----	-----	9.84
C10	12	-----	-----	8.64
C10	16	-----	-----	7.99
BKG	10	27118	ND	4.28

ND is none detectable

J is below the reporting limit or an estimated concentration

Table 3. Post-Test TCLP Chromium and Moisture Content in Soils

Sample I.D.		Contract Lab Chromium Analysis		In-House Analysis
Location	Depth	Lab No.	TCLP Cr (ppm)	wt% moisture
PT-1	7.5	31980	0.0061 J	6.32
PT-1	10	31981	ND	2.33
PT-1	12.5	31982	ND	1.59
PT-1	15	31983	ND	3.18
PT-1	17.5	31984	0.041 J	6.14
PT-1	20	31985	0.0054 J	2.54
PT-1	22.5	31986	0.0046 J	2.77
PT-1	25	31987	0.015 J	5.75
PT-2	7.5	32270	0.078 J	5.85
PT-2	10	32271	ND	2.75
PT-2	10	32271 DUP	0.017	
PT-2	12.5	32272	8.9	3.36
PT-2	15	32274	9.2	7.19
PT-2	17.5	32275	4.5	7.32
PT-2	20	32276	1	2.61
PT-2	20	32276 DUP	1.2	
PT-2	22.5	32277	4.9	9.05
PT-2	25	32278	2.6	5.29
PT-2	30	32279	1.6	5.51
PT-3	7.5	32371	0.92	16.61
PT-3	10	32372	6	16.09
PT-3	12.5	32373	34.2	5.62
PT-3	12.5	32373 DUP	31.3	
PT-3	18	32374	2	3.14
PT-3	20	32375	1.5	2.29
PT-3	22.5	32376	0.38 J	7.33
PT-3	25	32378	0.71 J	
PT-3	30	32379	0.17 J	5.1
PT-4	6	32310	0.52	4.71
PT-4	8	32311	1.1	9.12
PT-4	10	32312	12.2	8.84
PT-4	10	32312 DUP	11.7	
PT-4	12	32313	1.9	2.87
PT-4	15	32314	11.9	
PT-4	17.5	32315	2.4	3
PT-4	20	32316	1.5	2.42
PT-4	22.5	32317	5.3	6.95
PT-4	25	32319	4.4	5.89
PT-4	30	32318	4	6.3
PT-4	35	32320	0.73	2.28
PT-4	40	32321	3.9	7.38

Table 3 continued.

Sample I.D.		Contract Lab Chromium Analysis		In-House Analysis
Location	Depth	Lab No.	TCLP Cr (ppm)	wt% moisture
PT-5	7.5	32280	21	11.06
PT-5	10	32281	4.9	10.48
PT-5	12.5	32282	0.052 J	2.78
PT-5	15	32283	2	3.55
PT-5	17.5	32284	1.7	3.7
PT-5	20	32285	1.8	2.62
PT-5	22.5	32286	6.1	8.64
PT-5	25	32288	5.2	6.68
PT-5	25	32288 DUP	5.4	
PT-5	30	32287	6.6	6.44
PT-6	7.5	32301	0.99	
PT-6	10	32302	15.2	13.94
PT-6	12.5	32303	13.7	4.13
PT-6	12.5	32303 DUP	13.9	
PT-6	16	32304	31.3	8.15
PT-6	17.5	32305	24.6	4.57
PT-6	17.5	32305 DUP	26	
PT-6	20	32306	3.6	4.11
PT-6	22.5	32307	3.5	8.34
PT-6	25	32308	1.3	5.8
PT-6	30	32309	2.6	5.01
PT-7	7.5	32351	0.072 J	17.95
PT-7	10	32352	6.6	13.92
PT-7	12.5	32353	45.6	8.26
PT-7	12.5	32353 DUP	42.2	
PT-7	15	32354	70.9	6.57
PT-7	17.5	32355	7.9	
PT-7	20	23256	0.54	
PT-7	22.5	32357	1.4	6.77
PT-7	25	32359	4.5	9.18
PT-7	30	32360	5.5	4.77
PT-7	35	32361	7.4	3.82
PT-7	40	32349	8.8	6.63
PT-8	8	32289	3.8	12.14
PT-8	10	32290	57.2	8.29
PT-8	12	32291	67	
PT-8	15	32292	18.9	
PT-8	17.5	32293	0.33 J	2.18
PT-8	20	32294	1.7	2.43
PT-8	22.5	32295	3.2	6.75
PT-8	25	32296	4.1	5.65
PT-8	30	32298	8.9	5.35

Table 3 continued.

Sample I.D.		Contract Lab Chromium Analysis		In-House Analysis
Location	Depth	Lab No.	TCLP Cr (ppm)	wt% moisture
PT-8	35	32299	3.5	
PT-8	40	32300	8.1	5.47
PT-9	7.5	32326	29.9	10.36
PT-9	10	32324	62.4	8.1
PT-9	12.5	32325	22.8	4.07
PT-9	12.5	32325 DUP	21.6	
PT-9	15	32327	2.5	3.11
PT-9	17.5	32329	0.24 J	2.34
PT-9	20	32328	0.045 J	2.26
PT-9	22.5	32330	1.5	7.08
PT-9	25	32331	4.2	9.92
PT-9	30	32323	5	4.75
PT-10 A	7.5	32551	21	
PT-10	10	32343	32.6	4.65
PT-10	14.5	32344	6.2	3.17
PT-10	17.5	32345	0.052 J	2.72
PT-10	17.5	32345 DUP	0.057 J	
PT-10	20	32346	0.089 J	2.71
PT-10	22.5	32348	0.66	6.32
PT-10	25	32350	2.3	6.71
PT-10	30	32347	2.3	5.02
PT11	7.5	32363	0.96	11.35
PT11	10	32364	0.6	4.34
PT11	12.5	32365	3.6	2.44
PT11	15	32366	10.8	8.54
PT11	17.5	32367	0.043 J	2.95
PT11	20	32368	0.043 J	2.26
PT11	22.5	32369	1.5	5.7
PT11	22.5	32369	1.6	
PT11	25	32370	2.5	6.94
PT11	30	32358	8.4	4.94
PT-12	7.5	32332	0.24 J	12.64
PT-12	10	32333	0.33 J	12.3
PT-12	10	32333 DUP	0.36 J	
PT-12	12.5	32334	0.011 J	
PT-12	15			8.63
PT-12	20			2.52
PT-12	22.5	32339	1.1	6.4
PT-12	22.5	32339 DUP	1.2	
PT-12	25	32340	3.4	6.16
PT-12	30	32335	7.6	4.87

ND is none detectable
J is below the reporting limit or an estimated concentration

Table 4. Toxicity Characteristic Limits of Metals and the Toxicity Characteristic Organic Detected

EPA HW No.	Metal	CAS No.	Regulatory Level (mg/L)
D004	Arsenic	7440-38-2	5.0
D005	Barium	7440-39-3	100.0
D006	Cadmium	7440-43-9	1.0
D007	Chromium	7440-47-3	5.0
D008	Lead	7439-92-1	5.0
D009	Mercury	7439-97-6	0.2
D010	Selenium	7782-49-2	1.0
D011	Silver	7440-22-4	5.0
D036	Nitrobenzene	98-95-3	40.0

Note: The metal Regulatory Levels are for TCLP extraction; the Nitrobenzene Level is for the total. No other Organic Toxicity Characteristic Constituents were detected: Benzene, Carbon tetrachloride, Chlordane, Chlorobenzene, Chloroform, o-Cresol, m-Cresol, p-Cresol, 2,4-D, 1,2-Dichlorobenzene, 1,2-Dichloroethane, 1,1-Dichloroethylene, 2,4-Dinitrotoluene, Endrin, Heptachlor, Hexachlorobenzene, Hexachlorobutadiene, Hexachloroethane, Lindane, Methoxychlor, Methyl ethyl ketone, Pentrachlorophenol, Pyridine, Tetrachloroethylene, Toxaphene, Trichloroethylene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4,5-TP (Silvex) and Vinyl chloride.

Table 5. Average Moisture Content at Depth in Pre-Test Samples and Post-Test Moisture Contents at Depth

PRE-TEST		
Sample I.D.		
Location	Depth	wt% moisture
NT-1	25	5.83
NT-3	25	5.02
A2	25	6.92
NT-6	25	5.39
NT-7	25	5.37
NT-8	25	5.87
Ave wt % @ 25 feet:		**5.73**
NT-1	30	7.34
A2	30	5.97
NT-6	30	6.42
NT-8	30	4.08
Ave wt % @ 30 feet:		**5.95**
NT-3	40	6.32
NT-7	40	6.08
Ave wt % @ 40 feet:		**6.20**

POST-TEST		
Sample I.D.		
Location	Depth	wt% moisture
PT-1	25	5.75
PT-2	30	5.51
PT-3	30	5.1
PT-5	30	6.44
PT-6	30	5.01
PT-9	30	4.75
PT-10	30	5.02
PT-11	30	4.94
PT-12	30	4.87
PT-4	40	7.38
PT-7	40	6.63
PT-8	40	5.47

Table 6. Summary of Pre-Test Soil Samples Analyzed for Organics, Chromium (VI), and Total Metals

Location	**NT-3**	**NT-3**	**NT-3**	**NT-7**	**NT-7**
Depth	**7.5**	**7.5**	**12.5**	**7.5**	**12.5**
Sample I.D.	026991	026991 DUP	026993	027012	027014
Analyte Concentration (mg/kg)					
Acetone	0.022	0.030	0.0042 J	0.016	0.012
Nitrobenzene	0.35	0.38	0.20 J	0.40	0.56
1,2,4-Trichlorobenzene	0.34	0.39	0.16 J	3.4	0.74
bis(2-Ethylhexyl)phthalate			0.038 J		
Aroclor 1260	0.17	0.16	0.67	0.16	
Aroclor 1242					1.4
Total Metals					
Arsenic	3.3	3.8	2.6	3.0	2.0
Barium	120	115	70.7	97.6	46.8
Beryllium	0.42	0.45	0.40	0.30	0.21
Cadmium	12.1	6.5	1.7	ND	1.3
Chromium	1650	3900	2120	993	1490
Chromium (VI)	94.8	106	96.7	370	112
Cobalt	3.1	3.1	3.0	2.3	1.2
Copper	602	548	1080	183	628
Lead	6.8	8.6	6.0	10.9	5.9
Mercury	0.33	0.60	0.34	0.076 J	0.25
Nickel	12.5	10.6	9.2	4.8	3.5 J
Selenium	0.38	0.93	0.75	0.54	ND
Silver	ND	ND	ND	0.5 J	ND

ND is none detectable

J is below the reporting limit or an estimated concentration.

Table 7. Summary of Soil Gas Analyses: Three Soil Gas Samples, Two Cathode Exhaust Samples, and Two Cathode Effluent Samples

Location	Cathode Effluent (liq.)	Cathode Exhaust (gas)	Cathode Effluent (liq.)	Cathode Exhaust (gas)	Soil Gas North	Soil Gas North	Soil Gas North
Date	7/10/96	7/10/96	10/11/96	10/11/96	3/8/96	9/13/96	12/9/96
Sample I.D.	030533	030532	052060	031699	027717	031524	032269
Analyte Conc. (µg/L (liq.) or ppmv (gas))							
Acetone	25 B		64				
Benzene		0.001 J					
2-Butanone (MEK)	44		150				
Chloroform			5.5				1600 E
Chloromethane			18				
1,2-Dibromoethane							470
1,2-Dichlorobenzene							350
1,1-Dichloroethane							140
1,2-Dichloroethane	4.8 J		11				360
Dichlorodifluoromethane							380
Methylene chloride	2.4 J,B	0.004 B,J	3.9 J	0.42			360
Tetrachloroethene			4.8 J				2400 E
Toluene		0.001 J	7.5				
1,2,4-Trichlorobenzene		0.002 J			0.94		5300 E
1,1,1-Trichloroethane			4.5 J			0.45 E	4200 E
Trichloroethene	4.1 J	0.002 J	69		3.3	1.6 E	19000 E
Trichlorofluoromethane						0.41 E	1200 E
1,1,2-Trichloro-1,2,2-tri-fluoroethane		0.001 J				0.82 E	2100 E
m-Xylene & p-Xylene		0.002 J					
o-Xylene		0.0008 J					
total Xylenes							76 J

J is below the quantitation limit but above the method detection limit
E is above the calibration range; therefore, the result is estimated
B denotes the analyte was detected in the associated method blank

Table 8. Total Chromium Waste Generated in Anode Effluents

Effluent Barrel	Waste Description	Volume (Gal)	Total Chromium (ppm)	Total Chromium (g)
EK 1	All electrodes 1/26 - 5/20/96	55	35.8*	7.4
A1 Eff	A1 5/15 -7/19/96	44	91.2	15.2
A2 Eff	A2 5/15 - 7/19/96	11	23.3	1.0
A3 Eff	A3 5/15 - 7/19/96	50	85.8	16.2
A4 Eff	A4 5/15 - 7/19/96	32	134	16.2
A5 Eff	A5 5/15 - 7/19/96	49	61.7	11.4
EK 18	A3 7/19 - 8/14/96	52	60.9	12.0
EK 19	A5 7/19 - 8/10/96	51	43.1	8.3
EK 20	A4 7/19 - 8/17/96	53	290	58.1
EK 21	A5 8/10 - 8/25/96	52	51.9	10.2
EK 22	A3 8/14 - 8/25/96	55	35.2	7.3
EK 23	A1 8/10 - 8/19/96	50	24.5	4.6
EK 24	A1 7/19 - 8/10/96	55	61.8	12.8
EK 25	A1 8/19 - 9/5/96	51	34.1	6.6
EK 26	A4 8/17 - 9/5/96	53	131	26.2
EK 31	A1 9/05 - 9/27/96	50	42.0	7.9
EK 32	A3 8/25 - 9/16/96	55	82.6	17.2
EK 33	A4 9/15 - 10/2/96	52	137	26.9
EK 34	A5 8/25 - 9/16/96	53	73.9	14.8
EK 35	A5 9/16 - 10/10/96	50.5	68.8	13.1
EK 36	A5 10/10 - 10/27/96	54	90.3	18.4
EK 37	A4 10/2 - 11/4/96	52.5	250	49.6
EK 38	A3 9/16 - 10/16/96	53.5	110	22.2
EK 39	A3 10/16 - 11/2/96	50.5	86.65	16.5
EK 40	A1 9/27 - 10/25/96	50.5	83.6	16.0
EK 41	A1 10/25 - 11/13/96	50	101	19.1
EK 42	A3 11/2 - 11/17/96	52	122	24.0
EK 43	A5 10/27 - 11/17/96	52	173	34.0
EK 44	A4 11/4 - 11/25/96	54	299	61.0
EK 45	A1 11/13 - 11/25/96	45	83.4	14.2
EK 46	A3 11/17 - 11/25/96	25	163	15.4
EK 47	A5 11/17 - 11/25/96	20	255	19.3
EK 48	A2 7/19 - 11/25/96	18	65.0	4.4
	TOTALS:	**1550.5**		**607.7**

* In-house analysis of waste generated during equipment installation

ATTACHMENT A:

CERTIFICATION OF CLOSURE CERTIFICATES

Department of Energy
Field Office, Albuquerque
Kirtland Area Office
P.O. Box 5400
Albuquerque New Mexico 87185-5400

MAY 29 1997

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Robert "Stu" Dinwiddie
RCRA Permitting Section
Hazardous & Radioactive Materials Bureau
New Mexico Environment Department
2044 Galisteo St.
Santa Fe, NM 87505-2100

Subject: Certification of Closure for Electrokinetic Extraction System Demonstration

Dear Mr. Dinwiddie:

Enclosed is the signed certification statement for completion of closure activities for the Electrokinetic Extraction System Demonstration, RCRA Research, Development, and Demonstration Permit No. NM5890110518-RDD3 at the Sandia National Laboratories/New Mexico. The certification of closure satisfies the requirement as specified in 20 NMAC 4.1, Subpart V, 40 CFR 264.115 and in Attachment J of the RCRA RD&D Permit. A closure report will be submitted at a later date.

As required by Section I.F of the RCRA RD&D Permit, a certification page is also enclosed with the appropriate signatures in accordance with 20 NMAC 4.1, Subpart IX, 40 CFR 270.11 and 270.30(k). If you have any questions regarding this submittal, please contact Mr. Ted Pietrok of my staff at (505) 845-5649.

Sincerely,

George K. Lopez

for Michael J. Zamorski
Acting Area Manager

Enclosures

cc w/o enclosures:
S. Kruse, NMED
K. Griffith, KAO
E. Krauss, MS 0141, SNL/NM
D. Moore, MS 1044, SNL/NM
E. Lindgren, MS 0719, SNL/NM

Certification of Closure

RCRA RESEARECH, DEVELOPMENT AND DEMONSTRATION PERMIT NO. NM890110518-RDD3 for ELECTROKINEITIC EXTRACTION SYSTEM DEMONSTRATION

This certification of closure satisfies the requirement as specified in 20 NMAC 4.1, Subpart V, 40 CFR 264.115 for the Electrokinetic Extraction System (EES) Demonstration. Attachment J of the RCRA RD&D Permit requires that within 60 days of completion of closure activities, Sandia National Laboratories shall submit to the New Mexico Environment Department's Hazardous and Radioactive Materials Bureau a certification statement signed by a New Mexico independently registered professional engineer attesting to the completion of closure activities. The information below summarizes the closure activities specified in Attachment J to be completed during closure.

Maximum Quantity of Waste Generated
Amount of waste produced was less that the maximum quantities specified in the permit. Table A1 lists the maximum quantity of each type of waste allowed and the actual quantity of waste produced by this demonstration.

Disposal of Equipment, Structures, and Soil
All surface equipment has been removed from the site.

Attempts were made to remove the ceramic casings and neutron access tubes from the ground but were met with limited success. These ceramic casings and neutron access tubes were grouted in place with commercial bentonite grout and terminated approximately 1 foot below land surface.

Some polyethelene tubing and minor PVC piping was considered non-appropriate to decontaminate and was subsequently disposed of as contaminated debris (see Table A1).

Decontamination of Equipment and Structures
Decontamination of contaminated equipment (i.e. electrodes, pumps, instrumentation) was accomplished by washing with phosphate-free soap and rinsing with de-ionized water. All wash and rinse water was treated as hazardous waste. See Table A1 for amounts of decon water rinsate produced from decontamination activities.

I attest to the completion of closure activities as outline in this certificate of closure.

signature	Stephen F. Dwyer print name
NM Professional Engineer Number	5-1-97 date

STEPHEN F. DWYER NEW MEXICO 10832 REGISTERED PROFESSIONAL ENGINEER

Table A1 - Quantity of Wastes Generated

	Soil		Debris		Decon Water	Anode Effluent		Cathode Effluent*	Other Aqueous	
CWDR #	(Gal)	(kg)	(Gal)	(kg)	(Gal)	(Gal)	(g Cr)	(Gal)	(Gal)	(Identity)
61253	600	4088	43	20	70					
53480						55	7	265		
80596						197	61			
53485								329		
53486						472	146		55	Compressor blow down water w/oil
53488						367	148	147		
53489						155	55			
53490						316	191		8	10% NaOH
53490									24	20% Acetic Acid
61638			45	20	15			92	18	Compressor blow down water w/oil
84743			130	59	42					
TOTALS		**4088**		**99**	**127**	**1562**	**608**	**833**	**105**	
Max Quantities**		**11000**		**900**	**550**	**58000**	**380000**			

*Cathode effluent was anticipated to be non-hazardous and to be disposed of into the sanitary sewer; however, copper was present so it was treated as hazardous waste.

**Maximum quantity of waste expected to be generated specified in Attachment J of RCRA RD&D Permit.

6600-Generated Documents

Certification Statement for Approval and Final Release of Documents

To be used when a SNL Officer and KAO must approve release

Document title and author: Certification Statement for Completion of Closure Activities for the Electrokinetic Extraction System Demonstration, RCRA Research, Development, and Demonstration Permit No. NM5890110518-RDD3, prepared by E. Lindgren, 6621

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather, evaluate, and prepare the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations.

Joan B Woodard

Joan B. Woodard
Vice President
Energy and Environment Division, 6000
Sandia National Laboratories
Albuquerque, New Mexico
Co-Operator

5-27-97
Date

and

George K. Larkin

for Michael J. Zamorski
Acting Area Manager
Kirtland Area Office
U.S. Department of Energy
Albuquerque Operations Office
Owner and Co-Operator

5/29/97
Date

Department of Energy
Field Office, Albuquerque
Kirtland Area Office
P.O. Box 5400
Albuquerque, New Mexico 87115

JUN 20 1997

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Robert "Stu" Dinwiddie
RCRA Permitting Section
Hazardous & Radioactive Materials Bureau
New Mexico Environment Department
2044 Galisteo St.
Santa Fe, NM 87505-2100

Subject: Re-Certification of Closure for Electrokinetic Extraction System Demonstration

Dear Mr. Dinwiddie:

Enclosed is the signed certification statement for completion of closure activities for the Electrokinetic Extraction System Demonstration, RCRA Research, Development, and Demonstration Permit No. NM5890110518-RDD3 at the Sandia National Laboratories/New Mexico (SNL/NM). This certification of closure satisfies the requirement as specified in 20 NMAC 4.1, Subpart V, 40 CFR 264.115 and in Attachment J of the RCRA RD&D Permit.

An original certification was provided to your office on May 29, 1997; however, upon subsequent discussion with Ms. Stephanie Kruse of your staff it was determined that the engineer was not considered independent from the project because he is employed by SNL/NM. Therefore, an additional closure review has been performed by an independent registered professional engineer employed by International Technology Corporation and his certification is enclosed.

As required by Section I.F of the RCRA RD&D Permit, a certification page is also enclosed with the appropriate signatures in accordance with 20 NMAC 4.1, Subpart IX, 40 CFR 270.11 and 270.30(k). If you have any questions regarding this submittal, please contact Mr. Ted Pietrok of my staff at (505) 845-5649.

Sincerely,

George K. Laskar

for Michael J. Zamorski
Acting Area Manager

Enclosure

CERTIFICATION OF CLOSURE

RCRA RESEARCH, DEVELOPMENT, AND DEMONSTRATION
PERMIT NO. NM5890110518-RDD3
for
ELECTROKINETIC EXTRACTION SYSTEM DEMONSTRATION

This certification of closure was prepared in accordance with generally accepted professional engineering principles and practices and satisfies the requirement as specified in 20 NMAC 4.1, Subpart V, 40 CFR 264.115 for an independent professional engineering certification of closure. Attachment J of the RCRA RD&D Permit requires that Sandia National Laboratories submit to the New Mexico Environment Department's (NMED's) Hazardous and Radioactive Materials Bureau a certification statement signed by an independent New Mexico registered professional engineer attesting to the completion of closure of the Electrokinetic Extraction System Demonstration. These services have been performed with the care and skill ordinarily exercised by members of the profession practicing under similar conditions at the same time, and in the same or similar locality. We make no other warranty either expressed or implied. This certification is based on: (1) review of the NMED approved closure plan; (2) review of available field documentation regarding closure activities; (3) review of the waste collection logs and the associated chemical/material waste disposal request forms; and (4) interviews with project personnel. The information below summarizes the activities completed during closure as specified in Attachment J.

Maximum Quantity of Waste Generated
The amount of waste produced was less than the maximum quantities specified in the permit. Table A1 (attached) lists the maximum quantity of each type of waste allowed and the actual quantity of waste produced by this demonstration.

Disposal of Equipment, Structures, and Soil
All surface equipment has been removed from the site. Attempts were made to remove the ceramic casings and neutron access tubes from the ground but were met with limited success. These ceramic casings and neutron access tubes were grouted in place with commercial bentonite grout and terminated approximately 1 foot below land surface. Some polyethylene tubing and minor PVC piping was considered non-appropriate to decontaminate and was subsequently disposed of as contaminated debris (see Table A1).

Decontamination of Equipment and Structures
Decontamination of contaminated equipment (i.e., electrodes, pumps, instrumentation) was accomplished by washing with phosphate-free soap and rinsing with de-ionized water. All wash and rinse water was treated as hazardous waste. See Table A1 for amounts of decon water rinsate produced from decontamination activities.

With the signature and seal below, I attest to the completion of closure activities as outlined in this certificate of closure, and I certify that closure of the Electrokinetic Extraction System Demonstration was conducted in accordance with the approved closure plan presented in Attachment J of the RCRA RD&D Permit, and that the information presented above is, to the best of my knowledge and belief, true, accurate, and complete.

JEFFREY K. TUCKER
NEW MEXICO
12183
REGISTERED PROFESSIONAL ENGINEER

Jeffrey K. Tucker, P.E.
New Mexico Registered Professional Engineer No. 12183
Expires December 31, 1997

Table A1 - Quantity of Wastes Generated

	Soil		Debris		Decon Water	Anode Effluent		Cathode Effluent*	Other Aqueous	
CWDR #	(Gal)	(kg)	(Gal)	(kg)	(Gal)	(Gal)	(g Cr)	(Gal)	(Gal)	(Identity)
61253	600	4088	43	20	70					
53480						55	7	265		
80596						197	61			
53485								329		
53486						472	146		55	Compressor blow down water w/oil
53488						367	148	147		
53489						155	55			
53490						316	191		8	10% NaOH
53490									24	20% Acetic Acid
61638			45	20	15			92	18	Compressor blow down water w/oil
84743			130	59	42					
TOTALS		**4088**		**99**	**127**	**1562**	**608**	**833**	**105**	
Max Quantities**		**11000**		**900**	**550**	**58000**	**380000**			

*Cathode effluent was anticipated to be non-hazardous and to be disposed of into the sanitary sewer; however, copper was present so it was treated as hazardous waste.

**Maximum quantity of waste expected to be generated specified in Attachment J of RCRA RD&D Permit.

6600-Generated Documents

Certification Statement for Approval and Final Release of Documents

To be used when a SNL Officer and KAO must approve release

Document title and author: Certification Statement for Completion of Closure Activities for the Electrokinetic Extraction System Demonstration, RCRA Research, Development, and Demonstration Permit No. NM5890110518-RDD3, prepared by E. Lindgren, 6621

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather, evaluate, and prepare the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations.

Joan B Woodard
Joan B. Woodard
Vice President
Energy and Environment Division, 6000
Sandia National Laboratories
Albuquerque, New Mexico
Co-Operator

6-13-97
Date

and

George K. Lujan for
Michael J. Zamorski
Acting Area Manager
Kirtland Area Office
U.S. Department of Energy
Albuquerque Operations Office
Owner and Co-Operator

6/20/97
Date

APPENDIX A:

COPIES OF LABORATORY ANALYSIS SHEETS FOR RCRA METALS IN PRE-TEST SOIL SAMPLES

Quanterra Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026970-001/NT1 7.5 74) (04560)
Lab ID: 046525-0001-SA
Matrix: SOLID

Sampled: 18 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 09 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Barium	0.63	mg/L	20.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	0.079	mg/L	0.20	6010A	11 JAN 96	11 JAN 96	J
Chromium	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.28	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026971-001/NT1 10 74) (04560)
Lab ID: 046525-0002-SA — Sampled: 18 DEC 95 — Leached: 09 JAN 96
Matrix: SOLID — Received: 21 DEC 95 — Prepared: See Below
Authorized: 21 DEC 95 — Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Barium	0.40	mg/L	20.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	0.021	mg/L	0.20	6010A	11 JAN 96	11 JAN 96	J
Chromium	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.33	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer — Approved By: Richard Persichitte

Quanterra Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026972-001/NT1 12.5 74) (04560)
Lab ID: 046525-0003-SA Sampled: 18 DEC 95 Leached: 09 JAN 96
Matrix: SOLID Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Barium	0.53	mg/L	10.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	ND	mg/L	0.10	6010A	11 JAN 96	11 JAN 96	
Chromium	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.20	mg/L	0.25	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Quanterra Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026973-001/NT1 15.0 74) (04560)
Lab ID: 046525-0004-SA Sampled: 18 DEC 95 Leached: 08 JAN 96
Matrix: SOLID Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Barium	0.23	mg/L	10.0	6010A	10 JAN 96	11 JAN 96	J
Cadmium	0.0056	mg/L	0.10	6010A	10 JAN 96	11 JAN 96	J
Chromium	1.7	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.11	mg/L	0.25	6010A	10 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026974-001/NT1 15.0 74) (04560)
Lab ID: 046525-0005-SA Sampled: 18 DEC 95 Leached: 09 JAN 96
Matrix: SOLID Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Barium	0.27	mg/L	10.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	0.0064	mg/L	0.10	6010A	11 JAN 96	11 JAN 96	J
Chromium	1.7	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.12	mg/L	0.25	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Quanterra Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026975-001/NT1 17.5 74) (04560)
Lab ID: 046525-0006-SA
Matrix: SOLID

Sampled: 18 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 08 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Barium	0.29	mg/L	10.0	6010A	10 JAN 96	11 JAN 96	J
Cadmium	0.0093	mg/L	0.10	6010A	10 JAN 96	11 JAN 96	J
Chromium	1.2	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.16	mg/L	0.25	6010A	10 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026976-001/NT1 20 74) (04560)
Lab ID: 046525-0007-SA
Matrix: SOLID

Sampled: 18 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 09 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Barium	0.45	mg/L	20.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	0.027	mg/L	0.20	6010A	11 JAN 96	11 JAN 96	J
Chromium	2.1	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.36	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026977-001/NT1 22.5 74) (04560)
Lab ID: 046525-0008-SA
Matrix: SOLID

Sampled: 18 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 09 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Barium	0.48	mg/L	10.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	ND	mg/L	0.10	6010A	11 JAN 96	11 JAN 96	
Chromium	0.47	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	J
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.10	mg/L	0.25	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026978-001/NT1 25 74) (04560)
Lab ID: 046525-0009-SA
Matrix: SOLID

Sampled: 18 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 08 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Barium	0.38	mg/L	10.0	6010A	10 JAN 96	11 JAN 96	J
Cadmium	ND	mg/L	0.10	6010A	10 JAN 96	11 JAN 96	
Chromium	0.26	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	J
Lead	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.14	mg/L	0.25	6010A	10 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026979-001/NT1 30 74) (04560)
Lab ID: 046525-0010-SA
Matrix: SOLID

Sampled: 18 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 09 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Barium	0.71	mg/L	10.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	ND	mg/L	0.10	6010A	11 JAN 96	11 JAN 96	
Chromium	0.096	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	J
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.16	mg/L	0.25	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Metals
TCLP Leachate

Client Name:	Sandia National Laboratory		
Client ID:	(027047-001/C1 6 74) (04651)		
Lab ID:	046930-0001-SA		
Matrix:	SOLID	Sampled: 19 JAN 96	Received: 24 JAN 96
Authorized:	24 JAN 96	Prepared: See Below	Analyzed: See Below
			Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Barium	0.32	J	1.0	10.0	mg/L	6010A	27 JAN 96	01 FEB 96
Cadmium	ND		1.0	0.10	mg/L	6010A	27 JAN 96	01 FEB 96
Chromium	0.012	J	1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Selenium	0.15	J	1.0	0.25	mg/L	6010A	27 JAN 96	01 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027048-001/C1 8 74) (04651)
Lab ID: 046930-0002-SA
Matrix: SOLID
Authorized: 24 JAN 96

Sampled: 19 JAN 96
Prepared: See Below

Received: 24 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		2.0	1.0	mg/L	6010A	27 JAN 96	01 FEB 96
Barium	0.34	J	2.0	20.0	mg/L	6010A	27 JAN 96	01 FEB 96
Cadmium	ND		2.0	0.20	mg/L	6010A	27 JAN 96	01 FEB 96
Chromium	ND		2.0	1.0	mg/L	6010A	27 JAN 96	01 FEB 96
Lead	ND		2.0	1.0	mg/L	6010A	27 JAN 96	01 FEB 96
Selenium	ND		2.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Silver	ND		2.0	1.0	mg/L	6010A	27 JAN 96	01 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Metals
TCLP Leachate

.t Name: Sandia National Laboratory
Client ID: (027049-001/Cl 10 74) (04651)
Lab ID: 046930-0003-SA
Matrix: SOLID
Authorized: 24 JAN 96

Sampled: 19 JAN 96
Prepared: See Below

Received: 24 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Barium	0.40	J	1.0	10.0	mg/L	6010A	27 JAN 96	01 FEB 96
Cadmium	ND		1.0	0.10	mg/L	6010A	27 JAN 96	01 FEB 96
Chromium	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Selenium	ND		1.0	0.25	mg/L	6010A	27 JAN 96	01 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027050-001/C1 12 74) (04651)
Lab ID: 046930-0004-SA
Matrix: SOLID
Authorized: 24 JAN 96

Sampled: 19 JAN 96
Prepared: See Below

Received: 24 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Barium	0.64	J	1.0	10.0	mg/L	6010A	27 JAN 96	01 FEB 96
Cadmium	ND		1.0	0.10	mg/L	6010A	27 JAN 96	01 FEB 96
Chromium	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Selenium	ND		1.0	0.25	mg/L	6010A	27 JAN 96	01 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027051-001/C1 14 74) (04651)
Lab ID: 046930-0005-SA
Matrix: SOLID
Authorized: 24 JAN 96

Sampled: 19 JAN 96
Prepared: See Below

Received: 24 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Barium	0.088	J	1.0	10.0	mg/L	6010A	27 JAN 96	01 FEB 96
Cadmium	0.053	J	1.0	0.10	mg/L	6010A	27 JAN 96	01 FEB 96
Chromium	30.6		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Selenium	ND		1.0	0.25	mg/L	6010A	27 JAN 96	01 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027053-001/C2 8 74) (04652)
Lab ID: 046946-0001-SA
Matrix: SOLID
Authorized: 25 JAN 96

Sampled: 23 JAN 96
Prepared: See Below

Received: 25 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		2.0	1.0	mg/L	6010A	27 JAN 96	30 JAN 96
Barium	0.35	J	2.0	20.0	mg/L	6010A	27 JAN 96	30 JAN 96
Cadmium	ND		2.0	0.20	mg/L	6010A	27 JAN 96	30 JAN 96
Chromium	ND		2.0	1.0	mg/L	6010A	27 JAN 96	30 JAN 96
Lead	ND		2.0	1.0	mg/L	6010A	27 JAN 96	30 JAN 96
Selenium	0.23	J	2.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Silver	ND		2.0	1.0	mg/L	6010A	27 JAN 96	30 JAN 96
Mercury	0.000087	J	1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027039-001/C3 6 74) (04650)
Lab ID: 046926-0001-SA
Matrix: SOLID
Authorized: 24 JAN 96

Sampled: 19 JAN 96
Prepared: See Below

Received: 24 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Barium	0.32	J	1.0	10.0	mg/L	6010A	27 JAN 96	01 FEB 96
Cadmium	ND		1.0	0.10	mg/L	6010A	27 JAN 96	01 FEB 96
Chromium	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Selenium	0.13	J	1.0	0.25	mg/L	6010A	27 JAN 96	01 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027040-001/C3 8 74) (04650)
Lab ID: 046926-0002-SA
Matrix: SOLID
Authorized: 24 JAN 96

Sampled: 19 JAN 96
Prepared: See Below

Received: 24 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		2.0	1.0	mg/L	6010A	27 JAN 96	01 FEB 96
Barium	0.46	J	2.0	20.0	mg/L	6010A	27 JAN 96	01 FEB 96
Cadmium	0.011	J	2.0	0.20	mg/L	6010A	27 JAN 96	01 FEB 96
Chromium	0.031	J	2.0	1.0	mg/L	6010A	27 JAN 96	01 FEB 96
Lead	ND		2.0	1.0	mg/L	6010A	27 JAN 96	01 FEB 96
Selenium	0.27	J	2.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Silver	ND		2.0	1.0	mg/L	6010A	27 JAN 96	01 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027041-001/C3 10 74) (04650)
Lab ID: 046926-0003-SA
Matrix: SOLID
Authorized: 24 JAN 96

Sampled: 19 JAN 96
Prepared: See Below

Received: 24 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Barium	0.53	J	1.0	10.0	mg/L	6010A	27 JAN 96	01 FEB 96
Cadmium	ND		1.0	0.10	mg/L	6010A	27 JAN 96	01 FEB 96
Chromium	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Selenium	0.12	J	1.0	0.25	mg/L	6010A	27 JAN 96	01 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027041-011/C3 10 74) (04650)
Lab ID: 046926-0007-SA
Matrix: SOLID
Authorized: 24 JAN 96

Sampled: 19 JAN 96
Prepared: See Below

Received: 24 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	02 FEB 96
Barium	0.50	J	1.0	10.0	mg/L	6010A	27 JAN 96	02 FEB 96
Cadmium	ND		1.0	0.10	mg/L	6010A	27 JAN 96	02 FEB 96
Chromium	ND		1.0	0.50	mg/L	6010A	27 JAN 96	02 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	02 FEB 96
Selenium	0.10	J	1.0	0.25	mg/L	6010A	27 JAN 96	02 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	02 FEB 96
Mercury	0.000097	J	1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027042-001/C3 12 74) (04650)
Lab ID: 046926-0004-SA
Matrix: SOLID
Authorized: 24 JAN 96

Sampled: 19 JAN 96
Prepared: See Below

Received: 24 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Barium	0.61	J	1.0	10.0	mg/L	6010A	27 JAN 96	01 FEB 96
Cadmium	ND		1.0	0.10	mg/L	6010A	27 JAN 96	01 FEB 96
Chromium	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Selenium	0.088	J	1.0	0.25	mg/L	6010A	27 JAN 96	01 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

t Name: Sandia National Laboratory
Client ID: (027043-001/C3 14 74) (04650)
Lab ID: 046926-0005-SA
Matrix: SOLID
Authorized: 24 JAN 96

Sampled: 19 JAN 96
Prepared: See Below

Received: 24 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Barium	0.15	J	1.0	10.0	mg/L	6010A	27 JAN 96	01 FEB 96
Cadmium	0.014	J	1.0	0.10	mg/L	6010A	27 JAN 96	01 FEB 96
Chromium	26.9		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Selenium	0.091	J	1.0	0.25	mg/L	6010A	27 JAN 96	01 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Mercury	0.000076	J	1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027044-001/C3 16 74) (04650)
Lab ID: 046926-0006-SA
Matrix: SOLID
Authorized: 24 JAN 96

Sampled: 19 JAN 96
Prepared: See Below

Received: 24 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		2.0	1.0	mg/L	6010A	27 JAN 96	01 FEB 96
Barium	0.78	J	2.0	20.0	mg/L	6010A	27 JAN 96	01 FEB 96
Cadmium	0.22		2.0	0.20	mg/L	6010A	27 JAN 96	01 FEB 96
Chromium	9.1		2.0	1.0	mg/L	6010A	27 JAN 96	01 FEB 96
Lead	ND		2.0	1.0	mg/L	6010A	27 JAN 96	01 FEB 96
Selenium	0.20	J	2.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Silver	ND		2.0	1.0	mg/L	6010A	27 JAN 96	01 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027033-001/C5-6 6 74) (04649)
Lab ID: 046932-0001-SA
Matrix: SOLID
Authorized: 24 JAN 96

Sampled: 18 JAN 96
Prepared: See Below

Received: 24 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		2.0	1.0	mg/L	6010A	27 JAN 96	01 FEB 96
Barium	0.38	J	2.0	20.0	mg/L	6010A	27 JAN 96	01 FEB 96
Cadmium	0.071	J	2.0	0.20	mg/L	6010A	27 JAN 96	01 FEB 96
Chromium	ND		2.0	1.0	mg/L	6010A	27 JAN 96	01 FEB 96
Lead	ND		2.0	1.0	mg/L	6010A	27 JAN 96	01 FEB 96
Selenium	0.13	J	2.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Silver	ND		2.0	1.0	mg/L	6010A	27 JAN 96	01 FEB 96
Mercury	0.0083		6.8	0.0014	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027034-001/C5 8 74) (04649)
Lab ID: 046932-0002-SA
Matrix: SOLID
Authorized: 24 JAN 96

Sampled: 18 JAN 96
Prepared: See Below

Received: 24 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Barium	0.44	J	1.0	10.0	mg/L	6010A	27 JAN 96	01 FEB 96
Cadmium	0.033	J	1.0	0.10	mg/L	6010A	27 JAN 96	01 FEB 96
Chromium	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Selenium	0.082	J	1.0	0.25	mg/L	6010A	27 JAN 96	01 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Mercury	0.0084		6.8	0.0014	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027035-001/C5 10 74) (04649)
Lab ID: 046932-0003-SA
Matrix: SOLID
Authorized: 24 JAN 96

Sampled: 18 JAN 96
Prepared: See Below

Received: 24 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Barium	0.59	J	1.0	10.0	mg/L	6010A	27 JAN 96	01 FEB 96
Cadmium	0.030	J	1.0	0.10	mg/L	6010A	27 JAN 96	01 FEB 96
Chromium	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Selenium	0.090	J	1.0	0.25	mg/L	6010A	27 JAN 96	01 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Mercury	0.00044		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027035-011/C5 10 74) (04649)
Lab ID: 046932-0004-SA
Matrix: SOLID
Authorized: 24 JAN 96

Sampled: 18 JAN 96
Prepared: See Below

Received: 24 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Barium	0.71	J	1.0	10.0	mg/L	6010A	27 JAN 96	01 FEB 96
Cadmium	0.039	J	1.0	0.10	mg/L	6010A	27 JAN 96	01 FEB 96
Chromium	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Selenium	0.13	J	1.0	0.25	mg/L	6010A	27 JAN 96	01 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Mercury	0.00025		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027036-001/C5 12 74) (04649)
Lab ID: 046932-0005-SA
Matrix: SOLID
Authorized: 24 JAN 96

Sampled: 18 JAN 96
Prepared: See Below

Received: 24 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Barium	0.63	J	1.0	10.0	mg/L	6010A	27 JAN 96	01 FEB 96
Cadmium	0.0061	J	1.0	0.10	mg/L	6010A	27 JAN 96	01 FEB 96
Chromium	0.14	J	1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Selenium	0.16	J	1.0	0.25	mg/L	6010A	27 JAN 96	01 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Mercury	0.00011	J	1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027037-001/C5 14 74) (04649)
Lab ID: 046932-0006-SA
Matrix: SOLID
Authorized: 24 JAN 96

Sampled: 18 JAN 96
Prepared: See Below

Received: 24 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Barium	0.61	J	1.0	10.0	mg/L	6010A	27 JAN 96	01 FEB 96
Cadmium	0.016	J	1.0	0.10	mg/L	6010A	27 JAN 96	01 FEB 96
Chromium	0.31	J	1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Selenium	0.11	J	1.0	0.25	mg/L	6010A	27 JAN 96	01 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Mercury	0.00011	J	1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

nt Name: Sandia National Laboratory
Client ID: (027038-001/C5 16 74) (04649)
Lab ID: 046932-0007-SA
Matrix: SOLID
Authorized: 24 JAN 96

Sampled: 18 JAN 96
Prepared: See Below

Received: 24 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		2.0	1.0	mg/L	6010A	27 JAN 96	01 FEB 96
Barium	0.57	J	2.0	20.0	mg/L	6010A	27 JAN 96	01 FEB 96
Cadmium	ND		2.0	0.20	mg/L	6010A	27 JAN 96	01 FEB 96
Chromium	2.9		2.0	1.0	mg/L	6010A	27 JAN 96	01 FEB 96
Lead	ND		2.0	1.0	mg/L	6010A	27 JAN 96	01 FEB 96
Selenium	0.16	J	2.0	0.50	mg/L	6010A	27 JAN 96	01 FEB 96
Silver	ND		2.0	1.0	mg/L	6010A	27 JAN 96	01 FEB 96
Mercury	0.00011	J	1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026991-001/NT3 7.5 74) (04559)
Lab ID: 046528-0003-SA Sampled: 19 DEC 95 Leached: 09 JAN 96
Matrix: SOIL Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Barium	0.17	mg/L	10.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	0.048	mg/L	0.10	6010A	11 JAN 96	11 JAN 96	J
Chromium	9.2	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Mercury	0.00051	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.17	mg/L	0.25	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026992-001/NT3 10 74) (04559)
Lab ID: 046528-0006-SA Sampled: 19 DEC 95 Leached: 09 JAN 96
Matrix: SOIL Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Barium	0.25	mg/L	10.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	0.018	mg/L	0.10	6010A	11 JAN 96	11 JAN 96	J
Chromium	5.6	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Mercury	0.00014	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	J
Selenium	0.15	mg/L	0.25	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026993-001/NT3 12.5 74) (04559)
Lab ID: 046528-0009-SA Sampled: 19 DEC 95 Leached: 09 JAN 96
Matrix: SOIL Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Barium	0.24	mg/L	10.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	0.023	mg/L	0.10	6010A	11 JAN 96	11 JAN 96	J
Chromium	7.1	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.20	mg/L	0.25	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026994-001/NT3 15 74) (04559)
Lab ID: 046528-0010-SA — Sampled: 19 DEC 95 — Leached: 09 JAN 96
Matrix: SOIL — Received: 21 DEC 95 — Prepared: See Below
Authorized: 21 DEC 95 — Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Barium	0.23	mg/L	10.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	0.032	mg/L	0.10	6010A	11 JAN 96	11 JAN 96	J
Chromium	12.1	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.18	mg/L	0.25	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

eported By: Doug Gomer — Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026995-001/NT3 17.5 74) (04559)
Lab ID: 046528-0011-SA — Sampled: 19 DEC 95 — Leached: 09 JAN 96
Matrix: SOIL — Received: 21 DEC 95 — Prepared: See Below
Authorized: 21 DEC 95 — Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Barium	0.27	mg/L	10.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	0.051	mg/L	0.10	6010A	11 JAN 96	11 JAN 96	J
Chromium	5.0	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.15	mg/L	0.25	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer — Approved By: Richard Persichitte

Quanterra Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026996-001/NT3 20 74) (04559)
Lab ID: 046528-0012-SA Sampled: 19 DEC 95 Leached: 09 JAN 96
Matrix: SOIL Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Barium	0.36	mg/L	10.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	ND	mg/L	0.10	6010A	11 JAN 96	11 JAN 96	
Chromium	1.8	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.12	mg/L	0.25	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Quanterra Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026997-001/NT3 22.5 74) (04559)
Lab ID: 046528-0013-SA Sampled: 19 DEC 95 Leached: 09 JAN 96
Matrix: SOIL Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Barium	0.28	mg/L	10.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	0.023	mg/L	0.10	6010A	11 JAN 96	11 JAN 96	J
Chromium	7.2	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.17	mg/L	0.25	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Quanterra Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026998-001/NT3 25 74) (04559)
Lab ID: 046528-0014-SA Sampled: 19 DEC 95 Leached: 09 JAN 96
Matrix: SOIL Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Barium	0.22	mg/L	10.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	ND	mg/L	0.10	6010A	11 JAN 96	11 JAN 96	
Chromium	1.9	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.11	mg/L	0.25	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Quanterra Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026999-001/NT3 30 74) (04559)
Lab ID: 046528-0015-SA — Sampled: 19 DEC 95 — Leached: 09 JAN 96
Matrix: SOIL — Received: 21 DEC 95 — Prepared: See Below
Authorized: 21 DEC 95 — Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Barium	0.66	mg/L	10.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	0.013	mg/L	0.10	6010A	11 JAN 96	11 JAN 96	J
Chromium	5.8	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00040	7470	11 JAN 96	11 JAN 96	
Selenium	0.14	mg/L	0.25	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer — Approved By: Richard Persichitte

Quanterra Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027000-001/NT3 35 74) (04559)
Lab ID: 046528-0016-SA Sampled: 19 DEC 95 Leached: 09 JAN 96
Matrix: SOIL Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Barium	0.30	mg/L	10.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	ND	mg/L	0.10	6010A	11 JAN 96	11 JAN 96	
Chromium	2.5	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.16	mg/L	0.25	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Quanterra Environmental Services

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027001-001/NT3 40 74) (04559)
Lab ID: 046528-0017-SA Sampled: 19 DEC 95 Leached: 09 JAN 96
Matrix: SOIL Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Barium	0.39	mg/L	10.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	ND	mg/L	0.10	6010A	11 JAN 96	11 JAN 96	
Chromium	5.1	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.15	mg/L	0.25	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

,t Name:	Sandia National Laboratory		
Client ID:	(027112-001/CF4 6 74) (04730)		
Lab ID:	047158-0007-SA		
Matrix:	SOLID	Sampled: 06 FEB 96	Received: 08 FEB 96
Authorized:	08 FEB 96	Prepared: See Below	Analyzed: See Below
			Leached: 12 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		2.0	1.0	mg/L	6010A	22 FEB 96	23 FEB 96
Barium	0.66	J	2.0	20.0	mg/L	6010A	22 FEB 96	23 FEB 96
Cadmium	ND		2.0	0.20	mg/L	6010A	22 FEB 96	23 FEB 96
Chromium	6.3		2.0	1.0	mg/L	6010A	22 FEB 96	23 FEB 96
Lead	ND		2.0	1.0	mg/L	6010A	22 FEB 96	23 FEB 96
Selenium	0.36	J	2.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Silver	ND		2.0	1.0	mg/L	6010A	22 FEB 96	23 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	28 FEB 96	29 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027113-001/CF4 8 74) (04730)
Lab ID: 047158-0008-SA
Matrix: SOLID
Authorized: 08 FEB 96

Sampled: 06 FEB 96
Prepared: See Below

Received: 08 FEB 96
Analyzed: See Below
Leached: 12 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Barium	0.28	J	1.0	10.0	mg/L	6010A	22 FEB 96	23 FEB 96
Cadmium	0.12		1.0	0.10	mg/L	6010A	22 FEB 96	23 FEB 96
Chromium	13.0		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Selenium	0.18	J	1.0	0.25	mg/L	6010A	22 FEB 96	23 FEB 96
Silver	0.0038	J	1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Mercury	0.00016	J	1.0	0.00020	mg/L	7470	28 FEB 96	29 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027115-001/CF4 10 74) (04730)
Lab ID: 047158-0009-SA
Matrix: SOLID
Authorized: 08 FEB 96

Sampled: 06 FEB 96
Prepared: See Below

Received: 08 FEB 96
Analyzed: See Below
Leached: 12 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		2.0	1.0	mg/L	6010A	22 FEB 96	23 FEB 96
Barium	0.11	J	2.0	20.0	mg/L	6010A	22 FEB 96	23 FEB 96
Cadmium	0.25		2.0	0.20	mg/L	6010A	22 FEB 96	23 FEB 96
Chromium	49.3		2.0	1.0	mg/L	6010A	22 FEB 96	23 FEB 96
Lead	ND		2.0	1.0	mg/L	6010A	22 FEB 96	23 FEB 96
Selenium	0.37	J	2.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Silver	0.0065	J	2.0	1.0	mg/L	6010A	22 FEB 96	23 FEB 96
Mercury	0.0049		6.8	0.0014	mg/L	7470	28 FEB 96	29 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027116-001/CF4 12 74) (04730)
Lab ID: 047158-0010-SA
Matrix: SOLID
Authorized: 08 FEB 96

Sampled: 06 FEB 96
Prepared: See Below

Received: 08 FEB 96
Analyzed: See Below
Leached: 12 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Barium	0.18	J	1.0	10.0	mg/L	6010A	22 FEB 96	23 FEB 96
Cadmium	0.035	J	1.0	0.10	mg/L	6010A	22 FEB 96	23 FEB 96
Chromium	8.7		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Selenium	0.15	J	1.0	0.25	mg/L	6010A	22 FEB 96	23 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	28 FEB 96	29 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027116-011/CF4 12 74) (04730)
Lab ID: 047158-0011-SA
Matrix: SOLID
Authorized: 08 FEB 96

Sampled: 06 FEB 96
Prepared: See Below

Received: 08 FEB 96
Analyzed: See Below
Leached: 12 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Barium	0.21	J	1.0	10.0	mg/L	6010A	22 FEB 96	23 FEB 96
Cadmium	0.037	J	1.0	0.10	mg/L	6010A	22 FEB 96	23 FEB 96
Chromium	8.5		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Selenium	0.18	J	1.0	0.25	mg/L	6010A	22 FEB 96	23 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	28 FEB 96	29 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

t Name: Sandia National Laboratory
Client ID: (027117-001/CF4 14 74) (04730)
Lab ID: 047158-0012-SA
Matrix: SOLID
Authorized: 08 FEB 96

Sampled: 06 FEB 96
Prepared: See Below

Received: 08 FEB 96
Analyzed: See Below
Leached: 12 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Barium	0.45	J	1.0	10.0	mg/L	6010A	22 FEB 96	23 FEB 96
Cadmium	0.0076	J	1.0	0.10	mg/L	6010A	22 FEB 96	23 FEB 96
Chromium	1.0		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Selenium	0.19	J	1.0	0.25	mg/L	6010A	22 FEB 96	23 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	28 FEB 96	29 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027107-001/A1 6 74) (04730)
Lab ID: 047158-0001-SA
Matrix: SOLID
Authorized: 08 FEB 96

Sampled: 06 FEB 96
Prepared: See Below

Received: 08 FEB 96
Analyzed: See Below
Leached: 12 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Barium	0.41	J	1.0	10.0	mg/L	6010A	22 FEB 96	23 FEB 96
Cadmium	ND		1.0	0.10	mg/L	6010A	22 FEB 96	23 FEB 96
Chromium	0.036	J	1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Selenium	0.19	J	1.0	0.25	mg/L	6010A	22 FEB 96	23 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	28 FEB 96	29 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

t Name: Sandia National Laboratory
Client ID: (027108-001/A1 8 74) (04730)
Lab ID: 047158-0002-SA
Matrix: SOLID
Authorized: 08 FEB 96

Sampled: 06 FEB 96
Prepared: See Below

Received: 08 FEB 96
Analyzed: See Below
Leached: 12 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Barium	0.14	J	1.0	10.0 -	mg/L	6010A	22 FEB 96	23 FEB 96
Cadmium	ND		1.0	0.10	mg/L	6010A	22 FEB 96	23 FEB 96
Chromium	0.64		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Selenium	0.12	J	1.0	0.25	mg/L	6010A	22 FEB 96	23 FEB 96
Silver	0.017	J	1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	28 FEB 96	29 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

t Name: Sandia National Laboratory
Client ID: (027109-001/A1 10 74) (04730)
Lab ID: 047158-0003-SA
Matrix: SOLID
Authorized: 08 FEB 96

Sampled: 06 FEB 96
Prepared: See Below

Received: 08 FEB 96
Analyzed: See Below
Leached: 12 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Barium	0.078	J	1.0	10.0	mg/L	6010A	22 FEB 96	23 FEB 96
Cadmium	0.43		1.0	0.10	mg/L	6010A	22 FEB 96	23 FEB 96
Chromium	20.8		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Selenium	0.21	J	1.0	0.25	mg/L	6010A	22 FEB 96	23 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	28 FEB 96	29 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

:t Name: Sandia National Laboratory
Client ID: (027110-001/A1 12 74) (04730)
Lab ID: 047158-0004-SA
Matrix: SOLID
Authorized: 08 FEB 96

Sampled: 06 FEB 96
Prepared: See Below

Received: 08 FEB 96
Analyzed: See Below
Leached: 12 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Barium	0.40	J	1.0	10.0	mg/L	6010A	22 FEB 96	23 FEB 96
Cadmium	ND		1.0	0.10	mg/L	6010A	22 FEB 96	23 FEB 96
Chromium	0.52		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Selenium	0.13	J	1.0	0.25	mg/L	6010A	22 FEB 96	23 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	28 FEB 96	29 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027111-001/A1 17 74) (04730)
Lab ID: 047158-0005-SA
Matrix: SOLID
Authorized: 08 FEB 96

Sampled: 06 FEB 96
Prepared: See Below

Received: 08 FEB 96
Analyzed: See Below
Leached: 12 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Barium	0.28	J	1.0	10.0	mg/L	6010A	22 FEB 96	23 FEB 96
Cadmium	0.010	J	1.0	0.10	mg/L	6010A	22 FEB 96	23 FEB 96
Chromium	12.5		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Selenium	0.16	J	1.0	0.25	mg/L	6010A	22 FEB 96	23 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	28 FEB 96	29 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027081-001/A2 7.5 74) (04587)
Lab ID: 047025-0007-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 26 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.20	J	1.0	10.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	ND		1.0	0.10	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	0.043	J	1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.17	J	1.0	0.25	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027082-001/A2 10 74) (04587)
Lab ID: 047025-0008-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 26 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.063	J	1.0	10.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	0.010	J	1.0	0.10	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	3.0		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.16	J	1.0	0.25	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027083-001/A2 12.5 74) (04587)
Lab ID: 047025-0009-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 26 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.059	J	1.0	10.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	ND		1.0	0.10	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	1.8		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.15	J	1.0	0.25	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027084-001/A2 15 74) (04587)
Lab ID: 047025-0010-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 26 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.072	J	1.0	10.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	ND		1.0	0.10	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	1.9		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.16	J	1.0	0.25	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

..ent Name: Sandia National Laboratory
Client ID: (027085-001/A2 17.5 74) (04587)
Lab ID: 047025-0011-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 26 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.32	J	1.0	10.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	0.0088	J	1.0	0.10	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	8.1		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.17	J	1.0	0.25	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	0.0034	J	1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027086-001/A2 20 74) (04587)
Lab ID: 047025-0012-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 26 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.36	J	1.0	10.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	0.0084	J	1.0	0.10	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	1.0		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.22	J	1.0	0.25	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027087-001/A2 22.5 74) (04587)
Lab ID: 047025-0013-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 26 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.21	J	1.0	10.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	ND		1.0	0.10	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	3.0		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.16	J	1.0	0.25	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027087-011/A2 22.5 74) (04587)
Lab ID: 047025-0014-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 26 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.32	J	2.0	20.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	ND		2.0	0.20	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	3.2		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.23	J	2.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027088-001/A2 25 74) (04587)
Lab ID: 047025-0015-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 26 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.37	J	1.0	10.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	ND		1.0	0.10	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	0.84		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.17	J	1.0	0.25	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027089-001/A2 30 74) (04587)
Lab ID: 047025-0016-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 26 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.53	J	2.0	20.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	ND		2.0	0.20	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	1.5		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.39	J	2.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027090-001/A3 6 74) (04728)
Lab ID: 047086-0001-SA
Matrix: SOLID
Authorized: 03 FEB 96

Sampled: 01 FEB 96
Prepared: See Below

Received: 03 FEB 96
Analyzed: See Below
Leached: 07 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	08 FEB 96	09 FEB 96
Barium	0.47	J	1.0	10.0	mg/L	6010A	08 FEB 96	09 FEB 96
Cadmium	ND		1.0	0.10	mg/L	6010A	08 FEB 96	09 FEB 96
Chromium	ND		1.0	0.50	mg/L	6010A	08 FEB 96	09 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	08 FEB 96	09 FEB 96
Selenium	0.14	J	1.0	0.25	mg/L	6010A	08 FEB 96	09 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	08 FEB 96	09 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	12 FEB 96	12 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027091-001/A3 8 74) (04728)
Lab ID: 047086-0002-SA
Matrix: SOLID
Authorized: 03 FEB 96

Sampled: 01 FEB 96
Prepared: See Below

Received: 03 FEB 96
Analyzed: See Below
Leached: 07 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		2.0	1.0	mg/L	6010A	08 FEB 96	09 FEB 96
Barium	0.31	J	2.0	20.0	mg/L	6010A	08 FEB 96	09 FEB 96
Cadmium	ND		2.0	0.20	mg/L	6010A	08 FEB 96	09 FEB 96
Chromium	3.3		2.0	1.0	mg/L	6010A	08 FEB 96	09 FEB 96
Lead	ND		2.0	1.0	mg/L	6010A	08 FEB 96	09 FEB 96
Selenium	0.28	J	2.0	0.50	mg/L	6010A	08 FEB 96	09 FEB 96
Silver	ND		2.0	1.0	mg/L	6010A	08 FEB 96	09 FEB 96
Mercury	0.00014	J	1.0	0.00020	mg/L	7470	12 FEB 96	12 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Metals
TCLP Leachate

Client Name:	Sandia National Laboratory		
Client ID:	(027092-001/A3 10 74) (04728)		
Lab ID:	047086-0003-SA		
Matrix:	SOLID	Sampled: 01 FEB 96	Received: 03 FEB 96
Authorized:	03 FEB 96	Prepared: See Below	Analyzed: See Below
			Leached: 07 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		2.0	1.0	mg/L	6010A	08 FEB 96	09 FEB 96
Barium	0.077	J	2.0	20.0	mg/L	6010A	08 FEB 96	09 FEB 96
Cadmium	0.088	J	2.0	0.20	mg/L	6010A	08 FEB 96	09 FEB 96
Chromium	17.8		2.0	1.0	mg/L	6010A	08 FEB 96	09 FEB 96
Lead	ND		2.0	1.0	mg/L	6010A	08 FEB 96	09 FEB 96
Selenium	0.29	J	2.0	0.50	mg/L	6010A	08 FEB 96	09 FEB 96
Silver	ND		2.0	1.0	mg/L	6010A	08 FEB 96	09 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	12 FEB 96	12 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Metals
TCLP Leachate

.it Name: Sandia National Laboratory
Client ID: (027093-001/A3 12 74) (04728)
Lab ID: 047086-0004-SA
Matrix: SOLID
Authorized: 03 FEB 96

Sampled: 01 FEB 96
Prepared: See Below

Received: 03 FEB 96
Analyzed: See Below
Leached: 07 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	08 FEB 96	09 FEB 96
Barium	0.14	J	1.0	10.0	mg/L	6010A	08 FEB 96	09 FEB 96
Cadmium	0.045	J	1.0	0.10	mg/L	6010A	08 FEB 96	09 FEB 96
Chromium	20.8		1.0	0.50	mg/L	6010A	08 FEB 96	09 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	08 FEB 96	09 FEB 96
Selenium	0.11	J	1.0	0.25	mg/L	6010A	08 FEB 96	09 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	08 FEB 96	09 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	12 FEB 96	12 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027093-011/A3 12 74) (04728)
Lab ID: 047086-0005-SA
Matrix: SOLID
Authorized: 03 FEB 96

Sampled: 01 FEB 96
Prepared: See Below

Received: 03 FEB 96
Analyzed: See Below
Leached: 07 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	08 FEB 96	09 FEB 96
Barium	0.15	J	1.0	10.0	mg/L	6010A	08 FEB 96	09 FEB 96
Cadmium	0.041	J	1.0	0.10	mg/L	6010A	08 FEB 96	09 FEB 96
Chromium	19.5		1.0	0.50	mg/L	6010A	08 FEB 96	09 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	08 FEB 96	09 FEB 96
Selenium	0.15	J	1.0	0.25	mg/L	6010A	08 FEB 96	09 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	08 FEB 96	09 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	12 FEB 96	12 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027094-001/A3 14 74) (04728)
Lab ID: 047086-0006-SA
Matrix: SOLID
Authorized: 03 FEB 96

Sampled: 01 FEB 96
Prepared: See Below

Received: 03 FEB 96
Analyzed: See Below
Leached: 07 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	08 FEB 96	09 FEB 96
Barium	0.17	J	1.0	10.0	mg/L	6010A	08 FEB 96	09 FEB 96
Cadmium	0.028	J	1.0	0.10	mg/L	6010A	08 FEB 96	09 FEB 96
Chromium	33.7		1.0	0.50	mg/L	6010A	08 FEB 96	09 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	08 FEB 96	09 FEB 96
Selenium	0.14	J	1.0	0.25	mg/L	6010A	08 FEB 96	09 FEB 96
Silver	0.0053	J	1.0	0.50	mg/L	6010A	08 FEB 96	09 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	12 FEB 96	12 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027095-001/A3 16 74) (04728)
Lab ID: 047086-0007-SA
Matrix: SOLID
Authorized: 03 FEB 96

Sampled: 01 FEB 96
Prepared: See Below

Received: 03 FEB 96
Analyzed: See Below
Leached: 07 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		2.0	1.0	mg/L	6010A	08 FEB 96	09 FEB 96
Barium	0.031	J	2.0	20.0	mg/L	6010A	08 FEB 96	09 FEB 96
Cadmium	0.015	J	2.0	0.20	mg/L	6010A	08 FEB 96	09 FEB 96
Chromium	91.9		2.0	1.0	mg/L	6010A	08 FEB 96	09 FEB 96
Lead	ND		2.0	1.0	mg/L	6010A	08 FEB 96	09 FEB 96
Selenium	0.19	J	2.0	0.50	mg/L	6010A	08 FEB 96	09 FEB 96
Silver	0.0064	J	2.0	1.0	mg/L	6010A	08 FEB 96	09 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	12 FEB 96	12 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027096-001/A5 6 74 (04729)
Lab ID: 047155-0001-SA
Matrix: SOLID
Authorized: 08 FEB 96

Sampled: 05 FEB 96
Prepared: See Below

Received: 08 FEB 96
Analyzed: See Below
Leached: 12 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		2.0	1.0	mg/L	6010A	22 FEB 96	23 FEB 96
Barium	0.68	J	2.0	20.0	mg/L	6010A	22 FEB 96	23 FEB 96
Cadmium	ND		2.0	0.20	mg/L	6010A	22 FEB 96	23 FEB 96
Chromium	0.38	J	2.0	1.0	mg/L	6010A	22 FEB 96	23 FEB 96
Lead	ND		2.0	1.0	mg/L	6010A	22 FEB 96	23 FEB 96
Selenium	0.32	J	2.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Silver	ND		2.0	1.0	mg/L	6010A	22 FEB 96	23 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	28 FEB 96	29 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

ıt Name:	Sandia National Laboratory		
Client ID:	(027097-001/A5 8 74 (04729)		
Lab ID:	047155-0002-SA		
Matrix:	SOLID	Sampled: 05 FEB 96	Received: 08 FEB 96
Authorized:	08 FEB 96	Prepared: See Below	Analyzed: See Below
			Leached: 12 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Barium	0.31	J	1.0	10.0	mg/L	6010A	22 FEB 96	23 FEB 96
Cadmium	ND		1.0	0.10	mg/L	6010A	22 FEB 96	23 FEB 96
Chromium	2.5		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Lead	0.34	J	1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Selenium	0.17	J	1.0	0.25	mg/L	6010A	22 FEB 96	23 FEB 96
Silver	0.11	J	1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Mercury	0.00088		1.0	0.00020	mg/L	7470	28 FEB 96	29 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027098-001/A5 10 74 (04729)
Lab ID: 047155-0003-SA
Matrix: SOLID
Authorized: 08 FEB 96

Sampled: 05 FEB 96
Prepared: See Below

Received: 08 FEB 96
Analyzed: See Below
Leached: 12 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		2.0	1.0	mg/L	6010A	22 FEB 96	23 FEB 96
Barium	0.076	J	2.0	20.0	mg/L	6010A	22 FEB 96	23 FEB 96
Cadmium	0.054	J	2.0	0.20	mg/L	6010A	22 FEB 96	23 FEB 96
Chromium	103		2.0	1.0	mg/L	6010A	22 FEB 96	23 FEB 96
Lead	ND		2.0	1.0	mg/L	6010A	22 FEB 96	23 FEB 96
Selenium	0.33	J	2.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Silver	ND		2.0	1.0	mg/L	6010A	22 FEB 96	23 FEB 96
Mercury	0.0022		2.7	0.00055	mg/L	7470	28 FEB 96	29 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027099-001/A5 12 74 (04729)
Lab ID: 047155-0004-SA
Matrix: SOLID
Authorized: 08 FEB 96

Sampled: 05 FEB 96
Prepared: See Below

Received: 08 FEB 96
Analyzed: See Below
Leached: 12 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Barium	0.22	J	1.0	10.0	mg/L	6010A	22 FEB 96	23 FEB 96
Cadmium	0.17		1.0	0.10	mg/L	6010A	22 FEB 96	23 FEB 96
Chromium	19.5		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Selenium	0.20	J	1.0	0.25	mg/L	6010A	22 FEB 96	23 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	28 FEB 96	29 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

nt Name: Sandia National Laboratory
Client ID: (027099-011/A5 12 74 (04729)
Lab ID: 047155-0006-SA DUP
Matrix: SOLID
Authorized: 08 FEB 96

Sampled: 05 FEB 96
Prepared: See Below

Received: 08 FEB 96
Analyzed: See Below
Leached: 12 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Barium	0.21	J	1.0	10.0	mg/L	6010A	22 FEB 96	23 FEB 96
Cadmium	0.16		1.0	0.10	mg/L	6010A	22 FEB 96	23 FEB 96
Chromium	20.8		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Selenium	ND		1.0	0.25	mg/L	6010A	22 FEB 96	23 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	28 FEB 96	29 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027100-001/A5 14 74 (04729)
Lab ID: 047155-0005-SA
Matrix: SOLID
Authorized: 08 FEB 96

Sampled: 05 FEB 96
Prepared: See Below

Received: 08 FEB 96
Analyzed: See Below
Leached: 12 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Barium	0.28	J	1.0	10.0	mg/L	6010A	22 FEB 96	23 FEB 96
Cadmium	0.10		1.0	0.10	mg/L	6010A	22 FEB 96	23 FEB 96
Chromium	7.4		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Selenium	ND		1.0	0.25	mg/L	6010A	22 FEB 96	23 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Mercury	0.00095		1.0	0.00020	mg/L	7470	28 FEB 96	29 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

nt Name: Sandia National Laboratory
Client ID: (027102-001/A5 16 74 (04729)
Lab ID: 047155-0007-SA
Matrix: SOLID
Authorized: 08 FEB 96

Sampled: 05 FEB 96
Prepared: See Below

Received: 08 FEB 96
Analyzed: See Below
Leached: 12 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Barium	0.23	J	1.0	10.0	mg/L	6010A	22 FEB 96	23 FEB 96
Cadmium	0.039	J	1.0	0.10	mg/L	6010A	22 FEB 96	23 FEB 96
Chromium	19.2		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Selenium	0.16	J	1.0	0.25	mg/L	6010A	22 FEB 96	23 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	22 FEB 96	23 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	28 FEB 96	29 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026981-001/NT6 7.5 74) (04561)
Lab ID: 046521-0001-SA
Matrix: SOLID

Sampled: 18 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 08 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Barium	0.072	mg/L	10.0	6010A	10 JAN 96	10 JAN 96	J
Cadmium	0.029	mg/L	0.10	6010A	10 JAN 96	10 JAN 96	J
Chromium	56.4	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Lead	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Mercury	0.016	mg/L	0.0027	7470	12 JAN 96	12 JAN 96	
Selenium	0.17	mg/L	0.25	6010A	10 JAN 96	10 JAN 96	J
Silver	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026982-001/NT6 10 74) (04561)
Lab ID: 046521-0002-SA
Matrix: SOLID

Sampled: 18 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 08 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Barium	0.14	mg/L	10.0	6010A	10 JAN 96	10 JAN 96	J
Cadmium	0.57	mg/L	0.10	6010A	10 JAN 96	10 JAN 96	
Chromium	8.7	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Lead	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Mercury	0.00049	mg/L	0.00021	7470	11 JAN 96	11 JAN 96	
Selenium	0.18	mg/L	0.25	6010A	10 JAN 96	10 JAN 96	J
Silver	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026983-001/NT6 12.5 74) (04561)
Lab ID: 046521-0003-SA Sampled: 18 DEC 95 Leached: 08 JAN 96
Matrix: SOLID Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Barium	0.21	mg/L	10.0	6010A	10 JAN 96	10 JAN 96	J
Cadmium	0.40	mg/L	0.10	6010A	10 JAN 96	10 JAN 96	
Chromium	4.0	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Lead	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Mercury	ND	mg/L	0.00022	7470	11 JAN 96	11 JAN 96	
Selenium	0.15	mg/L	0.25	6010A	10 JAN 96	10 JAN 96	J
Silver	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026984-001/NT6 12.5 74) (04561)
Lab ID: 046521-0004-SA Sampled: 18 DEC 95 Leached: 08 JAN 96
Matrix: SOLID Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Barium	0.21	mg/L	10.0	6010A	10 JAN 96	10 JAN 96	J
Cadmium	0.40	mg/L	0.10	6010A	10 JAN 96	10 JAN 96	
Chromium	3.5	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Lead	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.16	mg/L	0.25	6010A	10 JAN 96	10 JAN 96	J
Silver	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026985-001/NT6 15 74) (04561)
Lab ID: 046521-0005-SA
Matrix: SOLID

Sampled: 18 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 08 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Barium	0.33	mg/L	10.0	6010A	10 JAN 96	10 JAN 96	J
Cadmium	0.084	mg/L	0.10	6010A	10 JAN 96	10 JAN 96	J
Chromium	2.2	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Lead	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.17	mg/L	0.25	6010A	10 JAN 96	10 JAN 96	J
Silver	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026986-001/NT6 17.5 74) (04561)
Lab ID: 046521-0006-SA Sampled: 18 DEC 95 Leached: 08 JAN 96
Matrix: SOLID Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Barium	0.38	mg/L	10.0	6010A	10 JAN 96	10 JAN 96	J
Cadmium	0.0056	mg/L	0.10	6010A	10 JAN 96	10 JAN 96	J
Chromium	1.1	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Lead	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.24	mg/L	0.25	6010A	10 JAN 96	10 JAN 96	J
Silver	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026987-001/NT6 20 74) (04561)
Lab ID: 046521-0007-SA
Matrix: SOLID

Sampled: 18 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 08 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Barium	0.57	mg/L	10.0	6010A	10 JAN 96	10 JAN 96	J
Cadmium	0.0094	mg/L	0.10	6010A	10 JAN 96	10 JAN 96	J
Chromium	1.1	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Lead	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.17	mg/L	0.25	6010A	10 JAN 96	10 JAN 96	J
Silver	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026988-001/NT6 22.5 74) (04561)
Lab ID: 046521-0008-SA Sampled: 18 DEC 95 Leached: 08 JAN 96
Matrix: SOLID Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Arsenic	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96
Barium	0.20	mg/L	10.0	6010A	10 JAN 96	10 JAN 96 J
Cadmium	ND	mg/L	0.10	6010A	10 JAN 96	10 JAN 96
Chromium	4.0	mg/L	0.50	6010A	10 JAN 96	10 JAN 96
Lead	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96
Selenium	0.20	mg/L	0.25	6010A	10 JAN 96	10 JAN 96 J
Silver	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026989-001/NT6 25 74) (04561)
Lab ID: 046521-0009-SA
Matrix: SOLID

Sampled: 18 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 08 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Barium	0.24	mg/L	10.0	6010A	10 JAN 96	10 JAN 96	J
Cadmium	ND	mg/L	0.10	6010A	10 JAN 96	10 JAN 96	
Chromium	4.4	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Lead	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.17	mg/L	0.25	6010A	10 JAN 96	10 JAN 96	J
Silver	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (026990-001/NT6 30 74) (04561)
Lab ID: 046521-0010-SA
Matrix: SOLID

Sampled: 18 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 08 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Barium	0.24	mg/L	10.0	6010A	10 JAN 96	10 JAN 96	J
Cadmium	0.0056	mg/L	0.10	6010A	10 JAN 96	10 JAN 96	J
Chromium	4.0	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Lead	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.14	mg/L	0.25	6010A	10 JAN 96	10 JAN 96	J
Silver	ND	mg/L	0.50	6010A	10 JAN 96	10 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027012-001/NT7 7.5 74) (04585)
Lab ID: 046526-0001-SA
Matrix: SOIL

Sampled: 19 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 09 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Barium	0.36	mg/L	20.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	ND	mg/L	0.20	6010A	11 JAN 96	11 JAN 96	
Chromium	19.7	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.34	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027013-001/NT7 10 74) (04585)
Lab ID: 046526-0004-SA
Matrix: SOIL

Sampled: 19 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 09 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Barium	0.063	mg/L	20.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	0.20	mg/L	0.20	6010A	11 JAN 96	11 JAN 96	
Chromium	35.5	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Mercury	0.00071	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.33	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027014-001/NT7 12.5 74) (04585)
Lab ID: 046526-0007-SA
Matrix: SOIL

Sampled: 19 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 09 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96
Barium	0.13	mg/L	10.0	6010A	11 JAN 96	11 JAN 96 J
Cadmium	0.024	mg/L	0.10	6010A	11 JAN 96	11 JAN 96 J
Chromium	7.9	mg/L	0.50	6010A	11 JAN 96	11 JAN 96
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96
Selenium	0.19	mg/L	0.25	6010A	11 JAN 96	11 JAN 96 J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

eported By: Doug Gomer

Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027015-001/NT7 15 74) (04585)
Lab ID: 046526-0008-SA
Matrix: SOIL

Sampled: 19 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 09 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96
Barium	0.12	mg/L	10.0	6010A	11 JAN 96	11 JAN 96 J
Cadmium	0.042	mg/L	0.10	6010A	11 JAN 96	11 JAN 96 J
Chromium	10.7	mg/L	0.50	6010A	11 JAN 96	11 JAN 96
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96
Selenium	0.18	mg/L	0.25	6010A	11 JAN 96	11 JAN 96 J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027016-001/NT7 17.5 74) (04585)
Lab ID: 046526-0009-SA Sampled: 19 DEC 95 Leached: 09 JAN 96
Matrix: SOIL Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Barium	0.21	mg/L	10.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	0.011	mg/L	0.10	6010A	11 JAN 96	11 JAN 96	J
Chromium	7.3	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.16	mg/L	0.25	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027017-001/ NT7 20 74) (04585)
Lab ID: 046526-0010-SA Sampled: 19 DEC 95 Leached: 09 JAN 96
Matrix: SOIL Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Barium	0.20	mg/L	10.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	ND	mg/L	0.10	6010A	11 JAN 96	11 JAN 96	
Chromium	4.1	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.15	mg/L	0.25	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027018-001/NT7 22.5 74) (04585)
Lab ID: 046526-0011-SA Sampled: 19 DEC 95 Leached: 09 JAN 96
Matrix: SOIL Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Barium	0.29	mg/L	20.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	ND	mg/L	0.20	6010A	11 JAN 96	11 JAN 96	
Chromium	5.2	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.27	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027019-01/NT7 25 74) (04585)
Lab ID: 046526-0012-SA
Matrix: SOIL

Sampled: 19 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 09 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Barium	0.24	mg/L	10.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	ND	mg/L	0.10	6010A	11 JAN 96	11 JAN 96	
Chromium	5.2	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.19	mg/L	0.25	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027020-001/NT7 30 74) (04585)
Lab ID: 046526-0013-SA
Matrix: SOIL

Sampled: 19 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 09 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Barium	0.24	mg/L	10.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	ND	mg/L	0.10	6010A	11 JAN 96	11 JAN 96	
Chromium	7.5	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.17	mg/L	0.25	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

eported By: Doug Gomer

Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027021-001/NT7 35 74) (04585)
Lab ID: 046526-0014-SA Sampled: 19 DEC 95 Leached: 09 JAN 96
Matrix: SOIL Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Arsenic	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96
Barium	0.32	mg/L	10.0	6010A	11 JAN 96	11 JAN 96 J
Cadmium	ND	mg/L	0.10	6010A	11 JAN 96	11 JAN 96
Chromium	3.8	mg/L	0.50	6010A	11 JAN 96	11 JAN 96
Lead	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96
Selenium	0.11	mg/L	0.25	6010A	11 JAN 96	11 JAN 96 J
Silver	ND	mg/L	0.50	6010A	11 JAN 96	11 JAN 96

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027022-001/NT7 40 74) (04585)
Lab ID: 046526-0015-SA
Matrix: SOIL

Sampled: 19 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 09 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Barium	0.48	mg/L	20.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	ND	mg/L	0.20	6010A	11 JAN 96	11 JAN 96	
Chromium	6.8	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.33	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	J
Silver	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027023-001/NT8 7.5 74) (04586)
Lab ID: 046522-0001-SA
Matrix: SOLID

Sampled: 19 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 08 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	1.0	6010A	10 JAN 96	11 JAN 96	
Barium	0.28	mg/L	20.0	6010A	10 JAN 96	11 JAN 96	J
Cadmium	ND	mg/L	0.20	6010A	10 JAN 96	11 JAN 96	
Chromium	3.7	mg/L	1.0	6010A	10 JAN 96	11 JAN 96	
Lead	ND	mg/L	1.0	6010A	10 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.33	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	J
Silver	ND	mg/L	1.0	6010A	10 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027032-001/NT8 7.5 74) (04586)
Lab ID: 046522-0010-SA Sampled: 19 DEC 95 Leached: 08 JAN 96
Matrix: SOLID Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Barium	0.25	mg/L	10.0	6010A	10 JAN 96	11 JAN 96	J
Cadmium	0.0061	mg/L	0.10	6010A	10 JAN 96	11 JAN 96	J
Chromium	6.3	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.14	mg/L	0.25	6010A	10 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027024-001/NT8 10 74) (04586)
Lab ID: 046522-0002-SA
Matrix: SOLID

Sampled: 19 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 08 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	1.0	6010A	10 JAN 96	11 JAN 96	
Barium	0.062	mg/L	20.0	6010A	10 JAN 96	11 JAN 96	J
Cadmium	0.010	mg/L	0.20	6010A	10 JAN 96	11 JAN 96	J
Chromium	1.7	mg/L	1.0	6010A	10 JAN 96	11 JAN 96	
Lead	ND	mg/L	1.0	6010A	10 JAN 96	11 JAN 96	
Mercury	0.000062	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	J
Selenium	0.36	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	J
Silver	ND	mg/L	1.0	6010A	10 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027025-001/NT8 12.5 74) (04586)
Lab ID: 046522-0003-SA Sampled: 19 DEC 95 Leached: 09 JAN 96
Matrix: SOLID Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Barium	0.38	mg/L	20.0	6010A	11 JAN 96	11 JAN 96	J
Cadmium	0.012	mg/L	0.20	6010A	11 JAN 96	11 JAN 96	J
Chromium	6.0	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Lead	ND	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	
Mercury	0.00014	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	J
Selenium	0.26	mg/L	0.50	6010A	11 JAN 96	11 JAN 96	J
Silver	0.0083	mg/L	1.0	6010A	11 JAN 96	11 JAN 96	J

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027026-001/NT8 15 74) (04586)
Lab ID: 046522-0004-SA
Matrix: SOLID

Sampled: 19 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 08 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Barium	0.13	mg/L	10.0	6010A	10 JAN 96	11 JAN 96	J
Cadmium	0.14	mg/L	0.10	6010A	10 JAN 96	11 JAN 96	
Chromium	37.3	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Mercury	0.00019	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	J
Selenium	0.16	mg/L	0.25	6010A	10 JAN 96	11 JAN 96	J
Silver	0.0043	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	J

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027027-001/NT8 17.5 74) (04586)
Lab ID: 046522-0005-SA
Matrix: SOLID

Sampled: 19 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 08 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Barium	0.20	mg/L	10.0	6010A	10 JAN 96	11 JAN 96	J
Cadmium	0.016	mg/L	0.10	6010A	10 JAN 96	11 JAN 96	J
Chromium	5.3	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.16	mg/L	0.25	6010A	10 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027028-001/NT8 20 74) (04586)
Lab ID: 046522-0006-SA
Matrix: SOLID

Sampled: 19 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 08 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	1.0	6010A	10 JAN 96	11 JAN 96	
Barium	0.20	mg/L	20.0	6010A	10 JAN 96	11 JAN 96	J
Cadmium	0.13	mg/L	0.20	6010A	10 JAN 96	11 JAN 96	J
Chromium	18.7	mg/L	1.0	6010A	10 JAN 96	11 JAN 96	
Lead	ND	mg/L	1.0	6010A	10 JAN 96	11 JAN 96	
Mercury	0.00022	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.32	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	J
Silver	ND	mg/L	1.0	6010A	10 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027029-001/NT8 22.5 74) (04586)
Lab ID: 046522-0007-SA Sampled: 19 DEC 95 Leached: 08 JAN 96
Matrix: SOLID Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Barium	0.23	mg/L	10.0	6010A	10 JAN 96	11 JAN 96	J
Cadmium	ND	mg/L	0.10	6010A	10 JAN 96	11 JAN 96	
Chromium	3.0	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Mercury	0.000062	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	J
Selenium	0.14	mg/L	0.25	6010A	10 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027030-001/NT8 25 74) (04586)
Lab ID: 046522-0008-SA
Matrix: SOLID

Sampled: 19 DEC 95
Received: 21 DEC 95
Authorized: 21 DEC 95

Leached: 08 JAN 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Barium	0.25	mg/L	10.0	6010A	10 JAN 96	11 JAN 96	J
Cadmium	ND	mg/L	0.10	6010A	10 JAN 96	11 JAN 96	
Chromium	3.8	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Lead	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.12	mg/L	0.25	6010A	10 JAN 96	11 JAN 96	J
Silver	ND	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Metals

TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027031-001/NT8 30 74) (04586)
Lab ID: 046522-0009-SA Sampled: 19 DEC 95 Leached: 08 JAN 96
Matrix: SOLID Received: 21 DEC 95 Prepared: See Below
Authorized: 21 DEC 95 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	ND	mg/L	1.0	6010A	10 JAN 96	11 JAN 96	
Barium	0.16	mg/L	20.0	6010A	10 JAN 96	11 JAN 96	J
Cadmium	ND	mg/L	0.20	6010A	10 JAN 96	11 JAN 96	
Chromium	3.7	mg/L	1.0	6010A	10 JAN 96	11 JAN 96	
Lead	ND	mg/L	1.0	6010A	10 JAN 96	11 JAN 96	
Mercury	ND	mg/L	0.00020	7470	11 JAN 96	11 JAN 96	
Selenium	0.27	mg/L	0.50	6010A	10 JAN 96	11 JAN 96	J
Silver	ND	mg/L	1.0	6010A	10 JAN 96	11 JAN 96	

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027054-001/C6 6 74) (04652)
Lab ID: 046946-0002-SA
Matrix: SOLID
Authorized: 25 JAN 96

Sampled: 23 JAN 96
Prepared: See Below

Received: 25 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Barium	0.57	J	1.0	10.0	mg/L	6010A	27 JAN 96	30 JAN 96
Cadmium	ND		1.0	0.10	mg/L	6010A	27 JAN 96	30 JAN 96
Chromium	2.1		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Selenium	0.17	J	1.0	0.25	mg/L	6010A	27 JAN 96	30 JAN 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027055-001/C6 8 74) (04652)
Lab ID: 046946-0003-SA
Matrix: SOLID
Authorized: 25 JAN 96

Sampled: 23 JAN 96
Prepared: See Below

Received: 25 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Barium	0.54	J	1.0	10.0	mg/L	6010A	27 JAN 96	30 JAN 96
Cadmium	0.0070	J	1.0	0.10	mg/L	6010A	27 JAN 96	30 JAN 96
Chromium	0.37	J	1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Selenium	0.15	J	1.0	0.25	mg/L	6010A	27 JAN 96	30 JAN 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027056-001/C6 10 74) (04652)
Lab ID: 046946-0004-SA
Matrix: SOLID
Authorized: 25 JAN 96

Sampled: 23 JAN 96
Prepared: See Below

Received: 25 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Barium	0.43	J	1.0	10.0	mg/L	6010A	27 JAN 96	30 JAN 96
Cadmium	ND		1.0	0.10	mg/L	6010A	27 JAN 96	30 JAN 96
Chromium	0.0066	J	1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Selenium	0.13	J	1.0	0.25	mg/L	6010A	27 JAN 96	30 JAN 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027057-001/C6 12 74) (04652)
Lab ID: 046946-0005-SA
Matrix: SOLID
Authorized: 25 JAN 96

Sampled: 23 JAN 96
Prepared: See Below

Received: 25 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Barium	0.50	J	1.0	10.0	mg/L	6010A	27 JAN 96	30 JAN 96
Cadmium	0.0085	J	1.0	0.10	mg/L	6010A	27 JAN 96	30 JAN 96
Chromium	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Selenium	0.083	J	1.0	0.25	mg/L	6010A	27 JAN 96	30 JAN 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027058-001/C6 14 74) (04652)
Lab ID: 046946-0006-SA
Matrix: SOLID
Authorized: 25 JAN 96

Sampled: 23 JAN 96
Prepared: See Below

Received: 25 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Barium	0.40	J	1.0	10.0	mg/L	6010A	27 JAN 96	30 JAN 96
Cadmium	0.012	J	1.0	0.10	mg/L	6010A	27 JAN 96	30 JAN 96
Chromium	2.0		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Selenium	0.12	J	1.0	0.25	mg/L	6010A	27 JAN 96	30 JAN 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027058-011/C6 14 74) (04652)
Lab ID: 046946-0007-SA
Matrix: SOLID
Authorized: 25 JAN 96

Sampled: 23 JAN 96
Prepared: See Below

Received: 25 JAN 96
Analyzed: See Below
Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Barium	0.36	J	1.0	10.0	mg/L	6010A	27 JAN 96	30 JAN 96
Cadmium	0.013	J	1.0	0.10	mg/L	6010A	27 JAN 96	30 JAN 96
Chromium	2.2		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Selenium	0.17	J	1.0	0.25	mg/L	6010A	27 JAN 96	30 JAN 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Metals
TCLP Leachate

Client Name:	Sandia National Laboratory		
Client ID:	(027059-001/C6 16 74) (04652)		
Lab ID:	046946-0008-SA		
Matrix:	SOLID	Sampled: 23 JAN 96	Received: 25 JAN 96
Authorized:	25 JAN 96	Prepared: See Below	Analyzed: See Below
			Leached: 25 JAN 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Barium	0.68	J	1.0	10.0	mg/L	6010A	27 JAN 96	30 JAN 96
Cadmium	0.024	J	1.0	0.10	mg/L	6010A	27 JAN 96	30 JAN 96
Chromium	0.24	J	1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Lead	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Selenium	0.15	J	1.0	0.25	mg/L	6010A	27 JAN 96	30 JAN 96
Silver	ND		1.0	0.50	mg/L	6010A	27 JAN 96	30 JAN 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Matt Hall

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027060-001/C8 6 74) (04653)
Lab ID: 047021-0001-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 25 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.50	J	2.0	20.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	ND		2.0	0.20	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	0.0097	J	2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.27	J	2.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

nported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027068-001/C8 8 74) (04653)
Lab ID: 047021-0005-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 25 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.61	J	2.0	20.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	ND		2.0	0.20	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	0.49	J	2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.31	J	2.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027069-001/C8 10 74) (04653)
Lab ID: 047021-0006-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 25 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.25	J	1.0	10.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	0.056	J	1.0	0.10	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	5.0		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.15	J	1.0	0.25	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027069-011/C8 10 74) (04653)
Lab ID: 047021-0007-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 25 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.23	J	1.0	10.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	0.17		1.0	0.10	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	6.5		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.15	J	1.0	0.25	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

nt Name: Sandia National Laboratory
Ci.ent ID: (027070-001/C8 12 74) (04654)
Lab ID: 047028-0001-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 25 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.19	J	1.0	10.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	0.041	J	1.0	0.10	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	6.1		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.18	J	1.0	0.25	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

t Name: Sandia National Laboratory
Client ID: (027071-001/C8 14 74) (04654)
Lab ID: 047028-0002-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 25 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.24	J	1.0	10.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	0.028	J	1.0	0.10	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	4.1		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.16	J	1.0	0.25	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027072-001/C8 16 74) (04654)
Lab ID: 047028-0003-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 25 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.40	J	1.0	10.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	0.0059	J	1.0	0.10	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	1.4		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.19	J	1.0	0.25	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	0.0040	J	1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027076-001/C9 10 74) (04587)
Lab ID: 047025-0001-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 26 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.11	J	1.0	10.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	0.059	J	1.0	0.10	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	27.4		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.13	J	1.0	0.25	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027077-001/C9 12 74) (04587)
Lab ID: 047025-0002-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 26 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.33	J	1.0	10.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	0.052	J	1.0	0.10	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	0.92		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.11	J	1.0	0.25	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027077-011/C9 12 74) (04587)
Lab ID: 047025-0003-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 26 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.31	J	1.0	10.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	0.046	J	1.0	0.10	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	1.1		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.13	J	1.0	0.25	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027078-001/C9 14 74) (04587)
Lab ID: 047025-0004-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 26 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.41	J	1.0	10.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	0.060	J	1.0	0.10	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	0.70		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.12	J	1.0	0.25	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027079-001/C9 16 74) (04587)
Lab ID: 047025-0005-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 26 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.42	J	1.0	10.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	0.0086	J	1.0	0.10	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	0.16	J	1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.15	J	1.0	0.25	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		1.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027061-001/C10 6 74) (04653)
Lab ID: 047021-0002-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 25 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.48	J	2.0	20.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	0.090	J	2.0	0.20	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	1.2		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.28	J	2.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (027062-001/C10 8 74) (04653)
Lab ID: 047021-0003-SA
Matrix: SOLID
Authorized: 30 JAN 96

Sampled: 25 JAN 96
Prepared: See Below

Received: 30 JAN 96
Analyzed: See Below
Leached: 01 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Barium	0.47	J	2.0	20.0	mg/L	6010A	03 FEB 96	08 FEB 96
Cadmium	0.042	J	2.0	0.20	mg/L	6010A	03 FEB 96	08 FEB 96
Chromium	3.1		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Lead	ND		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Selenium	0.27	J	2.0	0.50	mg/L	6010A	03 FEB 96	08 FEB 96
Silver	ND		2.0	1.0	mg/L	6010A	03 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Chuck Dwyer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

t Name: Sandia National Laboratory
Client ID: (027118-001/BKG 10) (04730)
Lab ID: 047158-0013-SA
Matrix: SOLID
Authorized: 08 FEB 96

Sampled: 06 FEB 96
Prepared: See Below

Received: 08 FEB 96
Analyzed: See Below
Leached: 13 FEB 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		2.0	1.0	mg/L	6010A	14 FEB 96	15 FEB 96
Barium-	0.49	J	2.0	20.0	mg/L	6010A	14 FEB 96	15 FEB 96
Cadmium	ND		2.0	0.20	mg/L	6010A	14 FEB 96	15 FEB 96
Chromium	ND		2.0	1.0	mg/L	6010A	14 FEB 96	15 FEB 96
Lead	ND		2.0	1.0	mg/L	6010A	14 FEB 96	15 FEB 96
Selenium	0.21	J	2.0	0.50	mg/L	6010A	14 FEB 96	15 FEB 96
Silver	ND		2.0	1.0	mg/L	6010A	14 FEB 96	15 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	14 FEB 96	14 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Mark Woolley

Approved By: Richard Persichitte

APPENDIX B:

COPIES OF LABORATORY ANALYSIS SHEETS FOR CHROMIUM IN POST-TEST SOIL SAMPLES

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (031980-001/PT1 7.5 74) (05993)
Lab ID: 052983-0001-SA
Matrix: SOLID
Authorized: 12 DEC 96

Sampled: 09 DEC 96
Prepared: See Below

Received: 12 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.0061	J	1.0	0.50	mg/L	6010A	30 DEC 96	02 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (031981-001/PT1 10 74) (05993)
Lab ID: 052983-0002-SA
Matrix: SOLID
Authorized: 12 DEC 96

Sampled: 09 DEC 96
Prepared: See Below

Received: 12 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	ND		1.0	0.50	mg/L	6010A	30 DEC 96	02 JAN 97

ND = Not Detected

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (031982-001/PT1 12.5 74) (05993)
Lab ID: 052983-0003-SA
Matrix: SOLID — Sampled: 09 DEC 96 — Received: 12 DEC 96
Authorized: 12 DEC 96 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	ND		1.0	0.50	mg/L	6010A	30 DEC 96	02 JAN 97

ND = Not Detected

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (031983-001/PT1 15 74) (05993)
Lab ID: 052983-0004-SA
Matrix: SOLID Sampled: 09 DEC 96 Received: 12 DEC 96
Authorized: 12 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	ND		1.0	0.50	mg/L	6010A	30 DEC 96	02 JAN 97

ND = Not Detected

Reported By: Doug Gomer Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (031984-001/PT1 17.5 74) (05993)
Lab ID: 052983-0005-SA
Matrix: SOLID
Authorized: 12 DEC 96

Sampled: 09 DEC 96
Prepared: See Below

Received: 12 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.041	J	1.0	0.50	mg/L	6010A	30 DEC 96	02 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (031985-001/PT1 20 74) (05993)
Lab ID: 052983-0006-SA
Matrix: SOLID
Authorized: 12 DEC 96

Sampled: 09 DEC 96
Prepared: See Below

Received: 12 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.0054	J	1.0	0.50	mg/L	6010A	30 DEC 96	02 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (031986-001/PT1 22.5 74) (05993)
Lab ID: 052983-0007-SA
Matrix: SOLID Sampled: 09 DEC 96 Received: 12 DEC 96
Authorized: 12 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.0046	J	1.0	0.50	mg/L	6010A	30 DEC 96	02 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Doug Gomer Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (031987-001/PT1 25 74) (05993)
Lab ID: 052983-0008-SA
Matrix: SOLID
Authorized: 12 DEC 96

Sampled: 09 DEC 96
Prepared: See Below

Received: 12 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.015	J	1.0	0.50	mg/L	6010A	30 DEC 96	02 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032270-001/PT2 7.5 74) (05993)
Lab ID: 052983-0009-SA
Matrix: SOLID — Sampled: 09 DEC 96 — Received: 12 DEC 96
Authorized: 12 DEC 96 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.078	J	1.0	0.50	mg/L	6010A	30 DEC 96	02 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Doug Gomer — Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032271-001/PT2 10 74) (05993)
Lab ID: 052983-0010-SA
Matrix: SOLID
Authorized: 12 DEC 96

Sampled: 09 DEC 96
Prepared: See Below

Received: 12 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	ND		1.0	0.50	mg/L	6010A	30 DEC 96	02 JAN 97

ND = Not Detected

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032271-010/PT2 10 74) (05993)
Lab ID: 052983-0025-SA
Matrix: SOLID — Sampled: 09 DEC 96 — Received: 12 DEC 96
Authorized: 12 DEC 96 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.017	J	1.0	0.50	mg/L	6010A	30 DEC 96	31 DEC 96

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032272-001/PT2 12.5 74) (05993)
Lab ID: 052983-0011-SA
Matrix: SOLID Sampled: 09 DEC 96 Received: 12 DEC 96
Authorized: 12 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	8.9		1.0	0.50	mg/L	6010A	30 DEC 96	02 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032274-001/PT2 I5) (05993)
Lab ID: 052983-0013-SA
Matrix: SOLID
Authorized: 12 DEC 96

Sampled: 09 DEC 96
Prepared: See Below

Received: 12 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	9.2		1.0	0.50	mg/L	6010A	30 DEC 96	02 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032275-001/PT2 17.5) (05993)
Lab ID: 052983-0014-SA
Matrix: SOLID
Authorized: 12 DEC 96

Sampled: 09 DEC 96
Prepared: See Below

Received: 12 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	4.5		1.0	0.50	mg/L	6010A	30 DEC 96	02 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032276-001/PT2 20) (05993)
Lab ID: 052983-0015-SA
Matrix: SOLID Sampled: 09 DEC 96 Received: 12 DEC 96
Authorized: 12 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	1.0		1.0	0.50	mg/L	6010A	30 DEC 96	02 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032276-010/PT2 20) (05993)
Lab ID: 052983-0026-SA
Matrix: SOLID
Authorized: 12 DEC 96

Sampled: 09 DEC 96
Prepared: See Below

Received: 12 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	1.2		1.0	0.50	mg/L	6010A	30 DEC 96	31 DEC 96

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032277-001/PT2 22.5) (05993)
Lab ID: 052983-0016-SA
Matrix: SOLID
Authorized: 12 DEC 96

Sampled: 09 DEC 96
Prepared: See Below

Received: 12 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	4.9		1.0	0.50	mg/L	6010A	30 DEC 96	02 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032278-001/PT2 25) (05993)
Lab ID: 052983-0017-SA
Matrix: SOLID
Authorized: 12 DEC 96

Sampled: 09 DEC 96
Prepared: See Below

Received: 12 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	2.6		1.0	0.50	mg/L	6010A	30 DEC 96	02 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032279-001/PT2 30) (05993)
Lab ID: 052983-0018-SA
Matrix: SOLID
Authorized: 12 DEC 96

Sampled: 09 DEC 96
Prepared: See Below

Received: 12 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	1.6		1.0	0.50	mg/L	6010A	30 DEC 96	02 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032371-001/PT3 7.5 74) (06081)
Lab ID: 053046-0023-SA
Matrix: SOLID Sampled: 13 DEC 96 Received: 17 DEC 96
Authorized: 17 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.92		1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032372-001/PT3 10 74) (06081)
Lab ID: 053046-0024-SA
Matrix: SOLID
Authorized: 17 DEC 96

Sampled: 13 DEC 96
Prepared: See Below

Received: 17 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	6.0		1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032373-001/PT3 12.5 74) (06081)
Lab ID: 053046-0025-SA
Matrix: SOLID Sampled: 13 DEC 96 Received: 17 DEC 96
Authorized: 17 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	34.2		2.0	1.0	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032373-010/PT3 12.5 74) (06081)
Lab ID: 053046-0026-SA
Matrix: SOLID
Authorized: 17 DEC 96

Sampled: 13 DEC 96
Prepared: See Below

Received: 17 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	31.3		2.0	1.0	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032374-001/PT3 18 74) (06081)
Lab ID: 053046-0027-SA
Matrix: SOLID Sampled: 13 DEC 96 Received: 17 DEC 96
Authorized: 17 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	2.0		1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032375-001/PT3 20 74) (06081)
Lab ID: 053046-0028-SA
Matrix: SOLID
Authorized: 17 DEC 96

Sampled: 13 DEC 96
Prepared: See Below

Received: 17 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	1.5		1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032376-001/PT3 22.5 74) (06081)
Lab ID: 053046-0029-SA
Matrix: SOLID Sampled: 13 DEC 96 Received: 17 DEC 96
Authorized: 17 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.38	J	2.0	1.0	mg/L	6010A	07 JAN 97	08 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032378-001/PT3 25 74) (06081)
Lab ID: 053046-0030-SA
Matrix: SOLID — Sampled: 13 DEC 96 — Received: 17 DEC 96
Authorized: 17 DEC 96 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.71	J	2.0	1.0	mg/L	6010A	07 JAN 97	08 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Patrick Carroll — Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032379-001/PT3 30 74) (06081)
Lab ID: 053046-0031-SA
Matrix: SOLID Sampled: 13 DEC 96 Received: 17 DEC 96
Authorized: 17 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.17	J	2.0	1.0	mg/L	6010A	07 JAN 97	08 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032310-001/PT4 6 74) (06078)
Lab ID: 052999-0001-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 11 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.52		1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032311-001/PT4 8 74) (06078)
Lab ID: 052999-0002-SA
Matrix: SOLID Sampled: 11 DEC 96 Received: 13 DEC 96
Authorized: 13 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	1.1		1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032312-001/PT4 10 74) (06078)
Lab ID: 052999-0003-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 11 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	12.2		1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032312-010/PT4 10 74) (06078)
Lab ID: 052999-0004-SA
Matrix: SOLID Sampled: 11 DEC 96 Received: 13 DEC 96
Authorized: 13 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	11.7		2.0	1.0	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032313-001/PT4 12 74) (06078)
Lab ID: 052999-0005-SA
Matrix: SOLID Sampled: 11 DEC 96 Received: 13 DEC 96
Authorized: 13 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	1.9		1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032314-001/PT4 15 74) (06078)
Lab ID: 052999-0007-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 11 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	11.9		1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032315-001/PT4 17.5 74) (06078)
Lab ID: 052999-0008-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 11 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	2.4		2.0	1.0	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032316-001/PT4 20 74) (06078)
Lab ID: 052999-0009-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 11 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	1.5		1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032317-001/PT4 22.5 74) (06078)
Lab ID: 052999-0010-SA
Matrix: SOLID Sampled: 11 DEC 96 Received: 13 DEC 96
Authorized: 13 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	5.3		2.0	1.0	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032319-001/PT4 25 74) (06078)
Lab ID: 052999-0012-SA
Matrix: SOLID Sampled: 11 DEC 96 Received: 13 DEC 96
Authorized: 13 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	4.4		1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032318-001/PT4 30 74) (06078)
Lab ID: 052999-0011-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 11 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	4.0		1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032320-001/PT4 35 74) (06078)
Lab ID: 052999-0013-SA
Matrix: SOLID Sampled: 11 DEC 96 Received: 13 DEC 96
Authorized: 13 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.73		1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032321-001/PT4 40 74) (06078)
Lab ID: 052999-0014-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	3.9		1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032280-001/PT5 7.5) (05993)
Lab ID: 052983-0019-SA
Matrix: SOLID Sampled: 09 DEC 96 Received: 12 DEC 96
Authorized: 12 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	21.0		1.0	0.50	mg/L	6010A	30 DEC 96	31 DEC 96

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032281-001/PT5 10) (05993)
Lab ID: 052983-0020-SA
Matrix: SOLID Sampled: 09 DEC 96 Received: 12 DEC 96
Authorized: 12 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	4.9		1.0	0.50	mg/L	6010A	30 DEC 96	31 DEC 96

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032282-001/PT5 12.5) (05993)
Lab ID: 052983-0021-SA
Matrix: SOLID Sampled: 09 DEC 96 Received: 12 DEC 96
Authorized: 12 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.052	J	1.0	0.50	mg/L	6010A	30 DEC 96	31 DEC 96

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032283-001/PT5 15) (05993)
Lab ID: 052983-0022-SA
Matrix: SOLID
Authorized: 12 DEC 96

Sampled: 09 DEC 96
Prepared: See Below

Received: 12 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	2.0		1.0	0.50	mg/L	6010A	30 DEC 96	31 DEC 96

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032284-001/PT5 17.5) (05993)
Lab ID: 052983-0023-SA
Matrix: SOLID Sampled: 09 DEC 96 Received: 12 DEC 96
Authorized: 12 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	1.7		1.0	0.50	mg/L	6010A	30 DEC 96	31 DEC 96

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032285-001/PT5 20) (05993)
Lab ID: 052983-0024-SA
Matrix: SOLID
Authorized: 12 DEC 96

Sampled: 09 DEC 96
Prepared: See Below

Received: 12 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	1.8		1.0	0.50	mg/L	6010A	30 DEC 96	31 DEC 96

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032286-001/PT5 22.5 74) (06077)
Lab ID: 052998-0001-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 10 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 01 JAN 97

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	6.1		2.0	1.0	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032288-001/PT5 25 74) (06077)
Lab ID: 052998-0002-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 10 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 19 DEC 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	5.2		1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032288-010/PT5 25 74) (06077)
Lab ID: 052998-0003-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 10 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 19 DEC 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	5.4		1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032287-001/PT5 30 74) (06077)
Lab ID: 052998-0004-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 10 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 01 JAN 97

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	6.6		2.0	1.0	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032301-001/PT6 7.5 74) (06077)
Lab ID: 052998-0017-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 10 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 19 DEC 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.99		1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032302-001/PT6 10 74) (06077)
Lab ID: 052998-0018-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 10 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 19 DEC 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	15.2		2.0	1.0	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032303-001/PT6 12.5 74) (06077)
Lab ID: 052998-0019-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 10 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 01 JAN 97

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	13.7		1.0	0.50	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032303-010/PT6 12.5 74) (06077)
Lab ID: 052998-0020-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 10 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 01 JAN 97

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	13.9		1.0	0.50	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032304-001/PT6 16 74) (06077)
Lab ID: 052998-0021-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 11 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 01 JAN 97

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	31.3		2.0	1.0	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032305-001/PT6 17.5 74) (06077)
Lab ID: 052998-0022-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 11 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 01 JAN 97

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	24.6		1.0	0.50	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032305-010/PT6 17.5 74) (06077)
Lab ID: 052998-0023-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 11 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 06 JAN 97

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	26.0		1.0	0.50	mg/L	6010A	07 JAN 97	13 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032306-001/PT6 20 74) (06077)
Lab ID: 052998-0024-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 11 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 01 JAN 97

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	3.6		1.0	0.50	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032307-001/PT6 22.5 74) (06077)
Lab ID: 052998-0025-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 11 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 01 JAN 97

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	3.5		2.0	1.0	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032308-001/PT6 25 74) (06077)
Lab ID: 052998-0026-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 11 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 01 JAN 97

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	1.3		2.0	1.0	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032309-001/PT6 30 74) (06077)
Lab ID: 052998-0027-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 11 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 01 JAN 97

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	2.6		1.0	0.50	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032351-001/PT7 7.5 74) (06081)
Lab ID: 053046-0002-SA
Matrix: SOLID — Sampled: 13 DEC 96 — Received: 17 DEC 96
Authorized: 17 DEC 96 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.072	J	1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Patrick Carroll — Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032352-001/PT7 10 74) (06081)
Lab ID: 053046-0004-SA
Matrix: SOLID Sampled: 13 DEC 96 Received: 17 DEC 96
Authorized: 17 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	6.6		2.0	1.0	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032353-010/PT7 12.5 74) (06081)
Lab ID: 053046-0006-SA
Matrix: SOLID Sampled: 13 DEC 96 Received: 17 DEC 96
Authorized: 17 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	45.6		2.0	1.0	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032353-001/PT7 12.5 74) (06081)
Lab ID: 053046-0005-SA
Matrix: SOLID Sampled: 13 DEC 96 Received: 17 DEC 96
Authorized: 17 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	42.2		2.0	1.0	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032354-001/PT7 15 74) (06081)
Lab ID: 053046-0007-SA
Matrix: SOLID
Authorized: 17 DEC 96

Sampled: 13 DEC 96
Prepared: See Below

Received: 17 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	70.9		2.0	1.0	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032355-001/PT7 17.5 74) (06081)
Lab ID: 053046-0008-SA
Matrix: SOLID
Authorized: 17 DEC 96

Sampled: 13 DEC 96
Prepared: See Below

Received: 17 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	7.9		1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032356-001/PT7 20 74) (06081)
Lab ID: 053046-0032-SA
Matrix: SOLID
Authorized: 17 DEC 96

Sampled: 13 DEC 96
Prepared: See Below

Received: 17 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.54		1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032357-001/PT7 22.5 74) (06081)
Lab ID: 053046-0010-SA
Matrix: SOLID
Authorized: 17 DEC 96

Sampled: 13 DEC 96
Prepared: See Below

Received: 17 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	1.4		2.0	1.0	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032359-001/PT7 25 74) (06081)
Lab ID: 053046-0011-SA
Matrix: SOLID
Authorized: 17 DEC 96

Sampled: 13 DEC 96
Prepared: See Below

Received: 17 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	4.5		1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032360-001/PT7 30 74) (06081)
Lab ID: 053046-0012-SA
Matrix: SOLID
Authorized: 17 DEC 96

Sampled: 13 DEC 96
Prepared: See Below

Received: 17 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	5.5		1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032361-001/PT7 35 74) (06081)
Lab ID: 053046-0013-SA
Matrix: SOLID
Authorized: 17 DEC 96

Sampled: 13 DEC 96
Prepared: See Below

Received: 17 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	7.4		1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032349-001/PT7 40 74) (06081)
Lab ID: 053046-0001-SA
Matrix: SOLID
Authorized: 17 DEC 96

Sampled: 13 DEC 96
Prepared: See Below

Received: 17 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	8.8		2.0	1.0	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032289-001/PT8 8 74) (06077)
Lab ID: 052998-0005-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 10 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 01 JAN 97

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	3.8		2.0	1.0	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032290-001/PT8 10 74) (06077)
Lab ID: 052998-0006-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 10 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 19 DEC 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	57.2		2.0	1.0	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032291-001/PT8 12 74) (06077)
Lab ID: 052998-0007-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 10 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 19 DEC 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	67.0		1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032292-001/PT8 15 74) (06077)
Lab ID: 052998-0008-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 10 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 19 DEC 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	18.9		1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032293-001/PT8 17.5 74) (06077)
Lab ID: 052998-0009-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 10 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 19 DEC 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.33	J	1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032294-001/PT8 20 74) (06077)
Lab ID: 052998-0010-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 10 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 19 DEC 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	1.7		1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032295-001/PT8 22.5 74) (06077)
Lab ID: 052998-0011-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 10 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 01 JAN 97

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	3.2		2.0	1.0	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032296-001/PT8 25 74) (06077)
Lab ID: 052998-0012-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 10 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 19 DEC 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	4.1		1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032298-001/PT8 30 74) (06077)
Lab ID: 052998-0014-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 10 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 19 DEC 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	8.9		1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032299-001/PT8 35 74) (06077)
Lab ID: 052998-0015-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 10 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 19 DEC 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	3.5		1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032300-001/PT8 40 74) (06077)
Lab ID: 052998-0016-SA
Matrix: SOLID
Authorized: 13 DEC 96

Sampled: 10 DEC 96
Prepared: See Below

Received: 13 DEC 96
Analyzed: See Below
Leached: 19 DEC 96

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	8.1		1.0	0.50	mg/L	6010A	21 DEC 96	23 DEC 96

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032326-001/PT9 7.5 74) (06080)
LAB ID: 053026-0002-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 02 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	29.9		1.0	0.50	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032324-001/PT9 10 74) (06080)
LAB ID: 053026-0003-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 02 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	62.4		2.0	1.0	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032325-001/PT9 12.5 74) (06080)
LAB ID: 053026-0004-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 02 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	22.8		1.0	0.50	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032325-010/PT9 12.5 74) (06080)
LAB ID: 053026-0005-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 02 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	21.6		1.0	0.50	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032327-001/PT9 15 74) (06080)
LAB ID: 053026-0006-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 02 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	2.5		1.0	0.50	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032329-001/PT9 17.5 74) (06080)
LAB ID: 053026-0007-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 02 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	0.24	J	1.0	0.50	mg/L	6010A	06 JAN 97	06 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032328-001/PT9 20 74) (06080)
LAB ID: 053026-0008-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 02 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	0.045	J	1.0	0.50	mg/L	6010A	06 JAN 97	06 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032330-001/PT9 22.5 74) (06080)
LAB ID: 053026-0009-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 06 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	1.5		2.0	1.0	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032331-001/PT9 25 74) (06080)
LAB ID: 053026-0010-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 02 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	4.2		1.0	0.50	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032323-001/PT9 30 74) (06080)
LAB ID: 053026-0001-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 02 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	5.0		1.0	0.50	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032551-001/PT10A-7.5 74) (06135)
Lab ID: 053410-0001-SA
Matrix: SOLID Sampled: 21 JAN 97 Received: 23 JAN 97
Authorized: 23 JAN 97 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	21.0		1.0	0.50	mg/L	6010A	30 JAN 97	30 JAN 97
Iron	ND		1.0	0.10	mg/L	6010A	30 JAN 97	30 JAN 97

ND = Not Detected

Reported By: Doug Gomer Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032343-001/PT10 10 74) (06080)
LAB ID: 053026-0024-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 06 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	32.6		1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032344-001/PT10 14.5 74) (06080)
LAB ID: 053026-0025-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 06 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	6.2		1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032345-001/PT10 17.5 74) (06080)
LAB ID: 053026-0026-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 06 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	0.052	J	1.0	0.50	mg/L	6010A	07 JAN 97	13 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032345-001/PT10 17.5 74) (06080)
LAB ID: 053026-0026-RE
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 16 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	0.057	J	1.0	0.50	mg/L	6010A	17 JAN 97	20 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032346-001/PT10 20 74) (06080)
LAB ID: 053026-0027-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 06 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	0.089	J	1.0	0.50	mg/L	6010A	07 JAN 97	13 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032348-001/PT10 22.5 74) (06080)
LAB ID: 053026-0030-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 06 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	0.66		1.0	0.50	mg/L	6010A	07 JAN 97	13 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032350-001/PT10 25 74) (06080)
LAB ID: 053026-0029-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 06 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	2.3		1.0	0.50	mg/L	6010A	07 JAN 97	13 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032347-001/PT10 30 74) (06080)
LAB ID: 053026-0028-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 06 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	2.3		1.0	0.50	mg/L	6010A	07 JAN 97	13 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032363-001/PT11 7.5 74) (06081)
Lab ID: 053046-0014-SA
Matrix: SOLID Sampled: 13 DEC 96 Received: 17 DEC 96
Authorized: 17 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.96		1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032364-001/PT11 10 74) (06081)
Lab ID: 053046-0015-SA
Matrix: SOLID Sampled: 13 DEC 96 Received: 17 DEC 96
Authorized: 17 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.60		1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032365-001/PT11 12.5 74) (06081)
Lab ID: 053046-0016-SA
Matrix: SOLID Sampled: 13 DEC 96 Received: 17 DEC 96
Authorized: 17 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	3.6		1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032366-001/PT11 15 74) (06081)
Lab ID: 053046-0017-SA
Matrix: SOLID Sampled: 13 DEC 96 Received: 17 DEC 96
Authorized: 17 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	10.8		1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032367-001/PT11 17.5 74) (06081)
Lab ID: 053046-0018-SA
Matrix: SOLID
Authorized: 17 DEC 96

Sampled: 13 DEC 96
Prepared: See Below

Received: 17 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.043	J	1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032368-001/PT11 20 74) (06081)
Lab ID: 053046-0019-SA
Matrix: SOLID Sampled: 13 DEC 96 Received: 17 DEC 96
Authorized: 17 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.043	J	1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032369-001/PT11 22.5 74) (06081)
Lab ID: 053046-0020-SA
Matrix: SOLID
Authorized: 17 DEC 96

Sampled: 13 DEC 96
Prepared: See Below

Received: 17 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	1.5		2.0	1.0	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032369-010/PT11 22.5 74) (06081)
Lab ID: 053046-0021-SA
Matrix: SOLID Sampled: 13 DEC 96 Received: 17 DEC 96
Authorized: 17 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	1.6		2.0	1.0	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032370-001/PT11 25 74) (06081)
Lab ID: 053046-0022-SA
Matrix: SOLID Sampled: 13 DEC 96 Received: 17 DEC 96
Authorized: 17 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	2.5		1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032358-001/PT11 30 74) (06081)
Lab ID: 053046-0009-SA
Matrix: SOLID
Authorized: 17 DEC 96

Sampled: 13 DEC 96
Prepared: See Below

Received: 17 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	8.4		1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032332-001/PT12 7.5 74) (06080)
LAB ID: 053026-0011-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 02 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	0.24	J	2.0	1.0	mg/L	6010A	06 JAN 97	06 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032333-001/PT12 10 74) (06080)
LAB ID: 053026-0012-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 02 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	0.36	J	2.0	1.0	mg/L	6010A	06 JAN 97	06 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032333-010/PT12 10 74) (06080)
LAB ID: 053026-0013-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 02 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	0.33	J	2.0	1.0	mg/L	6010A	06 JAN 97	06 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032334-001/PT12 12.5 74) (06080)
LAB ID: 053026-0014-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 02 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	0.011	J	1.0	0.50	mg/L	6010A	06 JAN 97	06 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032339-001/PT12 22.5 74) (06080)
LAB ID: 053026-0020-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 02 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	1.1		2.0	1.0	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032339-010/PT12 22.5 74) (06080)
LAB ID: 053026-0022-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 02 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	1.2		2.0	1.0	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032340-001/PT12 25 74) (06080)
LAB ID: 053026-0021-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 06 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	3.4		1.0	0.50	mg/L	6010A	07 JAN 97	08 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Sandia National Laboratory
Client ID: (032335-001/PT12 30 74) (06080)
LAB ID: 053026-0015-SA
Matrix: SOLID
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below
Leached: 02 JAN 97

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	7.6		1.0	0.50	mg/L	6010A	06 JAN 97	06 JAN 97

Reported By: Doug Gomer

Approved By: Richard Persichitte

APPENDIX C:

COPIES OF LABORATORY ANALYSIS SHEETS FOR ORGANICS, FOR CHROMIUM (VI), AND FOR TOTAL METALS IN PRE-TEST SOIL SAMPLES

Quanterra
Environmental Services

Volatile Organics
Target Compound List (TCL)
Method 8240A

Client Name: Sandia National Laboratory
Client ID: (026991-004/NT3 7.5 74) (04559)
Lab ID: 046528-0002-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Received: 21 DEC 95

Prepared: 22 DEC 95
Analyzed: 22 DEC 95

Parameter	Result	Units	Reporting Limit
Acetone	22	ug/kg	10
Benzene	ND	ug/kg	5.0
Bromodichloromethane	ND	ug/kg	5.0
Bromoform	ND	ug/kg	5.0
Bromomethane	ND	ug/kg	10
2-Butanone (MEK)	ND	ug/kg	10
Carbon disulfide	ND	ug/kg	5.0
Carbon tetrachloride	ND	ug/kg	5.0
Chlorobenzene	ND	ug/kg	5.0
Chloroethane	ND	ug/kg	10
Chloroform	ND	ug/kg	5.0
Chloromethane	ND	ug/kg	10
Dibromochloromethane	ND	ug/kg	5.0
1,1-Dichloroethane	ND	ug/kg	5.0
1,2-Dichloroethane	ND	ug/kg	5.0
1,1-Dichloroethene	ND	ug/kg	5.0
1,2-Dichloroethene (total)	ND	ug/kg	5.0
1,2-Dichloropropane	ND	ug/kg	5.0
cis-1,3-Dichloropropene	ND	ug/kg	5.0
trans-1,3-Dichloropropene	ND	ug/kg	5.0
Ethylbenzene	ND	ug/kg	5.0
2-Hexanone	ND	ug/kg	10
Methylene chloride	ND	ug/kg	5.0
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10
Styrene	ND	ug/kg	5.0
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0
Tetrachloroethene	ND	ug/kg	5.0
Toluene	ND	ug/kg	5.0
1,1,1-Trichloroethane	ND	ug/kg	5.0
1,1,2-Trichloroethane	ND	ug/kg	5.0
Trichloroethene	ND	ug/kg	5.0
Vinyl acetate	ND	ug/kg	10
Vinyl chloride	ND	ug/kg	10
Xylenes (total)	ND	ug/kg	5.0

Surrogate	Recovery		Limits
Toluene-d8	104	%	81-117
4-Bromofluorobenzene	98	%	75-121
1,2-Dichloroethane-d4	98	%	70-121

Dilution factor is 1.0. All results and limits are corrected for dilution.

J = Not Detected

Reported By: Sandra Jones

Approved By: Audrey Cornell

Volatile Organics
Target Compound List (TCL)
Method 8240A

Quanterra Environmental Services

Client Name: Sandia National Laboratory
Client ID: (026991-014/NT3 7.5 74) (04559)
Lab ID: 046528-0005-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Received: 21 DEC 95

Prepared: 22 DEC 95
Analyzed: 29 DEC 95

Parameter	Result	Units	Reporting Limit
Acetone	30	ug/kg	10
Benzene	ND	ug/kg	5.0
Bromodichloromethane	ND	ug/kg	5.0
Bromoform	ND	ug/kg	5.0
Bromomethane	ND	ug/kg	10
2-Butanone (MEK)	ND	ug/kg	10
Carbon disulfide	ND	ug/kg	5.0
Carbon tetrachloride	ND	ug/kg	5.0
Chlorobenzene	ND	ug/kg	5.0
Chloroethane	ND	ug/kg	10
Chloroform	ND	ug/kg	5.0
Chloromethane	ND	ug/kg	10
Dibromochloromethane	ND	ug/kg	5.0
1,1-Dichloroethane	ND	ug/kg	5.0
1,2-Dichloroethane	ND	ug/kg	5.0
1,1-Dichloroethene	ND	ug/kg	5.0
2-Dichloroethene (total)	ND	ug/kg	5.0
1,2-Dichloropropane	ND	ug/kg	5.0
cis-1,3-Dichloropropene	ND	ug/kg	5.0
trans-1,3-Dichloropropene	ND	ug/kg	5.0
Ethylbenzene	ND	ug/kg	5.0
2-Hexanone	ND	ug/kg	10
Methylene chloride	ND	ug/kg	5.0
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10
Styrene	ND	ug/kg	5.0
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0
Tetrachloroethene	ND	ug/kg	5.0
Toluene	ND	ug/kg	5.0
1,1,1-Trichloroethane	ND	ug/kg	5.0
1,1,2-Trichloroethane	ND	ug/kg	5.0
Trichloroethene	ND	ug/kg	5.0
Vinyl acetate	ND	ug/kg	10
Vinyl chloride	ND	ug/kg	10
Xylenes (total)	ND	ug/kg	5.0

Surrogate	Recovery		Limits
Toluene-d8	104	%	81-117
4-Bromofluorobenzene	101	%	75-121
1,2-Dichloroethane-d4	96	%	70-121

Dilution factor is 1.0. All results and limits are corrected for dilution.

= Not Detected

Reported By: Stephanie Boyles

Approved By: Audrey Cornell

Quanterra Environmental Services

Volatile Organics
Target Compound List (TCL)
Method 8240A

Client Name: Sandia National Laboratory
Client ID: (026993-004/NT3 12.5 74) (04559)
Lab ID: 046528-0008-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Received: 21 DEC 95

Prepared: 22 DEC 95
Analyzed: 22 DEC 95

Parameter	Result	Units	Reporting Limit	
Acetone	4.2	ug/kg	10	J
Benzene	ND	ug/kg	5.0	
Bromodichloromethane	ND	ug/kg	5.0	
Bromoform	ND	ug/kg	5.0	
Bromomethane	ND	ug/kg	10	
2-Butanone (MEK)	ND	ug/kg	10	
Carbon disulfide	ND	ug/kg	5.0	
Carbon tetrachloride	ND	ug/kg	5.0	
Chlorobenzene	ND	ug/kg	5.0	
Chloroethane	ND	ug/kg	10	
Chloroform	ND	ug/kg	5.0	
Chloromethane	ND	ug/kg	10	
Dibromochloromethane	ND	ug/kg	5.0	
1,1-Dichloroethane	ND	ug/kg	5.0	
1,2-Dichloroethane	ND	ug/kg	5.0	
1,1-Dichloroethene	ND	ug/kg	5.0	
2-Dichloroethene (total)	ND	ug/kg	5.0	
1,2-Dichloropropane	ND	ug/kg	5.0	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	
Ethylbenzene	ND	ug/kg	5.0	
2-Hexanone	ND	ug/kg	10	
Methylene chloride	ND	ug/kg	5.0	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10	
Styrene	ND	ug/kg	5.0	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	
Tetrachloroethene	ND	ug/kg	5.0	
Toluene	ND	ug/kg	5.0	
1,1,1-Trichloroethane	ND	ug/kg	5.0	
1,1,2-Trichloroethane	ND	ug/kg	5.0	
Trichloroethene	ND	ug/kg	5.0	
Vinyl acetate	ND	ug/kg	10	
Vinyl chloride	ND	ug/kg	10	
Xylenes (total)	ND	ug/kg	5.0	

Surrogate	Recovery		Limits
Toluene-d8	102	%	81-117
4-Bromofluorobenzene	99	%	75-121
1,2-Dichloroethane-d4	101	%	70-121

Dilution factor is 1.0. All results and limits are corrected for dilution.

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Sandra Jones

Approved By: Audrey Cornell

Volatile Organics
Target Compound List (TCL)
Method 8240A

Client Name: Sandia National Laboratory
Client ID: (027012-004/NT7 7.5 74) (04585)
Lab ID: 046526-0003-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Received: 21 DEC 95

Prepared: 22 DEC 95
Analyzed: 22 DEC 95

Parameter	Result	Units	Reporting Limit
Acetone	16	ug/kg	10
Benzene	ND	ug/kg	5.0
Bromodichloromethane	ND	ug/kg	5.0
Bromoform	ND	ug/kg	5.0
Bromomethane	ND	ug/kg	10
2-Butanone (MEK)	ND	ug/kg	10
Carbon disulfide	ND	ug/kg	5.0
Carbon tetrachloride	ND	ug/kg	5.0
Chlorobenzene	ND	ug/kg	5.0
Chloroethane	ND	ug/kg	10
Chloroform	ND	ug/kg	5.0
Chloromethane	ND	ug/kg	10
Dibromochloromethane	ND	ug/kg	5.0
1,1-Dichloroethane	ND	ug/kg	5.0
1,2-Dichloroethane	ND	ug/kg	5.0
1,1-Dichloroethene	ND	ug/kg	5.0
1,2-Dichloroethene (total)	ND	ug/kg	5.0
,2-Dichloropropane	ND	ug/kg	5.0
cis-1,3-Dichloropropene	ND	ug/kg	5.0
trans-1,3-Dichloropropene	ND	ug/kg	5.0
Ethylbenzene	ND	ug/kg	5.0
2-Hexanone	ND	ug/kg	10
Methylene chloride	ND	ug/kg	5.0
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10
Styrene	ND	ug/kg	5.0
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0
Tetrachloroethene	ND	ug/kg	5.0
Toluene	ND	ug/kg	5.0
1,1,1-Trichloroethane	ND	ug/kg	5.0
1,1,2-Trichloroethane	ND	ug/kg	5.0
Trichloroethene	ND	ug/kg	5.0
Vinyl acetate	ND	ug/kg	10
Vinyl chloride	ND	ug/kg	10
Xylenes (total)	ND	ug/kg	5.0

Surrogate	Recovery		Limits
Toluene-d8	106	%	81-117
4-Bromofluorobenzene	98	%	75-121
1,2-Dichloroethane-d4	96	%	70-121

Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Sandra Jones

Approved By: Audrey Cornell

Volatile Organics
Target Compound List (TCL)
Method 8240A

Client Name: Sandia National Laboratory
Client ID: (027014-004/NT7 12.5 74) (04585)
Lab ID: 046526-0006-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Received: 21 DEC 95

Prepared: 22 DEC 95
Analyzed: 22 DEC 95

Parameter	Result	Units	Reporting Limit
Acetone	12	ug/kg	10
Benzene	ND	ug/kg	5.0
Bromodichloromethane	ND	ug/kg	5.0
Bromoform	ND	ug/kg	5.0
Bromomethane	ND	ug/kg	10
2-Butanone (MEK)	ND	ug/kg	10
Carbon disulfide	ND	ug/kg	5.0
Carbon tetrachloride	ND	ug/kg	5.0
Chlorobenzene	ND	ug/kg	5.0
Chloroethane	ND	ug/kg	10
Chloroform	ND	ug/kg	5.0
Chloromethane	ND	ug/kg	10
Dibromochloromethane	ND	ug/kg	5.0
1,1-Dichloroethane	ND	ug/kg	5.0
1,2-Dichloroethane	ND	ug/kg	5.0
1,1-Dichloroethene	ND	ug/kg	5.0
1,2-Dichloroethene (total)	ND	ug/kg	5.0
1,2-Dichloropropane	ND	ug/kg	5.0
cis-1,3-Dichloropropene	ND	ug/kg	5.0
trans-1,3-Dichloropropene	ND	ug/kg	5.0
Ethylbenzene	ND	ug/kg	5.0
2-Hexanone	ND	ug/kg	10
Methylene chloride	ND	ug/kg	5.0
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10
Styrene	ND	ug/kg	5.0
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0
Tetrachloroethene	ND	ug/kg	5.0
Toluene	ND	ug/kg	5.0
1,1,1-Trichloroethane	ND	ug/kg	5.0
1,1,2-Trichloroethane	ND	ug/kg	5.0
Trichloroethene	ND	ug/kg	5.0
Vinyl acetate	ND	ug/kg	10
Vinyl chloride	ND	ug/kg	10
Xylenes (total)	ND	ug/kg	5.0

Surrogate	Recovery		Limits
Toluene-d8	101	%	81-117
4-Bromofluorobenzene	99	%	75-121
1,2-Dichloroethane-d4	99	%	70-121

Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Sandra Jones

Approved By: Audrey Cornell

TCL Semivolatile Organics
Method 8270A

Quanterra Environmental Services

Client Name: Sandia National Laboratory
Client ID: (026991-003/NT3 7.5 74) (04559)
Lab ID: 046528-0001-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Received: 21 DEC 95

Prepared: 02 JAN 96
Analyzed: 10 JAN 96

Parameter	Result	Units	Reporting Limit
Phenol	ND	ug/kg	330
bis(2-Chloroethyl) ether	ND	ug/kg	330
2-Chlorophenol	ND	ug/kg	330
1,3-Dichlorobenzene	ND	ug/kg	330
1,4-Dichlorobenzene	ND	ug/kg	330
Benzyl alcohol	ND	ug/kg	330
1,2-Dichlorobenzene	ND	ug/kg	330
2-Methylphenol	ND	ug/kg	330
bis(2-Chloroisopropyl)ether	ND	ug/kg	330
4-Methylphenol	ND	ug/kg	330
N-Nitroso-di-n-propylamine	ND	ug/kg	330
Hexachloroethane	ND	ug/kg	330
Nitrobenzene	350	ug/kg	330
Isophorone	ND	ug/kg	330
2-Nitrophenol	ND	ug/kg	330
2,4-Dimethylphenol	ND	ug/kg	330
Benzoic acid	ND	ug/kg	1600
s(2-Chloroethoxy)methane	ND	ug/kg	330
,4-Dichlorophenol	ND	ug/kg	330
1,2,4-Trichlorobenzene	340	ug/kg	330
Naphthalene	ND	ug/kg	330
4-Chloroaniline	ND	ug/kg	330
Hexachlorobutadiene	ND	ug/kg	330
4-Chloro-3-methylphenol	ND	ug/kg	330
2-Methylnaphthalene	ND	ug/kg	330
Hexachlorocyclopentadiene	ND	ug/kg	330
2,4,6-Trichlorophenol	ND	ug/kg	330
2,4,5-Trichlorophenol	ND	ug/kg	1600
2-Chloronaphthalene	ND	ug/kg	330
2-Nitroaniline	ND	ug/kg	1600
Dimethyl phthalate	ND	ug/kg	330
Acenaphthylene	ND	ug/kg	330
3-Nitroaniline	ND	ug/kg	1600
Acenaphthene	ND	ug/kg	330
2,4-Dinitrophenol	ND	ug/kg	1600
4-Nitrophenol	ND	ug/kg	1600
Dibenzofuran	ND	ug/kg	330
2,4-Dinitrotoluene	ND	ug/kg	330
2,6-Dinitrotoluene	ND	ug/kg	330
Diethyl phthalate	ND	ug/kg	330
4-Chlorophenyl phenyl ether	ND	ug/kg	330
Fluorene	ND	ug/kg	330

Dilution factor is 1.0. All results and limits are corrected for dilution.

= Not Detected

Reported By: Stephanie Boehnke

Approved By: Audrey Cornell

TCL Semivolatile Organics
Method 8270A

Quanterra Environmental Services (cont.)

Client Name: Sandia National Laboratory
Client ID: (026991-003/NT3 7.5 74) (04559)
Lab ID: 046528-0001-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Received: 21 DEC 95

Prepared: 02 JAN 96
Analyzed: 10 JAN 96

Parameter	Result	Units	Reporting Limit
4-Nitroaniline	ND	ug/kg	1600
4,6-Dinitro-2-methylphenol	ND	ug/kg	1600
N-Nitrosodiphenylamine	ND	ug/kg	330
4-Bromophenyl phenyl ether	ND	ug/kg	330
Hexachlorobenzene	ND	ug/kg	330
Pentachlorophenol	ND	ug/kg	1600
Phenanthrene	ND	ug/kg	330
Anthracene	ND	ug/kg	330
Carbazole	ND	ug/kg	330
Di-n-butyl phthalate	ND	ug/kg	330
Fluoranthene	ND	ug/kg	330
Pyrene	ND	ug/kg	330
Butyl benzyl phthalate	ND	ug/kg	330
3,3'-Dichlorobenzidine	ND	ug/kg	660
Benzo(a)anthracene	ND	ug/kg	330
bis(2-Ethylhexyl)phthalate	ND	ug/kg	330
Chrysene	ND	ug/kg	330
-n-octyl phthalate	ND	ug/kg	330
Benzo(b)fluoranthene	ND	ug/kg	330
Benzo(k)fluoranthene	ND	ug/kg	330
Benzo(a)pyrene	ND	ug/kg	330
Indeno(1,2,3-cd)pyrene	ND	ug/kg	330
Dibenz(a,h)anthracene	ND	ug/kg	330
Benzo(g,h,i)perylene	ND	ug/kg	330

Surrogate	Recovery		Limits
Nitrobenzene-d5	94	%	23-120
2-Fluorobiphenyl	86	%	30-115
Terphenyl-d14	112	%	18-137
Phenol-d5	88	%	24-113
2-Fluorophenol	85	%	25-121
2,4,6-Tribromophenol	66	%	19-122

Dilution factor is 1.0. All results and limits are corrected for dilution.

= Not Detected

Reported By: Stephanie Boehnke

Approved By: Audrey Cornell

TCL Semivolatile Organics
Method 8270A

Quanterra Environmental Services

Client Name: Sandia National Laboratory
Client ID: (026991-013/NT3 7.5 74) (04559)
Lab ID: 046528-0004-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Received: 21 DEC 95

Prepared: 02 JAN 96
Analyzed: 10 JAN 96

Parameter	Result	Units	Reporting Limit
Phenol	ND	ug/kg	330
bis(2-Chloroethyl) ether	ND	ug/kg	330
2-Chlorophenol	ND	ug/kg	330
1,3-Dichlorobenzene	ND	ug/kg	330
1,4-Dichlorobenzene	ND	ug/kg	330
Benzyl alcohol	ND	ug/kg	330
1,2-Dichlorobenzene	ND	ug/kg	330
2-Methylphenol	ND	ug/kg	330
bis(2-Chloroisopropyl)ether	ND	ug/kg	330
4-Methylphenol	ND	ug/kg	330
N-Nitroso-di-n-propylamine	ND	ug/kg	330
Hexachloroethane	ND	ug/kg	330
Nitrobenzene	380	ug/kg	330
Isophorone	ND	ug/kg	330
2-Nitrophenol	ND	ug/kg	330
2,4-Dimethylphenol	ND	ug/kg	330
Benzoic acid	ND	ug/kg	1600
s(2-Chloroethoxy)methane	ND	ug/kg	330
2,4-Dichlorophenol	ND	ug/kg	330
1,2,4-Trichlorobenzene	390	ug/kg	330
Naphthalene	ND	ug/kg	330
4-Chloroaniline	ND	ug/kg	330
Hexachlorobutadiene	ND	ug/kg	330
4-Chloro-3-methylphenol	ND	ug/kg	330
2-Methylnaphthalene	ND	ug/kg	330
Hexachlorocyclopentadiene	ND	ug/kg	330
2,4,6-Trichlorophenol	ND	ug/kg	330
2,4,5-Trichlorophenol	ND	ug/kg	1600
2-Chloronaphthalene	ND	ug/kg	330
2-Nitroaniline	ND	ug/kg	1600
Dimethyl phthalate	ND	ug/kg	330
Acenaphthylene	ND	ug/kg	330
3-Nitroaniline	ND	ug/kg	1600
Acenaphthene	ND	ug/kg	330
2,4-Dinitrophenol	ND	ug/kg	1600
4-Nitrophenol	ND	ug/kg	1600
Dibenzofuran	ND	ug/kg	330
2,4-Dinitrotoluene	ND	ug/kg	330
2,6-Dinitrotoluene	ND	ug/kg	330
Diethyl phthalate	ND	ug/kg	330
4-Chlorophenyl phenyl ether	ND	ug/kg	330
Fluorene	ND	ug/kg	330

Dilution factor is 1.0. All results and limits are corrected for dilution.

= Not Detected

Reported By: Stephanie Boehnke

Approved By: Audrey Cornell

TCL Semivolatile Organics
Method 8270A

Quanterra Environmental Services (cont.)

Client Name: Sandia National Laboratory
Client ID: (026991-013/NT3 7.5 74) (04559)
Lab ID: 046528-0004-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Received: 21 DEC 95

Prepared: 02 JAN 96
Analyzed: 10 JAN 96

Parameter	Result	Units	Reporting Limit
4-Nitroaniline	ND	ug/kg	1600
4,6-Dinitro-2-methylphenol	ND	ug/kg	1600
N-Nitrosodiphenylamine	ND	ug/kg	330
4-Bromophenyl phenyl ether	ND	ug/kg	330
Hexachlorobenzene	ND	ug/kg	330
Pentachlorophenol	ND	ug/kg	1600
Phenanthrene	ND	ug/kg	330
Anthracene	ND	ug/kg	330
Carbazole	ND	ug/kg	330
Di-n-butyl phthalate	ND	ug/kg	330
Fluoranthene	ND	ug/kg	330
Pyrene	ND	ug/kg	330
Butyl benzyl phthalate	ND	ug/kg	330
3,3'-Dichlorobenzidine	ND	ug/kg	660
Benzo(a)anthracene	ND	ug/kg	330
bis(2-Ethylhexyl)phthalate	ND	ug/kg	330
Chrysene	ND	ug/kg	330
[illegible]-n-octyl phthalate	ND	ug/kg	330
Benzo(b)fluoranthene	ND	ug/kg	330
Benzo(k)fluoranthene	ND	ug/kg	330
Benzo(a)pyrene	ND	ug/kg	330
Indeno(1,2,3-cd)pyrene	ND	ug/kg	330
Dibenz(a,h)anthracene	ND	ug/kg	330
Benzo(g,h,i)perylene	ND	ug/kg	330

Surrogate	Recovery		Limits
Nitrobenzene-d5	100	%	23-120
2-Fluorobiphenyl	84	%	30-115
Terphenyl-d14	105	%	18-137
Phenol-d5	86	%	24-113
2-Fluorophenol	86	%	25-121
2,4,6-Tribromophenol	76	%	19-122

Dilution factor is 1.0. All results and limits are corrected for dilution.

= Not Detected

Reported By: Stephanie Boehnke

Approved By: Audrey Cornell

TCL Semivolatile Organics
Method 8270A

Quanterra
Environmental Services

Client Name: Sandia National Laboratory
Client ID: (026993-003/NT3 12.5 74) (04559)
Lab ID: 046528-0007-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Received: 21 DEC 95

Prepared: 02 JAN 96
Analyzed: 10 JAN 96

Parameter	Result	Units	Reporting Limit	
Phenol	ND	ug/kg	330	
bis(2-Chloroethyl) ether	ND	ug/kg	330	
2-Chlorophenol	ND	ug/kg	330	
1,3-Dichlorobenzene	ND	ug/kg	330	
1,4-Dichlorobenzene	ND	ug/kg	330	
Benzyl alcohol	ND	ug/kg	330	
1,2-Dichlorobenzene	ND	ug/kg	330	
2-Methylphenol	ND	ug/kg	330	
bis(2-Chloroisopropyl)ether	ND	ug/kg	330	
4-Methylphenol	ND	ug/kg	330	
N-Nitroso-di-n-propylamine	ND	ug/kg	330	
Hexachloroethane	ND	ug/kg	330	
Nitrobenzene	200	ug/kg	330	J
Isophorone	ND	ug/kg	330	
2-Nitrophenol	ND	ug/kg	330	
2,4-Dimethylphenol	ND	ug/kg	330	
Benzoic acid	ND	ug/kg	1600	
is(2-Chloroethoxy)methane	ND	ug/kg	330	
2,4-Dichlorophenol	ND	ug/kg	330	
1,2,4-Trichlorobenzene	160	ug/kg	330	J
Naphthalene	ND	ug/kg	330	
4-Chloroaniline	ND	ug/kg	330	
Hexachlorobutadiene	ND	ug/kg	330	
4-Chloro-3-methylphenol	ND	ug/kg	330	
2-Methylnaphthalene	ND	ug/kg	330	
Hexachlorocyclopentadiene	ND	ug/kg	330	
2,4,6-Trichlorophenol	ND	ug/kg	330	
2,4,5-Trichlorophenol	ND	ug/kg	1600	
2-Chloronaphthalene	ND	ug/kg	330	
2-Nitroaniline	ND	ug/kg	1600	
Dimethyl phthalate	ND	ug/kg	330	
Acenaphthylene	ND	ug/kg	330	
3-Nitroaniline	ND	ug/kg	1600	
Acenaphthene	ND	ug/kg	330	
2,4-Dinitrophenol	ND	ug/kg	1600	
4-Nitrophenol	ND	ug/kg	1600	
Dibenzofuran	ND	ug/kg	330	
2,4-Dinitrotoluene	ND	ug/kg	330	
2,6-Dinitrotoluene	ND	ug/kg	330	
Diethyl phthalate	ND	ug/kg	330	
4-Chlorophenyl phenyl ether	ND	ug/kg	330	

Dilution factor is 1.0. All results and limits are corrected for dilution.

J = Result is detected below the reporting limit or is an estimated concentration.
D = Not Detected

Reported By: Stephanie Boehnke

Approved By: Audrey Cornell

TCL Semivolatile Organics
Method 8270A

Quanterra Environmental Services (cont.)

ient Name: Sandia National Laboratory
Client ID: (026993-003/NT3 12.5 74) (04559)
Lab ID: 046528-0007-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Received: 21 DEC 95

Prepared: 02 JAN 96
Analyzed: 10 JAN 96

Parameter	Result	Units	Reporting Limit	
Fluorene	ND	ug/kg	330	
4-Nitroaniline	ND	ug/kg	1600	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1600	
N-Nitrosodiphenylamine	ND	ug/kg	330	
4-Bromophenyl phenyl ether	ND	ug/kg	330	
Hexachlorobenzene	ND	ug/kg	330	
Pentachlorophenol	ND	ug/kg	1600	
Phenanthrene	ND	ug/kg	330	
Anthracene	ND	ug/kg	330	
Carbazole	ND	ug/kg	330	
Di-n-butyl phthalate	ND	ug/kg	330	
Fluoranthene	ND	ug/kg	330	
Pyrene	ND	ug/kg	330	
Butyl benzyl phthalate	ND	ug/kg	330	
3,3'-Dichlorobenzidine	ND	ug/kg	660	
Benzo(a)anthracene	ND	ug/kg	330	
bis(2-Ethylhexyl)phthalate	38	ug/kg	330	J
Chrysene	ND	ug/kg	330	
di-n-octyl phthalate	ND	ug/kg	330	
Benzo(b)fluoranthene	ND	ug/kg	330	
Benzo(k)fluoranthene	ND	ug/kg	330	
Benzo(a)pyrene	ND	ug/kg	330	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	330	
Dibenz(a,h)anthracene	ND	ug/kg	330	
Benzo(g,h,i)perylene	ND	ug/kg	330	

Surrogate	Recovery		Limits
Nitrobenzene-d5	106	%	23-120
2-Fluorobiphenyl	93	%	30-115
Terphenyl-d14	115	%	18-137
Phenol-d5	94	%	24-113
2-Fluorophenol	95	%	25-121
2,4,6-Tribromophenol	72	%	19-122

Dilution factor is 1.0. All results and limits are corrected for dilution.

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Stephanie Boehnke

Approved By: Audrey Cornell

TCL Semivolatile Organics
Method 8270A

lient Name: Sandia National Laboratory
client ID: (027012-003/NT7 7.5 74) (04585)
Lab ID: 046526-0002-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Received: 21 DEC 95

Prepared: 02 JAN 96
Analyzed: 10 JAN 96

Parameter	Result	Units	Reporting Limit
Phenol	ND	ug/kg	330
bis(2-Chloroethyl) ether	ND	ug/kg	330
2-Chlorophenol	ND	ug/kg	330
1,3-Dichlorobenzene	ND	ug/kg	330
1,4-Dichlorobenzene	ND	ug/kg	330
Benzyl alcohol	ND	ug/kg	330
1,2-Dichlorobenzene	ND	ug/kg	330
2-Methylphenol	ND	ug/kg	330
bis(2-Chloroisopropyl)ether	ND	ug/kg	330
4-Methylphenol	ND	ug/kg	330
N-Nitroso-di-n-propylamine	ND	ug/kg	330
Hexachloroethane	ND	ug/kg	330
Nitrobenzene	400	ug/kg	330
Isophorone	ND	ug/kg	330
2-Nitrophenol	ND	ug/kg	330
2,4-Dimethylphenol	ND	ug/kg	330
Benzoic acid	ND	ug/kg	1600
bis(2-Chloroethoxy)methane	ND	ug/kg	330
,4-Dichlorophenol	ND	ug/kg	330
1,2,4-Trichlorobenzene	3400	ug/kg	330
Naphthalene	ND	ug/kg	330
4-Chloroaniline	ND	ug/kg	330
Hexachlorobutadiene	ND	ug/kg	330
4-Chloro-3-methylphenol	ND	ug/kg	330
2-Methylnaphthalene	ND	ug/kg	330
Hexachlorocyclopentadiene	ND	ug/kg	330
2,4,6-Trichlorophenol	ND	ug/kg	330
2,4,5-Trichlorophenol	ND	ug/kg	1600
2-Chloronaphthalene	ND	ug/kg	330
2-Nitroaniline	ND	ug/kg	1600
Dimethyl phthalate	ND	ug/kg	330
Acenaphthylene	ND	ug/kg	330
3-Nitroaniline	ND	ug/kg	1600
Acenaphthene	ND	ug/kg	330
2,4-Dinitrophenol	ND	ug/kg	1600
4-Nitrophenol	ND	ug/kg	1600
Dibenzofuran	ND	ug/kg	330
2,4-Dinitrotoluene	ND	ug/kg	330
2,6-Dinitrotoluene	ND	ug/kg	330
Diethyl phthalate	ND	ug/kg	330
4-Chlorophenyl phenyl ether	ND	ug/kg	330
Fluorene	ND	ug/kg	330

Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Stephanie Boehnke

Approved By: Roxanne Sullivan

TCL Semivolatile Organics
Method 8270A

(cont.)

Client Name: Sandia National Laboratory
Client ID: (027012-003/NT7 7.5 74) (04585)
Lab ID: 046526-0002-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Received: 21 DEC 95

Prepared: 02 JAN 96
Analyzed: 10 JAN 96

Parameter	Result	Units	Reporting Limit
4-Nitroaniline	ND	ug/kg	1600
4,6-Dinitro-2-methylphenol	ND	ug/kg	1600
N-Nitrosodiphenylamine	ND	ug/kg	330
4-Bromophenyl phenyl ether	ND	ug/kg	330
Hexachlorobenzene	ND	ug/kg	330
Pentachlorophenol	ND	ug/kg	1600
Phenanthrene	ND	ug/kg	330
Anthracene	ND	ug/kg	330
Carbazole	ND	ug/kg	330
Di-n-butyl phthalate	ND	ug/kg	330
Fluoranthene	ND	ug/kg	330
Pyrene	ND	ug/kg	330
Butyl benzyl phthalate	ND	ug/kg	330
3,3'-Dichlorobenzidine	ND	ug/kg	660
Benzo(a)anthracene	ND	ug/kg	330
bis(2-Ethylhexyl)phthalate	ND	ug/kg	330
Chrysene	ND	ug/kg	330
Di-n-octyl phthalate	ND	ug/kg	330
Benzo(b)fluoranthene	ND	ug/kg	330
Benzo(k)fluoranthene	ND	ug/kg	330
Benzo(a)pyrene	ND	ug/kg	330
Indeno(1,2,3-cd)pyrene	ND	ug/kg	330
Dibenz(a,h)anthracene	ND	ug/kg	330
Benzo(g,h,i)perylene	ND	ug/kg	330

Surrogate	Recovery		Limits
Nitrobenzene-d5	67	%	23-120
2-Fluorobiphenyl	61	%	30-115
Terphenyl-d14	73	%	18-137
Phenol-d5	56	%	24-113
2-Fluorophenol	57	%	25-121
2,4,6-Tribromophenol	40	%	19-122

Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Stephanie Boehnke

Approved By: Roxanne Sullivan

TCL Semivolatile Organics
Method 8270A

lient Name: Sandia National Laboratory
lient ID: (027014-003/NT7 12.5 74) (04585)
Lab ID: 046526-0005-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Received: 21 DEC 95

Prepared: 02 JAN 96
Analyzed: 10 JAN 96

Parameter	Result	Units	Reporting Limit
Phenol	ND	ug/kg	330
bis(2-Chloroethyl) ether	ND	ug/kg	330
2-Chlorophenol	ND	ug/kg	330
1,3-Dichlorobenzene	ND	ug/kg	330
1,4-Dichlorobenzene	ND	ug/kg	330
Benzyl alcohol	ND	ug/kg	330
1,2-Dichlorobenzene	ND	ug/kg	330
2-Methylphenol	ND	ug/kg	330
bis(2-Chloroisopropyl)ether	ND	ug/kg	330
4-Methylphenol	ND	ug/kg	330
N-Nitroso-di-n-propylamine	ND	ug/kg	330
Hexachloroethane	ND	ug/kg	330
Nitrobenzene	560	ug/kg	330
Isophorone	ND	ug/kg	330
2-Nitrophenol	ND	ug/kg	330
2,4-Dimethylphenol	ND	ug/kg	330
Benzoic acid	ND	ug/kg	1600
bis(2-Chloroethoxy)methane	ND	ug/kg	330
,4-Dichlorophenol	ND	ug/kg	330
1,2,4-Trichlorobenzene	740	ug/kg	330
Naphthalene	ND	ug/kg	330
4-Chloroaniline	ND	ug/kg	330
Hexachlorobutadiene	ND	ug/kg	330
4-Chloro-3-methylphenol	ND	ug/kg	330
2-Methylnaphthalene	ND	ug/kg	330
Hexachlorocyclopentadiene	ND	ug/kg	330
2,4,6-Trichlorophenol	ND	ug/kg	330
2,4,5-Trichlorophenol	ND	ug/kg	1600
2-Chloronaphthalene	ND	ug/kg	330
2-Nitroaniline	ND	ug/kg	1600
Dimethyl phthalate	ND	ug/kg	330
Acenaphthylene	ND	ug/kg	330
3-Nitroaniline	ND	ug/kg	1600
Acenaphthene	ND	ug/kg	330
2,4-Dinitrophenol	ND	ug/kg	1600
4-Nitrophenol	ND	ug/kg	1600
Dibenzofuran	ND	ug/kg	330
2,4-Dinitrotoluene	ND	ug/kg	330
2,6-Dinitrotoluene	ND	ug/kg	330
Diethyl phthalate	ND	ug/kg	330
4-Chlorophenyl phenyl ether	ND	ug/kg	330
Fluorene	ND	ug/kg	330

Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

eported By: Stephanie Boehnke

Approved By: Roxanne Sullivan

TCL Semivolatile Organics
Method 8270A

(cont.)

Client Name: Sandia National Laboratory
Client ID: (027014-003/NT7 12.5 74) (04585)
Lab ID: 046526-0005-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Received: 21 DEC 95

Prepared: 02 JAN 96
Analyzed: 10 JAN 96

Parameter	Result	Units	Reporting Limit
4-Nitroaniline	ND	ug/kg	1600
4,6-Dinitro-2-methylphenol	ND	ug/kg	1600
N-Nitrosodiphenylamine	ND	ug/kg	330
4-Bromophenyl phenyl ether	ND	ug/kg	330
Hexachlorobenzene	ND	ug/kg	330
Pentachlorophenol	ND	ug/kg	1600
Phenanthrene	ND	ug/kg	330
Anthracene	ND	ug/kg	330
Carbazole	ND	ug/kg	330
Di-n-butyl phthalate	ND	ug/kg	330
Fluoranthene	ND	ug/kg	330
Pyrene	ND	ug/kg	330
Butyl benzyl phthalate	ND	ug/kg	330
3,3'-Dichlorobenzidine	ND	ug/kg	660
Benzo(a)anthracene	ND	ug/kg	330
bis(2-Ethylhexyl)phthalate	ND	ug/kg	330
Chrysene	ND	ug/kg	330
Di-n-octyl phthalate	ND	ug/kg	330
Benzo(b)fluoranthene	ND	ug/kg	330
Benzo(k)fluoranthene	ND	ug/kg	330
Benzo(a)pyrene	ND	ug/kg	330
Indeno(1,2,3-cd)pyrene	ND	ug/kg	330
Dibenz(a,h)anthracene	ND	ug/kg	330
Benzo(g,h,i)perylene	ND	ug/kg	330

Surrogate	Recovery		Limits
Nitrobenzene-d5	104	%	23-120
2-Fluorobiphenyl	94	%	30-115
Terphenyl-d14	120	%	18-137
Phenol-d5	97	%	24-113
2-Fluorophenol	100	%	25-121
2,4,6-Tribromophenol	98	%	19-122

Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Stephanie Boehnke

Approved By: Roxanne Sullivan

Quanterra
Environmental Services

PCBs
Method 8080A

Client Name: Sandia National Laboratory
Client ID: (026991-003/NT3 7.5 74) (04559)
Lab ID: 046528-0001-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Received: 21 DEC 95

Prepared: 02 JAN 96
Analyzed: 12 JAN 96

Parameter	Result	Units	Reporting Limit
Aroclor 1016	ND	ug/kg	66
Aroclor 1221	ND	ug/kg	66
Aroclor 1232	ND	ug/kg	66
Aroclor 1242	ND	ug/kg	66
Aroclor 1248	ND	ug/kg	66
Aroclor 1254	ND	ug/kg	66
Aroclor 1260	170	ug/kg	66

Surrogate	Recovery		Limits
Decachlorobiphenyl	130	%	68-150

Dilution factor is 2.0. All results and limits are corrected for dilution.

J = Not Detected

Reported By: Houa Vue

Approved By: Audrey Cornell

Quanterra
Environmental Services

PCBs
Method 8080A

Client Name: Sandia National Laboratory
Client ID: (026991-013/NT3 7.5 74) (04559)
Lab ID: 046528-0004-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Received: 21 DEC 95

Prepared: 02 JAN 96
Analyzed: 12 JAN 96

Parameter	Result	Units	Reporting Limit
Aroclor 1016	ND	ug/kg	66
Aroclor 1221	ND	ug/kg	66
Aroclor 1232	ND	ug/kg	66
Aroclor 1242	ND	ug/kg	66
Aroclor 1248	ND	ug/kg	66
Aroclor 1254	ND	ug/kg	66
Aroclor 1260	160	ug/kg	66

Surrogate	Recovery		Limits
Decachlorobiphenyl	140	%	68-150

Dilution factor is 2.0. All results and limits are corrected for dilution.

, = Not Detected

Reported By: Houa Vue

Approved By: Audrey Cornell

Quanterra
Environmental Services

PCBs
Method 8080A

Client Name: Sandia National Laboratory
Client ID: (026993-003/NT3 12.5 74) (04559)
Lab ID: 046528-0007-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Received: 21 DEC 95

Prepared: 02 JAN 96
Analyzed: 13 JAN 96

Parameter	Result	Units	Reporting Limit
Aroclor 1016	ND	ug/kg	330
Aroclor 1221	ND	ug/kg	330
Aroclor 1232	ND	ug/kg	330
Aroclor 1242	ND	ug/kg	330
Aroclor 1248	ND	ug/kg	330
Aroclor 1254	ND	ug/kg	330
Aroclor 1260	670	ug/kg	330

Surrogate	Recovery		Limits
Decachlorobiphenyl	ND	%	68-150

Dilution factor is 10. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Houa Vue

Approved By: Audrey Cornell

PCBs
Method 8080A

Client Name: Sandia National Laboratory
Client ID: (027012-003/NT7 7.5 74) (04585)
Lab ID: 046526-0002-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Received: 21 DEC 95

Prepared: 02 JAN 96
Analyzed: 12 JAN 96

Parameter	Result	Units	Reporting Limit
Aroclor 1016	ND	ug/kg	66
Aroclor 1221	ND	ug/kg	66
Aroclor 1232	ND	ug/kg	66
Aroclor 1242	ND	ug/kg	66
Aroclor 1248	ND	ug/kg	66
Aroclor 1254	ND	ug/kg	66
Aroclor 1260	160	ug/kg	66

Surrogate	Recovery		Limits
Decachlorobiphenyl	130	%	68-150

Dilution factor is 2.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Houa Vue

Approved By: Audrey Cornell

PCBs
Method 8080A

lient Name: Sandia National Laboratory
Client ID: (027014-003/NT7 12.5 74) (04585)
Lab ID: 046526-0005-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Received: 21 DEC 95

Prepared: 02 JAN 96
Analyzed: 12 JAN 96

Parameter	Result	Units	Reporting Limit
Aroclor 1016	ND	ug/kg	660
Aroclor 1221	ND	ug/kg	660
Aroclor 1232	ND	ug/kg	660
Aroclor 1242	1400	ug/kg	660
Aroclor 1248	ND	ug/kg	660
Aroclor 1254	ND	ug/kg	660
Aroclor 1260	ND	ug/kg	660

Surrogate	Recovery		Limits
Decachlorobiphenyl	ND	%	68-150

Dilution factor is 20. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Houa Vue

Approved By: Audrey Cornell

Quanterra Environmental Services

Metals

Total Metals

Client Name: Sandia National Laboratory
Client ID: (026991-003/NT3 7.5 74) (04559)
Lab ID: 046528-0001-SA
Matrix: SOIL Sampled: 19 DEC 95 Received: 21 DEC 95
Authorized: 21 DEC 95 Prepared: See Below Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Chromium (VI)	94.8	mg/kg	10.0	7196A	NA	27 DEC 95

ND = Not detected
NA = Not applicable

Reported By: Mark Foster Approved By: Roxanne Sullivan

Quanterra Environmental Services

Metals

Total Metals

Client Name: Sandia National Laboratory
Client ID: (026991-013/NT3 7.5 74) (04559)
Lab ID: 046528-0004-SA
Matrix: SOIL Sampled: 19 DEC 95 Received: 21 DEC 95
Authorized: 21 DEC 95 Prepared: See Below Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Chromium (VI)	106	mg/kg	10.0	7196A	NA	27 DEC 95

ND = Not detected
NA = Not applicable

Reported By: Mark Foster Approved By: Roxanne Sullivan

Quanterra Environmental Services

Metals

Total Metals

Client Name: Sandia National Laboratory
Client ID: (026993-003/NT3 12.5 74) (04559)
Lab ID: 046528-0007-SA
Matrix: SOIL Sampled: 19 DEC 95 Received: 21 DEC 95
Authorized: 21 DEC 95 Prepared: See Below Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Chromium (VI)	96.7	mg/kg	10.0	7196A	NA	27 DEC 95

ND = Not detected
NA = Not applicable

Reported By: Mark Foster

Approved By: Roxanne Sullivan

Metals

Total Metals

Client Name: Sandia National Laboratory
Client ID: (027012-003/NT7 7.5 74) (04585)
Lab ID: 046526-0002-SA
Matrix: SOIL Sampled: 19 DEC 95 Received: 21 DEC 95
Authorized: 21 DEC 95 Prepared: See Below Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Chromium (VI)	370	mg/kg	50.0	7196A	NA	27 DEC 95

ND = Not detected
NA = Not applicable

Reported By: Mark Foster

Approved By: Roxanne Sullivan

Metals

Total Metals

Client Name: Sandia National Laboratory
Client ID: (027014-003/NT7 12.5 74) (04585)
Lab ID: 046526-0005-SA
Matrix: SOIL
Authorized: 21 DEC 95

Sampled: 19 DEC 95
Prepared: See Below

Received: 21 DEC 95
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Chromium (VI)	112	mg/kg	10.0	7196A	NA	27 DEC 95

ND = Not detected
NA = Not applicable

Reported By: Mark Foster

Approved By: Roxanne Sullivan

Quanterra Environmental Services

Metals

Total Metals

Client Name: Sandia National Laboratory
Client ID: (026991-003/NT3 7.5 74) (04559)
Lab ID: 046528-0001-SA
Matrix: SOIL Sampled: 19 DEC 95 Received: 21 DEC 95
Authorized: 21 DEC 95 Prepared: See Below Analyzed: See Below

Parameter	Result	Wet wt. Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Arsenic	3.3	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96
Barium	120	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96
Beryllium	0.42	mg/kg	0.20	6010A	10 JAN 96	11 JAN 96
Cadmium	12.1	mg/kg	0.50	6010A	10 JAN 96	11 JAN 96
Chromium	1650	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96
Cobalt	3.1	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96
Copper	602	mg/kg	2.0	6010A	10 JAN 96	11 JAN 96
Lead	6.8	mg/kg	0.30	6010A	10 JAN 96	11 JAN 96
Mercury	0.33	mg/kg	0.10	7471	11 JAN 96	11 JAN 96
Nickel	12.5	mg/kg	4.0	6010A	10 JAN 96	11 JAN 96
Selenium	0.68	mg/kg	0.50	6010A	10 JAN 96	11 JAN 96
Silver	ND	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Quanterra Environmental Services

Metals

Total Metals

Client Name: Sandia National Laboratory
Client ID: (026991-013/NT3 7.5 74) (04559)
Lab ID: 046528-0004-SA
Matrix: SOIL Sampled: 19 DEC 95 Received: 21 DEC 95
Authorized: 21 DEC 95 Prepared: See Below Analyzed: See Below

Parameter	Result	Wet wt. Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Arsenic	3.8	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96
Barium	115	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96
Beryllium	0.45	mg/kg	0.20	6010A	10 JAN 96	11 JAN 96
Cadmium	6.5	mg/kg	0.50	6010A	10 JAN 96	11 JAN 96
Chromium	3900	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96
Cobalt	3.1	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96
Copper	548	mg/kg	2.0	6010A	10 JAN 96	11 JAN 96
Lead	8.6	mg/kg	0.30	6010A	10 JAN 96	11 JAN 96
Mercury	0.60	mg/kg	0.10	7471	11 JAN 96	11 JAN 96
Nickel	10.6	mg/kg	4.0	6010A	10 JAN 96	11 JAN 96
Selenium	0.93	mg/kg	0.50	6010A	10 JAN 96	11 JAN 96
Silver	ND	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Quanterra Environmental Services

Metals

Total Metals

Client Name: Sandia National Laboratory
Client ID: (026993-003/NT3 12.5 74) (04559)
Lab ID: 046528-0007-SA
Matrix: SOIL Sampled: 19 DEC 95 Received: 21 DEC 95
Authorized: 21 DEC 95 Prepared: See Below Analyzed: See Below

Parameter	Result	Wet wt. Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Arsenic	2.6	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96
Barium	70.7	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96
Beryllium	0.40	mg/kg	0.20	6010A	10 JAN 96	11 JAN 96
Cadmium	1.7	mg/kg	0.50	6010A	10 JAN 96	11 JAN 96
Chromium	2120	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96
Cobalt	3.0	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96
Copper	1080	mg/kg	2.0	6010A	10 JAN 96	11 JAN 96
Lead	6.0	mg/kg	0.30	6010A	10 JAN 96	11 JAN 96
Mercury	0.34	mg/kg	0.10	7471	11 JAN 96	11 JAN 96
Nickel	9.2	mg/kg	4.0	6010A	10 JAN 96	11 JAN 96
Selenium	0.75	mg/kg	0.50	6010A	10 JAN 96	11 JAN 96
Silver	ND	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer

Approved By: Richard Persichitte

Metals

Total Metals

Client Name: Sandia National Laboratory
Client ID: (027012-003/NT7 7.5 74) (04585)
Lab ID: 046526-0002-SA
Matrix: SOIL Sampled: 19 DEC 95 Received: 21 DEC 95
Authorized: 21 DEC 95 Prepared: See Below Analyzed: See Below

Parameter	Result	Wet wt. Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date	
Arsenic	3.0	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96	
Barium	97.6	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96	
Beryllium	0.30	mg/kg	0.20	6010A	10 JAN 96	11 JAN 96	
Cadmium	ND	mg/kg	0.50	6010A	10 JAN 96	11 JAN 96	
Chromium	993	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96	
Cobalt	2.3	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96	
Copper	183	mg/kg	2.0	6010A	10 JAN 96	11 JAN 96	
Lead	10.9	mg/kg	0.30	6010A	10 JAN 96	11 JAN 96	
Mercury	0.076	mg/kg	0.10	7471	11 JAN 96	11 JAN 96	J
Nickel	4.8	mg/kg	4.0	6010A	10 JAN 96	11 JAN 96	
Selenium	0.54	mg/kg	0.50	6010A	10 JAN 96	11 JAN 96	
Silver	0.50	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96	J

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Metals

Total Metals

Client Name: Sandia National Laboratory
Client ID: (027014-003/NT7 12.5 74) (04585)
Lab ID: 046526-0005-SA
Matrix: SOIL Sampled: 19 DEC 95 Received: 21 DEC 95
Authorized: 21 DEC 95 Prepared: See Below Analyzed: See Below

Parameter	Result	Wet wt. Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Arsenic	2.0	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96
Barium	46.8	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96
Beryllium	0.21	mg/kg	0.20	6010A	10 JAN 96	11 JAN 96
Cadmium	1.3	mg/kg	0.50	6010A	10 JAN 96	11 JAN 96
Chromium	1490	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96
Cobalt	1.2	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96
Copper	628	mg/kg	2.0	6010A	10 JAN 96	11 JAN 96
Lead	5.9	mg/kg	0.30	6010A	10 JAN 96	11 JAN 96
Mercury	0.25	mg/kg	0.10	7471	11 JAN 96	11 JAN 96
Nickel	3.5	mg/kg	4.0	6010A	10 JAN 96	11 JAN 96 J
Selenium	ND	mg/kg	0.50	6010A	10 JAN 96	11 JAN 96
Silver	ND	mg/kg	1.0	6010A	10 JAN 96	11 JAN 96

Note J : Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

APPENDIX D:

COPIES OF LABORATORY ANALYSIS SHEETS FOR ORGANICS IN THE CATHODE EFFLUENT STREAM, THE CATHODE EXHAUST STREAM, AND THE SOIL GAS SAMPLES

Volatile Organics
Target Compound List (TCL)
Method 8240A

Quanterra Environmental Services

Client Name: Sandia National Laboratory
Client ID: (030533-001/C3 EFFLUENT) (05569)
Lab ID: 050180-0001-SA
Matrix: AQUEOUS Sampled: 10 JUL 96 Prepared: 16 JUL 96
Authorized: 12 JUL 96 Received: 12 JUL 96 Analyzed: 23 JUL 96

Parameter	Result	Units	Reporting Limit	
Acetone	25	ug/L	10	B
Benzene	ND	ug/L	5.0	
Bromodichloromethane	ND	ug/L	5.0	
Bromoform	ND	ug/L	5.0	
Bromomethane	ND	ug/L	10	
2-Butanone (MEK)	44	ug/L	10	
Carbon disulfide	ND	ug/L	5.0	
Carbon tetrachloride	ND	ug/L	5.0	
Chlorobenzene	ND	ug/L	5.0	
Chloroethane	ND	ug/L	10	
Chloroform	ND	ug/L	5.0	
Chloromethane	ND	ug/L	10	
Dibromochloromethane	ND	ug/L	5.0	
1,1-Dichloroethane	ND	ug/L	5.0	
1,2-Dichloroethane	4.8	ug/L	5.0	J
1,1-Dichloroethene	ND	ug/L	5.0	
1,2-Dichloroethene (total)	ND	ug/L	5.0	
1,2-Dichloropropane	ND	ug/L	5.0	
cis-1,3-Dichloropropene	ND	ug/L	5.0	
trans-1,3-Dichloropropene	ND	ug/L	5.0	
Ethylbenzene	ND	ug/L	5.0	
2-Hexanone	ND	ug/L	10	
Methylene chloride	2.4	ug/L	5.0	JB
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10	
Styrene	ND	ug/L	5.0	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	
Tetrachloroethene	ND	ug/L	5.0	
Toluene	ND	ug/L	5.0	
1,1,1-Trichloroethane	ND	ug/L	5.0	
1,1,2-Trichloroethane	ND	ug/L	5.0	
Trichloroethene	4.1	ug/L	5.0	J
Vinyl acetate	ND	ug/L	10	
Vinyl chloride	ND	ug/L	10	
Xylenes (total)	ND	ug/L	5.0	

Dilution factor is 1.0. All results and limits are corrected for dilution.

B = Compound is also detected in the blank.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Allen Quick Approved By: Audrey Cornell

Volatile Organics
Target Compound List (TCL)
Method 8240A

Quanterra Environmental Services (cont.)

Client Name: Sandia National Laboratory
Client ID: (030533-001/C3 EFFLUENT) (05569)
Lab ID: 050180-0001-SA
Matrix: AQUEOUS Sampled: 10 JUL 96 Prepared: 16 JUL 96
Authorized: 12 JUL 96 Received: 12 JUL 96 Analyzed: 23 JUL 96

Parameter	Result	Units	Reporting Limit
Surrogate	Recovery		Limits
Toluene-d8	95	%	88-110
4-Bromofluorobenzene	101	%	86-115
1,2-Dichloroethane-d4	97	%	76-114

Dilution factor is 1.0. All results and limits are corrected for dilution.

Reported By: Allen Quick Approved By: Audrey Cornell

VOLATILE ORGANICS ANALYSIS DATA SUMMARY SHEET
PARAMETER LIST: TO14

ENCOTEC, Inc.
3985 Research Park Dr. Ann Arbor, MI 48108
Phone:(313) 761-1389 Fax: (313) 761-1034

. roject Name Sandia National Labs
Submission ID 100015495
Sample Date 07101996
Date Received 07121996
Analyst C.TURNER
QC Set ID TOHG2901A
SDG #: SNL-ED-96G1
COC #: 05570

Project Number 76100
Report Date 08/06/96
Method TO-14
Client Sample ID 030532-001/CATHODE EXHAUST
Lab Sample ID 200092819
Matrix AIR
Analysis Requested: TO-14
Sample Comment:

Quality Control Windows:

Parameter	CAS #	Result	Flags/ Quals	Result Identifier	Quant Limit	Limit Type	Instrument Limit	Units	Dil Factor	Date Extracted	Prep Type	Date Analyzed	TIC Flag	Retention Time	RPD Results	%Rec Results	RPD	% Recovery
Benzene	71-43-2	0.001	J	SA	0.10	PQL	0.10	ppmv	1			07291996						-
Benzyl chloride	100-44-7	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
Bromomethane	74-83-9	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
Carbon tetrachloride	56-23-5	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
Chlorobenzene	108-90-7	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
Chloroethane	75-00-3	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
Chloroform	67-66-3	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
Chloromethane	74-87-3	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
3-Chloropropene	107-05-1	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
1,2-Dibromoethane	106-93-4	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
1,2-Dichlorobenzene	95-50-1	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
1,3-Dichlorobenzene	541-73-1	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
1,4-Dichlorobenzene	106-46-7	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
Dichlorodifluoromethane	75-71-8	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
1,1-Dichloroethane	75-35-3	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
1,2-Dichloroethane	107-06-2	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
1,1-Dichloroethene	75-35-4	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
cis-1,2-Dichloroethene	156-60-5	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
1,2-Dichloropropane	78-87-5	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
1,2-Dichloro-1,1,2,2-tetra-fluoroethan	76-14-2	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
cis-1,3-Dichloropropene	10061-01-5	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
trans-1,3-Dichloropropene	10061-02-6	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
Ethylbenzene	100-41-4	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
4-Ethyltoluene	622-96-8	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
Hexachlorobutadiene	87-68-3	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
Methylene chloride	75-09-2	0.004	BJ	SA	0.10	PQL	0.10	ppmv	1			07291996						-
Styrene	100-42-5	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
1,1,2,2-tetrachlorethane	79-34-5	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
Tetrachloroethene	127-18-4	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
Toluene	108-88-3	0.001	J	SA	0.10	PQL	0.10	ppmv	1			07291996						-
1,2,4-Trichlorobenzene	120-82-1	0.002	J	SA	0.10	PQL	0.10	ppmv	1			07291996						-
1,1,1-Trichloroethane	71-55-6	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
1,1,2-Trichloroethane	79-00-5	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
Trichloroethene	79-01-6	0.002	J	SA	0.10	PQL	0.10	ppmv	1			07291996						-
Trichlorofluoromethane	75-69-4	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
1,1,2-Trichloro-1,2,2-tri-fluoroethane	76-13-1	0.001	J	SA	0.10	PQL	0.10	ppmv	1			07291996						-
1,2,4-Trimethylbenzene	95-63-6	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
1,3,5-Trimethylbenzene	108-67-8	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
Vinyl chloride	75-01-4	0.10	U	SA	0.10	PQL	0.10	ppmv	1			07291996						-
o-Xylene	95-47-6	0.0008	J	SA	0.10	PQL	0.10	ppmv	1			07291996						-
m-Xylene & p-Xylene	108-38-3	0.002	J	SA	0.20	PQL	0.20	ppmv	1			07291996						-
d8-Toluene	2037-26-5			Sur				%								103	88 - 114	
BFB	460-00-4			Sur				%								94	70 - 133	
d4-1,2-Dichloroethane	17060-07-0			Sur				%								97	86 - 111	

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Volatile Organics
Target Compound List (TCL)
Method 8240A

Quanterra Environmental Services

Client Name: Sandia National Laboratory
Client ID: (031698-001/C8 EFFLUENT 74) (05919)
Lab ID: 052060-0001-SA
Matrix: AQUEOUS Sampled: 11 OCT 96 Prepared: 16 OCT 96
Authorized: 15 OCT 96 Received: 15 OCT 96 Analyzed: 17 OCT 96

Parameter	Result	Units	Reporting Limit	
Acetone	64	ug/L	10	
Benzene	ND	ug/L	5.0	
Bromodichloromethane	ND	ug/L	5.0	
Bromoform	ND	ug/L	5.0	
Bromomethane	ND	ug/L	10	
2-Butanone (MEK)	150	ug/L	10	
Carbon disulfide	ND	ug/L	5.0	
Carbon tetrachloride	ND	ug/L	5.0	
Chlorobenzene	ND	ug/L	5.0	
Chloroethane	ND	ug/L	10	
Chloroform	5.5	ug/L	5.0	
Chloromethane	18	ug/L	10	
Dibromochloromethane	ND	ug/L	5.0	
1,1-Dichloroethane	ND	ug/L	5.0	
1,2-Dichloroethane	11	ug/L	5.0	
1,1-Dichloroethene	ND	ug/L	5.0	
1,2-Dichloroethene (total)	ND	ug/L	5.0	
,2-Dichloropropane	ND	ug/L	5.0	
cis-1,3-Dichloropropene	ND	ug/L	5.0	
trans-1,3-Dichloropropene	ND	ug/L	5.0	
Ethylbenzene	ND	ug/L	5.0	
2-Hexanone	ND	ug/L	10	
Methylene chloride	3.9	ug/L	5.0	J
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10	
Styrene	ND	ug/L	5.0	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	
Tetrachloroethene	4.8	ug/L	5.0	J
Toluene	7.5	ug/L	5.0	
1,1,1-Trichloroethane	4.5	ug/L	5.0	J
1,1,2-Trichloroethane	ND	ug/L	5.0	
Trichloroethene	69	ug/L	5.0	
Vinyl acetate	ND	ug/L	10	
Vinyl chloride	ND	ug/L	10	
Xylenes (total)	ND	ug/L	5.0	

Surrogate	Recovery		Limits
Toluene-d8	98	%	88-110
4-Bromofluorobenzene	104	%	86-115
1,2-Dichloroethane-d4	101	%	76-114

Dilution factor is 1.0. All results and limits are corrected for dilution.

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Ann Biegelsen Approved By: Audrey Cornell

VOLATILE ORGANICS ANALYSIS DATA SUMMARY SHEET
PARAMETER LIST: TO14

ENCOTEC, Inc.
3985 Research Park Dr. Ann Arbor, MI 48108
Phone:(313) 761-1389 Fax: (313) 761-1034

Project Name Sandia National Labs
Submission ID 100000093
Sample Date 10111996
Date Received 10151996
Analyst C.TURNER
QC Set ID TOHJ2901A
SDG #: SNL-ED-96J1
COC #: 05918

Project Number 76100
Report Date 11/07/96
Method TO-14
Client Sample ID 031699-001/C8 EXHAUST
Lab Sample ID 200000394
Matrix AIR
Analysis Requested: VOLATILE
Sample Comment:

Quality Control Windows:

Parameter	CAS #	Result	Flags/ Quals	Result Identifier	Quant Limit	Limit Type	Instrument Limit	Units	Dil Factor	Date Extracted	Prep Type	Date Analyzed	TIC Flag	Retention Time	RPD Results	%Rec Results	RPD	% Recovery
Benzene	71-43-2	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
Benzyl chloride	100-44-7	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
Bromomethane	74-83-9	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
Carbon tetrachloride	56-23-5	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
Chlorobenzene	108-90-7	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
Chloroethane	75-00-3	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
Chloroform	67-66-3	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
Chloromethane	74-87-3	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
3-Chloropropene	107-05-1	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
1,2-Dibromoethane	106-93-4	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
1,2-Dichlorobenzene	95-50-1	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
1,3-Dichlorobenzene	541-73-1	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
1,4-Dichlorobenzene	106-46-7	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
Dichlorodifluoromethane	75-71-8	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
1,1-Dichloroethane	75-35-3	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
1,2-Dichloroethane	107-06-2	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
1,1-Dichloroethene	75-35-4	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
cis-1,2-Dichloroethene	156-60-5	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
1,2-Dichloropropane	78-87-5	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
1,2-Dichloro-1,1,2,2-tetra-fluoroethan	76-14-2	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
cis-1,3-Dichloropropene	10061-01-5	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
trans-1,3-Dichloropropene	10061-02-6	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
Ethylbenzene	100-41-4	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
4-Ethyltoluene	622-96-8	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
Hexachlorobutadiene	87-68-3	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
Methylene chloride	75-09-2	0.42		SA	0.10	PQL	0.10	mg/L	1			10291996						-
Styrene	100-42-5	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
1,1,2,2-tetrachlorethane	79-34-5	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
Tetrachloroethene	127-18-4	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
Toluene	108-88-3	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
1,2,4-Trichlorobenzene	120-82-1	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
1,1,1-Trichloroethane	71-55-6	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
1,1,2-Trichloroethane	79-00-5	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
Trichloroethene	79-01-6	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
Trichlorofluoromethane	75-69-4	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
1,1,2-Trichloro-1,2,2-tri-fluoroethane	76-13-1	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
1,2,4-Trimethylbenzene	95-63-6	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
1,3,5-Trimethylbenzene	108-67-8	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
Vinyl chloride	75-01-4	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
o-Xylene	95-47-6	0.10	U	SA	0.10	PQL	0.10	mg/L	1			10291996						-
m & p-Xylene	108-38-3	0.20	U	SA	0.20	PQL	0.20	mg/L	1			10291996						-
d8-Toluene	2037-26-5		I	Sur				%										88 - 114
BFB	460-00-4		I	Sur				%										70 - 133
d4-1,2-Dichloroethane	17060-07-0		I	Sur				%										86 - 111

VOLATILE ORGANICS ANALYSIS DATA SUMMARY SHEET
PARAMETER LIST: TO14

ENCOTEC, Inc.
3985 Research Park Dr. Ann Arbor, MI 48108
Phone:(313) 761-1389 Fax: (313) 761-1034

Project Name Sandia National Labs
Submission ID 100013487
Sample Date 03081996
Date Received 03121996
Analyst R.JESTEL
QC Set ID VOEC2601A
SDG #: SNL-ED-96C1
COC #: 04842

Project Number 76100
Report Date 04/05/96
Method TO-14
Client Sample ID 027717-001/SGN
Lab Sample ID 200080958
Matrix AIR
Analysis Requested: TO-14
Sample Comment:

Quality Control Windows:

Parameter	CAS #	Result	Flags/ Quals	Result Identifier	Quant Limit	Limit Type	Instrument Limit	Units	Dil Factor	Date Extracted	Prep Type	Date Analyzed	TIC Flag	Retention Time	RPD Results	%Rec Results	RPD	% Recovery
Benzene	71-43-2	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
Benzyl chloride	100-44-7	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
Bromomethane	74-83-9	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
Carbon tetrachloride	56-23-5	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
Chlorobenzene	108-90-7	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
Chloroethane	75-00-3	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
Chloroform	67-66-3	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
Chloromethane	74-87-3	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
3-Chloropropene	107-05-1	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
1,2-Dibromoethane	106-93-4	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
1,2-Dichlorobenzene	95-50-1	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
1,3-Dichlorobenzene	541-73-1	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
1,4-Dichlorobenzene	106-46-7	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
Dichlorodifluoromethane	75-71-8	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
1,1-Dichloroethane	75-35-3	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
1,2-Dichloroethane	107-06-2	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
1,1-Dichloroethene	75-35-4	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
cis-1,2-Dichloroethene	156-60-5	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
1,2-Dichloropropane	78-87-5	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
1,2-Dichloro-1,1,2,2-tetra-fluoroethan	76-14-2	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
cis-1,3-Dichloropropene	10061-01-5	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
trans-1,3-Dichloropropene	10061-02-6	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
Ethylbenzene	100-41-4	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
4-Ethyltoluene	622-96-8	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
Hexachlorobutadiene	87-68-3	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
Methylene chloride	75-09-2	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
Styrene	100-42-5	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
1,1,2,2-tetrachlorethane	79-34-5	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
Tetrachloroethene	127-18-4	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
Toluene	108-88-3	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
1,2,4-Trichlorobenzene	120-82-1	0.94		SA	0.50	PQL	0.10	ppmv	5			03261996						-
1,1,1-Trichloroethane	71-55-6	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
1,1,2-Trichloroethane	79-00-5	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
Trichloroethene	79-01-6	3.3		SA	0.50	PQL	0.10	ppmv	5			03261996						-
Trichlorofluoromethane	75-69-4	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
1,1,2-Trichloro-1,2,2-tri-fluoroethane	76-13-1	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
1,2,4-Trimethylbenzene	95-63-6	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
1,3,5-Trimethylbenzene	108-67-8	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
Vinyl chloride	75-01-4	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
total Xylenes	1330-20-7	0.50	U	SA	0.50	PQL	0.10	ppmv	5			03261996						-
d8-Toluene	2037-26-5			Sur				%								99	77 - 128	
BFB	460-00-4			Sur				%								102	62 - 144	
d4-1,2-Dichloroethane	17060-07-0			Sur				%								112	73 - 117	

VOLATILE ORGANICS ANALYSIS DATA SUMMARY SHEET
PARAMETER LIST: TO14

ENCOTEC, Inc.
3985 Research Park Dr. Ann Arbor, MI 48108
Phone:(313) 761-1389 Fax: (313) 761-1034

Project Name Sandia National Labs
Submission ID 100016641
Sample Date 09131996
Date Received 09171996
Analyst C.TURNER
QC Set ID TOHI2001A
SDG #: SNL-ED-9611
COC #: 05854

Project Number 76100
Report Date 10/03/96
Method TO-14
Client Sample ID 031524-001/SGN
Lab Sample ID 200089567
Matrix AIR
Analysis Requested: TO-14
Sample Comment:

Quality Control Windows:

Parameter	CAS #	Result	Flags/ Quals	Result Identifier	Quant Limit	Limit Type	Instrument Limit	Units	Dil Factor	Date Extracted	Prep Type	Date Analyzed	TIC Flag	Retention Time	RPD Results	%Rec Results	RPD	% Recovery
Benzene	71-43-2	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
Benzyl chloride	100-44-7	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
Bromomethane	74-83-9	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
Carbon tetrachloride	56-23-5	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
Chlorobenzene	108-90-7	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
Chloroethane	75-00-3	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
Chloroform	67-66-3	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
Chloromethane	74-87-3	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
3-Chloropropene	107-05-1	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
1,2-Dibromoethane	106-93-4	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
1,2-Dichlorobenzene	95-50-1	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
1,3-Dichlorobenzene	541-73-1	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
1,4-Dichlorobenzene	106-46-7	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
Dichlorodifluoromethane	75-71-8	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
1,1-Dichloroethane	75-35-3	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
1,2-Dichloroethane	107-06-2	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
1,1-Dichloroethene	75-35-4	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
cis-1,2-Dichloroethene	156-60-5	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
1,2-Dichloropropane	78-87-5	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
1,2-Dichloro-1,1,2,2-tetra-fluoroethan	76-14-2	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
cis-1,3-Dichloropropene	10061-01-5	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
trans-1,3-Dichloropropene	10061-02-6	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
Ethylbenzene	100-41-4	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
4-Ethyltoluene	622-96-8	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
Hexachlorobutadiene	87-68-3	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
Methylene chloride	75-09-2	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
Styrene	100-42-5	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
1,1,2,2-tetrachloroethane	79-34-5	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
Tetrachloroethene	127-18-4	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
Toluene	108-88-3	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
1,2,4-Trichlorobenzene	120-82-1	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
1,1,1-Trichloroethane	71-55-6	0.45	E	SA	0.10	PQL	0.10	ppmv	1			09211996						-
1,1,2-Trichloroethane	79-00-5	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
Trichloroethene	79-01-6	1.6	E	SA	0.10	PQL	0.10	ppmv	1			09211996						-
Trichlorofluoromethane	75-69-4	0.41	E	SA	0.10	PQL	0.10	ppmv	1			09211996						-
1,1,2-Trichloro-1,2,2-tri-fluoroethane	76-13-1	0.82	E	SA	0.10	PQL	0.10	ppmv	1			09211996						-
1,2,4-Trimethylbenzene	95-63-6	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
1,3,5-Trimethylbenzene	108-67-8	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
Vinyl chloride	75-01-4	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
o-Xylene	95-47-6	0.10	U	SA	0.10	PQL	0.10	ppmv	1			09211996						-
d8-Toluene	2037-26-5		I	Sur				%										88 - 114
BFB	460-00-4			Sur				%								93		70 - 133
d4-1,2-Dichloroethane	17060-07-0		I	Sur				%										86 - 111

VOLATILE ORGANICS ANALYSIS DATA SUMMARY SHEET
PARAMETER LIST: TO14

ENCOTEC, Inc.
3985 Research Park Dr. Ann Arbor, MI 48108
Phone:(313) 761-1389 Fax: (313) 761-1034

Project Name Sandia National Labs
Submission ID 100001251
Sample Date 12091996
Date Received 12121996
Analyst C.TURNER
QC Set ID TOHL1901A
SDG #: SNL-ED-96L1
COC #: 05994

Project Number 76100
Report Date 01/07/97
Method TO-14
Client Sample ID 032269-001/SGN
Lab Sample ID 200006551
Matrix AIR
Analysis Requested: TO-14
Sample Comment:

Quality Control Windows:

Parameter	CAS #	Result	Flags/ Quals	Result Identifier	Quant Limit	Limit Type	Instrument Limit	Units	Dil Factor	Date Extracted	Prep Type	Date Analyzed	TIC Flag	Retention Time	RPD Results	%Rec Results	RPD	% Recovery
Benzene	71-43-2	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
Benzyl chloride	100-44-7	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
Bromomethane	74-83-9	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
Carbon tetrachloride	56-23-5	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
Chlorobenzene	108-90-7	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
Chloroethane	75-00-3	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
Chloroform	67-66-3	1600	E	SA	50	PQL	1.0	mg/L	50			12191996						-
Chloromethane	74-87-3	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
3-Chloropropene	107-05-1	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
1,2-Dibromoethane	106-93-4	470		SA	50	PQL	1.0	mg/L	50			12191996						-
1,2-Dichlorobenzene	95-50-1	350		SA	50	PQL	1.0	mg/L	50			12191996						-
1,3-Dichlorobenzene	541-73-1	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
1,4-Dichlorobenzene	106-46-7	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
Dichlorodifluoromethane	75-71-8	380		SA	50	PQL	1.0	mg/L	50			12191996						-
1,1-Dichloroethane	75-35-3	140		SA	50	PQL	1.0	mg/L	50			12191996						-
1,2-Dichloroethane	107-06-2	360		SA	50	PQL	1.0	mg/L	50			12191996						-
1,1-Dichloroethene	75-35-4	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
cis-1,2-Dichloroethene	156-59-2	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
1,2-Dichloropropane	78-87-5	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
1,2-Dichloro-1,1,2,2-tetra-fluoroetha	76-14-2	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
cis-1,3-Dichloropropene	10061-01-5	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
trans-1,3-Dichloropropene	10061-02-6	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
Ethylbenzene	100-41-4	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
4-Ethyltoluene	622-96-8	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
Hexachlorobutadiene	87-68-3	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
Methylene chloride	75-09-2	360		SA	50	PQL	1.0	mg/L	50			12191996						-
Styrene	100-42-5	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
1,1,2,2-tetrachlorethane	79-34-5	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
Tetrachloroethene	127-18-4	2400	E	SA	50	PQL	1.0	mg/L	50			12191996						-
Toluene	108-88-3	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
1,2,4-Trichlorobenzene	120-82-1	5300	E	SA	50	PQL	1.0	mg/L	50			12191996						-
1,1,1-Trichloroethane	71-55-6	4200	E	SA	50	PQL	1.0	mg/L	50			12191996						-
1,1,2-Trichloroethane	79-00-5	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
Trichloroethene	79-01-6	19000	E	SA	50	PQL	1.0	mg/L	50			12191996						-
Trichlorofluoromethane	75-69-4	1200	E	SA	50	PQL	1.0	mg/L	50			12191996						-
1,1,2-Trichloro-1,2,2-tri-fluoroethane	76-13-1	2100	E	SA	50	PQL	1.0	mg/L	50			12191996						-
1,2,4-Trimethylbenzene	95-63-6	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
1,3,5-Trimethylbenzene	108-67-8	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
Vinyl chloride	75-01-4	50	U	SA	50	PQL	1.0	mg/L	50			12191996						-
total Xylenes	1330-20-7	76	J	SA	150	PQL	3.0	mg/L	50			12191996						-
d8-Toluene	2037-26-5			Sur				%								102		94 - 107
BFB	460-00-4			Sur				%								91		93 - 110
d4-1,2-Dichloroethane	17060-07-0			Sur				%								92		85 - 107

APPENDIX E:

COPIES OF LABORATORY ANALYSIS SHEETS FOR CHROMIUM IN WASTE EFFLUENTS

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (031693-002/A1-EFF071996 74) (05919)
Lab ID: 052060-0016-SA
Matrix: AQUEOUS
Authorized: 15 OCT 96

Sampled: 11 OCT 96
Prepared: See Below

Received: 15 OCT 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	91.2		5.0	0.050	mg/L	6010A	23 OCT 96	24 OCT 96

Reported By: Patrick Carroll

Approved By: Lyle Ryman

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (031694-002/A2-EFF071996 74) (05919)
Lab ID: 052060-0017-SA
Matrix: AQUEOUS
Authorized: 15 OCT 96

Sampled: 11 OCT 96
Prepared: See Below

Received: 15 OCT 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	23.3		5.0	0.050	mg/L	6010A	23 OCT 96	24 OCT 96

Reported By: Patrick Carroll

Approved By: Lyle Ryman

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (031695-002/A3-EFF071996 74) (05919)
Lab ID: 052060-0018-SA
Matrix: AQUEOUS Sampled: 11 OCT 96 Received: 15 OCT 96
Authorized: 15 OCT 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	85.8		2.0	0.020	mg/L	6010A	23 OCT 96	24 OCT 96

Reported By: Patrick Carroll Approved By: Lyle Ryman

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (031696-002/A4-EFF071996 74) (05919)
Lab ID: 052060-0019-SA
Matrix: AQUEOUS Sampled: 11 OCT 96 Received: 15 OCT 96
Authorized: 15 OCT 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	134		2.0	0.020	mg/L	6010A	23 OCT 96	24 OCT 96

Reported By: Patrick Carroll Approved By: Lyle Ryman

Quanterra
Environmental Services

Metals
Total Metals

C nt Name: Sandia National Laboratory
Client ID: (031697-002/A5-EFF071996 74) (05919)
Lab ID: 052060-0020-SA
Matrix: AQUEOUS
Authorized: 15 OCT 96

Sampled: 11 OCT 96
Prepared: See Below

Received: 15 OCT 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	61.7		2.0	0.020	mg/L	6010A	23 OCT 96	24 OCT 96

Reported By: Patrick Carroll

Approved By: Lyle Ryman

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (031680-001/EK-18 74) (05919)
Lab ID: 052060-0003-SA
Matrix: AQUEOUS
Authorized: 15 OCT 96

Sampled: 11 OCT 96
Prepared: See Below

Received: 15 OCT 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	60.9		2.0	0.020	mg/L	6010A	23 OCT 96	24 OCT 96

Reported By: Patrick Carroll

Approved By: Lyle Ryman

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (031681-001/EK-19 74) (05919)
Lab ID: 052060-0004-SA
Matrix: AQUEOUS
Authorized: 15 OCT 96

Sampled: 11 OCT 96
Prepared: See Below

Received: 15 OCT 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	43.1		2.0	0.020	mg/L	6010A	23 OCT 96	24 OCT 96

Reported By: Patrick Carroll

Approved By: Lyle Ryman

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (031682-001/EK-20 74) (05919)
Lab ID: 052060-0005-SA
Matrix: AQUEOUS
Authorized: 15 OCT 96

Sampled: 11 OCT 96
Prepared: See Below

Received: 15 OCT 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	290		5.0	0.050	mg/L	6010A	23 OCT 96	24 OCT 96

Reported By: Patrick Carroll

Approved By: Lyle Ryman

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (031683-001/EK-21 74) (05919)
Lab ID: 052060-0006-SA
Matrix: AQUEOUS
Authorized: 15 OCT 96

Sampled: 11 OCT 96
Prepared: See Below

Received: 15 OCT 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	51.9		2.0	0.020	mg/L	6010A	23 OCT 96	24 OCT 96

Reported By: Patrick Carroll

Approved By: Lyle Ryman

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (031684-001/EK-22 74) (05919)
Lab ID: 052060-0007-SA
Matrix: AQUEOUS
Authorized: 15 OCT 96

Sampled: 11 OCT 96
Prepared: See Below

Received: 15 OCT 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	34.9		1.0	0.010	mg/L	6010A	23 OCT 96	24 OCT 96

Reported By: Patrick Carroll

Approved By: Lyle Ryman

Quanterra
Environmental Services

Metals
Total Metals

Client Name:	Sandia National Laboratory
Client ID:	(031684-010/EK-22 74) (05919)
Lab ID:	052060-0021-SA
Matrix:	AQUEOUS
Authorized:	15 OCT 96

Sampled: 11 OCT 96
Prepared: See Below

Received: 15 OCT 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	35.5		1.0	0.010	mg/L	6010A	23 OCT 96	24 OCT 96

Reported By: Patrick Carroll

Approved By: Lyle Ryman

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (031685-001/EK-23 74) (05919)
Lab ID: 052060-0008-SA
Matrix: AQUEOUS
Authorized: 15 OCT 96

Sampled: 11 OCT 96
Prepared: See Below

Received: 15 OCT 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	24.5		1.0	0.010	mg/L	6010A	23 OCT 96	24 OCT 96

Reported By: Patrick Carroll

Approved By: Lyle Ryman

Quanterra Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (031686-001/EK-24 74) (05919)
Lab ID: 052060-0009-SA
Matrix: AQUEOUS
Authorized: 15 OCT 96

Sampled: 11 OCT 96
Prepared: See Below

Received: 15 OCT 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	61.8		2.0	0.020	mg/L	6010A	23 OCT 96	24 OCT 96

Reported By: Patrick Carroll

Approved By: Lyle Ryman

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (031687-001/EK-25 74) (05919)
Lab ID: 052060-0010-SA
Matrix: AQUEOUS
Authorized: 15 OCT 96

Sampled: 11 OCT 96
Prepared: See Below

Received: 15 OCT 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	34.1		2.0	0.020	mg/L	6010A	23 OCT 96	24 OCT 96

Reported By: Patrick Carroll

Approved By: Lyle Ryman

Quanterra
Environmental Services

Metals
Total Metals

t Name: Sandia National Laboratory
ent ID: (031688-001/EK-26 74) (05919)
Lab ID: 052060-0011-SA
Matrix: AQUEOUS
Authorized: 15 OCT 96

Sampled: 11 OCT 96
Prepared: See Below

Received: 15 OCT 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	131		2.0	0.020	mg/L	6010A	23 OCT 96	24 OCT 96

Reported By: Patrick Carroll

Approved By: Lyle Ryman

Quanterra
Environmental Services

Metals
Total Metals

nt Name: Sandia National Laboratory
ent ID: (031688-010/EK-26 74) (05919)
Lab ID: 052060-0022-SA
Matrix: AQUEOUS
Authorized: 15 OCT 96

Sampled: 11 OCT 96
Prepared: See Below

Received: 15 OCT 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	131		2.0	0.020	mg/L	6010A	23 OCT 96	24 OCT 96

Reported By: Patrick Carroll

Approved By: Lyle Ryman

Quanterra
Environmental Services

Metals
Total Metals

C nt Name: Sandia National Laboratory
ıent ID: (031689-001/EK-31 74) (05919)
Lab ID: 052060-0012-SA
Matrix: AQUEOUS Sampled: 11 OCT 96 Received: 15 OCT 96
Authorized: 15 OCT 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	42.0		1.0	0.010	mg/L	6010A	23 OCT 96	24 OCT 96

Reported By: Patrick Carroll Approved By: Lyle Ryman

Quanterra
Environmental Services

Metals
Total Metals

Cl it Name: Sandia National Laboratory
  ient ID: (031690-001/EK-32 74) (05919)
Lab ID: 052060-0013-SA
Matrix: AQUEOUS Sampled: 11 OCT 96 Received: 15 OCT 96
Authorized: 15 OCT 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	82.6		2.0	0.020	mg/L	6010A	23 OCT 96	24 OCT 96

Reported By: Patrick Carroll Approved By: Lyle Ryman

Quanterra
Environmental Services

Metals
Total Metals

Cl t Name: Sandia National Laboratory
ent ID: (031691-001/EK-33 74) (05919)
Lab ID: 052060-0014-SA
Matrix: AQUEOUS
Authorized: 15 OCT 96

Sampled: 11 OCT 96
Prepared: See Below

Received: 15 OCT 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	137		2.0	0.020	mg/L	6010A	23 OCT 96	24 OCT 96

Reported By: Patrick Carroll

Approved By: Lyle Ryman

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (031692-001/EK-34 74) (05919)
Lab ID: 052060-0015-SA
Matrix: AQUEOUS
Authorized: 15 OCT 96

Sampled: 11 OCT 96
Prepared: See Below

Received: 15 OCT 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	73.9		2.0	0.020	mg/L	6010A	23 OCT 96	24 OCT 96

Reported By: Patrick Carroll

Approved By: Lyle Ryman

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (031974-001/EK-35 74) (05992)
Lab ID: 052747-0016-SA
Matrix: AQUEOUS
Authorized: 23 NOV 96

Sampled: 21 NOV 96
Prepared: See Below

Received: 23 NOV 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	68.8		2.0	0.020	mg/L	6010A	03 DEC 96	04 DEC 96
Iron	3.7		2.0	0.20	mg/L	6010A	03 DEC 96	04 DEC 96

Reported By: Doug Gomer

Approved By: Janice Collins

Quanterra Environmental Services

Metals
Total Metals

'ent Name: Sandia National Laboratory
..ient ID: (031975-001/EK-36 74) (05992)
Lab ID: 052747-0017-SA
Matrix: AQUEOUS Sampled: 21 NOV 96 Received: 23 NOV 96
Authorized: 23 NOV 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	90.3		2.0	0.020	mg/L	6010A	03 DEC 96	04 DEC 96
Iron	4.1		2.0	0.20	mg/L	6010A	03 DEC 96	04 DEC 96

Reported By: Doug Gomer Approved By: Janice Collins

Quanterra Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (031976-001/EK-37 74) (05992)
Lab ID: 052747-0018-SA
Matrix: AQUEOUS Sampled: 21 NOV 96 Received: 23 NOV 96
Authorized: 23 NOV 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	250		5.0	0.050	mg/L	6010A	03 DEC 96	04 DEC 96
Iron	0.19	J	5.0	0.50	mg/L	6010A	03 DEC 96	04 DEC 96

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Doug Gomer Approved By: Janice Collins

Quanterra Environmental Services

Metals
Total Metals

'ent Name: Sandia National Laboratory
..ient ID: (031977-001/EK-38 74) (05992)
Lab ID: 052747-0019-SA
Matrix: AQUEOUS Sampled: 21 NOV 96 Received: 23 NOV 96
Authorized: 23 NOV 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	110		2.0	0.020	mg/L	6010A	03 DEC 96	04 DEC 96
Iron	0.49		2.0	0.20	mg/L	6010A	03 DEC 96	04 DEC 96

Reported By: Doug Gomer Approved By: Janice Collins

Quanterra Environmental Services

Metals
Total Metals

'ent Name: Sandia National Laboratory
ɔrient ID: (031978-001/EK-39 74) (05992)
Lab ID: 052747-0020-SA
Matrix: AQUEOUS Sampled: 21 NOV 96 Received: 23 NOV 96
Authorized: 23 NOV 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	87.2		2.0	0.020	mg/L	6010A	03 DEC 96	04 DEC 96
Iron	1.3		2.0	0.20	mg/L	6010A	03 DEC 96	04 DEC 96

Reported By: Doug Gomer Approved By: Janice Collins

Quanterra Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (031978-010/EK-39 74) (05992)
Lab ID: 052747-0024-SA
Matrix: AQUEOUS Sampled: 21 NOV 96 Received: 23 NOV 96
Authorized: 23 NOV 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	86.1		2.0	0.020	mg/L	6010A	03 DEC 96	04 DEC 96
Iron	1.3		2.0	0.20	mg/L	6010A	03 DEC 96	04 DEC 96

Reported By: Doug Gomer Approved By: Janice Collins

Quanterra Environmental Services

Metals
Total Metals

C ent Name: Sandia National Laboratory
ent ID: (031979-001/EK-40 74) (05992)
Lab ID: 052747-0021-SA
Matrix: AQUEOUS Sampled: 21 NOV 96 Received: 23 NOV 96
Authorized: 23 NOV 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	83.6		2.0	0.020	mg/L	6010A	03 DEC 96	04 DEC 96
Iron	0.12	J	2.0	0.20	mg/L	6010A	03 DEC 96	04 DEC 96

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Doug Gomer Approved By: Janice Collins

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (032381-001/EK-41 74) (06112)
Lab ID: 053077-0007-SA
Matrix: AQUEOUS — Sampled: 16 DEC 96 — Received: 19 DEC 96
Authorized: 19 DEC 96 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	101		2.0	0.020	mg/L	6010A	31 DEC 96	03 JAN 97
Iron	0.058	J	2.0	0.20	mg/L	6010A	31 DEC 96	03 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Patrick Carroll — Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (032382-001/EK-42 74) (06112)
Lab ID: 053077-0008-SA
Matrix: AQUEOUS Sampled: 16 DEC 96 Received: 19 DEC 96
Authorized: 19 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	122		2.0	0.020	mg/L	6010A	31 DEC 96	03 JAN 97
Iron	0.068	J	2.0	0.20	mg/L	6010A	31 DEC 96	03 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (032384-001/EK-43 74) (06112)
Lab ID: 053077-0003-SA
Matrix: AQUEOUS
Authorized: 19 DEC 96

Sampled: 16 DEC 96
Prepared: See Below

Received: 19 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	173		5.0	0.050	mg/L	6010A	31 DEC 96	03 JAN 97
Iron	15.1		5.0	0.50	mg/L	6010A	31 DEC 96	03 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (032385-001/EK-44 74) (06112)
Lab ID: 053077-0005-SA
Matrix: AQUEOUS — Sampled: 16 DEC 96 — Received: 19 DEC 96
Authorized: 19 DEC 96 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	299		5.0	0.050	mg/L	6010A	31 DEC 96	03 JAN 97
Iron	0.23	J	5.0	0.50	mg/L	6010A	31 DEC 96	03 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (032380-001/EK-45 74) (06112)
Lab ID: 053077-0001-SA
Matrix: AQUEOUS Sampled: 16 DEC 96 Received: 19 DEC 96
Authorized: 19 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	83.4		10	0.10	mg/L	6010A	31 DEC 96	03 JAN 97
Iron	0.26	J	10	1.0	mg/L	6010A	31 DEC 96	03 JAN 97

J = Result is detected below the reporting limit or is an estimated concentration.

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (032383-001/EK-46 74) (06112)
Lab ID: 053077-0006-SA
Matrix: AQUEOUS — Sampled: 16 DEC 96 — Received: 19 DEC 96
Authorized: 19 DEC 96 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	163		20	0.20	mg/L	6010A	31 DEC 96	03 JAN 97
Iron	ND		20	2.0	mg/L	6010A	31 DEC 96	03 JAN 97

ND = Not Detected

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (032386-001/EK-47 74) (06112)
Lab ID: 053077-0004-SA
Matrix: AQUEOUS — Sampled: 16 DEC 96 — Received: 19 DEC 96
Authorized: 19 DEC 96 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	255		20	0.20	mg/L	6010A	31 DEC 96	03 JAN 97
Iron	4.8		20	2.0	mg/L	6010A	31 DEC 96	03 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (032387-001/EK-48 74) (06112)
Lab ID: 053077-0002-SA
Matrix: AQUEOUS — Sampled: 16 DEC 96 — Received: 19 DEC 96
Authorized: 19 DEC 96 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	65.0		5.0	0.050	mg/L	6010A	31 DEC 96	03 JAN 97
Iron	5.2		5.0	0.50	mg/L	6010A	31 DEC 96	03 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

APPENDIX F:

COPIES OF LABORATORY ANALYSIS SHEETS FOR VOLATILE ORGANICS, CHROMIUM (VI), AND TOTAL METALS FOR DECON WATER SAMPLES AND TRIP BLANKS

Quanterra Environmental Services

Metals

Total Metals

Client Name: Sandia National Laboratory
Client ID: (026980-002/NT1 EQUIP BLK 74) (04560)
Lab ID: 046525-0011-EB
Matrix: AQUEOUS Sampled: 18 DEC 95 Received: 21 DEC 95
Authorized: 21 DEC 95 Prepared: See Below Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Arsenic	ND	mg/L	0.010	6010A	08 JAN 96	11 JAN 96
Barium	ND	mg/L	0.010	6010A	08 JAN 96	10 JAN 96
Cadmium	ND	mg/L	0.0050	6010A	08 JAN 96	10 JAN 96
Chromium	ND	mg/L	0.010	6010A	08 JAN 96	10 JAN 96
Lead	ND	mg/L	0.0030	6010A	08 JAN 96	11 JAN 96
Mercury	ND	mg/L	0.00020	7470	05 JAN 96	08 JAN 96
Selenium	ND	mg/L	0.0050	6010A	08 JAN 96	11 JAN 96
Silver	ND	mg/L	0.010	6010A	08 JAN 96	10 JAN 96

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Quanterra Environmental Services

Metals

Total Metals

Client Name: Sandia National Laboratory
Client ID: (027002-002/NT3 EQUIP BLANK - 74) (04559)
Lab ID: 046528-0018-EB
Matrix: AQUEOUS Sampled: 19 DEC 95 Received: 21 DEC 95
Authorized: 21 DEC 95 Prepared: See Below Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Arsenic	ND	mg/L	0.010	6010A	08 JAN 96	15 JAN 96
Barium	ND	mg/L	0.010	6010A	08 JAN 96	10 JAN 96
Cadmium	ND	mg/L	0.0050	6010A	08 JAN 96	10 JAN 96
Chromium	ND	mg/L	0.010	6010A	08 JAN 96	10 JAN 96
Lead	ND	mg/L	0.0030	6010A	08 JAN 96	15 JAN 96
Mercury	ND	mg/L	0.00020	7470	05 JAN 96	08 JAN 96
Selenium	ND	mg/L	0.0050	6010A	08 JAN 96	15 JAN 96
Silver	ND	mg/L	0.010	6010A	08 JAN 96	10 JAN 96

ND = Not detected
NA = Not applicable

Reported By: Doug Gomer Approved By: Richard Persichitte

Quanterra Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (027004-007/WT7 74) (04584)
Lab ID: 046527-0001-EB
Matrix: AQUEOUS Sampled: 19 DEC 95 Received: 21 DEC 95
Authorized: 21 DEC 95 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium (VI)	ND		1.0	0.010	mg/L	7196A	NA	21 DEC 95

ND = Not Detected

Reported By: Mark Foster Approved By: Roxanne Sullivan

Volatile Organics
Target Compound List (TCL)
Method 8240A

Quanterra Environmental Services

Client Name: Sandia National Laboratory
Client ID: (027005-005/NT7 74) (04584)
Lab ID: 046527-0002-EB
Matrix: AQUEOUS Sampled: 19 DEC 95 Prepared: 26 DEC 95
Authorized: 21 DEC 95 Received: 21 DEC 95 Analyzed: 28 DEC 95

Parameter	Result	Units	Reporting Limit
Acetone	ND	ug/L	10
Benzene	ND	ug/L	5.0
Bromodichloromethane	ND	ug/L	5.0
Bromoform	ND	ug/L	5.0
Bromomethane	ND	ug/L	10
2-Butanone (MEK)	ND	ug/L	10
Carbon disulfide	ND	ug/L	5.0
Carbon tetrachloride	ND	ug/L	5.0
Chlorobenzene	ND	ug/L	5.0
Chloroethane	ND	ug/L	10
Chloroform	ND	ug/L	5.0
Chloromethane	ND	ug/L	10
Dibromochloromethane	ND	ug/L	5.0
1,1-Dichloroethane	ND	ug/L	5.0
1,2-Dichloroethane	ND	ug/L	5.0
1,1-Dichloroethene	ND	ug/L	5.0
1,2-Dichloroethene (total)	ND	ug/L	5.0
1,2-Dichloropropane	ND	ug/L	5.0
cis-1,3-Dichloropropene	ND	ug/L	5.0
trans-1,3-Dichloropropene	ND	ug/L	5.0
Ethylbenzene	ND	ug/L	5.0
2-Hexanone	ND	ug/L	10
Methylene chloride	ND	ug/L	5.0
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10
Styrene	ND	ug/L	5.0
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0
Tetrachloroethene	ND	ug/L	5.0
Toluene	ND	ug/L	5.0
1,1,1-Trichloroethane	ND	ug/L	5.0
1,1,2-Trichloroethane	ND	ug/L	5.0
Trichloroethene	ND	ug/L	5.0
Vinyl acetate	ND	ug/L	10
Vinyl chloride	ND	ug/L	10
Xylenes (total)	ND	ug/L	5.0

Surrogate	Recovery		Limits
Toluene-d8	101	%	88-110
4-Bromofluorobenzene	103	%	86-115
1,2-Dichloroethane-d4	93	%	76-114

Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Mike Hoffman Approved By: Roxanne Sullivan

Volatile Organics
Target Compound List (TCL)
Method 8240A

Quanterra Environmental Services

Client Name: Sandia National Laboratory
Client ID: (027011-012/NT7 74) (04584)
Lab ID: 046527-0007-TB
Matrix: AQUEOUS Sampled: 19 DEC 95 Prepared: 26 DEC 95
Authorized: 21 DEC 95 Received: 21 DEC 95 Analyzed: 28 DEC 95

Parameter	Result	Units	Reporting Limit	
Acetone	ND	ug/L	10	
Benzene	ND	ug/L	5.0	
Bromodichloromethane	ND	ug/L	5.0	
Bromoform	ND	ug/L	5.0	
Bromomethane	ND	ug/L	10	
2-Butanone (MEK)	ND	ug/L	10	
Carbon disulfide	ND	ug/L	5.0	
Carbon tetrachloride	ND	ug/L	5.0	
Chlorobenzene	ND	ug/L	5.0	
Chloroethane	ND	ug/L	10	
Chloroform	ND	ug/L	5.0	
Chloromethane	ND	ug/L	10	
Dibromochloromethane	ND	ug/L	5.0	
1,1-Dichloroethane	ND	ug/L	5.0	
1,2-Dichloroethane	ND	ug/L	5.0	
1,1-Dichloroethene	ND	ug/L	5.0	
1,2-Dichloroethene (total)	ND	ug/L	5.0	
1,2-Dichloropropane	ND	ug/L	5.0	
cis-1,3-Dichloropropene	ND	ug/L	5.0	
trans-1,3-Dichloropropene	ND	ug/L	5.0	
Ethylbenzene	ND	ug/L	5.0	
2-Hexanone	ND	ug/L	10	
Methylene chloride	1.2	ug/L	5.0	J
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10	
Styrene	ND	ug/L	5.0	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	
Tetrachloroethene	ND	ug/L	5.0	
Toluene	ND	ug/L	5.0	
1,1,1-Trichloroethane	ND	ug/L	5.0	
1,1,2-Trichloroethane	ND	ug/L	5.0	
Trichloroethene	ND	ug/L	5.0	
Vinyl acetate	ND	ug/L	10	
Vinyl chloride	ND	ug/L	10	
Xylenes (total)	ND	ug/L	5.0	

Surrogate	Recovery		Limits
Toluene-d8	100	%	88-110
4-Bromofluorobenzene	101	%	86-115
1,2-Dichloroethane-d4	92	%	76-114

Dilution factor is 1.0. All results and limits are corrected for dilution.

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Mike Hoffman Approved By: Roxanne Sullivan

Semivolatile Organics
Target Compound List (TCL)
Method 8270A

Quanterra Environmental Services

Client Name: Sandia National Laboratory
Client ID: (027008-006/NT7 74) (04584)
Lab ID: 046527-0003-EB
Matrix: AQUEOUS Sampled: 19 DEC 95 Prepared: 26 DEC 95
Authorized: 21 DEC 95 Received: 21 DEC 95 Analyzed: 02 JAN 96

Parameter	Result	Units	Reporting Limit
Acenaphthene	ND	ug/L	10
Acenaphthylene	ND	ug/L	10
Anthracene	ND	ug/L	10
Benzo(a)anthracene	ND	ug/L	10
Benzo(b)fluoranthene	ND	ug/L	10
Benzo(k)fluoranthene	ND	ug/L	10
Benzo(g,h,i)perylene	ND	ug/L	10
Benzo(a)pyrene	ND	ug/L	10
Benzoic acid	ND	ug/L	50
Benzyl alcohol	ND	ug/L	10
4-Bromophenyl phenyl ether	ND	ug/L	10
Butyl benzyl phthalate	ND	ug/L	10
Carbazole	ND	ug/L	10
4-Chloroaniline	ND	ug/L	10
bis(2-Chloroethoxy)methane	ND	ug/L	10
bis(2-Chloroethyl) ether	ND	ug/L	10
bis(2-Chloroisopropyl)ether	ND	ug/L	10
4-Chloro-3-methylphenol	ND	ug/L	10
2-Chloronaphthalene	ND	ug/L	10
2-Chlorophenol	ND	ug/L	10
4-Chlorophenyl phenyl ether	ND	ug/L	10
Chrysene	ND	ug/L	10
Dibenz(a,h)anthracene	ND	ug/L	10
Dibenzofuran	ND	ug/L	10
Di-n-butyl phthalate	ND	ug/L	10
1,2-Dichlorobenzene	ND	ug/L	10
1,3-Dichlorobenzene	ND	ug/L	10
1,4-Dichlorobenzene	ND	ug/L	10
3,3'-Dichlorobenzidine	ND	ug/L	20
2,4-Dichlorophenol	ND	ug/L	10
Diethyl phthalate	ND	ug/L	10
2,4-Dimethylphenol	ND	ug/L	10
Dimethyl phthalate	ND	ug/L	10
4,6-Dinitro-2-methylphenol	ND	ug/L	50
2,4-Dinitrophenol	ND	ug/L	50
2,4-Dinitrotoluene	ND	ug/L	10
2,6-Dinitrotoluene	ND	ug/L	10
Di-n-octyl phthalate	ND	ug/L	10
bis(2-Ethylhexyl)phthalate	ND	ug/L	10
Fluoranthene	ND	ug/L	10
Fluorene	ND	ug/L	10

Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Stephanie Boehnke Approved By: Roxanne Sullivan

Semivolatile Organics
Target Compound List (TCL)
Method 8270A

Quanterra Environmental Services

Client Name: Sandia National Laboratory
Client ID: (027008-006/NT7 74) (04584)
Lab ID: 046527-0003-EB
Matrix: AQUEOUS Sampled: 19 DEC 95 Prepared: 26 DEC 95
Authorized: 21 DEC 95 Received: 21 DEC 95 Analyzed: 02 JAN 96

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	ug/L	10
Hexachlorobutadiene	ND	ug/L	10
Hexachlorocyclopentadiene	ND	ug/L	10
Hexachloroethane	ND	ug/L	10
Indeno(1,2,3-cd)pyrene	ND	ug/L	10
Isophorone	ND	ug/L	10
2-Methylnaphthalene	ND	ug/L	10
2-Methylphenol	ND	ug/L	10
4-Methylphenol	ND	ug/L	10
Naphthalene	ND	ug/L	10
2-Nitroaniline	ND	ug/L	50
3-Nitroaniline	ND	ug/L	50
4-Nitroaniline	ND	ug/L	50
Nitrobenzene	ND	ug/L	10
2-Nitrophenol	ND	ug/L	10
4-Nitrophenol	ND	ug/L	50
N-Nitrosodiphenylamine	ND	ug/L	10
N-Nitroso-di-n-propylamine	ND	ug/L	10
Pentachlorophenol	ND	ug/L	50
Phenanthrene	ND	ug/L	10
Phenol	ND	ug/L	10
Pyrene	ND	ug/L	10
1,2,4-Trichlorobenzene	ND	ug/L	10
2,4,5-Trichlorophenol	ND	ug/L	50
2,4,6-Trichlorophenol	ND	ug/L	10

Surrogate	Recovery		Limits
Nitrobenzene-d5	101	%	35-114
2-Fluorobiphenyl	98	%	43-116
Terphenyl-d14	102	%	33-141
Phenol-d5	97	%	54-105
2-Fluorophenol	94	%	21-100
2,4,6-Tribromophenol	102	%	10-123

Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Stephanie Boehnke Approved By: Roxanne Sullivan

PCBs
Method 8080A

Quanterra Environmental Services

Client Name: Sandia National Laboratory
Client ID: (027010-008/NT7 74) (04584)
Lab ID: 046527-0005-EB
Matrix: AQUEOUS Sampled: 19 DEC 95 Prepared: 26 DEC 95
Authorized: 21 DEC 95 Received: 21 DEC 95 Analyzed: 28 DEC 95

Parameter	Result	Units	Reporting Limit
Aroclor 1016	ND	ug/L	1.0
Aroclor 1221	ND	ug/L	1.0
Aroclor 1232	ND	ug/L	1.0
Aroclor 1242	ND	ug/L	1.0
Aroclor 1248	ND	ug/L	1.0
Aroclor 1254	ND	ug/L	1.0
Aroclor 1260	ND	ug/L	1.0

Surrogate	Recovery		Limits
Decachlorobiphenyl	56	%	60-150

Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Houa Vue Approved By: Roxanne Sullivan

PCBs
Method 8080A

Quanterra Environmental Services

Client Name: Sandia National Laboratory
Client ID: (027011-008/NT7 74) (04584)
Lab ID: 046527-0006-EB
Matrix: AQUEOUS Sampled: 19 DEC 95 Prepared: 26 DEC 95
Authorized: 21 DEC 95 Received: 21 DEC 95 Analyzed: 28 DEC 95

Parameter	Result	Units	Reporting Limit
Aroclor 1016	ND	ug/L	1.0
Aroclor 1221	ND	ug/L	1.0
Aroclor 1232	ND	ug/L	1.0
Aroclor 1242	ND	ug/L	1.0
Aroclor 1248	ND	ug/L	1.0
Aroclor 1254	ND	ug/L	1.0
Aroclor 1260	ND	ug/L	1.0

Surrogate	Recovery		Limits
Decachlorobiphenyl	64	%	60-150

Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Houa Vue Approved By: Roxanne Sullivan

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (027045-002/C5 74) (04649)
Lab ID: 046932-0008-EB
Matrix: AQUEOUS — Sampled: 18 JAN 96 — Received: 24 JAN 96
Authorized: 24 JAN 96 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Barium	ND		1.0	0.010	mg/L	6010A	29 JAN 96	31 JAN 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	29 JAN 96	31 JAN 96
Chromium	0.0044	J	1.0	0.010	mg/L	6010A	29 JAN 96	31 JAN 96
Silver	ND		1.0	0.010	mg/L	6010A	29 JAN 96	31 JAN 96
Arsenic	ND		1.0	0.010	mg/L	6010A	29 JAN 96	06 FEB 96
Lead	ND		1.0	0.0030	mg/L	6010A	29 JAN 96	06 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96
Selenium	ND		1.0	0.0050	mg/L	6010A	29 JAN 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Mark Woolley — Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (027046-002/C3 74) (04650)
Lab ID: 046926-0008-EB
Matrix: AQUEOUS Sampled: 19 JAN 96 Received: 24 JAN 96
Authorized: 24 JAN 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Barium	ND		1.0	0.010	mg/L	6010A	29 JAN 96	31 JAN 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	29 JAN 96	31 JAN 96
Chromium	0.013		1.0	0.010	mg/L	6010A	29 JAN 96	31 JAN 96
Silver	ND		1.0	0.010	mg/L	6010A	29 JAN 96	31 JAN 96
Arsenic	ND		1.0	0.010	mg/L	6010A	29 JAN 96	06 FEB 96
Lead	ND		1.0	0.0030	mg/L	6010A	29 JAN 96	06 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96
Selenium	ND		1.0	0.0050	mg/L	6010A	29 JAN 96	06 FEB 96

ND = Not Detected

Reported By: Mark Woolley Approved By: Richard Persichitte

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (027065-002/EQUIP RINSATE 74) (04652)
Lab ID: 046946-0009-EB
Matrix: AQUEOUS Sampled: 23 JAN 96 Received: 25 JAN 96
Authorized: 25 JAN 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Barium	0.0046	J	1.0	0.010	mg/L	6010A	29 JAN 96	31 JAN 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	29 JAN 96	31 JAN 96
Chromium	0.023		1.0	0.010	mg/L	6010A	29 JAN 96	31 JAN 96
Silver	ND		1.0	0.010	mg/L	6010A	29 JAN 96	31 JAN 96
Arsenic	ND		1.0	0.010	mg/L	6010A	29 JAN 96	06 FEB 96
Lead	ND		1.0	0.0030	mg/L	6010A	29 JAN 96	06 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96
Selenium	ND		1.0	0.0050	mg/L	6010A	29 JAN 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Mark Woolley Approved By: Richard Persichitte

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (027066-012/TAP WATER BLANK 74) (04652)
Lab ID: 046946-0010-SA
Matrix: AQUEOUS Sampled: 23 JAN 96 Received: 25 JAN 96
Authorized: 25 JAN 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Barium	0.084		1.0	0.010	mg/L	6010A	29 JAN 96	31 JAN 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	29 JAN 96	31 JAN 96
Chromium	ND		1.0	0.010	mg/L	6010A	29 JAN 96	31 JAN 96
Silver	ND		1.0	0.010	mg/L	6010A	29 JAN 96	31 JAN 96
Arsenic	ND		1.0	0.010	mg/L	6010A	29 JAN 96	06 FEB 96
Lead	ND		1.0	0.0030	mg/L	6010A	29 JAN 96	06 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96
Selenium	ND		1.0	0.0050	mg/L	6010A	29 JAN 96	06 FEB 96

ND = Not Detected

Reported By: Mark Woolley Approved By: Richard Persichitte

Volatile Organics
Target Compound List (TCL)
Method 8240A

Quanterra Environmental Services

Client Name: Sandia National Laboratory
Client ID: (030534-001/TRIP BLANK) (05569)
Lab ID: 050180-0002-SA
Matrix: AQUEOUS Sampled: 10 JUL 96 Prepared: 16 JUL 96
Authorized: 12 JUL 96 Received: 12 JUL 96 Analyzed: 23 JUL 96

Parameter	Result	Units	Reporting Limit	
Acetone	8.7	ug/L	10	JB
Benzene	ND	ug/L	5.0	
Bromodichloromethane	ND	ug/L	5.0	
Bromoform	ND	ug/L	5.0	
Bromomethane	ND	ug/L	10	
2-Butanone (MEK)	ND	ug/L	10	
Carbon disulfide	ND	ug/L	5.0	
Carbon tetrachloride	ND	ug/L	5.0	
Chlorobenzene	ND	ug/L	5.0	
Chloroethane	ND	ug/L	10	
Chloroform	ND	ug/L	5.0	
Chloromethane	ND	ug/L	10	
Dibromochloromethane	ND	ug/L	5.0	
1,1-Dichloroethane	ND	ug/L	5.0	
1,2-Dichloroethane	ND	ug/L	5.0	
1,1-Dichloroethene	ND	ug/L	5.0	
1,2-Dichloroethene (total)	ND	ug/L	5.0	
1,2-Dichloropropane	ND	ug/L	5.0	
cis-1,3-Dichloropropene	ND	ug/L	5.0	
trans-1,3-Dichloropropene	ND	ug/L	5.0	
Ethylbenzene	ND	ug/L	5.0	
2-Hexanone	ND	ug/L	10	
Methylene chloride	1.4	ug/L	5.0	JB
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10	
Styrene	ND	ug/L	5.0	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	
Tetrachloroethene	ND	ug/L	5.0	
Toluene	ND	ug/L	5.0	
1,1,1-Trichloroethane	ND	ug/L	5.0	
1,1,2-Trichloroethane	ND	ug/L	5.0	
Trichloroethene	ND	ug/L	5.0	
Vinyl acetate	ND	ug/L	10	
Vinyl chloride	ND	ug/L	10	
Xylenes (total)	ND	ug/L	5.0	

Dilution factor is 1.0. All results and limits are corrected for dilution.

B = Compound is also detected in the blank.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Allen Quick Approved By: Audrey Cornell

Volatile Organics
Target Compound List (TCL)
Method 8240A

Quanterra Environmental Services (cont.)

Client Name: Sandia National Laboratory
Client ID: (030534-001/TRIP BLANK) (05569)
Lab ID: 050180-0002-SA
Matrix: AQUEOUS Sampled: 10 JUL 96 Prepared: 16 JUL 96
Authorized: 12 JUL 96 Received: 12 JUL 96 Analyzed: 23 JUL 96

Parameter	Result	Units	Reporting Limit
Surrogate	Recovery		Limits
Toluene-d8	99	%	88-110
4-Bromofluorobenzene	95	%	86-115
1,2-Dichloroethane-d4	91	%	76-114

Dilution factor is 1.0. All results and limits are corrected for dilution.

Reported By: Allen Quick Approved By: Audrey Cornell

Volatile Organics
Target Compound List (TCL)
Method 8240A

Quanterra
Environmental Services

Client Name: Sandia National Laboratory
Client ID: (031700-001/TRIP BLANK) (05919)
Lab ID: 052060-0002-TB
Matrix: AQUEOUS Sampled: 11 OCT 96 Prepared: 16 OCT 96
Authorized: 15 OCT 96 Received: 15 OCT 96 Analyzed: 17 OCT 96

Parameter	Result	Units	Reporting Limit
Acetone	ND	ug/L	10
Benzene	ND	ug/L	5.0
Bromodichloromethane	ND	ug/L	5.0
Bromoform	ND	ug/L	5.0
Bromomethane	ND	ug/L	10
2-Butanone (MEK)	ND	ug/L	10
Carbon disulfide	ND	ug/L	5.0
Carbon tetrachloride	ND	ug/L	5.0
Chlorobenzene	ND	ug/L	5.0
Chloroethane	ND	ug/L	10
Chloroform	ND	ug/L	5.0
Chloromethane	ND	ug/L	10
Dibromochloromethane	ND	ug/L	5.0
1,1-Dichloroethane	ND	ug/L	5.0
1,2-Dichloroethane	ND	ug/L	5.0
1,1-Dichloroethene	ND	ug/L	5.0
1,2-Dichloroethene (total)	ND	ug/L	5.0
,2-Dichloropropane	ND	ug/L	5.0
cis-1,3-Dichloropropene	ND	ug/L	5.0
trans-1,3-Dichloropropene	ND	ug/L	5.0
Ethylbenzene	ND	ug/L	5.0
2-Hexanone	ND	ug/L	10
Methylene chloride	ND	ug/L	5.0
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10
Styrene	ND	ug/L	5.0
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0
Tetrachloroethene	ND	ug/L	5.0
Toluene	ND	ug/L	5.0
1,1,1-Trichloroethane	ND	ug/L	5.0
1,1,2-Trichloroethane	ND	ug/L	5.0
Trichloroethene	ND	ug/L	5.0
Vinyl acetate	ND	ug/L	10
Vinyl chloride	ND	ug/L	10
Xylenes (total)	ND	ug/L	5.0

Surrogate	Recovery		Limits
Toluene-d8	101	%	88-110
4-Bromofluorobenzene	104	%	86-115
1,2-Dichloroethane-d4	100	%	76-114

Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Ann Biegelsen Approved By: Audrey Cornell

Quanterra Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (032273-001/PT2 DECON 74) (05993)
Lab ID: 052983-0012-SA
Matrix: AQUEOUS Sampled: 09 DEC 96 Received: 12 DEC 96
Authorized: 12 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.011		1.0	0.010	mg/L	6010A	31 DEC 96	03 JAN 97

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (032297-001/PT8 74) (06077)
Lab ID: 052998-0013-EB
Matrix: AQUEOUS — Sampled: 10 DEC 96 — Received: 13 DEC 96
Authorized: 13 DEC 96 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.034		1.0	0.010	mg/L	6010A	31 DEC 96	03 JAN 97

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (032322-001/PT4 Decon) (06078)
Lab ID: 052999-0006-EB
Matrix: AQUEOUS Sampled: 11 DEC 96 Received: 13 DEC 96
Authorized: 13 DEC 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.010		1.0	0.010	mg/L	6010A	31 DEC 96	03 JAN 97

Reported By: Patrick Carroll Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (032341-001/PT12 74) (06080)
LAB ID: 053026-0016-SA
Matrix: AQUEOUS
Authorized: 14 DEC 96

Sampled: 12 DEC 96
Prepared: See Below

Received: 14 DEC 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Chromium	0.054		1.0	0.010	mg/L	6010A	20 DEC 96	24 DEC 96

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (032362-001/PT7 74) (06081)
Lab ID: 053046-0003-SA
Matrix: AQUEOUS
Authorized: 17 DEC 96

Sampled: 13 DEC 96
Prepared: See Below

Received: 17 DEC 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Chromium	0.096		1.0	0.010	mg/L	6010A	20 DEC 96	24 DEC 96

Reported By: Patrick Carroll

Approved By: Richard Persichitte

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (027065-002/EQUIP RINSATE 74) (04652)
Lab ID: 046946-0009-EB
Matrix: AQUEOUS Sampled: 23 JAN 96 Received: 25 JAN 96
Authorized: 25 JAN 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Barium	0.0046	J	1.0	0.010	mg/L	6010A	29 JAN 96	31 JAN 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	29 JAN 96	31 JAN 96
Chromium	0.023		1.0	0.010	mg/L	6010A	29 JAN 96	31 JAN 96
Silver	ND		1.0	0.010	mg/L	6010A	29 JAN 96	31 JAN 96
Arsenic	ND		1.0	0.010	mg/L	6010A	29 JAN 96	06 FEB 96
Lead	ND		1.0	0.0030	mg/L	6010A	29 JAN 96	06 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96
Selenium	ND		1.0	0.0050	mg/L	6010A	29 JAN 96	06 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Mark Woolley Approved By: Richard Persichitte

Metals
Total Metals

Client Name: Sandia National Laboratory
nt ID: (027066-012/TAP WATER BLANK 74) (04652)
ID: 046946-0010-SA
Matrix: AQUEOUS Sampled: 23 JAN 96 Received: 25 JAN 96
Authorized: 25 JAN 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Barium	0.084		1.0	0.010	mg/L	6010A	29 JAN 96	31 JAN 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	29 JAN 96	31 JAN 96
Chromium	ND		1.0	0.010	mg/L	6010A	29 JAN 96	31 JAN 96
Silver	ND		1.0	0.010	mg/L	6010A	29 JAN 96	31 JAN 96
Arsenic	ND		1.0	0.010	mg/L	6010A	29 JAN 96	06 FEB 96
Lead	ND		1.0	0.0030	mg/L	6010A	29 JAN 96	06 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	29 JAN 96	30 JAN 96
Selenium	ND		1.0	0.0050	mg/L	6010A	29 JAN 96	06 FEB 96

ND = Not Detected

Reported By: Mark Woolley Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
Total Metals

nt Name: Sandia National Laboratory
ent ID: (027073-002/C10 74) (04653)
Lab ID: 047021-0004-EB
Matrix: AQUEOUS Sampled: 25 JAN 96 Received: 30 JAN 96
Authorized: 30 JAN 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Barium	0.0045	J	1.0	0.010	mg/L	6010A	08 FEB 96	09 FEB 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	08 FEB 96	09 FEB 96
Chromium	0.012		1.0	0.010	mg/L	6010A	08 FEB 96	09 FEB 96
Silver	ND		1.0	0.010	mg/L	6010A	08 FEB 96	09 FEB 96
Arsenic	ND		1.0	0.010	mg/L	6010A	08 FEB 96	08 FEB 96
Lead	0.012		1.0	0.0030	mg/L	6010A	08 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	01 FEB 96	01 FEB 96
Selenium	ND		1.0	0.0050	mg/L	6010A	08 FEB 96	08 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Mark Woolley Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
Total Metals

ent Name: Sandia National Laboratory
ent ID: (027080-002/C9 74) (04587)
Lab ID: 047025-0006-EB
Matrix: AQUEOUS Sampled: 26 JAN 96 Received: 30 JAN 96
Authorized: 30 JAN 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Barium	0.0026	J	1.0	0.010	mg/L	6010A	08 FEB 96	09 FEB 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	08 FEB 96	09 FEB 96
Chromium	0.0067	J	1.0	0.010	mg/L	6010A	08 FEB 96	09 FEB 96
Silver	ND		1.0	0.010	mg/L	6010A	08 FEB 96	09 FEB 96
Arsenic	ND		1.0	0.010	mg/L	6010A	08 FEB 96	08 FEB 96
Lead	0.017		1.0	0.0030	mg/L	6010A	08 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	01 FEB 96	01 FEB 96
Selenium	ND		1.0	0.0050	mg/L	6010A	08 FEB 96	08 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Mark Woolley Approved By: Richard Persichitte

Metals
Total Metals

ent Name: Sandia National Laboratory
ent ID: (027101-002/A3 74) (04728)
Lab ID: 047086-0008-EB
Matrix: AQUEOUS Sampled: 01 FEB 96 Received: 03 FEB 96
Authorized: 03 FEB 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Barium	0.0028	J	1.0	0.010	mg/L	6010A	08 FEB 96	09 FEB 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	08 FEB 96	09 FEB 96
Chromium	0.071		1.0	0.010	mg/L	6010A	08 FEB 96	09 FEB 96
Silver	ND		1.0	0.010	mg/L	6010A	08 FEB 96	09 FEB 96
Arsenic	ND		1.0	0.010	mg/L	6010A	08 FEB 96	08 FEB 96
Lead	0.015		1.0	0.0030	mg/L	6010A	08 FEB 96	08 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	06 FEB 96	06 FEB 96
Selenium	ND		1.0	0.0050	mg/L	6010A	08 FEB 96	08 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Mark Woolley Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
t ID: (027114-002/A5 74 (04729)
D: 047155-0008-EB
Matrix: AQUEOUS
Authorized: 08 FEB 96

Sampled: 05 FEB 96
Prepared: See Below

Received: 08 FEB 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Barium	ND		1.0	0.010	mg/L	6010A	09 FEB 96	12 FEB 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	09 FEB 96	12 FEB 96
Chromium	0.050		1.0	0.010	mg/L	6010A	09 FEB 96	12 FEB 96
Silver	ND		1.0	0.010	mg/L	6010A	09 FEB 96	12 FEB 96
Arsenic	ND		1.0	0.010	mg/L	6010A	09 FEB 96	12 FEB 96
Lead	0.011		1.0	0.0030	mg/L	6010A	09 FEB 96	12 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	28 FEB 96	29 FEB 96
Selenium	ND		1.0	0.0050	mg/L	6010A	09 FEB 96	12 FEB 96

ND = Not Detected

Reported By: Mark Woolley

Approved By: Richard Persichitte

Quanterra
Environmental Services

Metals
Total Metals

Client Name: Sandia National Laboratory
Client ID: (027119-002/A1 74) (04730)
Lab ID: 047158-0006-EB
Matrix: AQUEOUS
Authorized: 08 FEB 96

Sampled: 06 FEB 96
Prepared: See Below

Received: 08 FEB 96
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Barium	0.0031	J	1.0	0.010	mg/L	6010A	09 FEB 96	12 FEB 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	09 FEB 96	12 FEB 96
Chromium	0.0072	J	1.0	0.010	mg/L	6010A	09 FEB 96	12 FEB 96
Silver	ND		1.0	0.010	mg/L	6010A	09 FEB 96	12 FEB 96
Arsenic	ND		1.0	0.010	mg/L	6010A	09 FEB 96	12 FEB 96
Lead	0.0096		1.0	0.0030	mg/L	6010A	09 FEB 96	12 FEB 96
Mercury	ND		1.0	0.00020	mg/L	7470	01 MAR 96	01 MAR 96
Selenium	ND		1.0	0.0050	mg/L	6010A	09 FEB 96	12 FEB 96

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reported By: Mark Woolley

Approved By: Richard Persichitte

APPENDIX G:

COPIES OF DATA VERIFICATION SHEETS FROM THE SNL SAMPLE MANAGEMENT OFFICE FOR CONTRACT LABORATORY ANALYSES

C1

SMO ANALYTICAL DATA ROUTING FORM

Project Name: Electrokinetic Demo Case Number: 0690.230

SNL Task Leader: L. Lindgren Org/Mail Stop: 6621/0719

SMO Project Coordinator: Russant Sample Ship Date: 1-22-96

ARCOC	Lab	Lab ID
04651	QARV	46930

Date Results Received:

Preliminary: _____ Final: 2-8-96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: 2-22-96 ~~2-12-96~~ Reviewer: Deborah ~~Russant~~

Date Review Complete: 2/23/96 Signature: [signature]

Date of Preliminary Notification: _____ Person Notified: _____

Date of Final Transmittal: 2/23/96 Transmitted To: L. Lindgren

Transmitted By: [signature] Filed In Record Center: [signature]

Comments: _____

V985018:C:\WINWORD\SMODOCS\ROUTING

TOP 94-03
Rev. 1
Attachment A
November 1995

Dmd 11-9-95

DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader Eric Lindgren Project Name Electrokinetic Demo Case No. 06901230

AR/COC No. 04651 Analytical Lab Quantera Inc SDG No. 41930

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated	X		no record center code		
1.2	Container type(s) correct for analyses requested	X				
1.3	Sample volume adequate for # and types of analyses requested	X				
1.4	Preservative correct for analyses requested	X				
1.5	Custody records continuous and complete	X		note that samples went 1st to QSTL then forwarded to An		
1.6	Lab sample number(s) provided	X				
1.7	Condition upon receipt information provided	X		note sample 027048-01 5% full (see Lab NCM)		
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	X				
2.2	Date samples received	X				
2.3	Method reference number(s) complete and correct	X				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	X				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	X				
2.6	Narrative provided	X				
2.7	TAT met	X				
2.8	Hold times met	X		late arrival - still within hold time.		
2.9	All requested result data provided	X				

Based on the review, this data package is complete ☒ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: [signature] Date: 2/23/96 Closed by: _____ Date: _____

C2 (one) + C6

SMO ANALYTICAL DATA ROUTING FORM

Project Name: Elec Demo

Case Number: 06 90230

SNL Task Leader: Lindgren

Org/Mail Stop: 6621 / 0719

SMO Project Coordinator: Puissant

Sample Ship Date: 1/24/96

ARCOC	Lab	Lab ID
4652	QARV	46946

Date Results Received:

Preliminary: _____ Final: 2/13/96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: 2/22/96 2/13/96

Reviewer: Deborah Puissant

Date Review Complete: 2/23/96

Signature: [signature]

Date of Preliminary Notification: _____

Person Notified: _____

Date of Final Transmittal: ~~2/23~~ 2/27/96

Transmitted To: Lindgren

Transmitted By: [signature]

Filed In Record Center: [signature]

Comments: _____

V985018:C:\WINWORD\SMODOCS\ROUTING

Rmd 11-9-95

DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader Eric Lindgren Project Name ElectroKinetic Demo Case No. 06900230

AR/COC No. 04652 Analytical Lab Quanterra SDG No. 469446

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated	✓		No record center code		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓				
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: [signature] Date: 2/23/96 Closed by: _____ Date: _____

C3

SMO ANALYTICAL DATA ROUTING FORM

Project Name: Elec Demo

Case Number: 06960230

SNL Task Leader: Lindgren

Org/Mail Stop: 6621/0719

SMO Project Coordinator: Puissant

Sample Ship Date: 1/22/96

ARCOC	Lab	Lab ID
4650	QARV	41926

Date Results Received:

Preliminary: _____ Final: 2/13/96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: 2/22/96 ~~2/13/96~~

Reviewer: Deborah ~~Puissant~~

Date Review Complete: 2/23/96

Signature: W. McLaughlin

Date of Preliminary Notification: _____

Person Notified: _____

Date of Final Transmittal: 2/27/96

Transmitted To: Lindgren

Transmitted By: [illegible]

Filed In Record Center: [illegible]

Comments: _____

V985018:C:\WINWORD\SMODOCS\ROUTING

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November 1995

Wmd 11-9-95

DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader Eric Lindgren Project Name ElectroKinetic Demo Case No. 0696230

AR/COC No. 046050 Analytical Lab Quanterra ARV SDG No. 46826

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated	✓		No record center code. Please include year on collection date		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓		went 1st to QSTL, forwarded to QARV		
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓				
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: [signature] Date: 2/23/96 Closed by: _____ Date: _____

C 5

SMO ANALYTICAL DATA ROUTING FORM

Project Name: Elec Demo

Case Number: D6962230

SNL Task Leader: Lindgren

Org/Mail Stop: 6621 / 0719

SMO Project Coordinator: Puissant

Sample Ship Date: 1/22/96

ARCOC	Lab	Lab ID
4649	QARV	46932

Date Results Received:

Preliminary: _____ Final: 2/13/96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: ~~2/13/96~~ 2/22/96

Reviewer: ~~Puissant~~ Deborah

Date Review Complete: 2/23/96

Signature: [signature]

Date of Preliminary Notification: _____

Person Notified: _____

Date of Final Transmittal: ~~2/23/96~~ 2/27

Transmitted To: Lindgren

Transmitted By: [signature]

Filed In Record Center: [signature]

Comments: _____

V985018:C:\WINWORD\SMODOCS\ROUTING

Wmd 11-9-95

DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader Eric Lindgren Project Name Electrokinetic Demo Case No. 0688230

AR/COC No. 04649 Analytical Lab Quanterra RFV SDG No. 46932

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated	✓		(1) no record center code (2) date of collection incomplete (lists month & Day one time without an arrow to include all samples; please use month / DAY / year and an arrow to all applicable samples.)		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	✓				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓				
2.8	Hold times met	✓		went to QSTL 1st, forwarded to RARV - met holdtime		
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☒ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: [signature] Date: 2/23/96 Closed by: _____ Date: _____

C 8 - C10
(First set)

SMO ANALYTICAL DATA ROUTING FORM

Project Name: Electrokinetic Demo Case Number: 0690.230

SNL Task Leader: D. Lindgren Org/Mail Stop: 6621/0719

SMO Project Coordinator: Puissant Sample Ship Date: 1-29-96

ARCOC	Lab	Lab ID
04653	QARV	47021

Date Results Received:

Preliminary: _____ Final: 2-15-96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: 2-16-96 Reviewer: Puissant

Date Review Complete: 2/27/96 Signature: [signature]

Date of Preliminary Notification: _____ Person Notified: _____

Date of Final Transmittal: 2/27/96 Transmitted To: Lindgren

Transmitted By: [signature] Filed In Record Center: [signature]

Comments: _____

V985018:C:\WINWORD\SMODOCS\ROUTING

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DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader Eric Lindgren Project Name ElectroKinetic Demo Case No. 06AD230

AR/COC No. 046653 Analytical Lab Quanterra AVU SDG No. 47021

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated	✓		Rel Cem code		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓				
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: [signature] Date: 7/27/96 Closed by: _____ Date: _____

C 8 (cont'd)

SMO ANALYTICAL DATA ROUTING FORM

Project Name: Elec. Demo

Case Number: 0690230

SNL Task Leader: Lindgren

Org/Mail Stop: 6621/0719

SMO Project Coordinator: Prissant

Sample Ship Date: 1/29/96

ARCOC	Lab	Lab ID
04654	QARV	47028

Date Results Received:

Preliminary: _____ Final: 2/13/96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: 2/13/96

Reviewer: Prissant

Date Review Complete: 2/27/96

Signature: [signature]

Date of Preliminary Notification: _____

Person Notified: _____

Date of Final Transmittal: 2/27/96

Transmitted To: Lindgren

Transmitted By: [signature]

Filed In Record Center: [signature]

Comments: _____

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DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader Eric Lindgren Project Name ElectroKinetic Demo Case No. 0690230

AR/COC No. 04654 Analytical Lab Quanterra Inc. SDG No. 47028

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated	✓		Rec Con Code		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓				
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: [signature] Date: 2/27/96 Closed by: _____ Date: _____

C9+A2

SMO ANALYTICAL DATA ROUTING FORM

Project Name: electrokinetic Demo Case Number: 0690.230

SNL Task Leader: D. Lindgren Org/Mail Stop: 6621/0719

SMO Project Coordinator: Russant Sample Ship Date: 1-29-96

ARCOC	Lab	Lab ID
04587	QARV	47025

Date Results Received:

Preliminary: _____ Final: 2-15-96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: 2-16-96 Reviewer: Russant

Date Review Complete: 2/27/96 Signature: [signature]

Date of Preliminary Notification: _____ Person Notified: _____

Date of Final Transmittal: 2/27/96 Transmitted To: Lindgren

Transmitted By: [signature] Filed In Record Center: [signature]

Comments: _____

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DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader Eric Lindgren Project Name Electrokinetic Demo Case No. 0690230

AR/COC No. 04587 Analytical Lab Quantiena RU SDG No. 47225

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated	✓		Rec. Cen. Code		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓				
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: [signature] Date: 2/27/96 Closed by: _____ Date: _____

A1 - CF4

SMO ANALYTICAL DATA ROUTING FORM

Project Name: ElectroKinetic DEMO Case Number: 0690.230

SNL Task Leader: Lindgren Org/Mail Stop: 6621/0719

SMO Project Coordinator: Puissant Sample Ship Date: 2-7-96

ARCOC	Lab	Lab ID
04730	OADV	47158

Date Results Received:

Preliminary: _____ Final: 3-7-96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: 3-7-96 Reviewer: Puissant

Date Review Complete: 3/24/96 Signature: [illegible]

Date of Preliminary Notification: _____ Person Notified: _____

Date of Final Transmittal: 3/25/96 Transmitted To: Lindgren

Transmitted By: [illegible] Filed In Record Center: [illegible]

Comments: _____

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DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader: E Lindgren Project Name: Electrokinetic Demo Case No.: 0690730

AR/COC No.: 047130 Analytical Lab: Quanterra, Arvada SDG No.: 47158

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated		X	Please consult EROC for your record center code.	X	
1.2	Container type(s) correct for analyses requested	X				
1.3	Sample volume adequate for # and types of analyses requested	X				
1.4	Preservative correct for analyses requested	X				
1.5	Custody records continuous and complete	X				
1.6	Lab sample number(s) provided	X				
1.7	Condition upon receipt information provided	X		See NCM (Page 28) - RE: insufficient sample volume, okay for variance by RPWissant.		
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	X				
2.2	Date samples received	X				
2.3	Method reference number(s) complete and correct	X				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	X				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	X				
2.6	Narrative provided	X				
2.7	TAT met	X				
2.8	Hold times met	X				
2.9	All requested result data provided	X				

Based on the review, this data package is complete ☒ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: [signature] Date: 3/25/96 Closed by: _____ Date: _____

A3

SMO ANALYTICAL DATA ROUTING FORM

Project Name: Electrokinetic Demo Case Number: 0690.230

SNL Task Leader: L. Lindgren Org/Mail Stop: 6621/0719

SMO Project Coordinator: Puissant Sample Ship Date: 2-2-96

ARCOC	Lab	Lab ID
04728	QARV	47086

Date Results Received:

Preliminary: _____ Final: 2-15-96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: 2-22-96 2-16-96 Reviewer: Deborah Puissant

Date Review Complete: 2/27/96 Signature: [signature]

Date of Preliminary Notification: _____ Person Notified: _____

Date of Final Transmittal: 2/27/96 Transmitted To: Lindgren

Transmitted By: [signature] Filed In Record Center: [signature]

Comments: _____

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DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader: Eric Lindgren Project Name: ElectroKinetic Demo Case No. 0690230

AR/COC No. 04728 Analytical Lab: Quanterra ARV SDG No. 47086

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated	✓		no record center code		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓				
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: [signature] Date: 2/27/96 Closed by: _____ Date: _____

A5

SMO ANALYTICAL DATA ROUTING FORM

Project Name: Electronic Demo

Case Number: 0690230

SNL Task Leader: E. Lindgren

Org/Mail Stop: 6621/0719

SMO Project Coordinator: Puissant

Sample Ship Date: 2/7/96

ARCOC	Lab	Lab ID
04729	QARV	47155

Date Results Received:

Preliminary: _____ Final: 3/5/96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: 3/5/96

Reviewer: Puissant

Date Review Complete: 3/24/96

Signature: [signature]

Date of Preliminary Notification: _____

Person Notified: _____

Date of Final Transmittal: 3/25/96

Transmitted To: Lindgren

Transmitted By: [signature]

Filed In Record Center: [signature]

Comments: _____

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DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader E. Lindgren Project Name Electrokinetic Demo Case No. 0690 230

AR/COC No. 04729 Analytical Lab Quanterra, Arvada SDG No. 47155

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated		X	Record Center Code - All packages go to the 'Environmental Operations Record Center' (EROC). Please consult them for your code.	X	
1.2	Container type(s) correct for analyses requested	X				
1.3	Sample volume adequate for # and types of analyses requested	X				
1.4	Preservative correct for analyses requested	X				
1.5	Custody records continuous and complete	X				
1.6	Lab sample number(s) provided	X				
1.7	Condition upon receipt information provided	X				
1.8	Tritium Screen data provided (Rad labs)					

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	X				
2.2	Date samples received	X				
2.3	Method reference number(s) complete and correct	X				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	X				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	X				
2.6	Narrative provided	X				
2.7	TAT met	X				
2.8	Hold times met	X				
2.9	All requested result data provided	X				

Based on the review, this data package is complete ☒ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: [signature] Date: 3/24/96 Closed by: _____ Date: _____

NT 1

SMO ANALYTICAL DATA ROUTING FORM

Project Name: Electrokinetic Demo Case Number: [illegible] 230

SNL Task Leader: Lindgren Org/Mail Stop: [illegible] 19

SMO Project Coordinator: Puissant Sample Ship Date: 2-20-95

ARCOC	Lab	Lab ID
04560	DARU	416525

Date Results Received:

Preliminary: _____ Final: 1-18-96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: 2-22-96 ~~1-18-96~~ Reviewer: Deborah ~~Puissant~~

Date Review Complete: 2/23/96 Signature: [illegible]

Date of Preliminary Notification: _____ Person Notified: _____

Date of Final Transmittal: ~~2/23~~ 2/27/96 Transmitted To: Lindgren

Transmitted By: [illegible] Filed In Record Center: [illegible]

Comments: _____

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DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader Eric Lindgren Project Name ElectroKinetic Demo Case No. 0690.230

AR/COC No. 045560 Analytical Lab Quanterra Arv SDG No. 46525

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated	X		no record center code		
1.2	Container type(s) correct for analyses requested	X				
1.3	Sample volume adequate for # and types of analyses requested	X				
1.4	Preservative correct for analyses requested	X				
1.5	Custody records continuous and complete	X				
1.6	Lab sample number(s) provided	X				
1.7	Condition upon receipt information provided	X				
1.8	Tritium Screen data provided (Rad labs)	N/A				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓				
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: [signature] Date: 2/23/96 Closed by: _____ Date: _____

NT6

SMO ANALYTICAL DATA ROUTING FORM

Project Name: ElectroKinetic Demo Case Number: 01690.230

SNL Task Leader: Lindgren Org/Mail Stop: 6621/MS0719

SMO Project Coordinator: Pussant Sample Ship Date: 12-20-95

ARCOC	Lab	Lab ID
045161	QAL V	041052 1

Date Results Received:

Preliminary: _____ Final: 1-18-96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: ~~1-18-96~~ 2-22-96 Reviewer: ~~Pussant~~ Deborah

Date Review Complete: 2/23/96 Signature: [signature]

Date of Preliminary Notification: _____ Person Notified: _____

Date of Final Transmittal: ~~2/23/96~~ 2/27/96 Transmitted To: Lindgren

Transmitted By: [signature] Filed In Record Center: [signature]

Comments: _____

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DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader Eric Lindgren Project Name Electrokinetic Pump Case No. 06900230

AR/COC No. 045161 Analytical Lab Quanterra + JTU SDG No. 46521

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated	X		no record center code		
1.2	Container type(s) correct for analyses requested	X				
1.3	Sample volume adequate for # and types of analyses requested	X				
1.4	Preservative correct for analyses requested	X				
1.5	Custody records continuous and complete	X				
1.6	Lab sample number(s) provided	X				
1.7	Condition upon receipt information provided	X				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓				
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: [signature] Date: 2/23/96 Closed by: _____ Date: _____

NT 3
TCLP, RCRA, VOC
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SMO ANALYTICAL DATA ROUTING FORM

Project Name: Electrokinetic DEND Case Number: 10690.230

SNL Task Leader: Lindgren Org/Mail Stop: 10621/MS 0719

SMO Project Coordinator: PUISSANT Sample Ship Date: 12-20-95

ARCOC	Lab	Lab ID
04559	QARV	046528

Date Results Received:

Preliminary: _____ Final: 1-19-96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: ~~1-19-96~~ 2-22/96 Reviewer: ~~Puissant~~ Deborah

Date Review Complete: 2/27/96 Signature: [signature]

Date of Preliminary Notification: _____ Person Notified: _____

Date of Final Transmittal: 2/27/96 Transmitted To: Lindgren

Transmitted By: [signature] Filed In Record Center: [signature]

Comments: _____

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DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader Eric Lindgren Project Name Electrokinetic Demo Case No. 0690230

AR/COC No. 04559 Analytical Lab Quanterra Arv SDG No. 46578

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated	✓		no record center code		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs) NA	✓				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓				
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: [signature] Date: 2/27/96 Closed by: _____ Date: _____

NT 7
TCLP, RCRA, VOC

SMO ANALYTICAL DATA ROUTING FORM

Project Name: Electrokinetic Demo Case Number: 0690.230

SNL Task Leader: Lindgren Org/Mail Stop: L6621 / MS0719

SMO Project Coordinator: Puissant Sample Ship Date: 12-20-95

ARCOC	Lab	Lab ID
04585	QARV	0416526

Date Results Received:

Preliminary: _____ Final: 1-19-96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: ~~1-19-96~~ 2-22-96 Reviewer: ~~Puissant~~ Deborah

Date Review Complete: 2/23/96 Signature: [signature]

Date of Preliminary Notification: — Person Notified: _____

Date of Final Transmittal: 2/~~23~~ 22/96 Transmitted To: Lindgren

Transmitted By: [signature] Filed In Record Center: [signature]

Comments: _____

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DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader: Eric Lindgren
Project Name: Electrokinetic Demo
Case No. 0690230
AR/COC No. 04585
Analytical Lab: Quanterra Aqv
SDG No. 46526

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated		X	No recordcenter code	X	
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓		See Lab Nonconformance Memo		
2.6	Narrative provided	✓				
2.7	TAT met	✓				
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: [signature] Date: 2/23/96 Closed by: _____ Date: _____

NT8

SMO ANALYTICAL DATA ROUTING FORM

Project Name: Electrokinetic Pump Case Number: 0690.30

SNL Task Leader: Lindgren Org/Mail Stop: 6621/MS0719

SMO Project Coordinator: PAM PUISSANT Sample Ship Date: 12-20-95

ARCOC	Lab	Lab ID
045816	QARV	046521

Date Results Received:

Preliminary: _____ Final: 1-18-96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: 2/22/96 1-18-96 Reviewer: Deborah Puissant

Date Review Complete: 2/23/96 Signature: [signature]

Date of Preliminary Notification: _____ Person Notified: _____

Date of Final Transmittal: 2/27/96 Transmitted To: Lindgren

Transmitted By: [signature] Filed In Record Center: [signature]

Comments: _____

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DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader Eric Lindgren Project Name Electrokinetic Demo Case No. 069030

AR/COC No. 045986 Analytical Lab Quanterra Aiv SDG No. 46572

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated		X	① RMMA, Disposal & TAT not r'd / later	X	
1.2	Container type(s) correct for analyses requested	✓		② date in red (only yellow) No initials.		
1.3	Sample volume adequate for # and types of analyses requested	✓		③ Record center code not completed		
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	NA				
2.6	Narrative provided	✓				
2.7	TAT met	✓				
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: [signature] Date: 2/23/96 Closed by: _____ Date: _____

NT 7
DECON WATER

SMO ANALYTICAL DATA ROUTING FORM

Project Name: Electrokinetic Demo Case Number: 01690.250

SNL Task Leader: Lindgren Org/Mail Stop: 6621/MS 0719

SMO Project Coordinator: Puissant Sample Ship Date: 12-20-95

ARCOC	Lab	Lab ID
04584	QARV	046527

Date Results Received:

Preliminary: _____ Final: 1-18-96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned ~~to~~ SMO Reviewer: 2-22-96 1-18-96

Reviewer: Deborah ~~Puissant~~

Date Review Complete: 2/23/96

Signature: [signature]

Date of Preliminary Notification: _____

Person Notified: _____

Date of Final Transmittal: 2/~~23~~ 27/96

Transmitted To: Lindgren

Transmitted By: [signature]

Filed In Record Center: [signature]

Comments: _____

TO: 94-03
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Wmd 11-9-95

DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader: Eric Lindgren Project Name: Electrokinetic Demo Case No. 0690230

AR/COC No. 04584 Analytical Lab: Quanterra SDG No. 46527

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated	X		No record center code		
1.2	Container type(s) correct for analyses requested	X				
1.3	Sample volume adequate for # and types of analyses requested	X		see correspondence on multiple containers		
1.4	Preservative correct for analyses requested	X				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓		See lab Nonconformance Memo (NCM)		
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓				
2.8	Hold times met		X	Cr^{+6} expired in transit (See Lab NCM)	✓	
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☐ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: [signature] Date: 2/23/96 Closed by: _____ Date: _____

Soil Gas 3/8/96

SMO ANALYTICAL DATA ROUTING FORM

Project Name: Electrokinetic Demo Case Number: D690.23D

SNL Task Leader: E. LINDGREN Org/Mail Stop: 6621/0719

SMO Project Coordinator: PUISSANT Sample Ship Date: 3/11/96

ARCOC	Lab	Lab ID
D4842	ENCOTEC	ED-96C1

Date Results Received:

Preliminary: _____ Final: 4/9/96

Corrections Requested From Laboratory: 4/19/96 Requestor: [illegible]

Date Corrections Received: _____

Date Assigned to SMO Reviewer: 4/9/96 Reviewer: ~~PUISSANT~~ Deborah 4/19/96

Date Review Complete: 4/19/96 Signature: [illegible]

Date of Preliminary Notification: _____ Person Notified: _____

Date of Final Transmittal: 4/22/96 Transmitted To: ~~[illegible]~~ Lindgren

Transmitted By: [illegible] Filed In Record Center: [illegible]

Comments: Correction information will be forwarded upon receipt.

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DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader E Lindgren Project Name Electrokinetic Demo Case No. 06902 30

AR/COC No. 04842 Analytical Lab Encotec SDG No. ED-96C1

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated	✓		*Please note that the "Send Report to SMO" is now R. Becker.		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓		*Please contact the EROC for your Record Center Code.		
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	X				
2.2	Date samples received	X				
2.3	Method reference number(s) complete and correct	X				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)		X	(See attached record of telecon)		
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	X		Need precision and calibration data		
2.6	Narrative provided	X				
2.7	TAT met	X				
2.8	Hold times met	X		Need LCS data.		
2.9	All requested result data provided		X			

Based on the review, this data package is complete ☐ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: 4/19/96

Reviewed by: [signature] Date: 4/19/96 Closed by: _____ Date: _____

Cathode Exhaust
7/10/96

SMO ANALYTICAL DATA ROUTING FORM

Project Name: ELECTROKINETIC DEMO Case Number: D690.230

SNL Task Leader: E. LINDGREN Org/Mail Stop: 6621/0719

SMO Project Coordinator: PHISSANT Sample Ship Date: 7/11/96

ARCOC	Lab	Lab ID
05570	ENCO	ED-96G1

Date Results Received:

Preliminary: _____ Final: 8/9/96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: 8/9/96 Reviewer: PHISSANT

Date Review Complete: 8/22/96 Signature: NO Grady

Date of Preliminary Notification: _____ Person Notified: _____

Date of Final Transmittal: 8/22/96 Transmitted To: E. Lindgren

Transmitted By: NO Grady Filed In Record Center: [illegible]

Comments: _____

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DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader E. Lindgren Project Name Electro Case No. 0690.230

AR/COC No. 05570 Analytical Lab Enviotec SDG No. ED-9661

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated		✓	No Record Center Code given.		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓				
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete [✓] Yes [ ] No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: Holly O'Grady Date: 8/22/96 Closed by: _____ Date: _____

C3 Effluent
7/10/96

AG | EM SN | CAT

SMO ANALYTICAL DATA ROUTING FORM

Project Name: ELECTROKINETIC DEMO Case Number: 0690.230

SNL Task Leader: E. LINDGREN Org/Mail Stop: 6621/0719

SMO Project Coordinator: PUISSANT Sample Ship Date: 7/11/96

ARCOC	Lab	Lab ID
05569	QARU	050180

Date Results Received:

Preliminary: _____ Final: 8/1/96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: 8/1/96 Reviewer: PUISSANT

Date Review Complete: 8/6/96 Signature: NO'Grady

Date of Preliminary Notification: _____ Person Notified: _____

Date of Final Transmittal: 8/6/96 Transmitted To: E. Lindgren

Transmitted By: NO'Grady Filed In Record Center: Eily

Comments: _____

Wmd 11-9-95

DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader: E. Lindgren Project Name: Electrokinetic Demo Case No. 0690.230

AR/COC No. 05569 Analytical Lab: QARV SDG No. 050180

the tables below, mark any information that is missing or incorrect and give an explanation.

0 Analysis Request and Chain of Custody Record

ne o.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1	All items on COC complete - data entry clerk initialed and dated		✓	No Record Center code given	✓	
2	Container type(s) correct for analyses requested	✓				
3	Sample volume adequate for # and types of analyses requested	✓				
4	Preservative correct for analyses requested	✓				
5	Custody records continuous and complete	✓				
6	Lab sample number(s) provided	✓				
7	Condition upon receipt information provided	✓				
8	Tritium Screen data provided (Rad labs)	NA				

0 Analytical Laboratory Report

ne o.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
	Data reviewed, signature	✓				
	Date samples received	✓				
	Method reference number(s) complete and correct	✓				
	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
	Narrative provided	✓				
	TAT met	✓				
	Hold times met	✓				
	All requested result data provided	✓				

sed on the review, this data package is complete ☑ Yes ☐ No

o, provide : correction request tracking # _____ and date correction request was submitted: _____

viewed by: Wally O'Grady Date: 8/6/96 Closed by: _____ Date: _____

Soil Gas 9/13/

SMO ANALYTICAL DATA ROUTING FORM

Project Name:	ELECTROKINETIC DEMO	Case No./Service Order:	0690.230
SNL Task Leader:	E. LINDGREN	Org/Mail Stop:	6621/0719
SMO Project Coordinator:	P. PUISSANT	Sample Ship Date:	9-16-96

ARCOC	Lab	Lab ID	Preliminary Received	Final Received	EDD Received
05854	ENCO	ED-96I1		10-11-96	[X]
					[ ]
					[ ]

	Date		
Correction Requested from Lab:		Requester:	
Corrections Received:			
Assigned to Reviewer:		Reviewer:	
Review Complete:	10/24/96	Signature:	[illegible]
EDD to Hard Copy Comparison:			
Preliminary Notification:		Person Notified:	
Final Transmittal:	10/29/96	Transmitted To:	E. LINDGREN
Filed in Records Center:	11/4/96	Transmitted By:	KMB

Comments: Copy transmitted before DV-I.

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DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

roject Leader E. Lindgren Project Name Electrokinetic Demo Case No. 0690.230

AR/COC No. 05854 Analytical Lab Encotec SDG No. ED-96-I/

the tables below, mark any information that is missing or incorrect and give an explanation.

Analysis Request and Chain of Custody Record

Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
All items on COC complete - data entry clerk initialed and dated		✓	No Record Center Code given		
Container type(s) correct for analyses requested	✓				
Sample volume adequate for # and types of analyses requested	✓				
Preservative correct for analyses requested	✓				
Custody records continuous and complete	✓				
Lab sample number(s) provided	✓				
Condition upon receipt information provided	✓				
Tritium Screen data provided (Rad labs)	NA				

Analytical Laboratory Report

Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
Data reviewed, signature	✓				
Date samples received	✓				
Method reference number(s) complete and correct	✓				
Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
Matrix spike/matrix spike duplicate data provided(if requested)	✓				
Narrative provided	✓				
TAT met	✓		Due 10/17/96, Rec'd 10/11/96		
Hold times met	✓				
All requested result data provided	✓				

sed on the review, this data package is complete ☑ Yes ☐ No

o, provide : correction request tracking # _____ and date correction request was submitted: _____

viewed by: Molly O'Grady Date: 10/24/96 Closed by: _____ Date: _____

Cathode Exhaust
10/11/96

Records Center Code: _____

SMO ANALYTICAL DATA ROUTING FORM

Project Name: ELECTROKINETIC DEMO
Case No./Service Order: 0690.230
SNL Task Leader: LINDGREN
Org/Mail Stop: 6621/0719
SMO Project Coordinator: PUISSANT
Sample Ship Date: 10/14/96

ARCOC	Lab	Lab ID	Preliminary Received	Final Received	EDD Received YES	EDD Received NO
05918	ENCO	ED-96J1		11/12/96	X	

	Date		
Correction Requested from Lab:		Requester:	
Corrections Received:			
Assigned to Reviewer:		Reviewer:	
Review Complete:	12/24/96	Signature:	[illegible]
EDD to Hard Copy Comparison:			
Preliminary Notification:		Person Notified:	
Final Transmittal:	1/2/97	Transmitted To:	LINDGREN
Filed in Records Center:		Transmitted By:	

Comments: Copy sent to customer after DV1, DV2, before EDD loaded + QC'd.

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DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader Lindgren Project Name Electrokinetic Demo Case No. 0690.230

AR/COC No. 05918 Analytical Lab Encotec SDG No. E0-96J1

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated		✓	No Record Center Code given		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓		Due 11/15/96, Rec'd 11/12/96		
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: Holly O'Grady Date: 12/24/96 Closed by: _____ Date: _____

Soil Gas 12/9/96

Records Center Code: _____

SMO ANALYTICAL DATA ROUTING FORM

Project Name: ELECTROKINETIC DEMO

Case No./Service Order: 0690.230

SNL Task Leader: E. LINDGREN

Org/Mail Stop: 6621/0719

SMO Project Coordinator: PUISSANT

Sample Ship Date: 12/11/96

ARCOC	Lab	Lab ID	Preliminary Received	Final Received	EDD Received YES	EDD Received NO
05994	ENCO	ED-96L1		01/09/97	X	

Correction Requested from Lab: _____ (Date) Requester: _____

Corrections Received: _____

Review Complete: 1/21/97 Signature: NO Grady

EDD to Hard Copy Comparison: _____

Preliminary Notification: _____ Person Notified: _____

Final Transmittal: 1/21/97 Transmitted To: Lindgren

Filed in Records Center: _____ Transmitted By: _____

Comments: _____

Copy to customer before hard copy/EDD comparison ☑

Hard copy/EDD comparison complete ☐

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DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader: E. Lindgren Project Name: Electrokinetic Demo Case No. 0690.230

AR/COC No. 05994 Analytical Lab: Encotec SDG No. ED-9621

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated		✓	No Record Center Code given		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓		due 1/12/97, Rec'd 1/9/97		
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: Holly O'Grady Date: 1/21/97 Closed by: _____ Date: _____

A1, 3-5 Effluents for 8 Days + EK 35-40

Records Center Code: _____

SMO ANALYTICAL DATA ROUTING FORM

Project Name: ELECTROKINETIC DEMO

Case No./Service Order: 0690.230

SNL Task Leader: E. LINDGREN

Org/Mail Stop: 6621/0719

SMO Project Coordinator: PUISSANT

Sample Ship Date: 11/27/96

ARCOC	Lab	Lab ID	Preliminary Received	Final Received	EDD Received YES	EDD Received NO
05992	QARV	052747 052748		12/23/96	X	

Correction Requested from Lab: _____ (Date) Requester: _____

Corrections Received: _____

Review Complete: 1/16/97 Signature: M O'Shady

EDD to Hard Copy Comparison: _____

Preliminary Notification: _____ Person Notified: _____

Final Transmittal: 1/16/97 Transmitted To: Lindgren

Filed in Records Center: _____ Transmitted By: _____

Comments: _____

Copy to customer before hard copy/EDD comparison ☑

Hard copy/EDD comparison complete ☐

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DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader: E. Lindgren
Project Name: Electrokinetic Demo
Case No.: 0690.230
AR/COC No.: 05792
Analytical Lab: QARV
SDG No.: 052747, 052748

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated		✓	No Record Center Code given		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓		Due 12/23/96, Rec'd 12/23/96		
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide: correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: Holly O'Grady Date: 1/16/97 Closed by: _____ Date: _____

EK 24-26, 31-34 (Barrels)
A1-5 Effluent Barrels

Records Center Code: _____

SMO ANALYTICAL DATA ROUTING FORM

Project Name: ELECTROKINETIC DEMO
Case No./Service Order: 0690.230
SNL Task Leader: LINDGREN
Org/Mail Stop: 6621/0719
SMO Project Coordinator: PUISSANT
Sample Ship Date: 10/14/96

ARCOC	Lab	Lab ID	Preliminary Received	Final Received	EDD Received YES	EDD Received NO
05919	QARV	052060		11/11/96	X	

Correction Requested from Lab: _____ (Date) Requester: _____

Corrections Received: _____

Assigned to Reviewer: _____ Reviewer: _____

Review Complete: 12/29/96 Signature: [illegible]

EDD to Hard Copy Comparison: _____

Preliminary Notification: _____ Person Notified: _____

Final Transmittal: 1/2/97 Transmitted To: LINDGREN

Filed in Records Center: _____ Transmitted By: _____

Comments: Copy sent to customer after DV1, DV2; before EDD loaded + QC'd.

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DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader: Lindgren
Project Name: Electrokinetic Demo
Case No.: 0690.230
AR/COC No.: 05919
Analytical Lab: QARV
SDG No.: 052060

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated	✓	✓	No Record Center Code given		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓		~~No MB for VOC - see Narrative, Up. TB 9/1~~		
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓		Due 11/15/96, Rec'd 11/11/96		
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: Nalla O'Grady Date: 12/29/96 Closed by: _____ Date: _____

EK 41-48
Effluent Barrels

Records Center Code: _____

SMO ANALYTICAL DATA ROUTING FORM

Project Name: ELECTROKINETIC DEMO
Case No./Service Order: 0690.230
SNL Task Leader: E. LINDGREN
Org/Mail Stop: 6621/0719
SMO Project Coordinator: PUISSANT
Sample Ship Date: 12/18/96

ARCOC	Lab	Lab ID	Preliminary Received	Final Received	EDD Received YES	EDD Received NO
06112	QARV	053077		01/13/96	X	

Correction Requested from Lab: Date _____ Requester: _____

Corrections Received: _____

Review Complete: 2/7/97 Signature: W O'Grady

EDD to Hard Copy Comparison: _____

Preliminary Notification: _____ Person Notified: _____

Final Transmittal: 2/7/97 Transmitted To: E. Lindgren

Filed in Records Center: _____ Transmitted By: _____

Comments: _____

Copy to customer before hard copy/EDD comparison ☑

Hard copy/EDD comparison complete ☐

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November 1995

Wmd 11-9-9

DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader: E. Lindgren Project Name: Electrokinetic Demo Case No. 0690.230

AR/COC No. 06112 Analytical Lab: QARV SDG No. 053077

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated		✓	No Record Center Code given		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓		Due 1/19/97, Rec'd 1/13/97		
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide: correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: Holly O'Grady Date: 2/7/97 Closed by: _____ Date: _____

PT 1, 2, 5 (first se

Records Center Code: _____

SMO ANALYTICAL DATA ROUTING FORM

Project Name: ELECTROKINETIC DEMO

Case No./Service Order: 0690.230

SNL Task Leader: E. LINDGREN

Org/Mail Stop: 6621/0719

SMO Project Coordinator: PUISSANT

Sample Ship Date: 12/11/96

ARCOC	Lab	Lab ID	Preliminary Received	Final Received	EDD Received YES	EDD Received NO
05993	QARV	052983		01/10/97	X	

	Date		
Correction Requested from Lab:		Requester:	
Corrections Received:			
Review Complete:	1/27/97	Signature:	Holly O'Grady
EDD to Hard Copy Comparison:			
Preliminary Notification:		Person Notified:	
Final Transmittal:	1/28/97	Transmitted To:	Lindgren
Filed in Records Center:		Transmitted By:	

Comments: _____

Copy to customer before hard copy/EDD comparison ☑

Hard copy/EDD comparison complete ☐

Wmd 11-9-?

DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader: E. Lindgren
Project Name: Electrokinetic Demo
Case No. 0690.230
AR/COC No. 05993
Analytical Lab: QARV
SDG No. 052983

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated		✓	No Record Center Code given		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓		Due 1/12/97, Rec'd 1/10/97		
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: Holly O'Grady Date: 1/27/97 Closed by: _____ Date: _____

PT 5 (cont'd), 6, 8

Records Center Code: _____

SMO ANALYTICAL DATA ROUTING FORM

Project Name: ELECTROKINETIC DEMO

Case No./Service Order: 0690.230

SNL Task Leader: E. LINDGREN

Org/Mail Stop: 6621/0719

SMO Project Coordinator: PUISSANT

Sample Ship Date: 12/12/96

ARCOC	Lab	Lab ID	Preliminary Received	Final Received	EDD Received YES	EDD Received NO
06077	QARV	052998		01/28/97	X	

Correction Requested from Lab: _____ (Date) Requester: _____

Corrections Received: _____

Review Complete: 2/11/97 Signature: [illegible]

EDD to Hard Copy Comparison: _____

Preliminary Notification: _____ Person Notified: _____

Final Transmittal: 2/12/97 Transmitted To: E. Lindgren

Filed in Records Center: _____ Transmitted By: _____

Comments: _____

Copy to customer before hard copy/EDD comparison ☑

Hard copy/EDD comparison complete ☐

Original "lost" (see pg. 2 of report) PT6 - 17.5 reduce, less 10%

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Wmd 11-9-97

DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader: E. Lindgren
Project Name: Electrokinetic Demo
Case No.: 0690.230
AR/COC No.: 06077
Analytical Lab: QARV
SDG No.: 052998

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated		✓	No Record Center Code given		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	N/A				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met		✓	Due 1/13/97, Rec'd 1/24/97		
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: Holly O'Grady Date: 2/11/97 Closed by: _____ Date: _____

PT 3, 7, 11

Records Center Code: _____

SMO ANALYTICAL DATA ROUTING FORM

Project Name: ELECTROKINETIC DEMO

Case No./Service Order: 0690.230

SNL Task Leader: E. LINDGREN

Org/Mail Stop: 6621/0719

SMO Project Coordinator: PUISSANT

Sample Ship Date: 12/16/96

ARCOC	Lab	Lab ID	Preliminary Received	Final Received	EDD Received YES	EDD Received NO
06081	QARV	053046		01/13/97	X	

Correction Requested from Lab: _____ (Date) Requester: _____

Corrections Received: _____

Review Complete: 2/6/97 Signature: W O'Grady

EDD to Hard Copy Comparison: _____

Preliminary Notification: _____ Person Notified: _____

Final Transmittal: 2/6/97 Transmitted To: E. Lindgren

Filed in Records Center: _____ Transmitted By: _____

Comments: _____

Copy to customer before hard copy/EDD comparison ☑

Hard copy/EDD comparison complete ☐

Limited Volumes PT7-17.5, PT3-25, PT7-20

Dmd 11-9-?

DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader: E. Lindgren
Project Name: Electrokinetic Demo
Case No. 0690.230
AR/COC No. 06081
Analytical Lab: QARV
SDG No. 053046

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated		✓	No Record Center Code given		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓		Due 1/17/97, Rec'd 1/13/97		
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: Holly O'Grady Date: 2/6/97 Closed by: _____ Date: _____

PT4

Records Center Code: _____

SMO ANALYTICAL DATA ROUTING FORM

Project Name: ELECTROKINETIC DEMO

Case No./Service Order: 0690.230

SNL Task Leader: E. LINDGREN

Org/Mail Stop: 6621/0719

SMO Project Coordinator: PUISSANT

Sample Ship Date: 12/12/96

ARCOC	Lab	Lab ID	Preliminary Received	Final Received	EDD Received YES	EDD Received NO
06078	QARV	052999		01/10/97	X	

	Date		
Correction Requested from Lab:	1/2/97	Requester:	A. Chavez
Corrections Received:	1/6/97		
Review Complete:	1/23/97	Signature:	NO'Grady
EDD to Hard Copy Comparison:			
Preliminary Notification:		Person Notified:	
Final Transmittal:	1/23/97	Transmitted To:	Lindgren
Filed in Records Center:		Transmitted By:	

Comments: _____

Copy to customer before hard copy/EDD comparison ☑

Hard copy/EDD comparison complete ☐

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Wmd 11-9-9

DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader: E. Lindgren
Project Name: Electrokinetic Demo
Case No.: 0690.220
AR/COC No.: 06078
Analytical Lab: QARV
SDG No.: 052999

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated	~~✓~~	✓	No Record Center Code given		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓		Due 1/13/97, Rec'd 1/10/97		
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: 1/2/97

Reviewed by: Wolly O'Grady Date: 1/23/97 Closed by: A Chavez Date: 1/6/97

PT 9, 10, 12

Records Center Code: _____

SMO ANALYTICAL DATA ROUTING FORM

Project Name: ELECTROKINETIC DEMO

Case No./Service Order: 0690.230

SNL Task Leader: E. LINDGREN

Org/Mail Stop: 6621/0719

SMO Project Coordinator: PUISSANT

Sample Ship Date: 12/13/96

ARCOC	Lab	Lab ID	Preliminary Received	Final Received	EDD Received YES	EDD Received NO
06080	QARV	053026		01/28/97	X	

Correction Requested from Lab: Date _____ Requester: _____

Corrections Received: _____

Review Complete: 2/7/97 Signature: [illegible]

EDD to Hard Copy Comparison: _____

Preliminary Notification: _____ Person Notified: _____

Final Transmittal: 2/7/97 Transmitted To: E. Lindgren

Filed in Records Center: _____ Transmitted By: _____

Comments: _____

Copy to customer before hard copy/EDD comparison ☑

Hard copy/EDD comparison complete ☐

Original "lost" see pg. 2
reextracted w/ <100g: PT 10-30
could not reextract:
PT 12-15, 17.5, & 20 of PT10 & 7.5

Revised 11-9-9

DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader: E. Lindgren
Project Name: Electrokinetic Demo
Case No.: 0690.230
AR/COC No.: 06080
Analytical Lab: QARV
SDG No.: 053026

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated		✓	No Record Center Code given on COC		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met		✓	Due 1/14/96, Rec'd 1/28/97		
2.8	Hold times met	✓				
2.9	All requested result data provided	✓		032336-032338, 032342 were cancelled.		

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: Holly O'Grady Date: 2/7/97 Closed by: _____ Date: _____

PT 10A

Records Center Code: _____

SMO ANALYTICAL DATA ROUTING FORM

Project Name: ELECTROKINETIC DEMO

Case No./Service Order: 0690.230

SNL Task Leader: E. LINDGREN

Org/Mail Stop: 6621/0719

SMO Project Coordinator: PUISSANT

Sample Ship Date: 01/22/97

ARCOC	Lab	Lab ID	Preliminary Received	Final Received	EDD Received YES	EDD Received NO
06135	QARV	053410		02/21/97	X	

Correction Requested from Lab: Date _____ Requester: _____

Corrections Received: _____

Review Complete: 2/24/97 Signature: HO'Grady

EDD to Hard Copy Comparison: _____

Preliminary Notification: _____ Person Notified: _____

Final Transmittal: 2/25/97 Transmitted To: E. Lindgren

Filed in Records Center: _____ Transmitted By: _____

Comments: _____

Copy to customer before hard copy/EDD comparison ☑

Hard copy/EDD comparison complete ☐

TOP 03
Rev. 1
Attachment A
November 1995

Approved 11-9-95

DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader: E. Lindgren Project Name: Electrokinetic Demo Case No. 0690.230

AR/COC No. 06135 Analytical Lab: QARV SDG No. 053410

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated		✓	No Record Center Code given		
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided		✓	No check list for check-in provided by lab.		
1.8	Tritium Screen data provided (Rad labs)	NA				

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	✓				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	✓				
2.6	Narrative provided	✓				
2.7	TAT met	✓		Due 2/24/97, Rec'd 2/21/97		
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☑ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: Holly O'Grady Date: 2/24/97 Closed by: _____ Date: _____