TA16

Los Alamos
NATIONAL LABORATORY
EST. 1943

Environmental Stewardship
Solid Waste Regulatory Compliance
P.O. Box 1663, Mail Stop K490
Los Alamos, New Mexico 87545
505-667-0666/Fax 505-667-5224

Date: April 18, 2006
Refer To: ENV-SRWC: 06-030

Mr. John Young
Corrective Action Section
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303

RECEIVED
APR 2006

RE: LANL Response to NMED's February 23, 2006 Letter Requesting Additional Information for the Sigma Mesa Rubble Piles

Dear Mr. Young:

The purpose of this letter is to respond to the five questions contained in the New Mexico Environment Department (NMED's) February 23, 2006 request for additional information about the rubble generated from the demolition of the TA-16-340 Complex. The demolition of the TA-16-340 site was a large task involving a number of waste streams each with a different disposition. The movement of the rubble into piles and then transportation of the rubble to Sigma Mesa took place over several weeks. Los Alamos National Laboratory's (LANL's) response to questions #3 and #4 may appear vague but that time frame is as close as LANL is able to establish the movement dates.

In a meeting held on November 17, 2005, LANL provided a written draft and verbally requested NMED to make a 'contained in' determination for these wastes. LANL subsequently provided indexed sample data, an aerial photo of the rubble at Sigma Mesa, a contour map outlining the rubble and showing the sample grid and locations, and a copy of the data quality objectives (DQOs) for the September 2005 sampling in a December 9, 2005 submittal to NMED.
On January 30, 2006, LANL transmitted a timeline providing key points and activities that took place leading up to the disposition of the rubble on Sigma Mesa, and actions taken subsequent to its disposition. In a February 23, 2006 letter, NMED requested an engineering controls plan for the concrete rubble, and additional information to make a 'contained in' determination. LANL provided the engineering controls plan to NMED in a submittal on March 13, 2006.

LANL's responses to NMED's February 23, 2006 requests for additional information are provided below. For clarity, NMED's requests are repeated in bold typeface.

1. A description of the nature (e.g., concrete, soil, metal, etc.) of the wastes (from the solid waste management units and demolition debris) and how they were managed onsite at TA-16-340.

Nature of the Wastes

Wastes managed onsite during the demolition of the TA-16-340 Complex consisted of asbestos-containing material, wastewater and sludge from the facility decontamination washdown that preceded demolition, metal from rebar that could be processed out of concrete, clean steel piping and conduit, aluminum sheeting, aluminum sump lids and liners, vitrified clay pipe (VCP) from sanitary sewer and sump drainlines, high explosive (HE)-contaminated pipe and fittings, and a one-liter container of alcohol.

Rubble staged at Sigma Mesa that originated from the demolition of the TA-16-340 Complex consists of concrete and rebar. This rubble consists mainly of non-SWMU demolition debris. The total volume of rubble staged at Sigma Mesa is approximately 8,000 cu. yds. The amount of that volume that is comprised of SWMU-related waste is approximately 20 cu. yds.

SWMU-generated wastes in the rubble at Sigma Mesa consist of steel-reinforced concrete from two SWMUs: 16-003(o) and 16-029(f). SWMU 16-003(o) consisted of six inactive HE sumps and the outfall associated with TA-16-340, an explosives synthesis building. The 6-in. thick steel-reinforced concrete sumps, which had removable lids and liners made of 0.25-in.-thick aluminum, were approximately 5 ft long, 3 ft wide, and 4 ft deep. They were connected to a 10-in.VCP drainline that discharged to an outfall east of TA-16-340. SWMU 16-029(f) was an aluminum-lined steel-reinforced concrete sump and its drainline that served TA-16-345, an HE storage facility. The 8-in. thick steel-reinforced concrete sump was approximately 8 ft. long, 4 ft. wide, and 5 ft. deep with a removable 0.25-in.-thick aluminum lid. The sump was connected to a 6-in. VCP drainline, which discharged to an outfall (SWMU 16-026[j2]) located southeast of the building. The aluminum liners and lids are not included in the rubble at Sigma Mesa. Those materials were segregated and managed separately, as described below. Demolition wastes from the SWMUs consist of pieces of crushed concrete generally 12 in. in diameter or less and 6 to 8 in. thick, VCP, and steel rebar that was used to reinforce the concrete.

How Wastes were Managed Onsite at TA-16-340

The initial phase of the project involved asbestos abatement and removal of HE vacuum lines. Following the abatement, process equipment and the HE process bays in the building were steam cleaned. The rinsate was collected in containers and managed as described in 5 below. After steam cleaning, process equipment was removed. Demolition operations were then suspended to permit a scientific investigation to determine efficacy of blast doors and walls and to measure corridor pressures during a simulated explosives accident. These experiments ensured that all remaining and introduced HE residues were present in concentrations that did not pose a reactivity hazard, as verified by the LANL HE onsite certifying official. Following the experiment, demolition operations resumed. The remaining concrete structures associated with the TA-16-340 Complex were demolished.

Waste management during demolition of the TA-16-340 Complex consisted of segregating hazardous and solid waste from recyclable materials and on-site staging of wastes and materials. Asbestos-containing materials were managed in accordance with applicable requirements and were disposed of in an offsite landfill that is approved for disposal of such materials. Concrete was accumulated in piles onsite and transferred to end dumps or dump trucks for transport to Sigma Mesa. Metals were segregated for recycling, staged in piles onsite, and collected in rolloff bins or transferred directly into end dumps for transport offsite. Rebar was processed from the concrete debris, to the greatest extent possible, and was collected like other metals for recycle. HE vacuum line piping was wrapped in plastic and stored inside the still-intact building before the piping was transported and flashed at the TA-16 Burning Grounds. It was then recycled as scrap metal. Process equipment was steam cleaned and stored in the still-intact building before the equipment was transported for recycling as scrap metal. Additional wastes included sludge, wash-down wastes, and sanitary sewer line VCP. These additional wastes were sampled, characterized, and managed in accordance with Federal and state requirements. Liquid wastes were staged onsite in drums. The VCP from sanitary sewer lines was wrapped in plastic and loaded into a roll-off container for transport to an industrial landfill. Hazardous wastes were staged in both satellite and less-than-90-day storage areas. The project was covered by and followed a storm water pollution prevention (SWPP) plan.

2. A detailed timeline regarding when the waste streams were mixed.

The sumps were excavated in the last two weeks of January 2005. The concrete rubble from the sumps was added to the concrete rubble at TA-16-340 at that time. The aluminum sump liners were segregated, inspected, screened for HE contamination, and then recycled as scrap metal.

3. A detailed timeline regarding when the waste pile(s) were moved from TA-16-340 to Sigma Mesa.

The concrete rubble containing the sumps was transported to Sigma Mesa during the first two weeks of February 2005.

4. Analytical results from the single composite sample collected from the concrete rubble staged at Sigma Mesa as well as any other related sample results that have not already been submitted to NMED.

See attachments, which are summarized below.

Attachment 1 contains results for the single composite sample collected from the concrete debris staged at Sigma Mesa. Please note that sample 540 LI is not applicable to TA-16-340.

Attachment 2 contains sample results for residues inside HE-contaminated piping, fittings, components, and vessels. These wastes were managed in accordance with LANL Waste Profile Form (WPF) 37438 (also attached).

Attachment 3 contains sample results for water generated from steam-cleaning HE-contaminated debris. These wastes were managed in accordance with LANL WPF 37439 (also attached).

Attachment 4 contains sample results for sludge generated during washdown of HE-contamination associated with structural piping and process equipment. These wastes were managed in accordance with LANL WPF 37450 (also attached).

Attachment 5 contains sample results for liquids pumped from the HE sumps. These wastes were managed in accordance with LANL WPF 37721 (also attached).

Attachment 6 contains sample results from wastewater generated from washdown of bays inside TA-16-340. These wastes were managed in accordance with LANL WPF 37722 (also attached).

Attachment 7 contains sample results for a container of alcohol found at the site. The waste was managed in accordance with LANL WPF 38355 (also attached).

Attachment 8 contains sample results for sanitary sewer line VCP. The waste was managed in accordance with LANL WPF 38402 (also attached).

5. The waste codes that are attached to the wastes generated when the sumps and ancillary structures were removed.

Residues inside HE-contaminated piping, fittings, components, and vessels were managed under EPA waste codes D003, D005, D030, and F005 in accordance with LANL WPF 37438. The hazardous waste piping was treated by being flashed at the TA-16 Burning Grounds and subsequently was recycled as scrap metal.

Water from steam cleaning HE-contaminated debris was managed in accordance with LANL WPF 37439 as hazardous waste under EPA waste codes D005 and F005. It was sent to the High Explosives Wastewater Treatment Facility at TA-16.

Sludge generated during washdown of HE contamination associated with structural piping and process equipment was managed in accordance with LANL WPF 37450 as hazardous waste under EPA waste codes D003, D005, D030, and F005. The sludge was managed at the TA-16 Burning Grounds.

Liquid pumped from the HE sumps was managed in accordance with LANL WPF 37721 as nonhazardous solid waste. It was sent to LANL's Sanitary Wastewater Systems Consolidation Plant at TA-46.

Wastewater generated from the washdown of bays inside TA-16-340 was managed in accordance with LANL WPF 37722 as New Mexico Solid Waste. It was sent to the HE Wastewater Treatment Facility at TA-16.

A container of alcohol with BTEX found at TA-16-340 was managed in accordance with LANL WPF 38355 under EPA waste code D001 and was sent to a consolidated less-than-90-day hazardous waste storage area at TA-54.

Sanitary sewer line VCP removed during demolition was managed in accordance with LANL WPF 38402. It was determined to be nonhazardous solid waste and was sent to the Rio Rancho Industrial Landfill.

Scrap metal was screened for HE contamination and was released to be recycled.

This letter provides the final installment of information that NMED requested for the Sigma Mesa rubble pile. As you can see this was a large demolition job having many different types of wastes, each requiring a different type of handling for disposal. If upon review there are questions that remain unanswered please contact me at 667-0633.

Sincerely,

Jack Ellvinger

JEE/tag

Attachments: (8)

Cy: D. Cobrain, NMED-HWB
G.Turner, DOE-LASO, A316
J. Jones, LANL-PM-DO, M878
K. Rendell, LANL PM-IP, M878
K. Hargis, LANL-ENV-DO, J591
D.McInroy, LANL-ENV-ERS, M992
H. Wheeler-Benson, LANL-ENV-SWRC, K490
SWRC Files
IM-9, A150

Attachment 1

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).

Client: **CLAUSS CONSTRUCTION**

Project:

Order: **0503456** **CLA09** Receipt: **03-18-05**

Sample: ***340 C*** Collected: *03-18-05 0:00:00* By: *JT*

Matrix: *SR3277*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0503456-01B		**SW846 1311/3510B/8270C SVOCs by GC/MS TCLP**						By: DS		
X05528	XG.2005.630.24	87-86-5	Pentachlorophenol	ND	mg/L	1	0.05	H	04-07-05	04-12-05
X05528	XG.2005.630.24	110-86-1	Pyridine	ND	mg/L	1	0.05	H	04-07-05	04-12-05
0503456-01B		**SW846 1311/3510B/SM 6640 Herbicides by GC/ECD TCLP**						By: SDW		
X05520	XG.2005.639.15	93-72-1	2,4,5-TP (Silvex)	ND	mg/L	4	0.001	H	04-07-05	04-12-05
X05520	XG.2005.639.15	94-75-7	2,4-D	ND	mg/L	4	0.01	H	04-07-05	04-12-05
0503456-01B		**SW846 1311/7470A CVAA TCLP**						By: BJM		
M05488	MT.2005.754.60	7439-97-6	Mercury	ND	mg/L	1	0.0002		04-06-05	04-07-05
0503456-01B		**SW846 1311/8260B Purgeable VOCs by GC/MS TCLP**						By: AZC		
X05516	XG.2005.616.29	75-35-4	1,1 Dichloroethylene	ND	mg/L	5	0.001	H	04-08-05	04-08-05
X05516	XG.2005.616.29	107-06-2	1,2 Dichloroethane (EDC)	ND	mg/L	5	0.001	H	04-08-05	04-08-05
X05516	XG.2005.616.29	71-43-2	Benzene	ND	mg/L	5	0.001	H	04-08-05	04-08-05
X05516	XG.2005.616.29	56-23-5	Carbon tetrachloride	ND	mg/L	5	0.001	H	04-08-05	04-08-05
X05516	XG.2005.616.29	108-90-7	Chlorobenzene	ND	mg/L	5	0.001	H	04-08-05	04-08-05
X05516	XG.2005.616.29	67-66-3	Chloroform	ND	mg/L	5	0.001	H	04-08-05	04-08-05
X05516	XG.2005.616.29	78-93-3	Methyl ethyl ketone	ND	mg/L	5	0.005	H	04-08-05	04-08-05
X05516	XG.2005.616.29	127-18-4	Tetrachloroethylene	ND	mg/L	5	0.001	H	04-08-05	04-08-05
X05516	XG.2005.616.29	79-01-6	Trichloroethylene	ND	mg/L	5	0.001	H	04-08-05	04-08-05
X05516	XG.2005.616.29	75-01-4	Vinyl chloride	ND	mg/L	5	0.005	H	04-08-05	04-08-05

Sample: ***540 LI*** Collected: *03-18-05 0:00:00* By: *JT*

Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0503456-02B		**SW846 1311/3010A/6010B ICP TCLP**						By: kdw		
M05485	MT.2005.742.75	7440-38-2	Arsenic	ND	mg/L	25	0.01		04-06-05	04-06-05
M05485	MT.2005.742.75	7440-39-3	Barium	0.130	mg/L	25	0.005		04-06-05	04-06-05
M05485	MT.2005.742.75	7440-43-9	Cadmium	ND	mg/L	25	0.005		04-06-05	04-06-05
M05485	MT.2005.742.75	7440-47-3	Chromium	ND	mg/L	25	0.005		04-06-05	04-06-05
M05485	MT.2005.742.75	7439-92-1	Lead	0.650	mg/L	25	0.01		04-06-05	04-06-05
M05485	MT.2005.742.75	7782-49-2	Selenium	ND	mg/L	25	0.02		04-06-05	04-06-05
M05485	MT.2005.742.75	7440-22-4	Silver	ND	mg/L	25	0.001		04-06-05	04-06-05
0503456-02B		**SW846 1311/7470A CVAA TCLP**						By: BJM		
M05488	MT.2005.754.56	7439-97-6	Mercury	ND	mg/L	1	0.0002		04-06-05	04-07-05

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or foonotes will appear below.

Analytical results are not corrected for method blank or field blank contamination.

MEMO: Please note that sample "340-C" was received in plastic with headspace.

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

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Client: **CLAUSS CONSTRUCTION**

Project:

Order: **0503456** **CLA09** Receipt: **03-18-05**

Sample: ***340 C*** Collected: *03-18-05 0:00:00* By: *JT*

Matrix: *SR3277*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0503456-01A		**SW846 8330 Explosives by HPLC**					By:	JWB		
X05421	XG.2005.499.28	99-35-4	1,3,5-Trinitrobenzene	ND	ug / kg	1	100		03-18-05	03-24-05
X05421	XG.2005.499.28	99-65-0	1,3-Dinitrobenzene	ND	ug / kg	1	100		03-18-05	03-24-05
X05421	XG.2005.499.28	118-96-7	2,4,6-Trinitrotoluene	ND	ug / kg	1	100		03-18-05	03-24-05
X05421	XG.2005.499.28	121-14-2	2,4-Dinitrotoluene	ND	ug / kg	1	100		03-18-05	03-24-05
X05421	XG.2005.499.28	606-20-2	2,6-Dinitrotoluene	ND	ug / kg	1	100		03-18-05	03-24-05
X05421	XG.2005.499.28	355-72-78-2	2-Amino-4,6-Dinitrotoluene	ND	ug / kg	1	100		03-18-05	03-24-05
X05421	XG.2005.499.28	88-72-2	2-Nitrotoluene	ND	ug / kg	1	100		03-18-05	03-24-05
X05421	XG.2005.499.28	99-08-1	3-Nitrotoluene	ND	ug / kg	1	100		03-18-05	03-24-05
X05421	XG.2005.499.28	1946-51-0	4-Amino-2,6-Dinitrotoluene	ND	ug / kg	1	100		03-18-05	03-24-05
X05421	XG.2005.499.28	99-99-0	4-Nitrotoluene	ND	ug / kg	1	100		03-18-05	03-24-05
X05421	XG.2005.499.28	2691-41-0	HMX	ND	ug / kg	1	100		03-18-05	03-24-05
X05421	XG.2005.499.28	98-95-3	Nitrobenzene	ND	ug / kg	1	100		03-18-05	03-24-05
X05421	XG.2005.499.28	121-82-4	RDX	ND	ug / kg	1	100		03-18-05	03-24-05
X05421	XG.2005.499.28	479-45-8	Tetryl	ND	ug / kg	1	100		03-18-05	03-24-05
0503456-01B		**SW846 1311/3010A/6010B ICP TCLP**					By:	kdw		
M05485	MT.2005.742.58	7440-38-2	Arsenic	ND	mg/L	25	0.01		04-06-05	04-06-05
M05449	MT.2005.714.52	7440-39-3	Barium	0.379	mg/L	25	0.005		03-30-05	04-01-05
M05485	MT.2005.742.58	7440-43-9	Cadmium	ND	mg/L	25	0.005		04-06-05	04-06-05
M05449	MT.2005.714.52	7440-47-3	Chromium	ND	mg/L	25	0.005		03-30-05	04-01-05
M05449	MT.2005.714.52	7439-92-1	Lead	ND	mg/L	25	0.01		03-30-05	04-01-05
M05449	MT.2005.714.52	7782-49-2	Selenium	ND	mg/L	25	0.02		03-30-05	04-01-05
M05485	MT.2005.742.58	7440-22-4	Silver	ND	mg/L	25	0.001		04-06-05	04-06-05
0503456-01B		**SW846 1311/3510B/8081A Pesticides by GC/ECD TCLP**					By:	SDW		
X05529	XG.2005.619.15	57-74-9	Chlordane	ND	mg/L	1	0.0025	H	04-07-05	04-11-05
X05529	XG.2005.619.15	72-20-8	Endrin	ND	mg/L	1	0.001	H	04-07-05	04-11-05
X05529	XG.2005.619.15	76-44-8	Heptachlor	ND	mg/L	1	0.001	H	04-07-05	04-11-05
X05529	XG.2005.619.15	1024-57-3	Heptachlor Epoxide	ND	mg/L	1	0.001	H	04-07-05	04-11-05
X05529	XG.2005.619.15	58-89-9	Lindane	ND	mg/L	1	0.001	H	04-07-05	04-11-05
X05529	XG.2005.619.15	72-43-5	Methoxychlor	ND	mg/L	1	0.001	H	04-07-05	04-11-05
X05529	XG.2005.619.15	8001-35-2	Toxaphene	ND	mg/L	1	0.0025	H	04-07-05	04-11-05
0503456-01B		**SW846 1311/3510B/8270C SVOCs by GC/MS TCLP**					By:	DS		
X05528	XG.2005.630.24	106-46-7	1,4-Dichlorobenzene	ND	mg/L	1	0.005	H	04-07-05	04-12-05
X05528	XG.2005.630.24	95-95-4	2,4,5-Trichlorophenol	ND	mg/L	1	0.05	H	04-07-05	04-12-05
X05528	XG.2005.630.24	88-06-2	2,4,6-Trichlorophenol	ND	mg/L	1	0.05	H	04-07-05	04-12-05
X05528	XG.2005.630.24	121-14-2	2,4-Dinitrotoluene	ND	mg/L	1	0.05	H	04-07-05	04-12-05
X05528	XG.2005.630.24	118-74-1	Hexachlorobenzene	ND	mg/L	1	0.005	H	04-07-05	04-12-05
X05528	XG.2005.630.24	87-68-3	Hexachlorobutadiene	ND	mg/L	1	0.005	H	04-07-05	04-12-05
X05528	XG.2005.630.24	67-72-1	Hexachloroethane	ND	mg/L	1	0.005	H	04-07-05	04-12-05
X05528	XG.2005.630.24	108-39-4/106-44	m-Cresol & p-Cresol	ND	mg/L	1	0.005	H	04-07-05	04-12-05
X05528	XG.2005.630.24	98-95-3	Nitrobenzene	ND	mg/L	1	0.005	H	04-07-05	04-12-05
X05528	XG.2005.630.24	95-48-7	o-Cresol	ND	mg/L	1	0.005	H	04-07-05	04-12-05

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

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Client: **CLAUSS CONSTRUCTION**

Project:

Order: **0503456** **CLA09** Receipt: **03-18-05**

Sample: ***340 C*** Collected: *03-18-05 0:00:00* By: *JT*

Matrix: *SR3277*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0503456-01A		**SW846 5035B/8260B Purgeable VOCs by GC/MS**					By:	AZC		
X05450	XG.2005.528.13	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	10	0.01		03-28-05	03-28-05
X05450	XG.2005.528.13	78-93-3	2-Butanone (MEK)	ND	mg / Kg	10	0.02		03-28-05	03-28-05
X05450	XG.2005.528.13	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	10	0.02		03-28-05	03-28-05
X05450	XG.2005.528.13	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	10	0.02		03-28-05	03-28-05
X05450	XG.2005.528.13	67-64-1	Acetone	ND	mg / Kg	10	0.025		03-28-05	03-28-05
X05450	XG.2005.528.13	107-02-8	Acrolein	ND	mg / Kg	10	0.05		03-28-05	03-28-05
X05450	XG.2005.528.13	107-13-1	Acrylonitrile	ND	mg / Kg	10	0.02		03-28-05	03-28-05
X05450	XG.2005.528.13	71-43-2	Benzene	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	74-97-5	Bromochloromethane	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	75-27-4	Bromodichloromethane	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	75-25-2	Bromoform	ND	mg / Kg	10	0.01		03-28-05	03-28-05
X05450	XG.2005.528.13	74-83-9	Bromomethane	ND	mg / Kg	10	0.05		03-28-05	03-28-05
X05450	XG.2005.528.13	75-15-0	Carbon disulfide	ND	mg / Kg	10	0.01		03-28-05	03-28-05
X05450	XG.2005.528.13	56-23-5	Carbon tetrachloride	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	108-90-7	Chlorobenzene	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	124-48-1	Chlorodibromomethane	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	75-00-3	Chloroethane	ND	mg / Kg	10	0.02		03-28-05	03-28-05
X05450	XG.2005.528.13	67-66-3	Chloroform	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	74-87-3	Chloromethane	ND	mg / Kg	10	0.02		03-28-05	03-28-05
X05450	XG.2005.528.13	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	10061-01-5	cis-1,3 Dichloropropene	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	74-95-3	Dibromomethane	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	97-63-2	Ethyl methacrylate	ND	mg / Kg	10	0.02		03-28-05	03-28-05
X05450	XG.2005.528.13	100-41-4	Ethylbenzene	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	76-13-1	Freon 113	ND	mg / Kg	10	0.01		03-28-05	03-28-05
X05450	XG.2005.528.13	75-71-8	Freon 12	ND	mg / Kg	10	0.01		03-28-05	03-28-05
X05450	XG.2005.528.13	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	75-09-2	Methylene chloride	ND	mg / Kg	10	0.025		03-28-05	03-28-05
X05450	XG.2005.528.13	91-20-3	Naphthalene	0.41	mg / Kg	10	0.02		03-28-05	03-28-05
X05450	XG.2005.528.13	95-47-6	o-Xylene	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	10	0.01		03-28-05	03-28-05
X05450	XG.2005.528.13	100-42-5	Styrene	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	10	0.01		03-28-05	03-28-05
X05450	XG.2005.528.13	108-88-3	Toluene	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	110-57-6	trans-1,4-Dichloro-2-butene	ND	mg / Kg	10	0.02		03-28-05	03-28-05
X05450	XG.2005.528.13	79-01-6	Trichloroethene	ND	mg / Kg	10	0.01		03-28-05	03-28-05
X05450	XG.2005.528.13	75-69-4	Trichlorofluoromethane	ND	mg / Kg	10	0.02		03-28-05	03-28-05
X05450	XG.2005.528.13	108-05-4	Vinyl acetate	ND	mg / Kg	10	0.02		03-28-05	03-28-05
X05450	XG.2005.528.13	75-01-4	Vinyl chloride	ND	mg / Kg	10	0.01		03-28-05	03-28-05

Explanation of codes	
B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

CLAUSS CONSTRUCTION
attn: **JOHN THOMAS**
8956 WINTER GARDENS BLVD.
LAKESIDE CA 92040-4935

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).

Client: **CLAUSS CONSTRUCTION**
Project:
Order: **0503456** **CLA09** Receipt: **03-18-05**

William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Sample: ***340 C*** Collected: *03-18-05 0:00:00* By: *JT*
Matrix: *SR3277*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0503456-01A		**SW846 3550B/8082 PCBs by GC/ECD**					By:	SDW		
X05457	XG.2005.556.27	12674-11-2	Aroclor 1016	ND	mg / Kg	1	0.05		03-28-05	03-31-05
X05457	XG.2005.556.27	11104-28-2	Aroclor 1221	ND	mg / Kg	1	0.05		03-28-05	03-31-05
X05457	XG.2005.556.27	11141-16-5	Aroclor 1232	ND	mg / Kg	1	0.05		03-28-05	03-31-05
X05457	XG.2005.556.27	53469-21-9	Aroclor 1242	ND	mg / Kg	1	0.05		03-28-05	03-31-05
X05457	XG.2005.556.27	12672-29-6	Aroclor 1248	ND	mg / Kg	1	0.05		03-28-05	03-31-05
X05457	XG.2005.556.27	11097-69-1	Aroclor 1254	ND	mg / Kg	1	0.05		03-28-05	03-31-05
X05457	XG.2005.556.27	11096-82-5	Aroclor 1260	ND	mg / Kg	1	0.05		03-28-05	03-31-05
0503456-01A		**SW846 5035B/8260B Purgeable VOCs by GC/MS**					By:	AZC		
X05450	XG.2005.528.13	75-34-3	1,1 Dichloroethane	ND	mg / Kg	10	0.01		03-28-05	03-28-05
X05450	XG.2005.528.13	75-35-4	1,1 Dichloroethene	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	10	0.01		03-28-05	03-28-05
X05450	XG.2005.528.13	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	10	0.01		03-28-05	03-28-05
X05450	XG.2005.528.13	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	10	0.01		03-28-05	03-28-05
X05450	XG.2005.528.13	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	10	0.01		03-28-05	03-28-05
X05450	XG.2005.528.13	78-87-5	1,2 Dichloropropane	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	120-82-1	1,2,4-Trichlorobenzene	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	95-63-6	1,2,4-Trimethylbenzene	ND	mg / Kg	10	0.01		03-28-05	03-28-05
X05450	XG.2005.528.13	96-12-8	1,2-Dibromo-3-chloropropane	ND	mg / Kg	10	0.01		03-28-05	03-28-05
X05450	XG.2005.528.13	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	10	0.005		03-28-05	03-28-05
X05450	XG.2005.528.13	108-67-8	1,3,5-Trimethylbenzene	ND	mg / Kg	10	0.005		03-28-05	03-28-05

Attachment 2

RFA # 1197
Process H2O

ASSAIGAI ANALYTICAL LABORATORIES, INC.
4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, Ste. N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820
127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

Explanation of codes	
B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

LOS ALAMOS NATIONAL LABS
attn: DUSTIE RICH
P.O. BOX 1663, MS K490
LOS ALAMOS NM 87545

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: LOS ALAMOS NATIONAL LABS
Project: 7D44 JF30 0045 MGTI
Order: 0404180 LOS17 Receipt: 04-08-04

William P. Bieva: President of Assaigai Analytical Laboratories, Inc.

Sample: *04SWRC269* Collected: *04-08-04 8:35:00* By: *DR*
Matrix: *H2O*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0404180-01A		SW846 8260B Purgeable VOCs by GC/MS					By:	CWJ		
X04345	XG.2004.616.8	75-34-3	1,1 Dichloroethane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	75-35-4	1,1 Dichloroethene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	71-55-6	1,1,1 Trichloroethane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	630-20-6	1,1,1,2 Tetrachloroethane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	79-00-5	1,1,2 Trichloroethane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	79-34-5	1,1,2,2 Tetrachloroethane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	106-93-4	1,2 Dibromoethane (EDB)	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	95-50-1	1,2 Dichlorobenzene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	107-06-2	1,2 Dichloroethane (EDC)	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	78-87-5	1,2 Dichloropropane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	96-18-4	1,2,3 Trichloropropane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	95-63-6	1,2,4-Trimethylbenzene	.160	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	541-73-1	1,3 Dichlorobenzene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	108-67-8	1,3,5-Trimethylbenzene	.078	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	764-41-0	1,4 Dichloro-2-butene	ND	ug / L	1	10		04-12-04	04-12-04
X04345	XG.2004.616.8	106-46-7	1,4 Dichlorobenzene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.10	78-93-3	2-Butanone (MEK) 160	12000	ug / L	500	5		04-12-04	04-12-04
X04345	XG.2004.616.8	591-78-6	2-Hexanone (MBK)	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.10	67-64-1	Acetone 160	7100	ug / L	500	10		04-12-04	04-12-04
X04345	XG.2004.616.8	107-02-8	Acrolein	ND	ug / L	1	20		04-12-04	04-12-04
X04345	XG.2004.616.8	107-13-1	Acrylonitrile	ND	ug / L	1	20		04-12-04	04-12-04
X04345	XG.2004.616.8	71-43-2	Benzene 16	.0021	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	75-27-4	Bromodichloromethane	ND	ug / L	1	1		04-12-04	04-12-04

REPRODUCTION OF THIS REPORT IN LESS THAN FULL REQUIRES THE WRITTEN CONSENT OF AAL.

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

lient: **LOS ALAMOS NATIONAL LABS**

roject: **7D44 JF30 0045 MGTI**

rder: **0404180 LOS17** Recalpt: **04-08-04**

ample: ***04SWRC269*** Collected: *04-08-04 8:35:00* By: *DR*

atrix: ***H2O***

C Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
04180-01A			SW846 8260B Purgeable VOCs by GC/MS				By: CWJ			
4345	XG.2004.616.8	75-25-2	Bromoform	ND	ug / L	1	1		04-12-04	04-12-04
4345	XG.2004.616.8	74-83-9	Bromomethane	ND	ug / L	1	5		04-12-04	04-12-04
4345	XG.2004.616.8	75-15-0	Carbon disulfide	ND	ug / L	1	5		04-12-04	04-12-04
4345	XG.2004.616.8	56-23-5	Carbon tetrachloride	ND	ug / L	1	1		04-12-04	04-12-04
4345	XG.2004.616.8	108-90-7	Chlorobenzene	ND	ug / L	1	1		04-12-04	04-12-04
4345	XG.2004.616.8	124-48-1	Chlorodibromomethane	ND	ug / L	1	1		04-12-04	04-12-04
4345	XG.2004.616.8	75-00-3	Chloroethane	ND	ug / L	1	5		04-12-04	04-12-04
4345	XG.2004.616.8	67-66-3	Chloroform	ND	ug / L	1	1		04-12-04	04-12-04
4345	XG.2004.616.8	74-87-3	Chloromethane	ND	ug / L	1	5		04-12-04	04-12-04
4345	XG.2004.616.8	156-59-2	cis-1,2 dichloroethene	ND	ug / L	1	1		04-12-04	04-12-04
4345	XG.2004.616.8		cis-1,3 Dichloropropene	ND	ug / L	1	1		04-12-04	04-12-04
4345	XG.2004.616.8	74-95-3	Dibromomethane	ND	ug / L	1	1		04-12-04	04-12-04
4345	XG.2004.616.8	97-63-2	Ethyl methacrylate	ND	ug / L	1	5		04-12-04	04-12-04
4345	XG.2004.616.8	100-41-4	Ethylbenzene	ND	ug / L	1	1		04-12-04	04-12-04
4345	XG.2004.616.8		Freon 113	ND	ug / L	1	5		04-12-04	04-12-04
4345	XG.2004.616.8	75-71-8	Freon 12	ND	ug / L	1	10		04-12-04	04-12-04
4345	XG.2004.616.8	1634-04-4	Methyl t-butyl ether (MTBE)	ND	ug / L	1	1		04-12-04	04-12-04
4345	XG.2004.616.8	75-09-2	Methylene chloride	ND	ug / L	1	10		04-12-04	04-12-04
4345	XG.2004.616.8	91-20-3	Naphthalene	ND	ug / L	1	5		04-12-04	04-12-04
4345	XG.2004.616.8	95-47-6	o-Xylene 70	[illegible]	ug / L	1	1		04-12-04	04-12-04
4345	XG.2004.616.8	108-38-3/106-42	p/m-Xylenes	ND	ug / L	1	2		04-12-04	04-12-04
4345	XG.2004.616.8	100-42-5	Styrene	ND	ug / L	1	1		04-12-04	04-12-04
4345	XG.2004.616.8	156-60-5	t-1,2 Dichloroethene	ND	ug / L	1	1		04-12-04	04-12-04
4345	XG.2004.616.8	10061-02-6	t-1,3 Dichloropropene	ND	ug / L	1	1		04-12-04	04-12-04
4345	XG.2004.616.8	127-18-4	Tetrachloroethene (PCE)	ND	ug / L	1	1		04-12-04	04-12-04
4345	XG.2004.616.8	108-88-3	Toluene 10	0.0 6.6	ug / L	1	1		04-12-04	04-12-04
4345	XG.2004.616.8	79-01-6	Trichloroethene	ND	ug / L	1	1		04-12-04	04-12-04
4345	XG.2004.616.8	75-69-4	Trichlorofluoromethane	ND	ug / L	1	5		04-12-04	04-12-04
4345	XG.2004.616.8	108-05-4	Vinyl acetate	ND	ug / L	1	5		04-12-04	04-12-04
4345	XG.2004.616.8	75-01-4	Vinyl chloride	ND	ug / L	1	5		04-12-04	04-12-04

mple: ***04SWRC270*** Collected: *04-08-04 8:35:00* By: *DR*

trix: ***H2O***

: Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
04180-02A			SW846 3510B/8270C SVOCs by GC/MS				By: DS			
337	XG.2004.617.6	120-82-1	1,2,4-Trichlorobenzene	ND	ug / L	1	1		04-09-04	04-09-04
337	XG.2004.617.6	95-50-1	1,2-Dichlorobenzene	ND	ug / L	1	1		04-09-04	04-09-04
337	XG.2004.617.6	541-73-1	1,3-Dichlorobenzene	ND	ug / L	1	1		04-09-04	04-09-04
337	XG.2004.617.6	106-46-7	1,4-Dichlorobenzene	ND	ug / L	1	1		04-09-04	04-09-04
337	XG.2004.617.6	90-12-0	1-Methylnaphthalene	ND	ug / L	1	1		04-09-04	04-09-04

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**

Project: **7D44 JF30 0045 MGTI**

Order: **0404180 LOS17** Receipt: **04-08-04**

Sample: ***04SWRC270*** Collected: *04-08-04 8:35:00* By: *DR*

Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
)404180-02A			SW846 3510B/8270C SVOCs by GC/MS				By:	DS		
(04337	XG.2004.617.6	58-90-2	2,3,4,6-Tetrachlorophenol	ND	ug / L	1	5		04-09-04	04-09-04
(04337	XG.2004.617.6	95-95-4	2,4,5-Trichlorophenol	ND	ug / L	1	5		04-09-04	04-09-04
(04337	XG.2004.617.6	88-06-2	2,4,6-Trichlorophenol	ND	ug / L	1	5		04-09-04	04-09-04
(04337	XG.2004.617.6	120-83-2	2,4-Dichlorophenol	ND	ug / L	1	5		04-09-04	04-09-04
(04337	XG.2004.617.6	105-67-9	2,4-Dimethylphenol	ND	ug / L	1	0.2		04-09-04	04-09-04
(04337	XG.2004.617.6	51-28-5	2,4-Dinitrophenol	ND	ug / L	1	10		04-09-04	04-09-04
(04337	XG.2004.617.6	121-14-2	2,4-Dinitrotoluene 140	6.7	ug / L	1	5		04-09-04	04-09-04
(04337	XG.2004.617.6	606-20-2	2,6-Dinitrotoluene	ND	ug / L	1	5		04-09-04	04-09-04
(04337	XG.2004.617.6	91-58-7	2-Chloronaphthalene	ND	ug / L	1	1		04-09-04	04-09-04
(04337	XG.2004.617.6	95-57-8	2-Chlorophenol	ND	ug / L	1	1		04-09-04	04-09-04
(04337	XG.2004.617.6	91-57-6	2-Methylnaphthalene	ND	ug / L	1	1		04-09-04	04-09-04
(04337	XG.2004.617.6	95-48-7	2-Methylphenol	ND	ug / L	1	1		04-09-04	04-09-04
(04337	XG.2004.617.6	88-74-4	2-Nitroaniline	ND	ug / L	1	5		04-09-04	04-09-04
(04337	XG.2004.617.6	88-75-5	2-Nitrophenol	ND	ug / L	1	5		04-09-04	04-09-04
(04337	XG.2004.617.6	91-94-1	3,3-Dichlorobenzidine	ND	ug / L	1	10		04-09-04	04-09-04
(04337	XG.2004.617.6		3+4 Methylphenol	ND	ug / L	1	1		04-09-04	04-09-04
(04337	XG.2004.617.6	99-09-2	3-Nitroaniline	ND	ug / L	1	5		04-09-04	04-09-04
(04337	XG.2004.617.6	534-52-1	4,6-Dinitro-2-methylphenol	ND	ug / L	1	10		04-09-04	04-09-04
(04337	XG.2004.617.6	101-55-3	4-Bromophenyl-phenylether	ND	ug / L	1	1		04-09-04	04-09-04
(04337	XG.2004.617.6	59-50-7	4-Chloro-3-methylphenol	ND	ug / L	1	5		04-09-04	04-09-04
(04337	XG.2004.617.6	106-47-8	4-Chloroaniline	ND	ug / L	1	5		04-09-04	04-09-04
(04337	XG.2004.617.6	7005-72-3	4-Chlorophenyl-phenylether	ND	ug / L	1	1		04-09-04	04-09-04
(04337	XG.2004.617.6	100-01-6	4-Nitroaniline	ND	ug / L	1	5		04-09-04	04-09-04
04337	XG.2004.617.6	100-02-7	4-Nitrophenol	ND	ug / L	1	10		04-09-04	04-09-04
04337	XG.2004.617.6	83-32-9	Acenaphthene	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	208-96-8	Acenaphthylene	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	62-53-3	Aniline	ND	ug / L	1	10		04-09-04	04-09-04
04337	XG.2004.617.6	120-12-7	Anthracene	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6		Azobenzene&1,2-Diphenylhydrazine	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	56-55-3	Benzo (a) anthracene	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	50-32-8	Benzo(a)pyrene	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6		Benzo(b & k)fluoranthene	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	191-24-2	Benzo(g,h,i)perylene	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	65-85-0	Benzoic acid	ND	ug / L	1	25		04-09-04	04-09-04
04337	XG.2004.617.6	100-51-6	Benzyl alcohol	ND	ug / L	1	5		04-09-04	04-09-04
04337	XG.2004.617.6	111-44-4	bis (2-Chloroethyl) ether	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	111-91-1	bis(2-Chloroethoxy)methane	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	108-60-1	bis(2-Chloroisopropyl)ether	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	117-81-7	bis(2-Ethylhexyl)phthalate	ND	ug / L	1	5		04-09-04	04-09-04
04337	XG.2004.617.6	85-68-7	Butylbenzylphthalate 26	0.088	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	218-01-9	Chrysene	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	53-70-3	Dibenz(a,h)anthracene	ND	ug / L	1	1		04-09-04	04-09-04

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**

Project: **7D44 JF30 0045 MGTI**

Order: **0404180 LOS17** Receipt: **04-08-04**

Sample: ***04SWRC270*** Collected: *04-08-04 8:35:00* By: *DR*

Matrix: ***H2O***

SW846 3510B/8270C SVOCs by GC/MS By: DS

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0404180-02A										
04337	XG.2004.617.6	132-64-9	Dibenzofuran	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	84-66-2	Diethylphthalate 28	.09	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	131-11-3	Dimethylphthalate	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	84-74-2	di-n-Butylphthalate 26	.04.5	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	117-84-0	di-n-Octylphthalate	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	206-44-0	Fluoranthene	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	86737	Fluorene	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	118-74-1	Hexachlorobenzene	ND	ug / L	1	10		04-09-04	04-09-04
04337	XG.2004.617.6	87-68-3	Hexachlorobutadiene	ND	ug / L	1	10		04-09-04	04-09-04
04337	XG.2004.617.6	77-47-4	Hexachlorocyclopentadiene	ND	ug / L	1	10		04-09-04	04-09-04
04337	XG.2004.617.6	67-72-1	Hexachloroethane	ND	ug / L	1	5		04-09-04	04-09-04
04337	XG.2004.617.6	193-39-5	Indeno(1,2,3-cd)pyrene	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	78-59-1	Isophorone	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	91-20-3	Naphthalene	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	98-95-3	Nitrobenzene	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	62-75-9	n-Nitroso-dimethyl-amine	ND	ug / L	1	10		04-09-04	04-09-04
04337	XG.2004.617.6	621-64-7	n-Nitroso-di-n-propylamine	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	86-30-6	n-Nitrosodiphenylamine	.005.8	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	87-86-5	Pentachlorophenol	ND	ug / L	1	10		04-09-04	04-09-04
04337	XG.2004.617.6	85-01-8	Phenanthrene	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.3	108-95-2	Phenol	ND	ug / L	10	10		04-09-04	04-09-04
04337	XG.2004.617.6	129-00-0	Pyrene	ND	ug / L	1	1		04-09-04	04-09-04
04337	XG.2004.617.6	110-86-1	Pyridine	ND	ug / L	1	10		04-09-04	04-09-04

Sample: ***04SWRC271*** Collected: *04-08-04 8:35:00* By: *DR*

Matrix: ***H2O***

SW846 8330 Explosives by HPLC By: WB/PW

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0404180-03A										
04340	XG.2004.618.19	99-35-4	1,3,5-Trinitrobenzene	ND	ug / L	8	0.25	1 2	04-09-04	04-10-04
04340	XG.2004.618.18	99-65-0	1,3-Dinitrobenzene	ND	ug / L	84	0.25	1 2	04-09-04	04-10-04
04340	XG.2004.618.18	118-96-7	2,4,6-Trinitrotoluene	.130	ug / L	84	0.25	1 2	04-09-04	04-10-04
04340	XG.2004.618.19	121-14-2	2,4-Dinitrotoluene 140	.012.6	ug / L	8	0.25	1 2	04-09-04	04-10-04
04340	XG.2004.618.20	606-20-2	2,6-Dinitrotoluene	ND	ug / L	1	0.25	1 2	04-09-04	04-10-04
04340	XG.2004.618.19	355-72-78-2	2-Amino-4,6-Dinitrotoluene	0.34	ug / L	8	0.25	1 2	04-09-04	04-10-04
04340	XG.2004.618.20	88-72-2	2-Nitrotoluene	ND	ug / L	1	0.25	1 2	04-09-04	04-10-04
04340	XG.2004.618.19	99-08-1	3-Nitrotoluene	ND	ug / L	8	0.25	1 2	04-09-04	04-10-04
04340	XG.2004.618.19	1946-51-0	4-Amino-2,6-Dinitrotoluene	0.26	ug / L	8	0.25	1 2	04-09-04	04-10-04
04340	XG.2004.618.19	99-99-0	4-Nitrotoluene	ND	ug / L	8	0.25	1 2	04-09-04	04-10-04
04340	XG.2004.618.19	2691-41-0	HMX	ND	ug / L	8	0.25	1 2	04-09-04	04-10-04
04340	XG.2004.618.18	98-95-3	Nitrobenzene	ND	ug / L	84	0.25	1 2	04-09-04	04-10-04

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**

Project: **7D44 JF30 0045 MGTI**

Order: **0404180** **LOS17** Receipt: **04-08-04**

Sample: ***04SWRC271*** Collected: *04-08-04 8:35:00* By: *DR*

Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0404180-03A		SW846 8330 Explosives by HPLC						By: WB/PW		
X04340	XG.2004.618.101	121-82-4	RDX	2900	ug / L	840	0.25	1 2	04-09-04	04-12-04
X04340	XG.2004.618.20	479-45-8	Tetryl	ND	ug / L	1	0.25	1 2	04-09-04	04-10-04

Sample: ***04SWRC272*** Collected: *04-08-04 8:35:00* By: *DR*

Matrix: ***H20***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0404180-04B		SW846 1311/3010A/6010B ICP TCLP						By: KDW		
M04525	MT.2004.630.33	7440-38-2	Arsenic	ND	mg / L	500	0.2		04-10-04	04-12-04
M04525	MT.2004.630.33	7440-39-3	Barium	6210	mg / L	500	0.2		04-10-04	04-12-04
M04525	MT.2004.630.33	7440-43-9	Cadmium	ND	mg / L	500	0.02		04-10-04	04-12-04
M04525	MT.2004.630.33	7440-47-3	Chromium	ND	mg / L	500	0.02		04-10-04	04-12-04
M04526	MT.2004.630.33	7439-92-1	Lead	ND	mg / L	500	0.1		04-10-04	04-12-04
M04525	MT.2004.630.33	7782-49-2	Selenium	ND	mg / L	500	0.05		04-10-04	04-12-04
M04525	MT.2004.630.33	7440-22-4	Silver	ND	mg / L	500	0.04		04-10-04	04-12-04
0404180-04B		SW846 1311/7470A CVAA TCLP						By: kdw		
M04526	MT.2004.629.27	7439-97-6	Mercury	0.0004	mg / L	1	0.0002	B	04-12-04	04-12-04

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or footnotes will appear below.

1 The surrogate recovery was outside of QC criteria, suggesting matrix interference problems. This should be taken into account when reviewing the data.

2 This sample was utilized for the matrix spike and duplicate. Please note that the recoveries and RPD's were outside of QC criteria, suggesting matrix interference problems. This should be taken into account when reviewing the data.

LOS ALAMOS NATIONAL LABORATORY
WASTE PROFILE SYSTEM

WPF #: 37438

15-Mar-2006 09:32 AM (Version: 1)

Generator :	**STAFFORD, DARRIK G**	MS :	**J590**	PH :	**6671638**	Z#:	**110010**
WMC :	**THOMAS, JOHN**	MS :	**H805**	PH :	**5056678400**	Z#:	**105444**
Contact :							
RCRA Rev :	**Coriz Michelle L**	MS :	**J595**	PH :	**5056656411**	Z#:	**120950**
Status :	**EXPIRE**	Activation Date :	**04/26/2004**		Expiration Date:		**04/26/2005**
Group :	**FWO-IP**	TA :	**16**	Bldg :	**000340**	Room :	**ALL**

You are required to keep a copy of the WPF(s) in your files for at least three years. This WPF(s) is valid for one year or as long as the composition of the waste you have characterized remains the same. Should your waste change, please submit a new WPF to NWIS-SWO Customer Service.

Waste Accumu : **Less-than-90-days Storage Area Site ID# 2750**

Method of Char : Analysis/Documents Attached

Acceptable Knowledge Documentation Number: 04SWRC269-72, See Sec. 3

Waste Type : **Process Waste/Spent Chemical/Other**

Waste Classes: RCA Waste - **Not RCA Waste**

RAD Waste - **Non-rad**

Classif/Sensi - **N**

Waste Category: **Inorganic**
Organic
Volatile Organics < 500 ppm
Solvent
Explosive process

Waste Sources : **Decon/Decom**

Waste Matrix : **Solid**

Matrix Type : **Heterogeneous**

Process Desc :

HE-CONTAMINATED PIPING, FITTINGS, COMPONENTS, AND VESSELS REMOVED DURING D&D OF TA-16-340.

Waste Desc : N/A

Ignitability : **Not ignitable**

Corrosivity : **Non-aqueous**

Reactivity : **Explosive - DOT Div. 1.1**

Boiling Point : **Not applicable**

Toxicity Characteristic Metals:

Contaminant	Method	Limit	Min	Max	Unit
BARIUM	**TCLP**		**6210**	**6210**	**PPM**
MERCURY	**TCLP**	**Y**			**PPM**

Toxicity Characteristic Organic Compounds:

Contaminant	Method	Limit	Min	Max	Unit
BENZENE	**TCLP**	**Y**			**PPM**
2,4-DINITROTOLUENE	**AK**		**0.2**	**0.2**	**PPM**

METHYL ETHYL KETONE **TCLP** **Y** **PPM**

Additional Chemical Constituents and Contaminants:

CAS NO	Constituent	MIN	MAX	UOM
	ACTONE	0.00071	0.00071	%
	XYLENE	0.00000098	0.00000098	%
	TOLUENE	0.00000066	0.00000066	%
	DIETHYLPHTHALATE	0.00000037	0.00000037	%
	N-NITROSODIPHENYLAMINE	0.00000058	0.00000058	%
	METAL (NONHAZARDOUS)	96	99.9	%
	HE (HMX, TATB, RDX, TNT)	1	4	%
	1,2,4 TRIMETHYLBENZENE	0.000016	0.000016	%
	1,3,5 TRIMETHYLBENZENE	0.0000076	0.0000076	%
	2-BUTANONE (MEK)	0.0012	0.0012	%
	BENZENE	0.00000021	0.00000021	%
	2,4-DINITROTOLUENE	0.00002	0.00002	%
	BUTYLBENZYLPHTHALATE	0.00000088	0.00000088	%
	DI-N-BUTYLPHTHALATE	0.00000045	0.00000045	%
	2-AMINO-4,6 DINITROTOLUENE	0.0000026	0.0000026	%

Additional Information: HE COMPONENTS INCLUDE RDX, HMX, TNT AND TATB. WILL BE SENT TO TA-16 BURNING GROUNDS FOR TREATMENT. NO HERBICIDES OR PECTICIDES USED AT THIS SITE.

LDR and Underlying Hazardous Constituents Information

Non-Wastewater/Wastewater Category: **Non Wastewater**

WASTE CHARACTERIZATION INFORMATION

Radioactivity Category : **NON-RAD**

RCRA Category : **HAZARDOUS WASTE**

Secondary Info : N/A

Waste Classification : **HAZARDOUS WASTE**

Waste Acceptances : **TA-16 Acceptance**
ok for TA-16-388

EPA Hazardous Waste Code : **D005 D003 F005 D030**

Notification Of Underlying Hazardous Constituents:

Constituents
2,4-Dinitrotoluene
Barium

Attachment 3

RFA # 1197
Process H2O

ASSAIGAI ANALYTICAL LABORATORIES, INC.
4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, Ste. N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820
127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

Explanation of codes	
B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

LOS ALAMOS NATIONAL LABS
attn: **DUSTIE RICH**
P.O. BOX 1663, MS K490
LOS ALAMOS NM 87545

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 JF30 0045 MGTI**
Order: **0404180 LOS17** Receipt: **04-08-04**

William P. Blava: President of Assaigai Analytical Laboratories, Inc.

Sample: *04SWRC269* Collected: *04-08-04 8:35:00* By: *DR*
Matrix: *H2O*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0404180-01A		**SW846 8260B Purgeable VOCs by GC/MS**					By:	CWJ		
X04345	XG.2004.616.8	75-34-3	1,1 Dichloroethane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	75-35-4	1,1 Dichloroethene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	71-55-6	1,1,1 Trichloroethane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	630-20-6	1,1,1,2 Tetrachloroethane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	79-00-5	1,1,2 Trichloroethane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	79-34-5	1,1,2,2 Tetrachloroethane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	106-93-4	1,2 Dibromoethane (EDB)	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	95-50-1	1,2 Dichlorobenzene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	107-06-2	1,2 Dichloroethane (EDC)	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	78-87-5	1,2 Dichloropropane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	96-18-4	1,2,3 Trichloropropane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	95-63-6	1,2,4-Trimethylbenzene	160	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	541-73-1	1,3 Dichlorobenzene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	108-67-8	1,3,5-Trimethylbenzene	76	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	764-41-0	1,4 Dichloro-2-butene	ND	ug / L	1	10		04-12-04	04-12-04
X04345	XG.2004.616.8	106-46-7	1,4 Dichlorobenzene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.10	78-93-3	2-Butanone (MEK)	12000	ug / L	500	5		04-12-04	04-12-04
X04345	XG.2004.616.8	591-78-6	2-Hexanone (MBK)	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.10	67-64-1	Acetone	7100	ug / L	500	10		04-12-04	04-12-04
X04345	XG.2004.616.8	107-02-8	Acrolein	ND	ug / L	1	20		04-12-04	04-12-04
X04345	XG.2004.616.8	107-13-1	Acrylonitrile	ND	ug / L	1	20		04-12-04	04-12-04
X04345	XG.2004.616.8	71-43-2	Benzene	2.1	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	75-27-4	Bromodichloromethane	ND	ug / L	1	1		04-12-04	04-12-04

REPRODUCTION OF THIS REPORT IN LESS THAN FULL REQUIRES THE WRITTEN CONSENT OF AAL.

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**

Project: **7D44 JF30 0045 MGTI**

Order: **0404180 LOS17** Receipt: **04-08-04**

Sample: ***04SWRC269*** Collected: *04-08-04 8:35:00* By: *DR*

Matrix: ***H2O***

0404180-01A — **SW846 8260B Purgeable VOCs by GC/MS** — By: CWJ

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
X04345	XG.2004.616.8	75-25-2	Bromoform	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	74-83-9	Bromomethane	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	75-15-0	Carbon disulfide	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	56-23-5	Carbon tetrachloride	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	108-90-7	Chlorobenzene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	124-48-1	Chlorodibromomethane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	75-00-3	Chloroethane	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	67-66-3	Chloroform	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	74-87-3	Chloromethane	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	156-59-2	cis-1,2 dichloroethene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8		cis-1,3 Dichloropropene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	74-95-3	Dibromomethane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	97-63-2	Ethyl methacrylate	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	100-41-4	Ethylbenzene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8		Freon 113	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	75-71-8	Freon 12	ND	ug / L	1	10		04-12-04	04-12-04
X04345	XG.2004.616.8	1634-04-4	Methyl t-butyl ether (MTBE)	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	75-09-2	Methylene chloride	ND	ug / L	1	10		04-12-04	04-12-04
X04345	XG.2004.616.8	91-20-3	Naphthalene	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	95-47-6	o-Xylene	9.8	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	108-38-3/106-42	p/m-Xylenes	ND	ug / L	1	2		04-12-04	04-12-04
X04345	XG.2004.616.8	100-42-5	Styrene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	156-60-5	t-1,2 Dichloroethene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	10061-02-6	t-1,3 Dichloropropene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	127-18-4	Tetrachloroethene (PCE)	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	108-88-3	Toluene	6.6	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	79-01-6	Trichloroethene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	75-69-4	Trichlorofluoromethane	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	108-05-4	Vinyl acetate	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	75-01-4	Vinyl chloride	ND	ug / L	1	5		04-12-04	04-12-04

Sample: ***04SWRC270*** Collected: *04-08-04 8:35:00* By: *DR*

Matrix: ***H2O***

0404180-02A — **SW846 3510B/8270C SVOCs by GC/MS** — By: DS

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
X04337	XG.2004.617.6	120-82-1	1,2,4-Trichlorobenzene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	95-50-1	1,2-Dichlorobenzene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	541-73-1	1,3-Dichlorobenzene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	106-46-7	1,4-Dichlorobenzene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	90-12-0	1-Methylnaphthalene	ND	ug / L	1	1		04-09-04	04-09-04

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**

Project: **7D44 JF30 0045 MGTI**

Order: **0404180** **LOS17** Receipt: **04-08-04**

Sample: *04SWRC270* Collected: *04-08-04 8:35:00* By: *DR*

Matrix: *H2O*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0404180-02A			SW846 3510B/8270C SVOCs by GC/MS				By:	DS		
X04337	XG.2004.617.6	58-90-2	2,3,4,6-Tetrachlorophenol	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	95-95-4	2,4,5-Trichlorophenol	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	88-06-2	2,4,6-Trichlorophenol	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	120-83-2	2,4-Dichlorophenol	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	105-67-9	2,4-Dimethylphenol	ND	ug / L	1	0.2		04-09-04	04-09-04
X04337	XG.2004.617.6	51-28-5	2,4-Dinitrophenol	ND	ug / L	1	10		04-09-04	04-09-04
X04337	XG.2004.617.6	121-14-2	2,4-Dinitrotoluene	6.7	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	606-20-2	2,6-Dinitrotoluene	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	91-58-7	2-Chloronaphthalene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	95-57-8	2-Chlorophenol	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	91-57-6	2-Methylnaphthalene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	95-48-7	2-Methylphenol	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	88-74-4	2-Nitroaniline	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	88-75-5	2-Nitrophenol	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	91-94-1	3,3-Dichlorobenzidine	ND	ug / L	1	10		04-09-04	04-09-04
X04337	XG.2004.617.6		3+4 Methylphenol	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	99-09-2	3-Nitroaniline	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	534-52-1	4,6-Dinitro-2-methylphenol	ND	ug / L	1	10		04-09-04	04-09-04
X04337	XG.2004.617.6	101-55-3	4-Bromophenyl-phenylether	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	59-50-7	4-Chloro-3-methylphenol	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	106-47-8	4-Chloroaniline	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	7005-72-3	4-Chlorophenyl-phenylether	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	100-01-6	4-Nitroaniline	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	100-02-7	4-Nitrophenol	ND	ug / L	1	10		04-09-04	04-09-04
X04337	XG.2004.617.6	83-32-9	Acenaphthene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	208-96-8	Acenaphthylene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	62-53-3	Aniline	ND	ug / L	1	10		04-09-04	04-09-04
X04337	XG.2004.617.6	120-12-7	Anthracene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6		Azobenzene&1,2-Diphenylhydrazine	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	56-55-3	Benzo (a) anthracene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	50-32-8	Benzo(a)pyrene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6		Benzo(b & k)fluoranthene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	191-24-2	Benzo(g,h,i)perylene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	64-85-0	Benzoic acid	ND	ug / L	1	25		04-09-04	04-09-04
X04337	XG.2004.617.6	100-51-6	Benzyl alcohol	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	111-44-4	bis (2-Chloroethyl) ether	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	111-91-1	bis(2-Chloroethoxy)methane	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	108-60-1	bis(2-Chloroisopropyl)ether	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	117-81-7	bis(2-Ethylhexyl)phthalate	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	85-68-7	Butylbenzylphthalate	8.8	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	218-01-9	Chrysene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	53-70-3	Dibenz(a,h)anthracene	ND	ug / L	1	1		04-09-04	04-09-04

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 JF30 0045 MGTI**
Order: **0404180 LOS17** Receipt: **04-08-04**

Sample: ***04SWRC270*** Collected: *04-08-04 8:35:00* By: *DR*
Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0404180-02A		**SW846 3510B/8270C SVOCs by GC/MS**					By: DS			
X04337	XG.2004.617.6	132-64-9	Dibenzofuran	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	84-66-2	Diethylphthalate	3.0	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	131-11-3	Dimethylphthalate	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	84-74-2	di-n-Butylphthalate	4.5	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	117-84-0	di-n-Octylphthalate	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	206-44-0	Fluoranthene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	86737	Fluorene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	118-74-1	Hexachlorobenzene	ND	ug / L	1	10		04-09-04	04-09-04
X04337	XG.2004.617.6	87-68-3	Hexachlorobutadiene	ND	ug / L	1	10		04-09-04	04-09-04
X04337	XG.2004.617.6	77-47-4	Hexachlorocyclopentadiene	ND	ug / L	1	10		04-09-04	04-09-04
X04337	XG.2004.617.6	67-72-1	Hexachloroethane	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	193-39-5	Indeno(1,2,3-cd)pyrene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	78-59-1	Isophorone	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	91-20-3	Naphthalene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	98-95-3	Nitrobenzene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	62-75-9	n-Nitroso-dimethyl-amine	ND	ug / L	1	10		04-09-04	04-09-04
X04337	XG.2004.617.6	621-64-7	n-Nitroso-di-n-propylamine	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	86-30-6	n-Nitrosodiphenylamine	5.8	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	87-86-5	Pentachlorophenol	ND	ug / L	1	10		04-09-04	04-09-04
X04337	XG.2004.617.6	85-01-8	Phenanthrene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.3	108-95-2	Phenol	ND	ug / L	10	10		04-09-04	04-09-04
X04337	XG.2004.617.6	129-00-0	Pyrene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	110-86-1	Pyridine	ND	ug / L	1	10		04-09-04	04-09-04

Sample: ***04SWRC271*** Collected: *04-08-04 8:35:00* By: *DR*
Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0404180-03A		**SW846 8330 Explosives by HPLC**					By: WB/PW			
X04340	XG.2004.618.19	99-35-4	1,3,5-Trinitrobenzene	ND	ug / L	8	0.25	1 2	04-09-04	04-10-04
X04340	XG.2004.618.18	99-65-0	1,3-Dinitrobenzene	ND	ug / L	84	0.25	1 2	04-09-04	04-10-04
X04340	XG.2004.618.18	118-96-7	2,4,6-Trinitrotoluene	130	ug / L	84	0.25	1 2	04-09-04	04-10-04
X04340	XG.2004.618.19	121-14-2	2,4-Dinitrotoluene	2.6	ug / L	8	0.25	1 2	04-09-04	04-10-04
X04340	XG.2004.618.20	606-20-2	2,6-Dinitrotoluene	ND	ug / L	1	0.25	1 2	04-09-04	04-10-04
X04340	XG.2004.618.19	355-72-78-2	2-Amino-4,6-Dinitrotoluene	34	ug / L	8	0.25	1 2	04-09-04	04-10-04
X04340	XG.2004.618.20	88-72-2	2-Nitrotoluene	ND	ug / L	1	0.25	1 2	04-09-04	04-10-04
X04340	XG.2004.618.19	99-08-1	3-Nitrotoluene	ND	ug / L	8	0.25	1 2	04-09-04	04-10-04
X04340	XG.2004.618.19	1946-51-0	4-Amino-2,6-Dinitrotoluene	26	ug / L	8	0.25	1 2	04-09-04	04-10-04
X04340	XG.2004.618.19	99-99-0	4-Nitrotoluene	ND	ug / L	8	0.25	1 2	04-09-04	04-10-04
X04340	XG.2004.618.19	2691-41-0	HMX	ND	ug / L	8	0.25	1 2	04-09-04	04-10-04
X04340	XG.2004.618.18	98-95-3	Nitrobenzene	ND	ug / L	84	0.25	1 2	04-09-04	04-10-04

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**

Project: **7D44 JF30 0045 MGTI**

Order: **0404180** **LOS17** Receipt: **04-08-04**

Sample: ***04SWRC271*** Collected: *04-08-04 8:35:00* By: *DR*

Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0404180-03A		**SW846 8330 Explosives by HPLC**						By: WB/PW		
X04340	XG.2004.618.101	121-82-4	RDX	2900	ug / L	840	0.25	1 2	04-09-04	04-12-04
X04340	XG.2004.618.20	479-45-8	Tetryl	ND	ug / L	1	0.25	1 2	04-09-04	04-10-04

Sample: ***04SWRC272*** Collected: *04-08-04 8:35:00* By: *DR*

Matrix: ***H20***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0404180-04B		**SW846 1311/3010A/6010B ICP TCLP**						By: KDW		
M04525	MT.2004.630.33	7440-38-2	Arsenic	ND	mg / L	500	0.2		04-10-04	04-12-04
M04525	MT.2004.630.33	7440-39-3	Barium	6210	mg / L	500	0.2		04-10-04	04-12-04
M04525	MT.2004.630.33	7440-43-9	Cadmium	ND	mg / L	500	0.02		04-10-04	04-12-04
M04525	MT.2004.630.33	7440-47-3	Chromium	ND	mg / L	500	0.02		04-10-04	04-12-04
M04525	MT.2004.630.33	7439-92-1	Lead	ND	mg / L	500	0.1		04-10-04	04-12-04
M04525	MT.2004.630.33	7782-49-2	Selenium	ND	mg / L	500	0.05		04-10-04	04-12-04
M04525	MT.2004.630.33	7440-22-4	Silver	ND	mg / L	500	0.04		04-10-04	04-12-04
0404180-04B		**SW846 1311/7470A CVAA TCLP**						By: kdw		
M04526	MT.2004.629.27	7439-97-6	Mercury	0.0004	mg / L	1	0.0002	B	04-12-04	04-12-04

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or footnotes will appear below.

1 The surrogate recovery was outside of QC criteria, suggesting matrix interference problems. This should be taken into account when reviewing the data.

2 This sample was utilized for the matrix spike and duplicate. Please note that the recoveries and RPD's were outside of QC criteria, suggesting matrix interference problems. This should be taken into account when reviewing the data.

LOS ALAMOS NATIONAL LABORATORY
WASTE PROFILE SYSTEM

WPF #: 37439

15-Mar-2006 09:32 AM (Version: 1)

Generator :	**STAFFORD, DARRIK G**	MS :	**J590**	PH :	**6671638**	Z#:	**110010**
WMC :	**THOMAS, JOHN**	MS :	**H805**	PH :	**5056678400**	Z#:	**105444**
Contact :							
RCRA Rev :	**Coriz Michelle L**	MS :	**J595**	PH :	**5056656411**	Z#:	**120950**
Status :	**EXPIRE**	Activation Date :	**04/26/2004**		Expiration Date:		**04/26/2005**
Group :	**FWO-IP**	TA :	**16**	Bldg :	**000340**	Room :	**ALL**

You are required to keep a copy of the WPF(s) in your files for at least three years. This WPF(s) is valid for one year or as long as the composition of the waste you have characterized remains the same. Should your waste change, please submit a new WPF to NWIS-SWO Customer Service.

Waste Accumu : **None of the Above Site ID#**

Method of Char : Analysis/Documents Attached
Chemical/Physical Analysis Number: 04SWRC269-72
Acceptable Knowledge Documentation Number: See Section 3

Waste Type : **Process Waste/Spent Chemical/Other**

Waste Classes:
RCA Waste - **Not RCA Waste**
RAD Waste - **Non-rad**
WW Info - **TA16**
Classif/Sensi - **N**

Waste Category: **Inorganic**
Organic
Volatile Organics < 500 ppm
Solvent
Explosive process

Waste Sources : **Decon/Decom**

Waste Matrix : **Aqueous**

Matrix Type : **Homogeneous**

Process Desc :
WATER FROM STABILIZATION OF HE CONTAMINATED REMOVED DEBRIS REMOVED FROM TA-16-340 DURNING D&D ACTIVITIES.

Waste Desc : N/A

Ignitability : **Not ignitable**

Corrosivity : **6.1 - 9.0**

Reactivity : **Non-reactive**

Boiling Point : **Not applicable**

Toxicity Characteristic Metals:

Contaminant	Method	Limit	Min	Max	Unit
BARIUM	**TCLP**		**6210**	**6210**	**PPM**
MERCURY	**TCLP**	**Y**			**PPM**

Toxicity Characteristic Organic Compounds:

Contaminant	Method	Limit	Min	Max	Unit
BENZENE	**TCLP**	**Y**			**PPM**

2,4-DINITROTOLUENE	**TCLP**	**Y**		**PPM**
METHYL ETHYL KETONE	**TCLP**	**Y**		**PPM**

Additional Chemical Constituents and Contaminants:

CAS NO	Constituent	MIN	MAX	UOM
	ACETONE	0.00071	0.00071	%
	XYLENE	0.00000098	0.00000098	%
	TOLUENE	0.00000066	0.00000066	%
	DIETHYLPHTHALATE	0.00000037	0.00000037	%
	N-NITROSODIPHENYLAMINE	0.00000058	0.00000058	%
	WATER	96	99.9	%
	RDX	0.00029	0.00029	%
	1,2,4-TRIMETHYLBENZENE	0.000016	0.000016	%
	1,3,5-TRIMETHYLBENZENE	0.0000076	0.0000076	%
	2-BUTANONE (MEK)	0.0012	0.0012	%
	BENZENE	0.00000021	0.00000021	%
	2,4 DINITROTOLUENE	0.00000067	0.00000067	%
	BUTYLBENZYLPHTHALATE	0.00000088	0.00000088	%
	DI-N-BUTYLPHTHALATE	0.00000045	0.00000045	%
	2-AMINO-4,6 DINITROTOLUENE	0.0000034	0.0000034	%
	4-AMINO-2,6 DINITROTOLUENE	0.0000026	0.0000026	%

Additional Information: NO HERBICIDES OR PECTICIDES AT THIS SITE.

LDR and Underlying Hazardous Constituents Information

Non-Wastewater/Wastewater Category: **Wastewater [as defined by 40 CFR 268.2(f)]**

WASTE CHARACTERIZATION INFORMATION

Radioactivity Category : **NON-RAD**

RCRA Category : **HAZARDOUS WASTE**

Secondary Info : N/A

Waste Classification : **HAZARDOUS WASTE**

Waste Acceptances :

EPA Hazardous Waste Code : **D005 F005**

Notification Of Underlying Hazardous Constituents:

Constituents

Acetone
Methyl ethyl ketone
Barium

Attachment 4

RL. # 1197
Process H2O

ASSAIGAI ANALYTICAL LABORATORIES, INC.
4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, Ste. N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820
127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

Explanation of codes	
B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

LOS ALAMOS NATIONAL LABS
attn: **DUSTIE RICH**
P.O. BOX 1663, MS K490
LOS ALAMOS NM 87545

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 JF30 0045 MGTI**
Order: **0404180 LOS17** Receipt: **04-08-04**

William P. Blava: President of Assaigai Analytical Laboratories, Inc.

Sample: ***04SWRC269*** Collected: *04-08-04 8:35:00* By: *DR*
Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0404180-01A		**SW846 8260B Purgeable VOCs by GC/MS**					By:	CWJ		
X04345	XG.2004.616.8	75-34-3	1,1 Dichloroethane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	75-35-4	1,1 Dichloroethene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	71-55-6	1,1,1 Trichloroethane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	630-20-6	1,1,1,2 Tetrachloroethane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	79-00-5	1,1,2 Trichloroethane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	79-34-5	1,1,2,2 Tetrachloroethane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	106-93-4	1,2 Dibromoethane (EDB)	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	95-50-1	1,2 Dichlorobenzene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	107-06-2	1,2 Dichloroethane (EDC)	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	78-87-5	1,2 Dichloropropane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	96-18-4	1,2,3 Trichloropropane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	95-63-6	1,2,4-Trimethylbenzene	160	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	541-73-1	1,3 Dichlorobenzene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	108-67-8	1,3,5-Trimethylbenzene	76	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	764-41-0	1,4 Dichloro-2-butene	ND	ug / L	1	10		04-12-04	04-12-04
X04345	XG.2004.616.8	106-46-7	1,4 Dichlorobenzene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.10	78-93-3	2-Butanone (MEK)	12000	ug / L	500	5		04-12-04	04-12-04
X04345	XG.2004.616.8	591-78-6	2-Hexanone (MBK)	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.10	67-64-1	Acetone	7100	ug / L	500	10		04-12-04	04-12-04
X04345	XG.2004.616.8	107-02-8	Acrolein	ND	ug / L	1	20		04-12-04	04-12-04
X04345	XG.2004.616.8	107-13-1	Acrylonitrile	ND	ug / L	1	20		04-12-04	04-12-04
X04345	XG.2004.616.8	71-43-2	Benzene	2.1	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	75-27-4	Bromodichloromethane	ND	ug / L	1	1		04-12-04	04-12-04

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PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM.

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Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**

Project: **7D44 JF30 0045 MGTI**

Order: **0404180 LOS17** Receipt: **04-08-04**

Sample: ***04SWRC269*** Collected: *04-08-04 8:35:00* By: *DR*

Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0404180-01A		**SW846 8260B Purgeable VOCs by GC/MS**					By:	CWJ		
X04345	XG.2004.616.8	75-25-2	Bromoform	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	74-83-9	Bromomethane	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	75-15-0	Carbon disulfide	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	56-23-5	Carbon tetrachloride	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	108-90-7	Chlorobenzene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	124-48-1	Chlorodibromomethane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	75-00-3	Chloroethane	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	67-66-3	Chloroform	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	74-87-3	Chloromethane	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	156-59-2	cis-1,2 dichloroethene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8		cis-1,3 Dichloropropene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	74-95-3	Dibromomethane	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	97-63-2	Ethyl methacrylate	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	100-41-4	Ethylbenzene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8		Freon 113	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	75-71-8	Freon 12	ND	ug / L	1	10		04-12-04	04-12-04
X04345	XG.2004.616.8	1634-04-4	Methyl t-butyl ether (MTBE)	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	75-09-2	Methylene chloride	ND	ug / L	1	10		04-12-04	04-12-04
X04345	XG.2004.616.8	91-20-3	Naphthalene	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	95-47-6	o-Xylene 20	9.8	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	108-38-3/106-42	p/m-Xylenes	ND	ug / L	1	2		04-12-04	04-12-04
X04345	XG.2004.616.8	100-42-5	Styrene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	156-60-5	t-1,2 Dichloroethene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	10061-02-6	t-1,3 Dichloropropene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	127-18-4	Tetrachloroethene (PCE)	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	108-88-3	Toluene 10	5.6	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	79-01-6	Trichloroethene	ND	ug / L	1	1		04-12-04	04-12-04
X04345	XG.2004.616.8	75-69-4	Trichlorofluoromethane	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	108-05-4	Vinyl acetate	ND	ug / L	1	5		04-12-04	04-12-04
X04345	XG.2004.616.8	75-01-4	Vinyl chloride	ND	ug / L	1	5		04-12-04	04-12-04

Sample: ***04SWRC270*** Collected: *04-08-04 8:35:00* By: *DR*

Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0404180-02A		**SW846 3510B/8270C SVOCs by GC/MS**					By:	DS		
X04337	XG.2004.617.6	120-82-1	1,2,4-Trichlorobenzene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	95-50-1	1,2-Dichlorobenzene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	541-73-1	1,3-Dichlorobenzene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	106-46-7	1,4-Dichlorobenzene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	90-12-0	1-Methylnaphthalene	ND	ug / L	1	1		04-09-04	04-09-04

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Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**

Project: **7D44 JF30 0045 MGTI**

Order: **0404180** **LOS17** Receipt: **04-08-04**

Sample: ***04SWRC270*** Collected: *04-08-04 8:35:00* By: *DR*

Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0404180-02A		**SW846 3510B/8270C SVOCs by GC/MS**					By:	DS		
X04337	XG.2004.617.6	58-90-2	2,3,4,6-Tetrachlorophenol	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	95-95-4	2,4,5-Trichlorophenol	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	88-06-2	2,4,6-Trichlorophenol	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	120-83-2	2,4-Dichlorophenol	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	105-67-9	2,4-Dimethylphenol	ND	ug / L	1	0.2		04-09-04	04-09-04
X04337	XG.2004.617.6	51-28-5	2,4-Dinitrophenol	ND	ug / L	1	10		04-09-04	04-09-04
X04337	XG.2004.617.6	121-14-2	2,4-Dinitrotoluene 140	6.7	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	606-20-2	2,6-Dinitrotoluene	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	91-58-7	2-Chloronaphthalene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	95-57-8	2-Chlorophenol	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	91-57-6	2-Methylnaphthalene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	95-48-7	2-Methylphenol	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	88-74-4	2-Nitroaniline	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	88-75-5	2-Nitrophenol	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	91-94-1	3,3-Dichlorobenzidine	ND	ug / L	1	10		04-09-04	04-09-04
X04337	XG.2004.617.6		3+4 Methylphenol	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	99-09-2	3-Nitroaniline	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	534-52-1	4,6-Dinitro-2-methylphenol	ND	ug / L	1	10		04-09-04	04-09-04
X04337	XG.2004.617.6	101-55-3	4-Bromophenyl-phenylether	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	59-50-7	4-Chloro-3-methylphenol	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	106-47-8	4-Chloroaniline	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	7005-72-3	4-Chlorophenyl-phenylether	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	100-01-6	4-Nitroaniline	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	100-02-7	4-Nitrophenol	ND	ug / L	1	10		04-09-04	04-09-04
X04337	XG.2004.617.6	83-32-9	Acenaphthene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	208-96-8	Acenaphthylene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	62-53-3	Aniline	ND	ug / L	1	10		04-09-04	04-09-04
X04337	XG.2004.617.6	120-12-7	Anthracene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6		Azobenzene&1,2-Diphenylhydrazine	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	56-55-3	Benzo (a) anthracene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	50-32-8	Benzo(a)pyrene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6		Benzo(b & k)fluoranthene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	191-24-2	Benzo(g,h,i)perylene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	65-85-0	Benzoic acid	ND	ug / L	1	25		04-09-04	04-09-04
X04337	XG.2004.617.6	100-51-6	Benzyl alcohol	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	111-44-4	bis (2-Chloroethyl) ether	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	111-91-1	bis(2-Chloroethoxy)methane	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	108-60-1	bis(2-Chloroisopropyl)ether	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	117-81-7	bis(2-Ethylhexyl)phthalate	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	85-68-7	Butylbenzylphthalate 78	8.8	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	218-01-9	Chrysene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	53-70-3	Dibenz(a,h)anthracene	ND	ug / L	1	1		04-09-04	04-09-04

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 JF30 0045 MGTI**
Order: **0404180 LOS17** Receipt: **04-08-04**

Sample: ***04SWRC270*** Collected: *04-08-04 8:35:00* By: *DR*
Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0404180-02A		**SW846 3510B/8270C SVOCs by GC/MS**					By: DS			
X04337	XG.2004.617.6	132-64-9	Dibenzofuran	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	84-66-2	Diethylphthalate 28	3.0	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	131-11-3	Dimethylphthalate	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	84-74-2	di-n-Butylphthalate 28	4.5	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	117-84-0	di-n-Octylphthalate	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	206-44-0	Fluoranthene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	86737	Fluorene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	118-74-1	Hexachlorobenzene	ND	ug / L	1	10		04-09-04	04-09-04
X04337	XG.2004.617.6	87-68-3	Hexachlorobutadiene	ND	ug / L	1	10		04-09-04	04-09-04
X04337	XG.2004.617.6	77-47-4	Hexachlorocyclopentadiene	ND	ug / L	1	10		04-09-04	04-09-04
X04337	XG.2004.617.6	67-72-1	Hexachloroethane	ND	ug / L	1	5		04-09-04	04-09-04
X04337	XG.2004.617.6	193-39-5	Indeno(1,2,3-cd)pyrene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	78-59-1	Isophorone	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	91-20-3	Naphthalene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	98-95-3	Nitrobenzene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	62-75-9	n-Nitroso-dimethyl-amine	ND	ug / L	1	10		04-09-04	04-09-04
X04337	XG.2004.617.6	621-64-7	n-Nitroso-di-n-propylamine	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	86-30-6	n-Nitrosodiphenylamine NO UNIT	5.8	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	87-86-5	Pentachlorophenol	ND	ug / L	1	10		04-09-04	04-09-04
X04337	XG.2004.617.6	85-01-8	Phenanthrene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.3	108-95-2	Phenol	ND	ug / L	10	10		04-09-04	04-09-04
X04337	XG.2004.617.6	129-00-0	Pyrene	ND	ug / L	1	1		04-09-04	04-09-04
X04337	XG.2004.617.6	110-86-1	Pyridine	ND	ug / L	1	10		04-09-04	04-09-04

Sample: ***04SWRC271*** Collected: *04-08-04 8:35:00* By: *DR*
Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0404180-03A		**SW846 8330 Explosives by HPLC**					By: WB/PW			
X04340	XG.2004.618.19	99-35-4	1,3,5-Trinitrobenzene	ND	ug / L	8	0.25	12	04-09-04	04-10-04
X04340	XG.2004.618.18	99-65-0	1,3-Dinitrobenzene	ND	ug / L	84	0.25	12	04-09-04	04-10-04
X04340	XG.2004.618.18	118-96-7	2,4,6-Trinitrotoluene N/A	130	ug / L	84	0.25	12	04-09-04	04-10-04
X04340	XG.2004.618.19	121-14-2	2,4-Dinitrotoluene N/A	2.6	ug / L	8	0.25	12	04-09-04	04-10-04
X04340	XG.2004.618.20	606-20-2	2,6-Dinitrotoluene	ND	ug / L	1	0.25	12	04-09-04	04-10-04
X04340	XG.2004.618.19	355-72-78-2	2-Amino-4,6-Dinitrotoluene	34	ug / L	8	0.25	12	04-09-04	04-10-04
X04340	XG.2004.618.20	88-72-2	2-Nitrotoluene N/A	ND	ug / L	1	0.25	12	04-09-04	04-10-04
X04340	XG.2004.618.19	99-08-1	3-Nitrotoluene	ND	ug / L	8	0.25	12	04-09-04	04-10-04
X04340	XG.2004.618.19	1946-51-0	4-Amino-2,6-Dinitrotoluene N/A	26	ug / L	8	0.25	12	04-09-04	04-10-04
X04340	XG.2004.618.19	99-99-0	4-Nitrotoluene	ND	ug / L	8	0.25	12	04-09-04	04-10-04
X04340	XG.2004.618.19	2691-41-0	HMX	ND	ug / L	8	0.25	12	04-09-04	04-10-04
X04340	XG.2004.618.18	98-95-3	Nitrobenzene	ND	ug / L	84	0.25	12	04-09-04	04-10-04

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**

Project: **7D44 JF30 0045 MGTI**

Order: **0404180 LOS17** Receipt: **04-08-04**

Sample: ***04SWRC271*** Collected: *04-08-04 8:35:00* By: *DR*

Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0404180-03A		**SW846 8330 Explosives by HPLC**						By: WB/PW		
X04340	XG.2004.618.101	121-82-4	RDX	2900	ug / L	840	0.25	1 2	04-09-04	04-12-04
X04340	XG.2004.618.20	479-45-8	Tetryl	ND	ug / L	1	0.25	1 2	04-09-04	04-10-04

Sample: ***04SWRC272*** Collected: *04-08-04 8:35:00* By: *DR*

Matrix: ***H20***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0404180-04B		**SW846 1311/3010A/6010B ICP TCLP**						By: KDW		
M04525	MT.2004.630.33	7440-38-2	Arsenic	ND	mg / L	500	0.2		04-10-04	04-12-04
M04525	MT.2004.630.33	7440-39-3	Barium	6210	mg / L	500	0.2		04-10-04	04-12-04
M04525	MT.2004.630.33	7440-43-9	Cadmium	ND	mg / L	500	0.02		04-10-04	04-12-04
M04525	MT.2004.630.33	7440-47-3	Chromium	ND	mg / L	500	0.02		04-10-04	04-12-04
M04526	MT.2004.630.33	7439-92-1	Lead	ND	mg / L	500	0.1		04-10-04	04-12-04
M04525	MT.2004.630.33	7782-49-2	Selenium	ND	mg / L	500	0.05		04-10-04	04-12-04
M04525	MT.2004.630.33	7440-22-4	Silver	ND	mg / L	500	0.04		04-10-04	04-12-04
0404180-04B		**SW846 1311/7470A CVAA TCLP**						By: kdw		
M04528	MT.2004.629.27	7439-97-6	Mercury	0.0004	mg / L	1	0.0002	B	04-12-04	04-12-04

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or footnotes will appear below.

1 The surrogate recovery was outside of QC criteria, suggesting matrix interference problems. This should be taken into account when reviewing the data.

2 This sample was utilized for the matrix spike and duplicate. Please note that the recoveries and RPD's were outside of QC criteria, suggesting matrix interference problems. This should be taken into account when reviewing the data.

LOS ALAMOS NATIONAL LABORATORY
WASTE PROFILE SYSTEM

WPF #: 37450

Generator :	**STAFFORD, DARRIK G**	MS :	**J590**	PH :	**6671638**	Z#:	**110010**		
WMC :	**THOMAS, JOHN**	MS :	**H805**	PH :	**5056678400**	Z#:	**105444**		
Contact :									
RCRA Rev :	**Mullen Lori Ann**	MS :	**J595**	PH :	**5056658680**	Z#:	**102337**		
Status :	**ACTIVE**	Activation Date :	**04/21/2004**		Expiration Date:		**06/08/2006**		
Group :	**FWO-IP**	TA :	**16**	Bldg :	**000340**	Room :	**ALL**		

You are required to keep a copy of the WPF(s) in your files for at least three years. This WPF(s) is valid for one year or as long as the composition of the waste you have characterized remains the same. Should your waste change, please submit a new WPF to NWIS-SWO Customer Service.

Waste Accumu : **Satellite Accumulation Area Site ID# 2772**

Method of Char : Analysis/Documents Attached
Chemical/Physical Analysis Number: 04SWR269-72
Acceptable Knowledge Documentation Number: SEE SECTION 3

Waste Type : **Process Waste/Spent Chemical/Other**

Waste Classes: RCA Waste - **Not RCA Waste**
RAD Waste - **Non-rad**
Classif/Sensi - **N**

Waste Category: **Inorganic**
Organic
Volatile Organics >= 500 ppm
Solvent
Explosive process

Waste Sources : **Decon/Decom**

Waste Matrix : **Sludge**

Matrix Type : **Heterogeneous**

Process Desc :

SLUDGE GENERATED DURING STABILIZATION OF HE CONTAMINATION WITHIN PIPES REMOVED DURING D&D ACTIVITIES. SLUDGE IS SETTLED SOLIDS DERIVED FROM PROCESS WATER USED TO STABILIZE THE CONTAMINATION WITHIN THE PIPES.

Waste Desc : N/A

Ignitability : **Not ignitable**

Corrosivity : **Non-aqueous**

Reactivity : **Explosive - DOT Div. 1.1**

Boiling Point : **Not applicable**

Toxicity Characteristic Metals:

Contaminant	Method	Limit	Min	Max	Unit
BARIUM	**TCLP**		**6210**	**6210**	**PPM**
MERCURY	**TCLP**	**Y**			**PPM**

Toxicity Characteristic Organic Compounds:

Contaminant	Method	Limit	Min	Max	Unit

BENZENE	**TCLP**	**Y**			**PPM**
2,4-DINITROTOLUENE	**AK**		**0**	**1**	**PPM**
METHYL ETHYL KETONE	**TCLP**	**Y**			**PPM**

Additional Chemical Constituents and Contaminants:

CAS NO	Constituent	MIN	MAX	UOM
	ACETONE	0.00071	0.00071	%
	XYLENE	0.00000098	0.00000098	%
	TOLUENE	0.00000066	0.00000066	%
	DIETHYLPHTHALATE	0.00000037	0.00000037	%
	N-NITROSODIPHENYLAMINE	0.00000058	0.00000058	%
	NON-HAZARDOUS COMPONENTS (E.G. SCALE)	80	99	%
	HE (HMX, TATB, RXD, TNT)	1	20	%
	1,2,4 TRIMETHYLBENZENE	0.000016	0.000016	%
	1,3,5 TRIMETHYLBENZENE	0.0000076	0.0000076	%
	2-BUTANONE (MEK)	0.0012	0.0012	%
	BENZENE	0.00000021	0.00000021	%
	2,4 DINITROTOLUENE	0	0.00000001	%
	BUTYLBENZYLPHTHALATE	0.00000088	0.00000088	%
	DI-N-BUTYLPHTHALATE	0.00000045	0.00000045	%
	2-AMINO-4,6-DINITROTOLUENE	0.0000034	0.0000034	%
	4-AMINO-2,6-DINITROTOLUENE	0.0000026	0.0000026	%

LDR and Underlying Hazardous Constituents Information
Non-Wastewater/Wastewater Category: **Non Wastewater**

WASTE CHARACTERIZATION INFORMATION

Radioactivity Category : **NON-RAD**

RCRA Category : **HAZARDOUS WASTE**

Secondary Info : N/A

Waste Classification : **HAZARDOUS WASTE**

Waste Acceptances : **TA-16 Acceptance**
OK FOR TA-16-388

EPA Hazardous Waste Code : **D005 D003 F005 D030**

Notification Of Underlying Hazardous Constituents:

Constituents
2,4-Dinitrotoluene
Barium

Attachment 5

ASSAIGAI ANALYTICAL LABORATORIES, INC.

4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, Ste. N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820
127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

Explanation of codes

B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

LOS ALAMOS NATIONAL LABS
attn: DUSTIE RICH
P.O. BOX 1663, MS K490
LOS ALAMOS NM 87545

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

William P. Blevat, President of Assaigai Analytical Laboratories, Inc.

Client: LOS ALAMOS NATIONAL LABS
Project: 7D44 JF30 0045 MGT1
Order: 0405144 LOS17 Receipt: 05-07-04

Sample: *04SWRC408* Collected: *05-06-04 13:25:00* By: *DR*
Matrix: *H2O*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0405144-01A		SW846 8260B Purgeable VOCs by GC/MS					By: CWJ			
X04511	XG.2004.824.10	75-34-3	1,1 Dichloroethane	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	75-35-4	1,1 Dichloroethene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	71-55-6	1,1,1 Trichloroethane	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	630-20-6	1,1,1,2 Tetrachloroethane	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	79-00-5	1,1,2 Trichloroethane	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	79-34-5	1,1,2,2 Tetrachloroethane	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	106-93-4	1,2 Dibromoethane (EDB)	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	95-50-1	1,2 Dichlorobenzene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	107-06-2	1,2 Dichloroethane (EDC)	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	78-87-5	1,2 Dichloropropane	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	96-18-4	1,2,3 Trichloropropane	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	95-63-6	1,2,4-Trimethylbenzene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	541-73-1	1,3 Dichlorobenzene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	108-67-8	1,3,5-Trimethylbenzene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	764-41-0	1,4 Dichloro-2-butene	ND	ug / L	1	10		05-12-04	05-12-04
X04511	XG.2004.824.10	106-46-7	1,4 Dichlorobenzene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	78-93-3	2-Butanone (MEK)	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.10	591-78-6	2-Hexanone (MBK)	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.10	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.10	67-64-1	Acetone	ND	ug / L	1	10		05-12-04	05-12-04
X04511	XG.2004.824.10	107-02-8	Acrolein	ND	ug / L	1	20		05-12-04	05-12-04
X04511	XG.2004.824.10	107-13-1	Acrylonitrile	ND	ug / L	1	20		05-12-04	05-12-04
X04511	XG.2004.824.10	71-43-2	Benzene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	75-27-4	Bromodichloromethane	ND	ug / L	1	1		05-12-04	05-12-04

REPRODUCTION OF THIS REPORT IN LESS THAN FULL, REQUIRES THE WRITTEN CONSENT OF AAL.
THIS REPORT MAY NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM
PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM.

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 JF30 0045 MGT1**
Order: **0405144 LOS17** Receipt: **05-07-04**

Sample: *04SWRC408* Collected: *05-06-04 13:25:00* By: *DR*
Matrix: *H2O*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0405144-01A		SW846 8260B Purgeable VOCs by GC/MS					By:	CWJ		
X04511	XG.2004.824.10	75-25-2	Bromoform	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	74-83-9	Bromomethane	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.10	75-15-0	Carbon disulfide	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.10	56-23-5	Carbon tetrachloride	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	108-90-7	Chlorobenzene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	124-48-1	Chlorodibromomethane	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	75-00-3	Chloroethane	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.10	67-66-3	Chloroform	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	74-87-3	Chloromethane	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.10	156-59-2	cis-1,2 dichloroethene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10		cis-1,3 Dichloropropene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	74-95-3	Dibromomethane	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	97-63-2	Ethyl methacrylate	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.10	100-41-4	Ethylbenzene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10		Freon 113	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.10	75-71-8	Freon 12	ND	ug / L	1	10		05-12-04	05-12-04
X04511	XG.2004.824.10	1634-04-4	Methyl t-butyl ether (MTBE)	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	75-09-2	Methylene chloride	ND	ug / L	1	10		05-12-04	05-12-04
X04511	XG.2004.824.10	91-20-3	Naphthalene	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.10	95-47-6	o-Xylene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	108-38-3/106-42	p/m-Xylenes	ND	ug / L	1	2		05-12-04	05-12-04
X04511	XG.2004.824.10	100-42-5	Styrene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	156-60-5	t-1,2 Dichloroethene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	10061-02-6	t-1,3 Dichloropropene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	127-18-4	Tetrachloroethene (PCE)	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	108-88-3	Toluene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	79-01-6	Trichloroethene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.10	75-69-4	Trichlorofluoromethane	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.10	108-05-4	Vinyl acetate	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.10	75-01-4	Vinyl chloride	ND	ug / L	1	5		05-12-04	05-12-04

Sample: *04SWRC409* Collected: *05-06-04 13:25:00* By: *DR*
Matrix: *H2O*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0405144-02A		SW846 3510B/8270C SVOCs by GC/MS					By:	DS		
X04488	XG.2004.882.6	120-82-1	1,2,4-Trichlorobenzene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	95-50-1	1,2-Dichlorobenzene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	541-73-1	1,3-Dichlorobenzene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	106-46-7	1,4-Dichlorobenzene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	90-12-0	1-Methylnaphthalene	ND	ug / L	1	1		05-10-04	05-20-04

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 JF30 0045 MGT1**
Order: **0405144 LOS17** Receipt: **05-07-04**

Sample: *04SWRC409* Collected: *05-06-04 13:25:00* By: *DR*
Matrix: *H2O*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0405144-02A		SW846 3510B/8270C SVOCs by GC/MS					By:	DS		
X04488	XG.2004.882.6	58-90-2	2,3,4,6-Tetrachlorophenol	ND	ug / L	1	5		05-10-04	05-20-04
X04488	XG.2004.882.6	95-95-4	2,4,5-Trichlorophenol	ND	ug / L	1	5		05-10-04	05-20-04
X04488	XG.2004.882.6	88-06-2	2,4,6-Trichlorophenol	ND	ug / L	1	5		05-10-04	05-20-04
X04488	XG.2004.882.6	120-83-2	2,4-Dichlorophenol	ND	ug / L	1	5		05-10-04	05-20-04
X04488	XG.2004.882.6	105-67-9	2,4-Dimethylphenol	ND	ug / L	1	0.2		05-10-04	05-20-04
X04488	XG.2004.882.6	51-28-5	2,4-Dinitrophenol	ND	ug / L	1	10		05-10-04	05-20-04
X04488	XG.2004.882.6	121-14-2	2,4-Dinitrotoluene	ND	ug / L	1	5		05-10-04	05-20-04
X04488	XG.2004.882.6	606-20-2	2,6-Dinitrotoluene	ND	ug / L	1	5		05-10-04	05-20-04
X04488	XG.2004.882.6	91-58-7	2-Chloronaphthalene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	95-57-8	2-Chlorophenol	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	91-57-6	2-Methylnaphthalene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	95-48-7	2-Methylphenol	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	88-74-4	2-Nitroaniline	ND	ug / L	1	5		05-10-04	05-20-04
X04488	XG.2004.882.6	88-75-5	2-Nitrophenol	ND	ug / L	1	5		05-10-04	05-20-04
X04488	XG.2004.882.6	91-94-1	3,3-Dichlorobenzidine	ND	ug / L	1	10		05-10-04	05-20-04
X04488	XG.2004.882.6		3+4 Methylphenol	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	99-09-2	3-Nitroaniline	ND	ug / L	1	5		05-10-04	05-20-04
X04488	XG.2004.882.6	534-52-1	4,6-Dinitro-2-methylphenol	ND	ug / L	1	10		05-10-04	05-20-04
X04488	XG.2004.882.6	101-55-3	4-Bromophenyl-phenylether	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	59-50-7	4-Chloro-3-methylphenol	ND	ug / L	1	5		05-10-04	05-20-04
X04488	XG.2004.882.6	106-47-8	4-Chloroaniline	ND	ug / L	1	5		05-10-04	05-20-04
X04488	XG.2004.882.6	7005-72-3	4-Chlorophenyl-phenylether	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	100-01-6	4-Nitroaniline	ND	ug / L	1	5		05-10-04	05-20-04
X04488	XG.2004.882.6	100-02-7	4-Nitrophenol	ND	ug / L	1	10		05-10-04	05-20-04
X04488	XG.2004.882.6	83-32-9	Acenaphthene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	208-96-8	Acenaphthylene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	62-53-3	Aniline	ND	ug / L	1	10		05-10-04	05-20-04
X04488	XG.2004.882.6	120-12-7	Anthracene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6		Azobenzene&1,2-Diphenylhydrazine	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	56-55-3	Benzo (a) anthracene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	50-32-8	Benzo(a)pyrene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6		Benzo(b & k)fluoranthene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	191-24-2	Benzo(g,h,i)perylene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	64-85-0	Benzoic acid	ND	ug / L	1	25		05-10-04	05-20-04
X04488	XG.2004.882.6	100-51-6	Benzyl alcohol	ND	ug / L	1	5		05-10-04	05-20-04
X04488	XG.2004.882.6	111-44-4	bis (2-Chloroethyl) ether	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	111-91-1	bis(2-Chloroethoxy)methane	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	108-60-1	bis(2-Chloroisopropyl)ether	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	117-81-7	bis(2-Ethylhexyl)phthalate	ND	ug / L	1	5		05-10-04	05-20-04
X04488	XG.2004.882.6	85-68-7	Butylbenzylphthalate	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	218-01-9	Chrysene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	53-70-3	Dibenz(a,h)anthracene	ND	ug / L	1	1		05-10-04	05-20-04

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 JF30 0045 MGT1**
Order: **0405144** **LOS17** Receipt: **05-07-04**

Sample: *04SWRC409* Collected: *05-06-04 13:25:00* By: *DR*
Matrix: *H2O*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0405144-02A		SW846 3510B/8270C SVOCs by GC/MS					By:	DS		
X04488	XG.2004.882.6	132-64-9	Dibenzofuran	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	84-66-2	Diethylphthalate	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	131-11-3	Dimethylphthalate	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	84-74-2	di-n-Butylphthalate	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	117-84-0	di-n-Octylphthalate	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	206-44-0	Fluoranthene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	86737	Fluorene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	118-74-1	Hexachlorobenzene	ND	ug / L	1	10		05-10-04	05-20-04
X04488	XG.2004.882.6	87-68-3	Hexachlorobutadiene	ND	ug / L	1	10		05-10-04	05-20-04
X04488	XG.2004.882.6	77-47-4	Hexachlorocyclopentadiene	ND	ug / L	1	10		05-10-04	05-20-04
X04488	XG.2004.882.6	67-72-1	Hexachloroethane	ND	ug / L	1	5		05-10-04	05-20-04
X04488	XG.2004.882.6	193-39-5	Indeno(1,2,3-cd)pyrene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	78-59-1	Isophorone	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	91-20-3	Naphthalene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	98-95-3	Nitrobenzene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	62-75-9	n-Nitroso-dimethyl-amine	ND	ug / L	1	10		05-10-04	05-20-04
X04488	XG.2004.882.6	621-64-7	n-Nitroso-di-n-propylamine	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	86-30-6	n-Nitrosodiphenylamine	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	87-86-5	Pentachlorophenol	ND	ug / L	1	10		05-10-04	05-20-04
X04488	XG.2004.882.6	85-01-8	Phenanthrene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	108-95-2	Phenol	ND	ug / L	1	10		05-10-04	05-20-04
X04488	XG.2004.882.6	129-00-0	Pyrene	ND	ug / L	1	1		05-10-04	05-20-04
X04488	XG.2004.882.6	110-86-1	Pyridine	ND	ug / L	1	10		05-10-04	05-20-04

Sample: *04SWRC410* Collected: *05-06-04 13:25:00* By: *DR*
Matrix: *H2O*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0405144-03B		SW846 1311/3010A/6010B ICP TCLP					By:	KDW		
M04757	MT.2004.953.29	7440-38-2	Arsenic	ND	mg / L	1	0.2		05-19-04	05-25-04
M04757	MT.2004.953.29	7440-39-3	Barium	ND	mg / L	1	0.2		05-19-04	05-25-04
M04757	MT.2004.953.29	7440-43-9	Cadmium	ND	mg / L	1	0.02		05-19-04	05-25-04
M04757	MT.2004.963.70	7440-47-3	Chromium	ND	mg / L	1	0.02		05-19-04	05-25-04
M04757	MT.2004.953.29	7439-92-1	Lead	ND	mg / L	1	0.1		05-19-04	05-25-04
M04757	MT.2004.953.29	7782-49-2	Selenium	ND	mg / L	1	0.05		05-19-04	05-25-04
0405144-03B		SW846 1311/3010A/7000 series AA-FL TCLP					By:	KDW		
M04757	MT.2004.969.54	7440-22-4	Silver	ND	mg / L	1	0.01		05-19-04	05-26-04
0405144-03B		SW846 1311/7470A CVAA TCLP					By:	BJM		
M04744	MT.2004.919.46	7439-97-6	Mercury	ND	mg / L	1	0.0002		05-18-04	05-18-04

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: LOS ALAMOS NATIONAL LABS
Project: 7D44 JF30 0045 MGT1
Order: 0405144 LOS17 Receipt: 05-07-04

Sample: *04SWRC411* Collected: *05-06-04 13:25:00* By: *DR*
Matrix: *H2O*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0405144-04A		SW846 8330 Explosives by HPLC					By: W/JWB			
X04490	XG.2004.825.13	99-35-4	1,3,5-Trinitrobenzene	ND	ug / L	1	0.25	1,2	05-10-04	05-11-04
X04490	XG.2004.825.13	99-65-0	1,3-Dinitrobenzene	ND	ug / L	1	0.25	1,2	05-10-04	05-11-04
X04490	XG.2004.825.13	118-96-7	2,4,6-Trinitrotoluene	ND	ug / L	1	0.25	1,2	05-10-04	05-11-04
X04490	XG.2004.825.13	121-14-2	2,4-Dinitrotoluene	ND	ug / L	1	0.25	1,2	05-10-04	05-11-04
X04490	XG.2004.825.13	606-20-2	2,6-Dinitrotoluene	ND	ug / L	1	0.25	1,2	05-10-04	05-11-04
X04490	XG.2004.825.13	355-72-78-2	2-Amino-4,6-Dinitrotoluene	ND	ug / L	1	0.25	1,2	05-10-04	05-11-04
X04490	XG.2004.825.13	88-72-2	2-Nitrotoluene	ND	ug / L	1	0.25	1,2	05-10-04	05-11-04
X04490	XG.2004.825.13	99-08-1	3-Nitrotoluene	ND	ug / L	1	0.25	1,2	05-10-04	05-11-04
X04490	XG.2004.825.13	1946-51-0	4-Amino-2,6-Dinitrotoluene	ND	ug / L	1	0.25	1,2	05-10-04	05-11-04
X04490	XG.2004.825.13	99-99-0	4-Nitrotoluene	ND	ug / L	1	0.25	1,2	05-10-04	05-11-04
X04490	XG.2004.825.13	2691-41-0	HMX	ND	ug / L	1	0.25	1,2	05-10-04	05-11-04
X04490	XG.2004.825.13	98-95-3	Nitrobenzene	ND	ug / L	1	0.25	1,2	05-10-04	05-11-04
X04490	XG.2004.825.13	121-82-4	RDX	ND	ug / L	1	0.25	1,2	05-10-04	05-11-04
X04490	XG.2004.825.13	479-45-8	Tetryl	ND	ug / L	1	0.25	1,2	05-10-04	05-11-04

Sample: *04SWRC415* Collected: *05-06-04 13:25:00* By: *DR*
Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0405144-05A		SW846 8260B Purgeable VOCs by GC/MS					By: CWJ			
X04511	XG.2004.824.11	75-34-3	1,1 Dichloroethane	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	75-35-4	1,1 Dichloroethene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	71-55-6	1,1,1 Trichloroethane	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	630-20-6	1,1,1,2 Tetrachloroethane	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	79-00-5	1,1,2 Trichloroethane	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	79-34-5	1,1,2,2 Tetrachloroethane	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	106-93-4	1,2 Dibromoethane (EDB)	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	95-50-1	1,2 Dichlorobenzene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	107-06-2	1,2 Dichloroethane (EDC)	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	78-87-5	1,2 Dichloropropane	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	96-18-4	1,2,3 Trichloropropane	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	95-63-6	1,2,4-Trimethylbenzene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	541-73-1	1,3 Dichlorobenzene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	108-67-8	1,3,5-Trimethylbenzene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	764-41-0	1,4 Dichloro-2-butene	ND	ug / L	1	10		05-12-04	05-12-04
X04511	XG.2004.824.11	106-46-7	1,4 Dichlorobenzene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	78-93-3	2-Butanone (MEK)	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.11	591-78-6	2-Hexanone (MBK)	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.11	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.11	67-64-1	Acetone	ND	ug / L	1	10		05-12-04	05-12-04
X04511	XG.2004.824.11	107-02-8	Acrolein	ND	ug / L	1	20		05-12-04	05-12-04

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**

Project: **7D44 JF30 0045 MGT1**

Order: **0405144 LOS17** Receipt: **05-07-04**

Sample: *04SWRC415* Collected: *05-06-04 13:25:00* By: *DR*

Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0405144-05A		SW846 8260B Purgeable VOCs by GC/MS						By: CWJ		
X04511	XG.2004.824.11	107-13-1	Acrylonitrile	ND	ug / L	1	20		05-12-04	05-12-04
X04511	XG.2004.824.11	71-43-2	Benzene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	75-27-4	Bromodichloromethane	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	75-25-2	Bromoform	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	74-83-9	Bromomethane	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.11	75-15-0	Carbon disulfide	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.11	56-23-5	Carbon tetrachloride	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	108-90-7	Chlorobenzene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	124-48-1	Chlorodibromomethane	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	75-00-3	Chloroethane	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.11	67-66-3	Chloroform	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	74-87-3	Chloromethane	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.11	156-59-2	cis-1,2 dichloroethene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11		cis-1,3 Dichloropropene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	74-95-3	Dibromomethane	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	97-63-2	Ethyl methacrylate	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.11	100-41-4	Ethylbenzene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11		Freon 113	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.11	75-71-8	Freon 12	ND	ug / L	1	10		05-12-04	05-12-04
X04511	XG.2004.824.11	1634-04-4	Methyl t-butyl ether (MTBE)	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	75-09-2	Methylene chloride	ND	ug / L	1	10		05-12-04	05-12-04
X04511	XG.2004.824.11	91-20-3	Naphthalene	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.11	95-47-6	o-Xylene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	108-38-3/106-42	p/m-Xylenes	ND	ug / L	1	2		05-12-04	05-12-04
X04511	XG.2004.824.11	100-42-5	Styrene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	156-60-5	t-1,2 Dichloroethene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	10061-02-6	t-1,3 Dichloropropene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	127-18-4	Tetrachloroethene (PCE)	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	108-88-3	Toluene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	79-01-6	Trichloroethene	ND	ug / L	1	1		05-12-04	05-12-04
X04511	XG.2004.824.11	75-69-4	Trichlorofluoromethane	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.11	108-05-4	Vinyl acetate	ND	ug / L	1	5		05-12-04	05-12-04
X04511	XG.2004.824.11	75-01-4	Vinyl chloride	ND	ug / L	1	5		05-12-04	05-12-04

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or footnotes will appear below.

1 All of the percent recoveries of the target analytes in the matrix spike and in the matrix spike duplicate are outside of QA/QC criteria (low). The surrogate recovery is also outside of QA/QC criteria (low). These low recoveries are attributed to matrix interference.

2 Three of the fourteen spike compounds in the laboratory control spike are outside of QA/QC criteria (low).

05/27/2004 11:09 FAX 5058050589 GSS WASTE SERVICES 010

Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 JF30 0045 MGT1**
Order: **0405144 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: ***LCS: Lab Control Spike*** Matrix: ***TCLP***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
M04757		**SW846 1311/3010A/6010B ICP TCLP**							**M04757-003**
MT.2004.953.28	7440-38-2	Arsenic	99	% Recovery	80 - 120	1	NA		05-25-04
MT.2004.953.28	7440-39-3	Barium	106	% Recovery	87 - 116	1	NA		05-25-04
MT.2004.953.28	7440-43-9	Cadmium	109	% Recovery	92 - 117	1	NA		05-25-04
MT.2004.953.28	7440-47-3	Chromium	107	% Recovery	88 - 114	1	NA		05-25-04
MT.2004.953.28	7439-92-1	Lead	111	% Recovery	88 - 119	1	NA		05-25-04
MT.2004.953.28	7782-49-2	Selenium	117	% Recovery	93 - 120	1	NA		05-25-04
M04757		**SW846 1311/3010A/7000 series AA-FL TCLP**							**M04757-003**
MT.2004.989.53	7440-22-4	Silver	85	% Recovery	80 - 120	1	NA		05-26-04
M04744		**SW846 1311/7470A CVAA TCLP**							**M04744-002**
MT.2004.919.14	7439-97-6	Mercury	97	% Recovery	80 - 120	1	NA		06-18-04

Type: ***LCS: Lab Control Spike*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04488		**SW846 3510B/8270C SVOCs by GC/MS**							**X04488-002**
XG.2004.882.3	120-82-1	1,2,4-Trichlorobenzene	87	% Recovery	71 - 112	1	NA		05-20-04
XG.2004.882.3	106-46-7	1,4-Dichlorobenzene	79	% Recovery	68 - 105	1	NA		05-20-04
XG.2004.882.3	121-14-2	2,4-Dinitrotoluene	102	% Recovery	71 - 117	1	NA		05-20-04
XG.2004.882.3	95-57-8	2-Chlorophenol	83	% Recovery	68 - 109	1	NA		05-20-04
XG.2004.882.3	59-50-7	4-Chloro-3-methylphenol	76	% Recovery	66 - 116	1	NA		05-20-04
XG.2004.882.3	100-02-7	4-Nitrophenol	22	% Recovery	12 - 56	1	NA		05-20-04
XG.2004.882.3	83-32-9	Acenaphthene	105	% Recovery	70 - 117	1	NA		05-20-04
XG.2004.882.3	117-84-0	di-n-Octylphthalate	104	% Recovery	68 - 135	1	NA		05-20-04
XG.2004.882.3	621-64-7	n-Nitroso-di-n-propylamine	107	% Recovery	64 - 114	1	NA		05-20-04
XG.2004.882.3	87-86-5	Pentachlorophenol	79	% Recovery	49 - 130	1	NA		05-20-04
XG.2004.882.3	108-95-2	Phenol	50	% Recovery	17 - 56	1	NA		05-20-04
XG.2004.882.3	129-00-0	Pyrene	97	% Recovery	78 - 126	1	NA		05-20-04
X04511		**SW846 8260B Purgeable VOCs by GC/MS**							**X04511-002**
XG.2004.824.5	75-35-4	1,1 Dichloroethene	98	% Recovery	61 - 145	1	NA		05-12-04
XG.2004.824.5	106-46-7	1,4 Dichlorobenzene	111	% Recovery	75 - 130	1	NA		05-12-04
XG.2004.824.5	71-43-2	Benzene	103	% Recovery	76 - 127	1	NA		05-12-04
XG.2004.824.5	108-90-7	Chlorobenzene	106	% Recovery	75 - 130	1	NA		05-12-04
XG.2004.824.5	108-88-3	Toluene	101	% Recovery	76 - 125	1	NA		05-12-04
XG.2004.824.5	79-01-6	Trichloroethene	109	% Recovery	71 - 120	1	NA		05-12-04
X04490		**SW846 8330 Explosives by HPLC**							**X04490-002**
XG.2004.825.7	99-35-4	1,3,5-Trinitrobenzene	89	% Recovery	77 - 115	1	NA		05-10-04
XG.2004.825.7	99-65-0	1,3-Dinitrobenzene	81	% Recovery	80 - 101	1	NA		05-10-04
XG.2004.825.7	118-96-7	2,4,6-Trinitrotoluene	94	% Recovery	87 - 113	1	NA		05-10-04
XG.2004.825.7	121-14-2	2,4-Dinitrotoluene	99	% Recovery	92 - 116	1	NA		05-10-04
XG.2004.825.7	606-20-2	2,6-Dinitrotoluene	76	% Recovery	70 - 100	1	NA		05-10-04
XG.2004.825.7	355-72-78-2	2-Amino-4,6-Dinitrotoluene	86	% Recovery	87 - 108	1	NA		05-10-04

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Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 JF30 0045 MGT1**
Order: **0405144 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: *LCS: Lab Control Spike* Matrix: *WATER*

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04490		SW846 8330 Explosives by HPLC						X04490-002	
XG.2004.825.7	88-72-2	2-Nitrotoluene	78	% Recovery	74 - 103	1	NA		05-10-04
XG.2004.825.7	99-08-1	3-Nitrotoluene	81	% Recovery	77 - 103	1	NA		05-10-04
XG.2004.825.7	1946-51-0	4-Amino-2,6-Dinitrotoluene	88	% Recovery	84 - 106	1	NA		05-10-04
XG.2004.825.7	99-99-0	4-Nitrotoluene	82	% Recovery	79 - 103	1	NA		05-10-04
XG.2004.825.7	2691-41-0	HMX	81	% Recovery	80 - 103	1	NA		05-10-04
XG.2004.825.7	98-95-3	Nitrobenzene	65	% Recovery	68 - 97	1	NA		05-10-04
XG.2004.825.7	121-82-4	RDX	73	% Recovery	77 - 96	1	NA		05-10-04
XG.2004.825.7	479-45-8	Tetryl	98	% Recovery	68 - 131	1	NA		05-10-04

Type: *MB: Method Blank* Matrix: *TCLP*

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
M04757		SW846 1311/3010A/6010B ICP TCLP						M04757-001	
MT.2004.953.26	7440-38-2	Arsenic	ND	mg / L		1	0.2		05-25-04
MT.2004.953.26	7440-39-3	Barium	ND	mg / L		1	0.2		05-25-04
MT.2004.953.26	7440-43-9	Cadmium	ND	mg / L		1	0.02		05-25-04
MT.2004.953.26	7440-47-3	Chromium	ND	mg / L		1	0.02		05-25-04
MT.2004.953.26	7439-92-1	Lead	ND	mg / L		1	0.1		05-25-04
MT.2004.953.26	7782-49-2	Selenium	ND	mg / L		1	0.05		05-25-04
M04757		SW846 1311/3010A/6010B ICP TCLP						M04757-002	
MT.2004.953.27	7440-38-2	Arsenic	ND	mg / L		1	0.2		05-25-04
MT.2004.953.27	7440-39-3	Barium	ND	mg / L		1	0.2		05-25-04
MT.2004.953.27	7440-43-9	Cadmium	ND	mg / L		1	0.02		05-25-04
MT.2004.953.27	7440-47-3	Chromium	ND	mg / L		1	0.02		05-25-04
MT.2004.953.27	7439-92-1	Lead	ND	mg / L		1	0.1		05-25-04
MT.2004.953.27	7782-49-2	Selenium	ND	mg / L		1	0.05		05-25-04
M04757		SW846 1311/3010A/7000 series AA-FL TCLP						M04757-001	
MT.2004.969.51	7440-22-4	Silver	ND	mg / L		1	0.01		05-26-04
M04757		SW846 1311/3010A/7000 series AA-FL TCLP						M04757-002	
MT.2004.969.52	7440-22-4	Silver	ND	mg / L		1	0.01		05-26-04
M04744		SW846 1311/7470A CVAA TCLP						M04744-001	
MT.2004.919.13	7439-97-6	Mercury	ND	mg / L		1	0.0002		05-18-04
M04744		SW846 1311/7470A CVAA TCLP						M04744-010	
MT.2004.919.45	7439-97-6	Mercury	ND	mg / L		1	0.0002		05-18-04

Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 JF30 0045 MGT1**
Order: **0405144 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: ***MB: Method Blank*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04488		SW846 3510B/8270C SVOCs by GC/MS					X04488-001		
XG.2004.882.2	120-82-1	1,2,4-Trichlorobenzene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	95-50-1	1,2-Dichlorobenzene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	541-73-1	1,3-Dichlorobenzene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	106-46-7	1,4-Dichlorobenzene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	90-12-0	1-Methylnaphthalene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	58-90-2	2,3,4,6-Tetrachlorophenol	ND	ug / L		1	5		05-20-04
XG.2004.882.2	95-95-4	2,4,5-Trichlorophenol	ND	ug / L		1	5		05-20-04
XG.2004.882.2	88-06-2	2,4,6-Trichlorophenol	ND	ug / L		1	5		05-20-04
XG.2004.882.2	120-83-2	2,4-Dichlorophenol	ND	ug / L		1	5		05-20-04
XG.2004.882.2	105-67-9	2,4-Dimethylphenol	ND	ug / L		1	0.2		05-20-04
XG.2004.882.2	51-28-5	2,4-Dinitrophenol	ND	ug / L		1	10		05-20-04
XG.2004.882.2	121-14-2	2,4-Dinitrotoluene	ND	ug / L		1	5		05-20-04
XG.2004.882.2	606-20-2	2,6-Dinitrotoluene	ND	ug / L		1	5		05-20-04
XG.2004.882.2	91-58-7	2-Chloronaphthalene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	95-57-8	2-Chlorophenol	ND	ug / L		1	1		05-20-04
XG.2004.882.2	91-57-6	2-Methylnaphthalene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	95-48-7	2-Methylphenol	ND	ug / L		1	1		05-20-04
XG.2004.882.2	88-74-4	2-Nitroaniline	ND	ug / L		1	5		05-20-04
XG.2004.882.2	88-75-5	2-Nitrophenol	ND	ug / L		1	5		05-20-04
XG.2004.882.2	91-94-1	3,3-Dichlorobenzidine	ND	ug / L		1	10		05-20-04
XG.2004.882.2		3+4 Methylphenol	ND	ug / L		1	1		05-20-04
XG.2004.882.2	99-09-2	3-Nitroaniline	ND	ug / L		1	5		05-20-04
XG.2004.882.2	534-52-1	4,6-Dinitro-2-methylphenol	ND	ug / L		1	10		05-20-04
XG.2004.882.2	101-55-3	4-Bromophenyl-phenylether	ND	ug / L		1	1		05-20-04
XG.2004.882.2	59-50-7	4-Chloro-3-methylphenol	ND	ug / L		1	5		05-20-04
XG.2004.882.2	106-47-8	4-Chloroaniline	ND	ug / L		1	5		05-20-04
XG.2004.882.2	7005-72-3	4-Chlorophenyl-phenylether	ND	ug / L		1	1		05-20-04
XG.2004.882.2	100-01-6	4-Nitroaniline	ND	ug / L		1	5		05-20-04
XG.2004.882.2	100-02-7	4-Nitrophenol	ND	ug / L		1	10		05-20-04
XG.2004.882.2	83-32-9	Acenaphthene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	208-96-8	Acenaphthylene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	62-53-3	Aniline	ND	ug / L		1	10		05-20-04
XG.2004.882.2	120-12-7	Anthracene	ND	ug / L		1	1		05-20-04
XG.2004.882.2		Azobenzene&1,2-Diphenylhydrazine	ND	ug / L		1	1		05-20-04
XG.2004.882.2	56-55-3	Benzo (a) anthracene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	50-32-8	Benzo(a)pyrene	ND	ug / L		1	1		05-20-04
XG.2004.882.2		Benzo(b & k)fluoranthene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	191-24-2	Benzo(g,h,i)perylene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	64-65-0	Benzoic acid	ND	ug / L		1	25		05-20-04
XG.2004.882.2	100-51-6	Benzyl alcohol	ND	ug / L		1	5		05-20-04
XG.2004.882.2	111-44-4	bis (2-Chloroethyl) ether	ND	ug / L		1	1		05-20-04
XG.2004.882.2	111-91-1	bis(2-Chloroethoxy)methane	ND	ug / L		1	1		05-20-04
XG.2004.882.2	108-60-1	bis(2-Chloroisopropyl)ether	ND	ug / L		1	1		05-20-04

Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 JF30 0045 MGT1**
Order: **0405144 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: *MB: Method Blank* Matrix: *WATER*

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04488		SW846 3510B/8270C SVOCs by GC/MS						X04488-001	
XG.2004.882.2	117-81-7	bis(2-Ethylhexyl)phthalate	ND	ug / L		1	5		05-20-04
XG.2004.882.2	85-68-7	Butylbenzylphthalate	ND	ug / L		1	1		05-20-04
XG.2004.882.2	218-01-9	Chrysene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	53-70-3	Dibenz(a,h)anthracene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	132-64-9	Dibenzofuran	ND	ug / L		1	1		05-20-04
XG.2004.882.2	84-66-2	Diethylphthalate	ND	ug / L		1	1		05-20-04
XG.2004.882.2	131-11-3	Dimethylphthalate	ND	ug / L		1	1		05-20-04
XG.2004.882.2	84-74-2	di-n-Butylphthalate	ND	ug / L		1	1		05-20-04
XG.2004.882.2	117-84-0	di-n-Octylphthalate	ND	ug / L		1	1		05-20-04
XG.2004.882.2	206-44-0	Fluoranthene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	86737	Fluorene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	118-74-1	Hexachlorobenzene	ND	ug / L		1	10		05-20-04
XG.2004.882.2	87-68-3	Hexachlorobutadiene	ND	ug / L		1	10		05-20-04
XG.2004.882.2	77-47-4	Hexachlorocyclopentadiene	ND	ug / L		1	10		05-20-04
XG.2004.882.2	67-72-1	Hexachloroethane	ND	ug / L		1	5		05-20-04
XG.2004.882.2	193-39-5	Indeno(1,2,3-cd)pyrene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	78-59-1	Isophorone	ND	ug / L		1	1		05-20-04
XG.2004.882.2	91-20-3	Naphthalene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	98-95-3	Nitrobenzene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	62-75-9	n-Nitroso-dimethyl-amine	ND	ug / L		1	10		05-20-04
XG.2004.882.2	621-64-7	n-Nitroso-di-n-propylamine	ND	ug / L		1	1		05-20-04
XG.2004.882.2	86-30-6	n-Nitrosodiphenylamine	ND	ug / L		1	1		05-20-04
XG.2004.882.2	87-86-5	Pentachlorophenol	ND	ug / L		1	10		05-20-04
XG.2004.882.2	85-01-8	Phenanthrene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	108-95-2	Phenol	ND	ug / L		1	10		05-20-04
XG.2004.882.2	129-00-0	Pyrene	ND	ug / L		1	1		05-20-04
XG.2004.882.2	110-86-1	Pyridine	ND	ug / L		1	10		05-20-04
X04511		SW846 8260B Purgeable VOCs by GC/MS						X04511-001	
XG.2004.824.4	75-34-3	1,1 Dichloroethane	ND	ug / L		1	1		05-12-04
XG.2004.824.4	75-35-4	1,1 Dichloroethene	ND	ug / L		1	1		05-12-04
XG.2004.824.4	71-55-6	1,1,1 Trichloroethane	ND	ug / L		1	1		05-12-04
XG.2004.824.4	630-20-6	1,1,1,2 Tetrachloroethane	ND	ug / L		1	1		05-12-04
XG.2004.824.4	79-00-5	1,1,2 Trichloroethane	ND	ug / L		1	1		05-12-04
XG.2004.824.4	79-34-5	1,1,2,2 Tetrachloroethane	ND	ug / L		1	1		05-12-04
XG.2004.824.4	106-93-4	1,2 Dibromoethane (EDB)	ND	ug / L		1	1		05-12-04
XG.2004.824.4	95-50-1	1,2 Dichlorobenzene	1.0	ug / L		1	1		05-12-04
XG.2004.824.4	107-06-2	1,2 Dichloroethane (EDC)	ND	ug / L		1	1		05-12-04
XG.2004.824.4	78-87-5	1,2 Dichloropropane	ND	ug / L		1	1		05-12-04
XG.2004.824.4	96-18-4	1,2,3 Trichloropropane	ND	ug / L		1	1		05-12-04
XG.2004.824.4	95-63-6	1,2,4-Trimethylbenzene	ND	ug / L		1	1		05-12-04
XG.2004.824.4	541-73-1	1,3 Dichlorobenzene	1.1	ug / L		1	1		05-12-04
XG.2004.824.4	108-67-8	1,3,5-Trimethylbenzene	ND	ug / L		1	1		05-12-04
XG.2004.824.4	764-41-0	1,4 Dichloro-2-butene	ND	ug / L		1	10		05-12-04

Assalgal Analytical Laboratories, Inc.

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 JF30 0045 MGT1**
Order: **0405144 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: ***MB: Method Blank*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04511		**SW846 8260B Purgeable VOCs by GC/MS**					**X04511-001**		
XG.2004.824.4	106-46-7	1,4 Dichlorobenzene	1.2	ug / L		1	1		05-12-04
XG.2004.824.4	78-93-3	2-Butanone (MEK)	ND	ug / L		1	5		05-12-04
XG.2004.824.4	591-78-6	2-Hexanone (MBK)	ND	ug / L		1	5		05-12-04
XG.2004.824.4	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug / L		1	5		05-12-04
XG.2004.824.4	67-64-1	Acetone	ND	ug / L		1	10		05-12-04
XG.2004.824.4	107-02-8	Acrolein	ND	ug / L		1	20		05-12-04
XG.2004.824.4	107-13-1	Acrylonitrile	ND	ug / L		1	20		05-12-04
XG.2004.824.4	71-43-2	Benzene	ND	ug / L		1	1		05-12-04
XG.2004.824.4	75-27-4	Bromodichloromethane	ND	ug / L		1	1		05-12-04
XG.2004.824.4	75-25-2	Bromoform	ND	ug / L		1	1		05-12-04
XG.2004.824.4	74-83-9	Bromomethane	ND	ug / L		1	5		05-12-04
XG.2004.824.4	75-15-0	Carbon disulfide	ND	ug / L		1	5		05-12-04
XG.2004.824.4	56-23-5	Carbon tetrachloride	ND	ug / L		1	1		05-12-04
XG.2004.824.4	108-90-7	Chlorobenzene	ND	ug / L		1	1		05-12-04
XG.2004.824.4	124-48-1	Chlorodibromomethane	ND	ug / L		1	1		05-12-04
XG.2004.824.4	75-00-3	Chloroethane	ND	ug / L		1	5		05-12-04
XG.2004.824.4	67-66-3	Chloroform	ND	ug / L		1	1		05-12-04
XG.2004.824.4	74-87-3	Chloromethane	ND	ug / L		1	5		05-12-04
XG.2004.824.4	156-59-2	cis-1,2 dichloroethene	ND	ug / L		1	1		05-12-04
XG.2004.824.4		cis-1,3 Dichloropropene	ND	ug / L		1	1		05-12-04
XG.2004.824.4	74-95-3	Dibromomethane	ND	ug / L		1	1		05-12-04
XG.2004.824.4	97-63-2	Ethyl methacrylate	ND	ug / L		1	5		05-12-04
XG.2004.824.4	100-41-4	Ethylbenzene	ND	ug / L		1	1		05-12-04
XG.2004.824.4		Freon 113	ND	ug / L		1	5		05-12-04
XG.2004.824.4	75-71-8	Freon 12	ND	ug / L		1	10		05-12-04
XG.2004.824.4	1634-04-4	Methyl t-butyl ether (MTBE)	ND	ug / L		1	1		05-12-04
XG.2004.824.4	75-09-2	Methylene chloride	ND	ug / L		1	10		05-12-04
XG.2004.824.4	91-20-3	Naphthalene	ND	ug / L		1	5		05-12-04
XG.2004.824.4	95-47-6	o-Xylene	ND	ug / L		1	1		05-12-04
XG.2004.824.4	108-38-3/106-42	p/m-Xylenes	ND	ug / L		1	2		05-12-04
XG.2004.824.4	100-42-5	Styrene	ND	ug / L		1	1		05-12-04
XG.2004.824.4	156-60-5	t-1,2 Dichloroethene	ND	ug / L		1	1		05-12-04
XG.2004.824.4	10061-02-6	t-1,3 Dichloropropene	ND	ug / L		1	1		05-12-04
XG.2004.824.4	127-18-4	Tetrachloroethene (PCE)	ND	ug / L		1	1		05-12-04
XG.2004.824.4	108-88-3	Toluene	ND	ug / L		1	1		05-12-04
XG.2004.824.4	79-01-6	Trichloroethene	ND	ug / L		1	1		05-12-04
XG.2004.824.4	75-69-4	Trichlorofluoromethane	ND	ug / L		1	5		05-12-04
XG.2004.824.4	108-05-4	Vinyl acetate	ND	ug / L		1	5		05-12-04
XG.2004.824.4	75-01-4	Vinyl chloride	ND	ug / L		1	5		05-12-04
X04490		**SW846 8330 Explosives by HPLC**					**X04490-001**		
XG.2004.825.6	99-35-4	1,3,5-Trinitrobenzene	ND	ug / L		1	0.25		05-10-04
XG.2004.825.6	99-65-0	1,3-Dinitrobenzene	ND	ug / L		1	0.25		05-10-04
XG.2004.825.6	118-96-7	2,4,6-Trinitrotoluene	ND	ug / L		1	0.25		05-10-04

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STANDARD

Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: LOS ALAMOS NATIONAL LABS
Project: 7D44 JF30 0045 MGT1
Order: 0405144 LOS17

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: *MB: Method Blank* Matrix: *WATER*

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04490		SW846 8330 Explosives by HPLC						X04490-001	
XG.2004.825.6	121-14-2	2,4-Dinitrotoluene	ND	ug / L		1	0.25		05-10-04
XG.2004.825.6	606-20-2	2,6-Dinitrotoluene	ND	ug / L		1	0.25		05-10-04
XG.2004.825.6	355-72-78-2	2-Amino-4,6-Dinitrotoluene	ND	ug / L		1	0.25		05-10-04
XG.2004.825.6	88-72-2	2-Nitrotoluene	ND	ug / L		1	0.25		05-10-04
XG.2004.825.6	99-08-1	3-Nitrotoluene	ND	ug / L		1	0.25		05-10-04
XG.2004.825.6	1946-51-0	4-Amino-2,6-Dinitrotoluene	ND	ug / L		1	0.25		05-10-04
XG.2004.825.6	99-99-0	4-Nitrotoluene	ND	ug / L		1	0.25		05-10-04
XG.2004.825.6	2691-41-0	HMX	ND	ug / L		1	0.25		05-10-04
XG.2004.825.6	98-95-3	Nitrobenzene	ND	ug / L		1	0.25		05-10-04
XG.2004.825.6	121-82-4	RDX	ND	ug / L		1	0.25		05-10-04
XG.2004.825.6	479-45-8	Tetryl	ND	ug / L		1	0.25		05-10-04

Type: *MD: Matrix Duplicate* Matrix: *TCLP*

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
M04757		SW846 1311/3010A/6010B ICP TCLP						M04757-007	
MT.2004.953.32	7440-38-2	Arsenic	NA	RPD	0 - 20	1	NA		05-25-04
MT.2004.953.32	7440-39-3	Barium	2	RPD	0 - 20	1	NA		05-25-04
MT.2004.953.32	7440-43-9	Cadmium	NA	RPD	0 - 20	1	NA		05-25-04
MT.2004.953.32	7440-47-3	Chromium	177	RPD	0 - 20	1	NA		05-25-04
MT.2004.953.32	7439-92-1	Lead	NA	RPD	0 - 20	1	NA		05-25-04
MT.2004.953.32	7782-49-2	Selenium	37	RPD	0 - 20	1	NA		05-25-04
M04757		SW846 1311/3010A/7000 series AA-FL TCLP						M04757-007	
MT.2004.969.77	7440-22-4	Silver	NA	RPD	0 - 20	1	NA		05-26-04

Type: *MS: Matrix Spike* Matrix: *TCLP*

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
M04757		SW846 1311/3010A/6010B ICP TCLP						M04757-005	
MT.2004.953.30	7440-38-2	Arsenic	105	% Recovery	75 - 124	1	NA		05-25-04
MT.2004.953.30	7440-39-3	Barium	110	% Recovery	87 - 116	1	NA		05-25-04
MT.2004.953.30	7440-43-9	Cadmium	113	% Recovery	92 - 117	1	NA		05-25-04
MT.2004.953.30	7440-47-3	Chromium	113	% Recovery	88 - 114	1	NA		05-25-04
MT.2004.953.30	7439-92-1	Lead	114	% Recovery	88 - 119	1	NA		05-25-04
MT.2004.953.30	7782-49-2	Selenium	113	% Recovery	93 - 121	1	NA		05-25-04
M04757		SW846 1311/3010A/7000 series AA-FL TCLP						M04757-005	
MT.2004.969.75	7440-22-4	Silver	96	% Recovery	80 - 120	1	NA		05-26-04
M04744		SW846 1311/7470A CVAA TCLP						M04744-004	
MT.2004.919.37	7439-97-6	Mercury	90	% Recovery	80 - 120	1	NA		05-18-04

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Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: LOS ALAMOS NATIONAL LABS
Project: 7D44 JF30 0045 MGT1
Order: 0405144 LOS17

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: *MS: Matrix Spike* Matrix: *WATER*

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04488		**SW846 3510B/8270C SVOCs by GC/MS**						**X04488-004**	
XG.2004.882.8	120-82-1	1,2,4-Trichlorobenzene	82	% Recovery	71 - 112	2	NA		05-20-04
XG.2004.882.8	106-46-7	1,4-Dichlorobenzene	76	% Recovery	68 - 105	2	NA		05-20-04
XG.2004.882.8	121-14-2	2,4-Dinitrotoluene	93	% Recovery	71 - 117	2	NA		05-20-04
XG.2004.882.8	95-57-8	2-Chlorophenol	74	% Recovery	68 - 109	2	NA		05-20-04
XG.2004.882.8	59-50-7	4-Chloro-3-methylphenol	75	% Recovery	66 - 116	2	NA		05-20-04
XG.2004.882.8	100-02-7	4-Nitrophenol	8	% Recovery	12 - 56	2	NA		05-20-04
XG.2004.882.8	83-32-9	Acenaphthene	97	% Recovery	70 - 117	2	NA		05-20-04
XG.2004.882.8	117-84-0	di-n-Octylphthalate	104	% Recovery	68 - 135	2	NA		05-20-04
XG.2004.882.8	621-64-7	n-Nitroso-di-n-propylamine	106	% Recovery	64 - 114	2	NA		05-20-04
XG.2004.882.8	87-86-5	Pentachlorophenol	84	% Recovery	49 - 130	2	NA		05-20-04
XG.2004.882.8	108-95-2	Phenol	47	% Recovery	17 - 56	2	NA		05-20-04
XG.2004.882.8	129-00-0	Pyrene	97	% Recovery	78 - 126	2	NA		05-20-04
X04511		**SW846 8260B Purgeable VOCs by GC/MS**						**X04511-013**	
XG.2004.824.16	75-35-4	1,1 Dichloroethene	89	% Recovery	61 - 145	1	NA		05-13-04
XG.2004.824.16	106-46-7	1,4 Dichlorobenzene	104	% Recovery	75 - 130	1	NA		05-13-04
XG.2004.824.16	71-43-2	Benzene	100	% Recovery	76 - 127	1	NA		05-13-04
XG.2004.824.16	108-90-7	Chlorobenzene	101	% Recovery	75 - 130	1	NA		05-13-04
XG.2004.824.16	108-88-3	Toluene	95	% Recovery	76 - 125	1	NA		05-13-04
XG.2004.824.16	79-01-6	Trichloroethene	102	% Recovery	71 - 120	1	NA		05-13-04
X04490		**SW846 8330 Explosives by HPLC**						**X04490-005**	
XG.2004.825.15	99-35-4	1,3,5-Trinitrobenzene	28	% Recovery	77 - 115	1	NA		05-11-04
XG.2004.825.15	99-65-0	1,3-Dinitrobenzene	26	% Recovery	80 - 101	1	NA		05-11-04
XG.2004.825.15	118-96-7	2,4,6-Trinitrotoluene	22	% Recovery	87 - 113	1	NA		05-11-04
XG.2004.825.15	121-14-2	2,4-Dinitrotoluene	< 1	% Recovery	92 - 116	1	NA		05-11-04
XG.2004.825.15	606-20-2	2,6-Dinitrotoluene	2	% Recovery	70 - 100	1	NA		05-11-04
XG.2004.825.15	355-72-78-2	2-Amino-4,6-Dinitrotoluene	7	% Recovery	87 - 108	1	NA		05-11-04
XG.2004.825.15	88-72-2	2-Nitrotoluene	27	% Recovery	74 - 103	1	NA		05-11-04
XG.2004.825.15	99-08-1	3-Nitrotoluene	22	% Recovery	77 - 103	1	NA		05-11-04
XG.2004.825.15	1946-51-0	4-Amino-2,6-Dinitrotoluene	20	% Recovery	84 - 106	1	NA		05-11-04
XG.2004.825.15	99-99-0	4-Nitrotoluene	16	% Recovery	79 - 103	1	NA		05-11-04
XG.2004.825.15	2691-41-0	HMX	< 1	% Recovery	80 - 103	1	NA		05-11-04
XG.2004.825.15	98-95-3	Nitrobenzene	25	% Recovery	68 - 97	1	NA		05-11-04
XG.2004.825.15	121-82-4	RDX	64	% Recovery	77 - 96	1	NA		05-11-04
XG.2004.825.15	479-45-8	Tetryl	28	% Recovery	68 - 131	1	NA		05-11-04

Type: *MSD: Matrix Spike Duplicate Precision* Matrix: *TCLP*

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
M04757		**SW846 1311/3010A/6010B ICP TCLP**						**M04757-006**	
MT.2004.953.31	7440-38-2	Arsenic	< 1	RPD	0 - 20	1	NA		05-25-04
MT.2004.953.31	7440-39-3	Barium	1	RPD	0 - 20	1	NA		05-25-04

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Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 JF30 0045 MGT1**
Order: **0405144 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: ***MSD: Matrix Spike Duplicate Precision*** Matrix: ***TCLP***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
M04757		**SW846 1311/3010A/6010B ICP TCLP**					**M04757-006**		
MT.2004.953.31	7440-43-9	Cadmium	2	RPD	0 - 20	1	NA		05-25-04
MT.2004.953.31	7440-47-3	Chromium	1	RPD	0 - 20	1	NA		05-25-04
MT.2004.953.31	7439-92-1	Lead	2	RPD	0 - 20	1	NA		05-25-04
MT.2004.953.31	7782-49-2	Selenium	< 1	RPD	0 - 20	1	NA		05-25-04
M04757		**SW846 1311/3010A/7000 series AA-FL TCLP**					**M04757-006**		
MT.2004.969.76	7440-22-4	Silver	4	RPD	0 - 20	1	NA		05-26-04
M04744		**SW846 1311/7470A CVAA TCLP**					**M04744-005**		
MT.2004.919.38	7439-97-6	Mercury	1	RPD	0 - 20	1	NA		05-18-04

Type: ***MSD: Matrix Spike Duplicate Precision*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04488		**SW846 3510B/8270C SVOCs by GC/MS**					**X04488-005**		
XG.2004.882.9	120-82-1	1,2,4-Trichlorobenzene	6	RPD	0 - 28	2	NA		05-20-04
XG.2004.882.9	106-46-7	1,4-Dichlorobenzene	6	RPD	0 - 28	2	NA		05-20-04
XG.2004.882.9	121-14-2	2,4-Dinitrotoluene	3	RPD	0 - 38	2	NA		05-20-04
XG.2004.882.9	95-57-8	2-Chlorophenol	4	RPD	0 - 40	2	NA		05-20-04
XG.2004.882.9	59-50-7	4-Chloro-3-methylphenol	5	RPD	0 - 42	2	NA		05-20-04
XG.2004.882.9	100-02-7	4-Nitrophenol	2	RPD	0 - 50	2	NA		05-20-04
XG.2004.882.9	83-32-9	Acenaphthene	2	RPD	0 - 31	2	NA		05-20-04
XG.2004.882.9	117-84-0	di-n-Octylphthalate	9	RPD	0 - 20	2	NA		05-20-04
XG.2004.882.9	621-64-7	n-Nitroso-di-n-propylamine	< 1	RPD	0 - 38	2	NA		05-20-04
XG.2004.882.9	87-86-5	Pentachlorophenol	< 1	RPD	0 - 50	2	NA		05-20-04
XG.2004.882.9	108-95-2	Phenol	4	RPD	0 - 42	2	NA		05-20-04
XG.2004.882.9	129-00-0	Pyrene	2	RPD	0 - 31	2	NA		05-20-04
X04511		**SW846 8260B Purgeable VOCs by GC/MS**					**X04511-014**		
XG.2004.824.17	75-35-4	1,1 Dichloroethene	< 1	RPD	0 - 14	1	NA		05-13-04
XG.2004.824.17	106-46-7	1,4 Dichlorobenzene	< 1	RPD	0 - 11	1	NA		05-13-04
XG.2004.824.17	71-43-2	Benzene	1	RPD	0 - 13	1	NA		05-13-04
XG.2004.824.17	108-90-7	Chlorobenzene	< 1	RPD	0 - 11	1	NA		05-13-04
XG.2004.824.17	108-88-3	Toluene	< 1	RPD	0 - 13	1	NA		05-13-04
XG.2004.824.17	79-01-6	Trichloroethene	< 1	RPD	0 - 14	1	NA		05-13-04
X04490		**SW846 8330 Explosives by HPLC**					**X04490-006**		
XG.2004.825.16	99-35-4	1,3,5-Trinitrobenzene	5	RPD	0 - 17	1	NA		05-11-04
XG.2004.825.16	99-65-0	1,3-Dinitrobenzene	18	RPD	0 - 14	1	NA		05-11-04
XG.2004.825.16	118-96-7	2,4,6-Trinitrotoluene	2	RPD	0 - 12	1	NA		05-11-04
XG.2004.825.16	121-14-2	2,4-Dinitrotoluene	NA	RPD	0 - 12	1	NA		05-11-04
XG.2004.825.16	606-20-2	2,6-Dinitrotoluene	< 1	RPD	0 - 12	1	NA		05-11-04
XG.2004.825.16	355-72-78-2	2-Amino-4,6-Dinitrotoluene	13	RPD	0 - 16	1	NA		05-11-04
XG.2004.825.16	88-72-2	2-Nitrotoluene	10	RPD	0 - 13	1	NA		05-11-04
XG.2004.825.16	99-08-1	3-Nitrotoluene	12	RPD	0 - 12	1	NA		05-11-04

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Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 JF30 0045 MGT1**
Order: **0405144 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: ***MSD: Matrix Spike Duplicate Precision*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04490		**SW846 8330 Explosives by HPLC**						**X04490-006**	
XG.2004.825.16	1946-51-0	4-Amino-2,6-Dinitrotoluene	36	RPD	0 - 14	1	NA		05-11-04
XG.2004.825.16	99-99-0	4-Nitrotoluene	19	RPD	0 - 13	1	NA		05-11-04
XG.2004.825.16	2691-41-0	HMX	NA	RPD	0 - 17	1	NA		05-11-04
XG.2004.825.16	98-95-3	Nitrobenzene	2	RPD	0 - 19	1	NA		05-11-04
XG.2004.825.16	121-82-4	RDX	40	RPD	0 - 18	1	NA		05-11-04
XG.2004.825.16	479-45-8	Tetryl	3	RPD	0 - 15	1	NA		05-11-04

Type: ***MSD: Matrix Spike Duplicate Accuracy*** Matrix: ***TCLP***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
M04757		**SW846 1311/3010A/6010B ICP TCLP**						**M04757-006**	
MT.2004.953.31	7440-38-2	Arsenic	104	% Recovery	75 - 124	1	NA		05-25-04
MT.2004.953.31	7440-39-3	Barium	108	% Recovery	87 - 116	1	NA		05-25-04
MT.2004.953.31	7440-43-9	Cadmium	110	% Recovery	92 - 117	1	NA		05-25-04
MT.2004.953.31	7440-47-3	Chromium	112	% Recovery	88 - 114	1	NA		05-25-04
MT.2004.953.31	7439-92-1	Lead	112	% Recovery	88 - 119	1	NA		05-25-04
MT.2004.953.31	7782-49-2	Selenium	114	% Recovery	93 - 121	1	NA		05-25-04
M04757		**SW846 1311/3010A/7000 series AA-FL TCLP**						**M04757-006**	
MT.2004.969.76	7440-22-4	Silver	93	% Recovery	80 - 120	1	NA		05-26-04
M04744		**SW846 1311/7470A CVAA TCLP**						**M04744-005**	
MT.2004.919.38	7439-97-6	Mercury	91	% Recovery	80 - 120	1	NA		05-18-04

Type: ***MSD: Matrix Spike Duplicate Accuracy*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04488		**SW846 3510B/8270C SVOCs by GC/MS**						**X04488-005**	
XG.2004.882.9	120-82-1	1,2,4-Trichlorobenzene	77	% Recovery	71 - 112	2	NA		05-20-04
XG.2004.882.9	106-46-7	1,4-Dichlorobenzene	72	% Recovery	68 - 105	2	NA		05-20-04
XG.2004.882.9	121-14-2	2,4-Dinitrotoluene	96	% Recovery	71 - 117	2	NA		05-20-04
XG.2004.882.9	95-57-8	2-Chlorophenol	71	% Recovery	68 - 109	2	NA		05-20-04
XG.2004.882.9	59-50-7	4-Chloro-3-methylphenol	72	% Recovery	66 - 116	2	NA		05-20-04
XG.2004.882.9	100-02-7	4-Nitrophenol	6	% Recovery	12 - 58	2	NA		05-20-04
XG.2004.882.9	83-32-9	Acenaphthene	99	% Recovery	70 - 117	2	NA		05-20-04
XG.2004.882.9	117-84-0	di-n-Octylphthalate	114	% Recovery	68 - 135	2	NA		05-20-04
XG.2004.882.9	621-64-7	n-Nitroso-di-n-propylamine	107	% Recovery	64 - 114	2	NA		05-20-04
XG.2004.882.9	87-86-5	Pentachlorophenol	83	% Recovery	49 - 130	2	NA		05-20-04
XG.2004.882.9	108-95-2	Phenol	45	% Recovery	17 - 56	2	NA		05-20-04
XG.2004.882.9	129-00-0	Pyrene	99	% Recovery	78 - 126	2	NA		05-20-04
X04511		**SW846 8260B Purgeable VOCs by GC/MS**						**X04511-014**	
XG.2004.824.17	75-35-4	1,1 Dichloroethene	88	% Recovery	61 - 145	1	NA		05-13-04

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Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 JF30 0045 MGT1**
Order: **0405144 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: ***MSD: Matrix Spike Duplicate Accuracy*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04511		**SW846 8260B Purgeable VOCs by GC/MS**						**X04511-014**	
XG.2004.824.17	106-46-7	1,4 Dichlorobenzene	104	% Recovery	75 - 130	1	NA		05-13-04
XG.2004.824.17	71-43-2	Benzene	99	% Recovery	76 - 127	1	NA		05-13-04
XG.2004.824.17	108-90-7	Chlorobenzene	102	% Recovery	75 - 130	1	NA		05-13-04
XG.2004.824.17	108-88-3	Toluene	95	% Recovery	76 - 125	1	NA		05-13-04
XG.2004.824.17	79-01-6	Trichloroethene	101	% Recovery	71 - 120	1	NA		05-13-04
X04490		**SW846 8330 Explosives by HPLC**						**X04490-006**	
XG.2004.825.16	99-35-4	1,3,5-Trinitrobenzene	30	% Recovery	77 - 115	1	NA		05-11-04
XG.2004.825.16	99-65-0	1,3-Dinitrobenzene	31	% Recovery	80 - 101	1	NA		05-11-04
XG.2004.825.16	118-96-7	2,4,6-Trinitrotoluene	22	% Recovery	87 - 113	1	NA		05-11-04
XG.2004.825.16	121-14-2	2,4-Dinitrotoluene	< 1	% Recovery	92 - 116	1	NA		05-11-04
XG.2004.825.16	606-20-2	2,6-Dinitrotoluene	2	% Recovery	70 - 100	1	NA		05-11-04
XG.2004.825.16	355-72-78-2	2-Amino-4,6-Dinitrotoluene	6	% Recovery	87 - 108	1	NA		05-11-04
XG.2004.825.16	88-72-2	2-Nitrotoluene	30	% Recovery	74 - 103	1	NA		05-11-04
XG.2004.825.16	99-08-1	3-Nitrotoluene	25	% Recovery	77 - 103	1	NA		05-11-04
XG.2004.825.16	1946-51-0	4-Amino-2,6-Dinitrotoluene	14	% Recovery	84 - 106	1	NA		05-11-04
XG.2004.825.16	99-99-0	4-Nitrotoluene	20	% Recovery	79 - 103	1	NA		05-11-04
XG.2004.825.16	2691-41-0	HMX	< 1	% Recovery	80 - 103	1	NA		05-11-04
XG.2004.825.16	98-95-3	Nitrobenzene	26	% Recovery	68 - 97	1	NA		05-11-04
XG.2004.825.16	121-82-4	RDX	96	% Recovery	77 - 96	1	NA		05-11-04
XG.2004.825.16	479-45-8	Tetryl	29	% Recovery	68 - 131	1	NA		05-11-04

Assalgal Analytical Laboratories, Inc.

QC Surrogate Summary

Client: LOS ALAMOS NATIONAL LABS
Project: 7D44 JF30 0045 MGT1
Order: 0405144 LOS17

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Sample: *0405144-01A* Matrix: *WATER*

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04511		8260					X04511-007		
XG.2004.824.10		1,2 Dichloroethane-D4 (SS)	96	% Recovery	76 - 114	1	NA		05-12-04
XG.2004.824.10		4-Bromofluorobenzene (SS)	100	% Recovery	75 - 125	1	NA		05-12-04
XG.2004.824.10		Dibromofluoromethane (SS)	100	% Recovery	75 - 125	1	NA		05-12-04
XG.2004.824.10		Toluene-D8 (SS)	100	% Recovery	88 - 110	1	NA		05-12-04

Sample: *0405144-02A* Matrix: *WATER*

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04488		8270					X04488-006		
XG.2004.882.6		*2,4,6-TRIBROMOPHENOL	102	% Recovery	64 - 123	1	NA		05-20-04
XG.2004.882.6		*2-FLUOROBIPHENYL	90	% Recovery	73 - 104	1	NA		05-20-04
XG.2004.882.6		*2-FLUOROPHENOL	54	% Recovery	50 - 116	1	NA		05-20-04
XG.2004.882.6		*NITROBENZENE-D5	97	% Recovery	46 - 123	1	NA		05-20-04
XG.2004.882.6		*PHENOL-D6	39	% Recovery	24 - 52	1	NA		05-20-04
XG.2004.882.6		*TERPHENYL-D14	61	% Recovery	48 - 110	1	NA		05-20-04

Sample: *0405144-04A* Matrix: *WATER*

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04490		SW846 8330 Explosives by HPLC					X04490-004		
XG.2004.825.13	610-39-9	3,4-Dinitrotoluene	14	% Recovery	74 - 127	1	NA		05-11-04

Sample: *0405144-05A* Matrix: *WATER*

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04511		8260					X04511-008		
XG.2004.824.11		1,2 Dichloroethane-D4 (SS)	93	% Recovery	76 - 114	1	NA		05-12-04
XG.2004.824.11		4-Bromofluorobenzene (SS)	100	% Recovery	75 - 125	1	NA		05-12-04
XG.2004.824.11		Dibromofluoromethane (SS)	99	% Recovery	75 - 125	1	NA		05-12-04
XG.2004.824.11		Toluene-D8 (SS)	99	% Recovery	88 - 110	1	NA		05-12-04

Sample: *LCS* Matrix: *WATER*

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04511		8260					X04511-002		
XG.2004.824.5		1,2 Dichloroethane-D4 (SS)	104	% Recovery	76 - 114	1	NA		05-12-04
XG.2004.824.5		4-Bromofluorobenzene (SS)	99	% Recovery	75 - 125	1	NA		05-12-04
XG.2004.824.5		Dibromofluoromethane (SS)	98	% Recovery	75 - 125	1	NA		05-12-04

Assalgal Analytical Laboratories, Inc.

QC Surrogate Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 JF30 0045 MGT1**
Order: **0405144 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Sample: *LCS* Matrix: *WATER*

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04511		8260					X04511-002		
XG.2004.824.5		Toluene-D8 (SS)	99	% Recovery	88 - 110	1	NA		05-12-04
X04488		8270					X04488-002		
XG.2004.882.3		*2,4,6-TRIBROMOPHENOL	101	% Recovery	64 - 123	1	NA		05-20-04
XG.2004.882.3		*2-FLUOROBIPHENYL	97	% Recovery	73 - 104	1	NA		05-20-04
XG.2004.882.3		*2-FLUOROPHENOL	59	% Recovery	50 - 116	1	NA		05-20-04
XG.2004.882.3		*NITROBENZENE-D5	102	% Recovery	46 - 123	1	NA		05-20-04
XG.2004.882.3		*PHENOL-D6	42	% Recovery	24 - 52	1	NA		05-20-04
XG.2004.882.3		*TERPHENYL-D14	71	% Recovery	48 - 110	1	NA		05-20-04
X04490		SW846 8330 Explosives by HPLC					X04490-002		
XG.2004.825.7	610-39-9	3,4-Dinitrotoluene	88	% Recovery	74 - 127	1	NA		05-10-04

Sample: *MB* Matrix: *WATER*

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04511		8260					X04511-001		
XG.2004.824.4		1,2 Dichloroethane-D4 (SS)	96	% Recovery	76 - 114	1	NA		05-12-04
XG.2004.824.4		4-Bromofluorobenzene (SS)	102	% Recovery	75 - 125	1	NA		05-12-04
XG.2004.824.4		Dibromofluoromethane (SS)	100	% Recovery	75 - 125	1	NA		05-12-04
XG.2004.824.4		Toluene-D8 (SS)	99	% Recovery	88 - 110	1	NA		05-12-04
X04488		8270					X04488-001		
XG.2004.882.2		*2,4,6-TRIBROMOPHENOL	87	% Recovery	64 - 123	1	NA		05-20-04
XG.2004.882.2		*2-FLUOROBIPHENYL	79	% Recovery	73 - 104	1	NA		05-20-04
XG.2004.882.2		*2-FLUOROPHENOL	56	% Recovery	50 - 116	1	NA		05-20-04
XG.2004.882.2		*NITROBENZENE-D5	104	% Recovery	46 - 123	1	NA		05-20-04
XG.2004.882.2		*PHENOL-D6	39	% Recovery	24 - 52	1	NA		05-20-04
XG.2004.882.2		*TERPHENYL-D14	71	% Recovery	48 - 110	1	NA		05-20-04
X04490		SW846 8330 Explosives by HPLC					X04490-001		
XG.2004.825.6	610-39-9	3,4-Dinitrotoluene	86	% Recovery	74 - 127	1	NA		05-10-04

Sample: *MS* Matrix: *WATER*

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04511		8260					X04511-013		
XG.2004.824.16		1,2 Dichloroethane-D4 (SS)	106	% Recovery	76 - 114	1	NA		05-13-04
XG.2004.824.16		4-Bromofluorobenzene (SS)	101	% Recovery	75 - 125	1	NA		05-13-04
XG.2004.824.16		Dibromofluoromethane (SS)	102	% Recovery	75 - 125	1	NA		05-13-04
XG.2004.824.16		Toluene-D8 (SS)	100	% Recovery	88 - 110	1	NA		05-13-04

Assaigai Analytical Laboratories, Inc.

QC Surrogate Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 JF30 0045 MGT1**
Order: **0405144 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Sample: ***MS*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04488		**8270**						**X04488-004**	
XG.2004.882.8		*2,4,6-TRIBROMOPHENOL	116	% Recovery	64 - 123	2	NA		05-20-04
XG.2004.882.8		*2-FLUOROBIPHENYL	96	% Recovery	73 - 104	2	NA		05-20-04
XG.2004.882.8		*2-FLUOROPHENOL	54	% Recovery	50 - 116	2	NA		05-20-04
XG.2004.882.8		*NITROBENZENE-D5	94	% Recovery	46 - 123	2	NA		05-20-04
XG.2004.882.8		*PHENOL-D6	40	% Recovery	24 - 52	2	NA		05-20-04
XG.2004.882.8		*TERPHENYL-D14	78	% Recovery	48 - 110	2	NA		05-20-04
X04490		**SW846 8330 Explosives by HPLC**						**X04490-005**	
XG.2004.825.15	610-39-9	3,4-Dinitrotoluene	18	% Recovery	74 - 127	1	NA		05-11-04

Sample: ***MSD*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04511		**8260**						**X04511-014**	
XG.2004.824.17		1,2 Dichloroethane-D4 (SS)	105	% Recovery	76 - 114	1	NA		05-13-04
XG.2004.824.17		4-Bromofluorobenzene (SS)	104	% Recovery	75 - 125	1	NA		05-13-04
XG.2004.824.17		Dibromofluoromethane (SS)	101	% Recovery	75 - 125	1	NA		05-13-04
XG.2004.824.17		Toluene-D8 (SS)	100	% Recovery	88 - 110	1	NA		05-13-04
X04488		**8270**						**X04488-005**	
XG.2004.882.9		*2,4,6-TRIBROMOPHENOL	121	% Recovery	64 - 123	2	NA		05-20-04
XG.2004.882.9		*2-FLUOROBIPHENYL	96	% Recovery	73 - 104	2	NA		05-20-04
XG.2004.882.9		*2-FLUOROPHENOL	56	% Recovery	50 - 116	2	NA		05-20-04
XG.2004.882.9		*NITROBENZENE-D5	95	% Recovery	46 - 123	2	NA		05-20-04
XG.2004.882.9		*PHENOL-D6	40	% Recovery	24 - 52	2	NA		05-20-04
XG.2004.882.9		*TERPHENYL-D14	76	% Recovery	48 - 110	2	NA		05-20-04
X04490		**SW846 8330 Explosives by HPLC**						**X04490-006**	
XG.2004.825.16	610-39-9	3,4-Dinitrotoluene	21	% Recovery	74 - 127	1	NA		05-11-04

MICROTOX DATA REPORT

FILE: 4-0783.R5
Test Time: 5 minutes Osmotic Adjustment:yes

NUMBER	DESCRIPTION	CONCENTRATION	GAMMA	%EFFECT
1	4-0783-1	25.00	0.517	34.07
2	4-0783-2	25.00	0.468	31.87
3	4-0783-3	25.00	0.517	34.07
4	4-0784-1	25.00	0.857	46.15
5	4-0784-2	25.00	0.750	42.86
6	4-0784-3	25.00	0.936	48.35

Signature S. Lott TEST DATE: 5/10/04
TIME:14:46:17

MICROTOX DATA REPORT

FILE: 4-0783.R15
Test Time: 15 minutes Osmotic Adjustment:yes

NUMBER	DESCRIPTION	CONCENTRATION	GAMMA	%EFFECT	
1	4-0783-1	25.00	0.333	25.00	@ pH = 7.0
2	4-0783-2	25.00	0.309	23.61	24.54
3	4-0783-3	25.00	0.333	25.00	
4	4-0784-1	25.00	0.500	33.33	
5	4-0784-2	25.00	0.440	30.56	31.94
6	4-0784-3	25.00	0.469	31.94	@ pH = 6.2

Signature S. Lott TEST DATE: 5/10/04
TIME:14:47:12

LOS ALAMOS NATIONAL LABORATORY
WASTE PROFILE SYSTEM

WPF #: 37721

15-Mar-2006 09:29 AM **(Version: 1)**

Generator :	**RENDELL, KEITH R**	MS :	**J590**	PH :	**6651054**	Z#:	**086114**
WMC :	**THOMAS, JOHN**	MS :	**H805**	PH :	**5056678400**	Z#:	**105444**
Contact :							
RCRA Rev :	**Elicio Andy U**	MS :	**J595**	PH :	**5056676956**	Z#:	**118692**
Status :	**EXPIRE**	Activation Date :	**10/12/2004**		Expiration Date:		**10/12/2005**
Group :	**FWO-IP**	TA :	**16**	Bldg :	**000340**	Room :	**SUMP**

You are required to keep a copy of the WPF(s) in your files for at least three years. This WPF(s) is valid for one year or as long as the composition of the waste you have characterized remains the same. Should your waste change, please submit a new WPF to NWIS-SWO Customer Service.

Waste Accumu : **None of the Above Site ID#**

Method of Char : Analysis/Documents Attached

Chemical/Physical Analysis Number: 04SWRC408-413

Waste Type : **Process Waste/Spent Chemical/Other**

Waste Classes:
- RCA Waste - **Not RCA Waste**
- RAD Waste - **Non-rad**
- WW Info - **SWSC**
- Classif/Sensi - **N**

Waste Category: **Other**

Waste Sources : **Other - Non-routine**

Waste Matrix : **Aqueous**

Matrix Type : **Homogeneous**

Process Desc :

WATER IS ASSUMED TO BE SNOWMELT AND RUN-OFF, SUMPS HAD BEEN PUMPED WHEN BUILDING WAS LAST USED (>7 YRS)

Waste Desc : N/A

Ignitability : **Not ignitable**

Corrosivity : **6.1 - 9.0**

Reactivity : **Non-reactive**

Boiling Point : **Not applicable**

Toxicity Characteristic Metals: N/A

Toxicity Characteristic Organic Compounds: N/A

Additional Chemical Constituents and Contaminants:

CAS NO	Constituent	MIN	MAX	UOM
	WATER	100	100	%

Waste Water Characteristics for SWSC

Microtox Analysis #: 4-0784

Any detectable levels of gross Alpha, gross Beta, gross Gamma, and/or Tritium? N

Waste Water Flow Rate: Flow Rate of greater than 100 gallons/day

WASTE CHARACTERIZATION INFORMATION

Radioactivity Category :	**NON-RAD**
RCRA Category :	**NON HAZARDOUS**
Secondary Info :	N/A
Waste Classification :	**SOLID WASTE**
Waste Acceptances :	**SWSC Acceptance**
EPA Hazardous Waste Code :	N/A

Attachment 6

MICROTOX DATA REPORT

FILE: 4-0880.R5
Test Time: 5 minutes Osmotic Adjustment:yes

NUMBER	DESCRIPTION	CONCENTRATION	GAMMA	%EFFECT
1	4-0880-1	25.00	0.957	48.91
2	4-0880-2	25.00	1.044	51.09
3	4-0880-3	25.00	1.091	52.17

50.72

Signature _____ TEST DATE: 5/25/04
TIME:10:11:03

MICROTOX DATA REPORT

FILE: 4-0880.R15
Test Time: 15 minutes Osmotic Adjustment:yes

NUMBER	DESCRIPTION	CONCENTRATION	GAMMA	%EFFECT
1	4-0880-1	25.00	1.117	52.76
2	4-0880-2	25.00	1.190	54.33
3	4-0880-3	25.00	1.117	52.76

53.28

Signature _____ TEST DATE: 5/25/04
TIME:10:12:34

MICROTOX DATA REPORT
Basic Test

FILE: 4-0880.K15
EC 50 test of SWSWAC sample 4-0880

Test Time: 15 minutes Osmotic Adjustment:yes

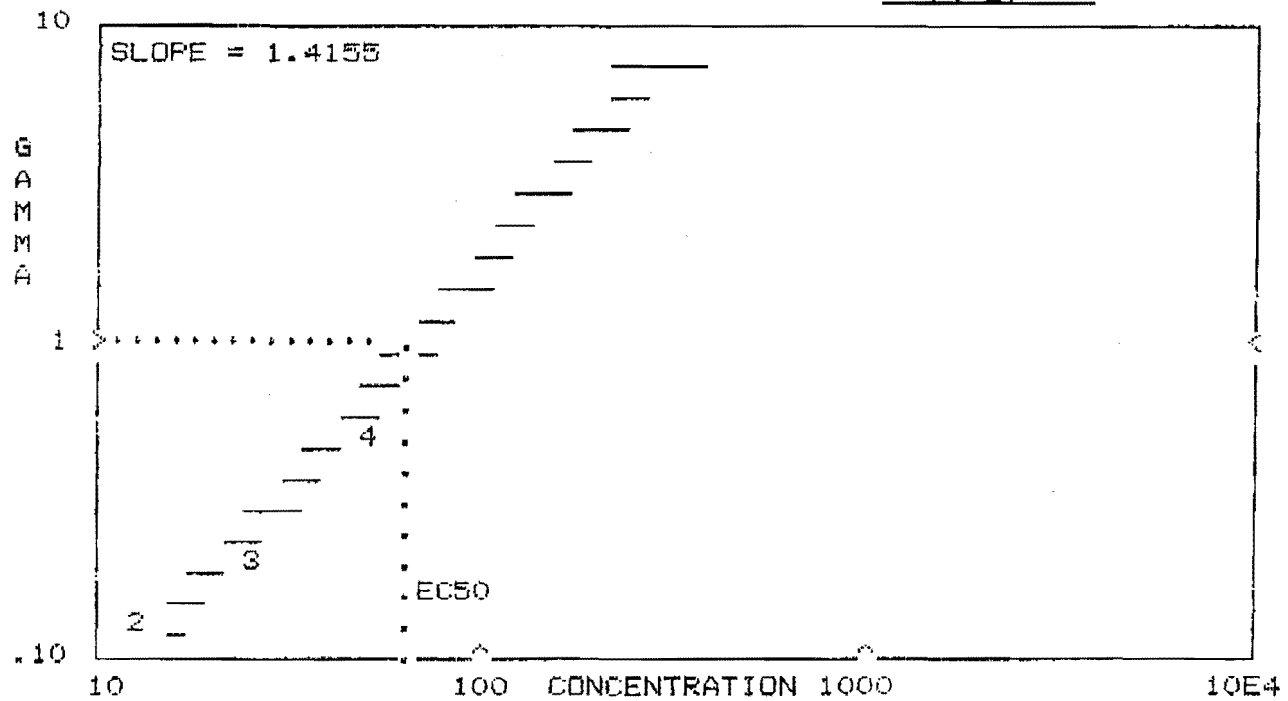
NUMBER	IO/IT	CONC.	CR/GAMMA	% EFFECT
Control	95.00/ 54.00	0.0	0.5684 #	
1	99.00/ 54.00	5.6250	0.042 *	
2	90.00/ 47.00	11.2500	0.088 #	8.1
3	85.00/ 39.00	22.5000	0.239 #	19.3
4	86.00/ 30.00	45.0000	0.629 #	38.6

CR = Control Ratio CORRECTION FACTOR = 0.5684
# Used for calculations * Invalid data or controls

EC50 62.22 % (95% CONFIDENCE RANGE:56.09 TO 69.03)

(NOTE: EC50 is an extrapolated value.)

Signature _____ TEST DATE: 5/25/04
TIME: 14:37



ESTIMATING EQUATION: LOG C = 0.7064 x LOG Γ +1.7940
95% CONFIDENCE FACTOR: 1.10930 FOR EC50
COEFFICIENT OF DETERMINATION: R^2 = 0.99995

ASSAIGAI ANALYTICAL LABORATORIES, INC.
4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, Ste. N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820
127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

Explanation of codes	
B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

LOS ALAMOS NATIONAL LABS
attn: **DUSTIE RICH**
P.O. BOX 1663, MS K490
LOS ALAMOS NM 87545

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 BA22 0016 DMLN**
Order: **0405465 LOS17** Receipt: **05-20-04**

William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Sample: ***04SWRC492*** Collected: *05-18-04 14:30:00* By: *DR*
Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0405465-01A		**SW846 8260B Purgeable VOCs by GC/MS**					By: RS/CWJ			
X04625	XG.2004.968.6	75-34-3	1,1 Dichloroethane	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	75-35-4	1,1 Dichloroethene	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	71-55-6	1,1,1 Trichloroethane	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	630-20-6	1,1,1,2 Tetrachloroethane	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	79-00-5	1,1,2 Trichloroethane	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	79-34-5	1,1,2,2 Tetrachloroethane	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	106-93-4	1,2 Dibromoethane (EDB)	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	95-50-1	1,2 Dichlorobenzene	1.1	ug / L	1	1	B	06-01-04	06-01-04
X04625	XG.2004.968.6	107-06-2	1,2 Dichloroethane (EDC)	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	78-87-5	1,2 Dichloropropane	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	96-18-4	1,2,3 Trichloropropane	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	95-63-6	1,2,4-Trimethylbenzene	1.0	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	541-73-1	1,3 Dichlorobenzene	1.1	ug / L	1	1	B	06-01-04	06-01-04
X04625	XG.2004.968.6	108-67-8	1,3,5-Trimethylbenzene	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	764-41-0	1,4 Dichloro-2-butene	ND	ug / L	1	10		06-01-04	06-01-04
X04625	XG.2004.968.6	106-46-7	1,4 Dichlorobenzene	1.1	ug / L	1	1	B	06-01-04	06-01-04
X04625	XG.2004.968.6	78-93-3	2-Butanone (MEK)	15	ug / L	1	5		06-01-04	06-01-04
X04625	XG.2004.968.6	591-78-6	2-Hexanone (MBK)	ND	ug / L	1	5		06-01-04	06-01-04
X04625	XG.2004.968.6	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug / L	1	5		06-01-04	06-01-04
X04625	XG.2004.968.6	67-64-1	Acetone	77	ug / L	1	10		06-01-04	06-01-04
X04625	XG.2004.968.6	107-02-8	Acrolein	ND	ug / L	1	20		06-01-04	06-01-04
X04625	XG.2004.968.6	107-13-1	Acrylonitrile	ND	ug / L	1	20		06-01-04	06-01-04
X04625	XG.2004.968.6	71-43-2	Benzene	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	75-27-4	Bromodichloromethane	ND	ug / L	1	1		06-01-04	06-01-04

REPRODUCTION OF THIS REPORT IN LESS THAN FULL REQUIRES THE WRITTEN CONSENT OF AAL.
THIS REPORT MAY NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM.

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 BA22 0016 DMLN**
Order: **0405465** **LOS17** Receipt: **05-20-04**

Sample: ***04SWRC492*** Collected: *05-18-04 14:30:00* By: *DR*
Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0405465-01A		**SW846 8260B Purgeable VOCs by GC/MS**					By: RS/CWJ			
X04625	XG.2004.968.6	75-25-2	Bromoform	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	74-83-9	Bromomethane	ND	ug / L	1	10		06-01-04	06-01-04
X04625	XG.2004.968.6	75-15-0	Carbon disulfide	ND	ug / L	1	5		06-01-04	06-01-04
X04625	XG.2004.968.6	56-23-5	Carbon tetrachloride	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	108-90-7	Chlorobenzene	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	124-48-1	Chlorodibromomethane	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	75-00-3	Chloroethane	ND	ug / L	1	5		06-01-04	06-01-04
X04625	XG.2004.968.6	67-66-3	Chloroform	2.8 ✓	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	74-87-3	Chloromethane	ND	ug / L	1	5		06-01-04	06-01-04
X04625	XG.2004.968.6	156-59-2	cis-1,2 dichloroethene	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6		cis-1,3 Dichloropropene	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	74-95-3	Dibromomethane	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	97-63-2	Ethyl methacrylate	ND	ug / L	1	5		06-01-04	06-01-04
X04625	XG.2004.968.6	100-41-4	Ethylbenzene	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6		Freon 113	ND	ug / L	1	5		06-01-04	06-01-04
X04625	XG.2004.968.6	75-71-8	Freon 12	ND	ug / L	1	10		06-01-04	06-01-04
X04625	XG.2004.968.6	1634-04-4	Methyl t-butyl ether (MTBE)	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	75-09-2	Methylene chloride	ND	ug / L	1	10		06-01-04	06-01-04
X04625	XG.2004.968.6	91-20-3	Naphthalene	ND	ug / L	1	5		06-01-04	06-01-04
X04625	XG.2004.968.6	95-47-6	o-Xylene	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	108-38-3/106-42	p/m-Xylenes	ND	ug / L	1	2		06-01-04	06-01-04
X04625	XG.2004.968.6	100-42-5	Styrene	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	156-60-5	t-1,2 Dichloroethene	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	10061-02-6	t-1,3 Dichloropropene	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	127-18-4	Tetrachloroethene (PCE)	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	108-88-3	Toluene	1.1 ✓	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	79-01-6	Trichloroethene	ND	ug / L	1	1		06-01-04	06-01-04
X04625	XG.2004.968.6	75-69-4	Trichlorofluoromethane	ND	ug / L	1	5		06-01-04	06-01-04
X04625	XG.2004.968.6	108-05-4	Vinyl acetate	ND	ug / L	1	5		06-01-04	06-01-04
X04625	XG.2004.968.6	75-01-4	Vinyl chloride	ND	ug / L	1	5		06-01-04	06-01-04

Sample: ***04SWRC493*** Collected: *05-18-04 14:30:00* By: *DR*
Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0405465-02A		**SW846 3510B/8270C SVOCs by GC/MS**					By: DS			
X04559	XG.2004.899.11	120-82-1	1,2,4-Trichlorobenzene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	95-50-1	1,2-Dichlorobenzene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	541-73-1	1,3-Dichlorobenzene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	106-46-7	1,4-Dichlorobenzene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	90-12-0	1-Methylnaphthalene	ND	ug / L	1	1		05-21-04	05-24-04

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**

Project: **7D44 BA22 0016 DMLN**

Order: **0405465** **LOS17** Receipt: **05-20-04**

Sample: ***04SWRC493*** Collected: *05-18-04 14:30:00* By: *DR*

Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0405465-02A		**SW846 3510B/8270C SVOCs by GC/MS**					By:	DS		
X04559	XG.2004.899.11	58-90-2	2,3,4,6-Tetrachlorophenol	ND	ug / L	1	5		05-21-04	05-24-04
X04559	XG.2004.899.11	95-95-4	2,4,5-Trichlorophenol	ND	ug / L	1	5		05-21-04	05-24-04
X04559	XG.2004.899.11	88-06-2	2,4,6-Trichlorophenol	ND	ug / L	1	5		05-21-04	05-24-04
X04559	XG.2004.899.11	120-83-2	2,4-Dichlorophenol	ND	ug / L	1	5		05-21-04	05-24-04
X04559	XG.2004.899.11	105-67-9	2,4-Dimethylphenol	ND	ug / L	1	0.2		05-21-04	05-24-04
X04559	XG.2004.899.11	51-28-5	2,4-Dinitrophenol	ND	ug / L	1	10		05-21-04	05-24-04
X04559	XG.2004.899.11	121-14-2	2,4-Dinitrotoluene	ND	ug / L	1	5		05-21-04	05-24-04
X04559	XG.2004.899.11	606-20-2	2,6-Dinitrotoluene	ND	ug / L	1	5		05-21-04	05-24-04
X04559	XG.2004.899.11	91-58-7	2-Chloronaphthalene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	95-57-8	2-Chlorophenol	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	91-57-6	2-Methylnaphthalene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	95-48-7	2-Methylphenol	1.8 ✓	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	88-74-4	2-Nitroaniline	ND	ug / L	1	5		05-21-04	05-24-04
X04559	XG.2004.899.11	88-75-5	2-Nitrophenol	ND	ug / L	1	5		05-21-04	05-24-04
X04559	XG.2004.899.11	91-94-1	3,3-Dichlorobenzidine	ND	ug / L	1	10		05-21-04	05-24-04
X04559	XG.2004.899.11		3+4 Methylphenol	24 ✓	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	99-09-2	3-Nitroaniline	ND	ug / L	1	5		05-21-04	05-24-04
X04559	XG.2004.899.11	534-52-1	4,6-Dinitro-2-methylphenol	ND	ug / L	1	10		05-21-04	05-24-04
X04559	XG.2004.899.11	101-55-3	4-Bromophenyl-phenylether	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	59-50-7	4-Chloro-3-methylphenol	ND	ug / L	1	5		05-21-04	05-24-04
X04559	XG.2004.899.11	106-47-8	4-Chloroaniline	ND	ug / L	1	5		05-21-04	05-24-04
X04559	XG.2004.899.11	7005-72-3	4-Chlorophenyl-phenylether	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	100-01-6	4-Nitroaniline	ND	ug / L	1	5		05-21-04	05-24-04
X04559	XG.2004.899.11	100-02-7	4-Nitrophenol	ND	ug / L	1	10		05-21-04	05-24-04
X04559	XG.2004.899.11	83-32-9	Acenaphthene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	208-96-8	Acenaphthylene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	62-53-3	Aniline	ND	ug / L	1	10		05-21-04	05-24-04
X04559	XG.2004.899.11	120-12-7	Anthracene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11		Azobenzene&1,2-Diphenylhydrazine	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	56-55-3	Benzo (a) anthracene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	50-32-8	Benzo(a)pyrene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11		Benzo(b & k)fluoranthene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	191-24-2	Benzo(g,h,i)perylene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	64-85-0	Benzoic acid	110 ✓	ug / L	1	25		05-21-04	05-24-04
X04559	XG.2004.899.11	100-51-6	Benzyl alcohol	ND	ug / L	1	5		05-21-04	05-24-04
X04559	XG.2004.899.11	111-44-4	bis (2-Chloroethyl) ether	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	111-91-1	bis(2-Chloroethoxy)methane	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	108-60-1	bis(2-Chloroisopropyl)ether	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.5	117-81-7	bis(2-Ethylhexyl)phthalate	210 ✓	ug / L	10	5	B	05-21-04	05-24-04
X04559	XG.2004.899.5	85-68-7	Butylbenzylphthalate	ND	ug / L	10	1		05-21-04	05-24-04
X04559	XG.2004.899.11	218-01-9	Chrysene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	53-70-3	Dibenz(a,h)anthracene	ND	ug / L	1	1		05-21-04	05-24-04

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 BA22 0016 DMLN**
Order: **0405465 LOS17** Receipt: **05-20-04**

Sample: ***04SWRC493*** Collected: *05-18-04 14:30:00* By: *DR*
Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0405465-02A		**SW846 3510B/8270C SVOCs by GC/MS**					By:	DS		
X04559	XG.2004.899.11	132-64-9	Dibenzofuran	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.5	84-66-2	Diethylphthalate	ND	ug / L	10	1		05-21-04	05-24-04
X04559	XG.2004.899.11	131-11-3	Dimethylphthalate	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.5	84-74-2	di-n-Butylphthalate	ND	ug / L	10	1		05-21-04	05-24-04
X04559	XG.2004.899.5	117-84-0	di-n-Octylphthalate	30	ug / L	10	1	B	05-21-04	05-24-04
X04559	XG.2004.899.11	206-44-0	Fluoranthene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	86737	Fluorene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	118-74-1	Hexachlorobenzene	ND	ug / L	1	10		05-21-04	05-24-04
X04559	XG.2004.899.11	87-68-3	Hexachlorobutadiene	ND	ug / L	1	10		05-21-04	05-24-04
X04559	XG.2004.899.11	77-47-4	Hexachlorocyclopentadiene	ND	ug / L	1	10		05-21-04	05-24-04
X04559	XG.2004.899.11	67-72-1	Hexachloroethane	ND	ug / L	1	5		05-21-04	05-24-04
X04559	XG.2004.899.11	193-39-5	Indeno(1,2,3-cd)pyrene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	78-59-1	Isophorone	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	91-20-3	Naphthalene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	98-95-3	Nitrobenzene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	62-75-9	n-Nitroso-dimethyl-amine	ND	ug / L	1	10		05-21-04	05-24-04
X04559	XG.2004.899.11	621-64-7	n-Nitroso-di-n-propylamine	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	86-30-6	n-Nitrosodiphenylamine	3.1	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	87-86-5	Pentachlorophenol	ND	ug / L	1	10		05-21-04	05-24-04
X04559	XG.2004.899.11	85-01-8	Phenanthrene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	108-95-2	Phenol	56	ug / L	1	10		05-21-04	05-24-04
X04559	XG.2004.899.11	129-00-0	Pyrene	ND	ug / L	1	1		05-21-04	05-24-04
X04559	XG.2004.899.11	110-86-1	Pyridine	ND	ug / L	1	10		05-21-04	05-24-04

Sample: ***04SWRC494*** Collected: *05-18-04 14:30:00* By: *DR*
Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0405465-03B		**SW846 1311/3010A/6010B ICP TCLP**					By:	KDW		
M04795	MT.2004.985.77	7440-38-2	Arsenic	ND	mg / L	1	0.2		05-25-04	05-26-04
M04795	MT.2004.1002.26	7440-39-3	Barium	66.4	mg / L	10	0.2		05-25-04	05-28-04
M04795	MT.2004.1002.26	7440-43-9	Cadmium	ND	mg / L	10	0.02		05-25-04	05-28-04
M04795	MT.2004.985.77	7440-47-3	Chromium	0.05	mg / L	1	0.02		05-25-04	05-26-04
M04795	MT.2004.985.77	7439-92-1	Lead	ND	mg / L	1	0.1		05-25-04	05-26-04
M04795	MT.2004.985.77	7782-49-2	Selenium	ND	mg / L	1	0.05		05-25-04	05-26-04
0405465-03B		**SW846 1311/3010A/7000 series AA-FL TCLP**					By:	KDW		
M04795	MT.2004.969.92	7440-22-4	Silver	ND	mg / L	1	0.01		05-25-04	05-26-04
0405465-03B		**SW846 1311/7470A CVAA TCLP**					By:	BJM		
M04820	MT.2004.1027.67	7439-97-6	Mercury	0.0009	mg / L	1	0.0002		06-01-04	06-01-04

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**

Project: **7D44 BA22 0016 DMLN**

Order: **0405465** **LOS17** Receipt: **05-20-04**

Sample: ***04SWRC495*** Collected: *05-18-04 14:30:00* By: *DR*

Matrix: ***H2O***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0405465-04A		**SW846 8330 Explosives by HPLC**						By: W/JWB		
X04583	XG.2004.958.8	99-35-4	1,3,5-Trinitrobenzene	ND	ug / L	3	0.25	1, 2	05-25-04	05-25-04
X04583	XG.2004.958.8	99-65-0	1,3-Dinitrobenzene	ND	ug / L	3	0.25	1, 2	05-25-04	05-25-04
X04583	XG.2004.958.8	118-96-7	2,4,6-Trinitrotoluene	ND	ug / L	3	0.25	1, 2	05-25-04	05-25-04
X04583	XG.2004.958.8	121-14-2	2,4-Dinitrotoluene	ND	ug / L	3	0.25	1, 2	05-25-04	05-25-04
X04583	XG.2004.958.8	606-20-2	2,6-Dinitrotoluene	ND	ug / L	3	0.25	1, 2	05-25-04	05-25-04
X04583	XG.2004.958.8	355-72-78-2	2-Amino-4,6-Dinitrotoluene	ND	ug / L	3	0.25	1, 2	05-25-04	05-25-04
X04583	XG.2004.958.8	88-72-2	2-Nitrotoluene	ND	ug / L	3	0.25	1, 2	05-25-04	05-25-04
X04583	XG.2004.958.8	99-08-1	3-Nitrotoluene	ND	ug / L	3	0.25	1, 2	05-25-04	05-25-04
X04583	XG.2004.958.8	1946-51-0	4-Amino-2,6-Dinitrotoluene	ND	ug / L	3	0.25	1, 2	05-25-04	05-25-04
X04583	XG.2004.958.8	99-99-0	4-Nitrotoluene	ND	ug / L	3	0.25	1, 2	05-25-04	05-25-04
X04583	XG.2004.956.6	2691-41-0	HMX	490	ug / L	254	0.25	1, 2	05-25-04	05-29-04
X04583	XG.2004.958.8	98-95-3	Nitrobenzene	ND	ug / L	3	0.25	1, 2	05-25-04	05-25-04
X04583	XG.2004.956.6	121-82-4	RDX	360	ug / L	254	0.25	1, 2	05-25-04	05-29-04
X04583	XG.2004.958.8	479-45-8	Tetryl	ND	ug / L	3	0.25	1, 2	05-25-04	05-25-04

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or foonotes will appear below.

1 The surrogate recovery was outside of QC criteria, suggesting matrix interference problems. This should be taken into account when reviewing the data.

2 This sample was utilized for the matrix spike and duplicate. Please note that several recoveries were outside of QC criteria, suggesting matrix interference problems. This should be taken into account when reviewing the data.

Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 BA22 0016 DMLN**
Order: **0405465 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: ***LCS: Lab Control Spike*** Matrix: ***TCLP***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
M04795		**SW846 1311/3010A/6010B ICP TCLP**						**M04795-003**	
MT.2004.985.65	7440-38-2	Arsenic	90	% Recovery	80 - 120	1	NA		05-26-04
MT.2004.985.65	7440-39-3	Barium	107	% Recovery	87 - 116	1	NA		05-26-04
MT.2004.1002.14	7440-43-9	Cadmium	93	% Recovery	92 - 117	1	NA		05-28-04
MT.2004.985.65	7440-47-3	Chromium	91	% Recovery	88 - 114	1	NA		05-26-04
MT.2004.985.65	7439-92-1	Lead	96	% Recovery	88 - 119	1	NA		05-26-04
MT.2004.985.65	7782-49-2	Selenium	105	% Recovery	93 - 120	1	NA		05-26-04
M04795		**SW846 1311/3010A/7000 series AA-FL TCLP**						**M04795-003**	
MT.2004.969.80	7440-22-4	Silver	96	% Recovery	80 - 120	1	NA		05-26-04
M04820		**SW846 1311/7470A CVAA TCLP**						**M04820-002**	
MT.2004.1027.12	7439-97-6	Mercury	82	% Recovery	80 - 120	1	NA		06-01-04

Type: ***LCS: Lab Control Spike*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04559		**SW846 3510B/8270C SVOCs by GC/MS**						**X04559-002**	
XG.2004.899.3	120-82-1	1,2,4-Trichlorobenzene	58	% Recovery	47 - 101	1	NA		05-24-04
XG.2004.899.3	106-46-7	1,4-Dichlorobenzene	53	% Recovery	42 - 95	1	NA		05-24-04
XG.2004.899.3	121-14-2	2,4-Dinitrotoluene	90	% Recovery	71 - 117	1	NA		05-24-04
XG.2004.899.3	95-57-8	2-Chlorophenol	70	% Recovery	68 - 109	1	NA		05-24-04
XG.2004.899.3	59-50-7	4-Chloro-3-methylphenol	74	% Recovery	66 - 116	1	NA		05-24-04
XG.2004.899.3	100-02-7	4-Nitrophenol	41	% Recovery	12 - 56	1	NA		05-24-04
XG.2004.899.3	83-32-9	Acenaphthene	72	% Recovery	70 - 117	1	NA		05-24-04
XG.2004.899.3	117-84-0	di-n-Octylphthalate	81	% Recovery	68 - 135	1	NA		05-24-04
XG.2004.899.3	621-64-7	n-Nitroso-di-n-propylamine	93	% Recovery	64 - 114	1	NA		05-24-04
XG.2004.899.3	87-86-5	Pentachlorophenol	72	% Recovery	49 - 130	1	NA		05-24-04
XG.2004.899.3	108-95-2	Phenol	41	% Recovery	17 - 56	1	NA		05-24-04
XG.2004.899.3	129-00-0	Pyrene	81	% Recovery	78 - 126	1	NA		05-24-04
X04625		**SW846 8260B Purgeable VOCs by GC/MS**						**X04625-002**	
XG.2004.968.5	75-35-4	1,1 Dichloroethene	87	% Recovery	61 - 145	1	NA		06-01-04
XG.2004.968.5	106-46-7	1,4 Dichlorobenzene	86	% Recovery	75 - 130	1	NA		06-01-04
XG.2004.968.5	71-43-2	Benzene	91	% Recovery	76 - 127	1	NA		06-01-04
XG.2004.968.5	108-90-7	Chlorobenzene	91	% Recovery	75 - 130	1	NA		06-01-04
XG.2004.968.5	108-88-3	Toluene	90	% Recovery	76 - 125	1	NA		06-01-04
XG.2004.968.5	79-01-6	Trichloroethene	89	% Recovery	71 - 120	1	NA		06-01-04
X04583		**SW846 8330 Explosives by HPLC**						**X04583-002**	
XG.2004.958.7	99-35-4	1,3,5-Trinitrobenzene	100	% Recovery	77 - 115	1	NA		05-25-04
XG.2004.958.7	99-65-0	1,3-Dinitrobenzene	89	% Recovery	80 - 101	1	NA		05-25-04
XG.2004.958.7	118-96-7	2,4,6-Trinitrotoluene	96	% Recovery	87 - 113	1	NA		05-25-04
XG.2004.958.7	121-14-2	2,4-Dinitrotoluene	98	% Recovery	92 - 116	1	NA		05-25-04
XG.2004.958.7	606-20-2	2,6-Dinitrotoluene	84	% Recovery	70 - 100	1	NA		05-25-04
XG.2004.958.7	355-72-78-2	2-Amino-4,6-Dinitrotoluene	90	% Recovery	87 - 108	1	NA		05-25-04

Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 BA22 0016 DMLN**
Order: **0405465 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: ***LCS: Lab Control Spike*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04583		**SW846 8330 Explosives by HPLC**						**X04583-002**	
XG.2004.958.7	88-72-2	2-Nitrotoluene	90	% Recovery	74 - 103	1	NA		05-25-04
XG.2004.958.7	99-08-1	3-Nitrotoluene	90	% Recovery	77 - 103	1	NA		05-25-04
XG.2004.958.7	1946-51-0	4-Amino-2,6-Dinitrotoluene	93	% Recovery	84 - 106	1	NA		05-25-04
XG.2004.958.7	99-99-0	4-Nitrotoluene	92	% Recovery	79 - 103	1	NA		05-25-04
XG.2004.958.7	2691-41-0	HMX	89	% Recovery	80 - 103	1	NA		05-25-04
XG.2004.958.7	98-95-3	Nitrobenzene	84	% Recovery	68 - 97	1	NA		05-25-04
XG.2004.958.7	121-82-4	RDX	84	% Recovery	77 - 96	1	NA		05-25-04
XG.2004.958.7	479-45-8	Tetryl	124	% Recovery	68 - 131	1	NA		05-25-04

Type: ***MB: Method Blank*** Matrix: ***TCLP***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
M04795		**SW846 1311/3010A/6010B ICP TCLP**						**M04795-001**	
MT.2004.985.63	7440-38-2	Arsenic	ND	mg / L		1	0.2		05-26-04
MT.2004.985.63	7440-39-3	Barium	ND	mg / L		1	0.2		05-26-04
MT.2004.1002.12	7440-43-9	Cadmium	ND	mg / L		1	0.02		05-28-04
MT.2004.985.63	7440-47-3	Chromium	ND	mg / L		1	0.02		05-26-04
MT.2004.985.63	7439-92-1	Lead	ND	mg / L		1	0.1		05-26-04
MT.2004.985.63	7782-49-2	Selenium	ND	mg / L		1	0.05		05-26-04
M04795		**SW846 1311/3010A/6010B ICP TCLP**						**M04795-002**	
MT.2004.985.64	7440-38-2	Arsenic	ND	mg / L		1	0.2		05-26-04
MT.2004.985.64	7440-39-3	Barium	ND	mg / L		1	0.2		05-26-04
MT.2004.1002.13	7440-43-9	Cadmium	ND	mg / L		1	0.02		05-28-04
MT.2004.985.64	7440-47-3	Chromium	ND	mg / L		1	0.02		05-28-04
MT.2004.985.64	7439-92-1	Lead	ND	mg / L		1	0.1		05-26-04
MT.2004.985.64	7782-49-2	Selenium	ND	mg / L		1	0.05		05-26-04
M04795		**SW846 1311/3010A/6010B ICP TCLP**						**M04795-011**	
MT.2004.985.75	7440-38-2	Arsenic	ND	mg / L		1	0.2		05-26-04
MT.2004.985.75	7440-39-3	Barium	ND	mg / L		1	0.2		05-26-04
MT.2004.1002.24	7440-43-9	Cadmium	ND	mg / L		1	0.02		05-28-04
MT.2004.985.75	7440-47-3	Chromium	ND	mg / L		1	0.02		05-26-04
MT.2004.985.75	7439-92-1	Lead	ND	mg / L		1	0.1		05-26-04
MT.2004.985.75	7782-49-2	Selenium	ND	mg / L		1	0.05		05-26-04
M04795		**SW846 1311/3010A/7000 series AA-FL TCLP**						**M04795-001**	
MT.2004.969.78	7440-22-4	Silver	ND	mg / L		1	0.01		05-26-04
M04795		**SW846 1311/3010A/7000 series AA-FL TCLP**						**M04795-002**	
MT.2004.969.79	7440-22-4	Silver	ND	mg / L		1	0.01		05-26-04
M04795		**SW846 1311/3010A/7000 series AA-FL TCLP**						**M04795-011**	
MT.2004.969.90	7440-22-4	Silver	ND	mg / L		1	0.01		05-26-04

Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 BA22 0016 DMLN**
Order: **0405465 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: ***MB: Method Blank*** Matrix: ***TCLP***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
M04820		**SW846 1311/7470A CVAA TCLP**						**M04820-001**	
MT.2004.1027.11	7439-97-6	Mercury	ND	mg / L		1	0.0002		06-01-04

Type: ***MB: Method Blank*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04559		**SW846 3510B/8270C SVOCs by GC/MS**						**X04559-001**	
XG.2004.899.2	120-82-1	1,2,4-Trichlorobenzene	1.5	ug / L		1	1		05-24-04
XG.2004.899.2	95-50-1	1,2-Dichlorobenzene	ND	ug / L		1	1		05-24-04
XG.2004.899.2	541-73-1	1,3-Dichlorobenzene	ND	ug / L		1	1		05-24-04
XG.2004.899.2	106-46-7	1,4-Dichlorobenzene	ND	ug / L		1	1		05-24-04
XG.2004.899.2	90-12-0	1-Methylnaphthalene	ND	ug / L		1	1		05-24-04
XG.2004.899.2	58-90-2	2,3,4,6-Tetrachlorophenol	ND	ug / L		1	5		05-24-04
XG.2004.899.2	95-95-4	2,4,5-Trichlorophenol	ND	ug / L		1	5		05-24-04
XG.2004.899.2	88-06-2	2,4,6-Trichlorophenol	ND	ug / L		1	5		05-24-04
XG.2004.899.2	120-83-2	2,4-Dichlorophenol	ND	ug / L		1	5		05-24-04
XG.2004.899.2	105-67-9	2,4-Dimethylphenol	ND	ug / L		1	0.2		05-24-04
XG.2004.899.2	51-28-5	2,4-Dinitrophenol	ND	ug / L		1	10		05-24-04
XG.2004.899.2	121-14-2	2,4-Dinitrotoluene	ND	ug / L		1	5		05-24-04
XG.2004.899.2	606-20-2	2,6-Dinitrotoluene	ND	ug / L		1	5		05-24-04
XG.2004.899.2	91-58-7	2-Chloronaphthalene	ND	ug / L		1	1		05-24-04
XG.2004.899.2	95-57-8	2-Chlorophenol	ND	ug / L		1	1		05-24-04
XG.2004.899.2	91-57-6	2-Methylnaphthalene	ND	ug / L		1	1		05-24-04
XG.2004.899.2	95-48-7	2-Methylphenol	ND	ug / L		1	1		05-24-04
XG.2004.899.2	88-74-4	2-Nitroaniline	ND	ug / L		1	5		05-24-04
XG.2004.899.2	88-75-5	2-Nitrophenol	ND	ug / L		1	5		05-24-04
XG.2004.899.2	91-94-1	3,3-Dichlorobenzidine	ND	ug / L		1	10		05-24-04
XG.2004.899.2		3+4 Methylphenol	ND	ug / L		1	1		05-24-04
XG.2004.899.2	99-09-2	3-Nitroaniline	ND	ug / L		1	5		05-24-04
XG.2004.899.2	534-52-1	4,6-Dinitro-2-methylphenol	ND	ug / L		1	10		05-24-04
XG.2004.899.2	101-55-3	4-Bromophenyl-phenylether	ND	ug / L		1	1		05-24-04
XG.2004.899.2	59-50-7	4-Chloro-3-methylphenol	ND	ug / L		1	5		05-24-04
XG.2004.899.2	106-47-8	4-Chloroaniline	ND	ug / L		1	5		05-24-04
XG.2004.899.2	7005-72-3	4-Chlorophenyl-phenylether	ND	ug / L		1	1		05-24-04
XG.2004.899.2	100-01-6	4-Nitroaniline	ND	ug / L		1	5		05-24-04
XG.2004.899.2	100-02-7	4-Nitrophenol	ND	ug / L		1	10		05-24-04
XG.2004.899.2	83-32-9	Acenaphthene	ND	ug / L		1	1		05-24-04
XG.2004.899.2	208-96-8	Acenaphthylene	ND	ug / L		1	1		05-24-04
XG.2004.899.2	62-53-3	Aniline	ND	ug / L		1	10		05-24-04
XG.2004.899.2	120-12-7	Anthracene	ND	ug / L		1	1		05-24-04
XG.2004.899.2		Azobenzene&1,2-Diphenylhydrazine	ND	ug / L		1	1		05-24-04
XG.2004.899.2	56-55-3	Benzo (a) anthracene	ND	ug / L		1	1		05-24-04
XG.2004.899.2	50-32-8	Benzo(a)pyrene	ND	ug / L		1	1		05-24-04

Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
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Order: **0405465 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: ***MB: Method Blank*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04559		**SW846 3510B/8270C SVOCs by GC/MS**						**X04559-001**	
XG.2004.899.2		Benzo(b & k)fluoranthene	ND	ug / L		1	1		05-24-04
XG.2004.899.2	191-24-2	Benzo(g,h,i)perylene	ND	ug / L		1	1		05-24-04
XG.2004.899.2	64-85-0	Benzoic acid	ND	ug / L		1	25		05-24-04
XG.2004.899.2	100-51-6	Benzyl alcohol	ND	ug / L		1	5		05-24-04
XG.2004.899.2	111-44-4	bis (2-Chloroethyl) ether	ND	ug / L		1	1		05-24-04
XG.2004.899.2	111-91-1	bis(2-Chloroethoxy)methane	ND	ug / L		1	1		05-24-04
XG.2004.899.2	108-60-1	bis(2-Chloroisopropyl)ether	ND	ug / L		1	1		05-24-04
XG.2004.899.2	117-81-7	bis(2-Ethylhexyl)phthalate	110	ug / L		1	5		05-24-04
XG.2004.899.2	85-68-7	Butylbenzylphthalate	2.2	ug / L		1	1		05-24-04
XG.2004.899.2	218-01-9	Chrysene	ND	ug / L		1	1		05-24-04
XG.2004.899.2	53-70-3	Dibenz(a,h)anthracene	ND	ug / L		1	1		05-24-04
XG.2004.899.2	132-64-9	Dibenzofuran	ND	ug / L		1	1		05-24-04
XG.2004.899.2	84-66-2	Diethylphthalate	ND	ug / L		1	1		05-24-04
XG.2004.899.2	131-11-3	Dimethylphthalate	ND	ug / L		1	1		05-24-04
XG.2004.899.2	84-74-2	di-n-Butylphthalate	1.9	ug / L		1	1		05-24-04
XG.2004.899.2	117-84-0	di-n-Octylphthalate	9.3	ug / L		1	1		05-24-04
XG.2004.899.2	206-44-0	Fluoranthene	ND	ug / L		1	1		05-24-04
XG.2004.899.2	86737	Fluorene	ND	ug / L		1	1		05-24-04
XG.2004.899.2	118-74-1	Hexachlorobenzene	ND	ug / L		1	10		05-24-04
XG.2004.899.2	87-68-3	Hexachlorobutadiene	ND	ug / L		1	10		05-24-04
XG.2004.899.2	77-47-4	Hexachlorocyclopentadiene	ND	ug / L		1	10		05-24-04
XG.2004.899.2	67-72-1	Hexachloroethane	ND	ug / L		1	5		05-24-04
XG.2004.899.2	193-39-5	Indeno(1,2,3-cd)pyrene	ND	ug / L		1	1		05-24-04
XG.2004.899.2	78-59-1	Isophorone	ND	ug / L		1	1		05-24-04
XG.2004.899.2	91-20-3	Naphthalene	ND	ug / L		1	1		05-24-04
XG.2004.899.2	98-95-3	Nitrobenzene	ND	ug / L		1	1		05-24-04
XG.2004.899.2	62-75-9	n-Nitroso-dimethyl-amine	ND	ug / L		1	10		05-24-04
XG.2004.899.2	621-64-7	n-Nitroso-di-n-propylamine	ND	ug / L		1	1		05-24-04
XG.2004.899.2	86-30-6	n-Nitrosodiphenylamine	ND	ug / L		1	1		05-24-04
XG.2004.899.2	87-86-5	Pentachlorophenol	ND	ug / L		1	10		05-24-04
XG.2004.899.2	85-01-8	Phenanthrene	ND	ug / L		1	1		05-24-04
XG.2004.899.2	108-95-2	Phenol	ND	ug / L		1	10		05-24-04
XG.2004.899.2	129-00-0	Pyrene	ND	ug / L		1	1		05-24-04
X04625		**SW846 8260B Purgeable VOCs by GC/MS**						**X04625-001**	
XG.2004.968.4	75-34-3	1,1 Dichloroethane	ND	ug / L		1	1		06-01-04
XG.2004.968.4	75-35-4	1,1 Dichloroethene	ND	ug / L		1	1		06-01-04
XG.2004.968.4	71-55-6	1,1,1 Trichloroethane	ND	ug / L		1	1		06-01-04
XG.2004.968.4	630-20-6	1,1,1,2 Tetrachloroethane	ND	ug / L		1	1		06-01-04
XG.2004.968.4	79-00-5	1,1,2 Trichloroethane	ND	ug / L		1	1		06-01-04
XG.2004.968.4	79-34-5	1,1,2,2 Tetrachloroethane	ND	ug / L		1	1		06-01-04
XG.2004.968.4	106-93-4	1,2 Dibromoethane (EDB)	ND	ug / L		1	1		06-01-04
XG.2004.968.4	95-50-1	1,2 Dichlorobenzene	1.2	ug / L		1	1		06-01-04
XG.2004.968.4	107-06-2	1,2 Dichloroethane (EDC)	ND	ug / L		1	1		06-01-04

Assaigai Analytical Laboratories, Inc.

Quality Control Summary

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Order: **0405465 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: ***MB: Method Blank*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04625		**SW846 8260B Purgeable VOCs by GC/MS**						**X04625-001**	
XG.2004.968.4	78-87-5	1,2 Dichloropropane	ND	ug / L		1	1		06-01-04
XG.2004.968.4	96-18-4	1,2,3 Trichloropropane	ND	ug / L		1	1		06-01-04
XG.2004.968.4	95-63-6	1,2,4-Trimethylbenzene	ND	ug / L		1	1		06-01-04
XG.2004.968.4	541-73-1	1,3 Dichlorobenzene	1.1	ug / L		1	1		06-01-04
XG.2004.968.4	108-67-8	1,3,5-Trimethylbenzene	ND	ug / L		1	1		06-01-04
XG.2004.968.4	764-41-0	1,4 Dichloro-2-butene	ND	ug / L		1	10		06-01-04
XG.2004.968.4	106-46-7	1,4 Dichlorobenzene	1.2	ug / L		1	1		06-01-04
XG.2004.968.4	78-93-3	2-Butanone (MEK)	ND	ug / L		1	5		06-01-04
XG.2004.968.4	591-78-6	2-Hexanone (MBK)	ND	ug / L		1	5		06-01-04
XG.2004.968.4	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug / L		1	5		06-01-04
XG.2004.968.4	67-64-1	Acetone	ND	ug / L		1	10		06-01-04
XG.2004.968.4	107-02-8	Acrolein	ND	ug / L		1	20		06-01-04
XG.2004.968.4	107-13-1	Acrylonitrile	ND	ug / L		1	20		06-01-04
XG.2004.968.4	71-43-2	Benzene	ND	ug / L		1	1		06-01-04
XG.2004.968.4	75-27-4	Bromodichloromethane	ND	ug / L		1	1		06-01-04
XG.2004.968.4	75-25-2	Bromoform	ND	ug / L		1	1		06-01-04
XG.2004.968.4	74-83-9	Bromomethane	ND	ug / L		1	10		06-01-04
XG.2004.968.4	75-15-0	Carbon disulfide	ND	ug / L		1	5		06-01-04
XG.2004.968.4	56-23-5	Carbon tetrachloride	ND	ug / L		1	1		06-01-04
XG.2004.968.4	108-90-7	Chlorobenzene	ND	ug / L		1	1		06-01-04
XG.2004.968.4	124-48-1	Chlorodibromomethane	ND	ug / L		1	1		06-01-04
XG.2004.968.4	75-00-3	Chloroethane	ND	ug / L		1	5		06-01-04
XG.2004.968.4	67-66-3	Chloroform	ND	ug / L		1	1		06-01-04
XG.2004.968.4	74-87-3	Chloromethane	ND	ug / L		1	5		06-01-04
XG.2004.968.4	156-59-2	cis-1,2 dichloroethene	ND	ug / L		1	1		06-01-04
XG.2004.968.4		cis-1,3 Dichloropropene	ND	ug / L		1	1		06-01-04
XG.2004.968.4	74-95-3	Dibromomethane	ND	ug / L		1	1		06-01-04
XG.2004.968.4	97-63-2	Ethyl methacrylate	ND	ug / L		1	5		06-01-04
XG.2004.968.4	100-41-4	Ethylbenzene	ND	ug / L		1	1		06-01-04
XG.2004.968.4		Freon 113	ND	ug / L		1	5		06-01-04
XG.2004.968.4	75-71-8	Freon 12	ND	ug / L		1	10		06-01-04
XG.2004.968.4	1634-04-4	Methyl t-butyl ether (MTBE)	ND	ug / L		1	1		06-01-04
XG.2004.968.4	75-09-2	Methylene chloride	ND	ug / L		1	10		06-01-04
XG.2004.968.4	91-20-3	Naphthalene	ND	ug / L		1	5		06-01-04
XG.2004.968.4	95-47-6	o-Xylene	ND	ug / L		1	1		06-01-04
XG.2004.968.4	108-38-3/106-42	p/m-Xylenes	ND	ug / L		1	2		06-01-04
XG.2004.968.4	100-42-5	Styrene	ND	ug / L		1	1		06-01-04
XG.2004.968.4	156-60-5	t-1,2 Dichloroethene	ND	ug / L		1	1		06-01-04
XG.2004.968.4	10061-02-6	t-1,3 Dichloropropene	ND	ug / L		1	1		06-01-04
XG.2004.968.4	127-18-4	Tetrachloroethene (PCE)	ND	ug / L		1	1		06-01-04
XG.2004.968.4	108-88-3	Toluene	ND	ug / L		1	1		06-01-04
XG.2004.968.4	79-01-6	Trichloroethene	ND	ug / L		1	1		06-01-04
XG.2004.968.4	75-69-4	Trichlorofluoromethane	ND	ug / L		1	5		06-01-04

Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 BA22 0016 DMLN**
Order: **0405465 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: ***MB: Method Blank*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04625		**SW846 8260B Purgeable VOCs by GC/MS**						**X04625-001**	
XG.2004.968.4	108-05-4	Vinyl acetate	ND	ug / L		1	5		06-01-04
XG.2004.968.4	75-01-4	Vinyl chloride	ND	ug / L		1	5		06-01-04
X04583		**SW846 8330 Explosives by HPLC**						**X04583-001**	
XG.2004.958.6	99-35-4	1,3,5-Trinitrobenzene	ND	ug / L		1	0.25		05-25-04
XG.2004.958.6	99-65-0	1,3-Dinitrobenzene	ND	ug / L		1	0.25		05-25-04
XG.2004.958.6	118-96-7	2,4,6-Trinitrotoluene	ND	ug / L		1	0.25		05-25-04
XG.2004.958.6	121-14-2	2,4-Dinitrotoluene	ND	ug / L		1	0.25		05-25-04
XG.2004.958.6	606-20-2	2,6-Dinitrotoluene	ND	ug / L		1	0.25		05-25-04
XG.2004.958.6	355-72-78-2	2-Amino-4,6-Dinitrotoluene	ND	ug / L		1	0.25		05-25-04
XG.2004.958.6	88-72-2	2-Nitrotoluene	ND	ug / L		1	0.25		05-25-04
XG.2004.958.6	99-08-1	3-Nitrotoluene	ND	ug / L		1	0.25		05-25-04
XG.2004.958.6	1946-51-0	4-Amino-2,6-Dinitrotoluene	ND	ug / L		1	0.25		05-25-04
XG.2004.958.6	99-99-0	4-Nitrotoluene	ND	ug / L		1	0.25		05-25-04
XG.2004.958.6	2691-41-0	HMX	ND	ug / L		1	0.25		05-25-04
XG.2004.958.6	98-95-3	Nitrobenzene	ND	ug / L		1	0.25		05-25-04
XG.2004.958.6	121-82-4	RDX	ND	ug / L		1	0.25		05-25-04
XG.2004.958.6	479-45-8	Tetryl	ND	ug / L		1	0.25		05-25-04

Type: ***MD: Matrix Duplicate*** Matrix: ***TCLP***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
M04795		**SW846 1311/3010A/6010B ICP TCLP**						**M04795-007**	
MT.2004.985.69	7440-38-2	Arsenic	NA	RPD	0 - 20	1	NA		05-26-04
MT.2004.985.69	7440-39-3	Barium	30	RPD	0 - 20	1	NA		05-26-04
MT.2004.1002.18	7440-43-9	Cadmium	33	RPD	0 - 20	1	NA		05-28-04
MT.2004.985.69	7440-47-3	Chromium	158	RPD	0 - 20	1	NA		05-26-04
MT.2004.985.69	7439-92-1	Lead	36	RPD	0 - 20	1	NA		05-26-04
MT.2004.985.69	7782-49-2	Selenium	45	RPD	0 - 20	1	NA		05-26-04
M04795		**SW846 1311/3010A/7000 series AA-FL TCLP**						**M04795-007**	
MT.2004.969.84	7440-22-4	Silver	NA	RPD	0 - 20	1	NA		05-26-04

Type: ***MS: Matrix Spike*** Matrix: ***TCLP***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
M04795		**SW846 1311/3010A/6010B ICP TCLP**						**M04795-005**	
MT.2004.985.67	7440-38-2	Arsenic	79	% Recovery	75 - 124	1	NA		05-26-04
MT.2004.985.67	7440-39-3	Barium	108	% Recovery	87 - 116	1	NA		05-26-04
MT.2004.1002.16	7440-43-9	Cadmium	96	% Recovery	92 - 117	1	NA		05-28-04
MT.2004.985.67	7440-47-3	Chromium	96	% Recovery	88 - 114	1	NA		05-26-04
MT.2004.985.67	7439-92-1	Lead	98	% Recovery	88 - 119	1	NA		05-26-04

Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 BA22 0016 DMLN**
Order: **0405465 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: ***MS: Matrix Spike*** Matrix: ***TCLP***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
M04795		**SW846 1311/3010A/6010B ICP TCLP**						**M04795-005**	
MT.2004.985.67	7782-49-2	Selenium	104	% Recovery	93 - 121	1	NA		05-26-04
M04795		**SW846 1311/3010A/7000 series AA-FL TCLP**						**M04795-005**	
MT.2004.969.82	7440-22-4	Silver	92	% Recovery	80 - 120	1	NA		05-26-04
M04820		**SW846 1311/7470A CVAA TCLP**						**M04820-004**	
MT.2004.1027.65	7439-97-6	Mercury	97	% Recovery	80 - 120	1	NA		06-01-04

Type: ***MS: Matrix Spike*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04559		**SW846 3510B/8270C SVOCs by GC/MS**						**X04559-004**	
XG.2004.899.9	120-82-1	1,2,4-Trichlorobenzene	61	% Recovery	47 - 101	2	NA		05-24-04
XG.2004.899.9	106-46-7	1,4-Dichlorobenzene	59	% Recovery	42 - 95	2	NA		05-24-04
XG.2004.899.9	121-14-2	2,4-Dinitrotoluene	86	% Recovery	71 - 117	2	NA		05-24-04
XG.2004.899.9	95-57-8	2-Chlorophenol	60	% Recovery	68 - 109	2	NA		05-24-04
XG.2004.899.9	59-50-7	4-Chloro-3-methylphenol	66	% Recovery	66 - 116	2	NA		05-24-04
XG.2004.899.9	100-02-7	4-Nitrophenol	37	% Recovery	12 - 56	2	NA		05-24-04
XG.2004.899.9	83-32-9	Acenaphthene	74	% Recovery	70 - 117	2	NA		05-24-04
XG.2004.899.6	117-84-0	di-n-Octylphthalate	58	% Recovery	68 - 135	21	NA		05-24-04
XG.2004.899.9	621-64-7	n-Nitroso-di-n-propylamine	88	% Recovery	64 - 114	2	NA		05-24-04
XG.2004.899.9	87-86-5	Pentachlorophenol	65	% Recovery	49 - 130	2	NA		05-24-04
XG.2004.899.9	108-95-2	Phenol	40	% Recovery	17 - 56	2	NA		05-24-04
XG.2004.899.9	129-00-0	Pyrene	70	% Recovery	78 - 126	2	NA		05-24-04
X04625		**SW846 8260B Purgeable VOCs by GC/MS**						**X04625-012**	
XG.2004.968.15	75-35-4	1,1 Dichloroethene	95	% Recovery	61 - 145	1	NA		06-01-04
XG.2004.968.15	106-46-7	1,4 Dichlorobenzene	89	% Recovery	75 - 130	1	NA		06-01-04
XG.2004.968.15	71-43-2	Benzene	95	% Recovery	76 - 127	1	NA		06-01-04
XG.2004.968.15	108-90-7	Chlorobenzene	96	% Recovery	75 - 130	1	NA		06-01-04
XG.2004.968.15	108-88-3	Toluene	98	% Recovery	76 - 125	1	NA		06-01-04
XG.2004.968.15	79-01-6	Trichloroethene	93	% Recovery	71 - 120	1	NA		06-01-04
X04583		**SW846 8330 Explosives by HPLC**						**X04583-004**	
XG.2004.958.9	99-35-4	1,3,5-Trinitrobenzene	71	% Recovery	77 - 115	2	NA		05-25-04
XG.2004.958.9	99-65-0	1,3-Dinitrobenzene	60	% Recovery	80 - 101	2	NA		05-25-04
XG.2004.958.9	118-96-7	2,4,6-Trinitrotoluene	72	% Recovery	87 - 113	2	NA		05-25-04
XG.2004.958.9	121-14-2	2,4-Dinitrotoluene	85	% Recovery	92 - 116	2	NA		05-25-04
XG.2004.958.9	606-20-2	2,6-Dinitrotoluene	71	% Recovery	70 - 100	2	NA		05-25-04
XG.2004.958.9	355-72-78-2	2-Amino-4,6-Dinitrotoluene	71	% Recovery	87 - 108	2	NA		05-25-04
XG.2004.958.9	88-72-2	2-Nitrotoluene	71	% Recovery	74 - 103	2	NA		05-25-04
XG.2004.958.9	99-08-1	3-Nitrotoluene	70	% Recovery	77 - 103	2	NA		05-25-04
XG.2004.958.9	1946-51-0	4-Amino-2,6-Dinitrotoluene	73	% Recovery	84 - 106	2	NA		05-25-04
XG.2004.958.9	99-99-0	4-Nitrotoluene	66	% Recovery	79 - 103	2	NA		05-25-04
XG.2004.958.9	98-95-3	Nitrobenzene	91	% Recovery	68 - 97	2	NA		05-25-04

Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 BA22 0016 DMLN**
Order: **0405465 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: ***MS: Matrix Spike*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04583		**SW846 8330 Explosives by HPLC**						**X04583-004**	
XG.2004.958.9	479-45-8	Tetryl	87	% Recovery	68 - 131	2	NA		05-25-04

Type: ***MSD: Matrix Spike Duplicate Precision*** Matrix: ***TCLP***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
M04795		**SW846 1311/3010A/6010B ICP TCLP**						**M04795-006**	
MT.2004.985.68	7440-38-2	Arsenic	2	RPD	0 - 20	1	NA		05-26-04
MT.2004.985.68	7440-39-3	Barium	< 1	RPD	0 - 20	1	NA		05-26-04
MT.2004.1002.17	7440-43-9	Cadmium	< 1	RPD	0 - 20	1	NA		05-28-04
MT.2004.985.68	7440-47-3	Chromium	< 1	RPD	0 - 20	1	NA		05-26-04
MT.2004.985.68	7439-92-1	Lead	< 1	RPD	0 - 20	1	NA		05-26-04
MT.2004.985.68	7782-49-2	Selenium	< 1	RPD	0 - 20	1	NA		05-26-04
M04795		**SW846 1311/3010A/7000 series AA-FL TCLP**						**M04795-006**	
MT.2004.969.83	7440-22-4	Silver	< 1	RPD	0 - 20	1	NA		05-26-04
M04820		**SW846 1311/7470A CVAA TCLP**						**M04820-005**	
MT.2004.1027.66	7439-97-6	Mercury	< 1	RPD	0 - 20	1	NA		06-01-04

Type: ***MSD: Matrix Spike Duplicate Precision*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04559		**SW846 3510B/8270C SVOCs by GC/MS**						**X04559-005**	
XG.2004.899.10	120-82-1	1,2,4-Trichlorobenzene	9	RPD	0 - 28	2	NA		05-24-04
XG.2004.899.10	106-46-7	1,4-Dichlorobenzene	6	RPD	0 - 28	2	NA		05-24-04
XG.2004.899.10	121-14-2	2,4-Dinitrotoluene	2	RPD	0 - 38	2	NA		05-24-04
XG.2004.899.10	95-57-8	2-Chlorophenol	12	RPD	0 - 40	2	NA		05-24-04
XG.2004.899.10	59-50-7	4-Chloro-3-methylphenol	14	RPD	0 - 42	2	NA		05-24-04
XG.2004.899.10	100-02-7	4-Nitrophenol	< 1	RPD	0 - 50	2	NA		05-24-04
XG.2004.899.10	83-32-9	Acenaphthene	6	RPD	0 - 31	2	NA		05-24-04
XG.2004.899.7	117-84-0	di-n-Octylphthalate	15	RPD	0 - 20	21	NA		05-24-04
XG.2004.899.10	621-64-7	n-Nitroso-di-n-propylamine	7	RPD	0 - 38	2	NA		05-24-04
XG.2004.899.10	87-86-5	Pentachlorophenol	12	RPD	0 - 50	2	NA		05-24-04
XG.2004.899.10	108-95-2	Phenol	5	RPD	0 - 42	2	NA		05-24-04
XG.2004.899.10	129-00-0	Pyrene	12	RPD	0 - 31	2	NA		05-24-04
X04625		**SW846 8260B Purgeable VOCs by GC/MS**						**X04625-013**	
XG.2004.968.16	75-35-4	1,1 Dichloroethene	3	RPD	0 - 14	1	NA		06-01-04
XG.2004.968.16	106-46-7	1,4 Dichlorobenzene	< 1	RPD	0 - 11	1	NA		06-01-04
XG.2004.968.16	71-43-2	Benzene	3	RPD	0 - 13	1	NA		06-01-04
XG.2004.968.16	108-90-7	Chlorobenzene	4	RPD	0 - 11	1	NA		06-01-04
XG.2004.968.16	108-88-3	Toluene	5	RPD	0 - 13	1	NA		06-01-04
XG.2004.968.16	79-01-6	Trichloroethene	2	RPD	0 - 14	1	NA		06-01-04

Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 BA22 0016 DMLN**
Order: **0405465 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: ***MSD: Matrix Spike Duplicate Precision*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04583		**SW846 8330 Explosives by HPLC**						**X04583-005**	
XG.2004.958.10	99-35-4	1,3,5-Trinitrobenzene	114	RPD	0 - 17	1	NA		05-25-04
XG.2004.958.10	99-65-0	1,3-Dinitrobenzene	119	RPD	0 - 14	1	NA		05-25-04
XG.2004.958.10	118-96-7	2,4,6-Trinitrotoluene	122	RPD	0 - 12	1	NA		05-25-04
XG.2004.958.10	121-14-2	2,4-Dinitrotoluene	120	RPD	0 - 12	1	NA		05-25-04
XG.2004.958.10	606-20-2	2,6-Dinitrotoluene	127	RPD	0 - 12	1	NA		05-25-04
XG.2004.958.10	355-72-78-2	2-Amino-4,6-Dinitrotoluene	124	RPD	0 - 16	1	NA		05-25-04
XG.2004.958.10	88-72-2	2-Nitrotoluene	122	RPD	0 - 13	1	NA		05-25-04
XG.2004.958.10	99-08-1	3-Nitrotoluene	121	RPD	0 - 12	1	NA		05-25-04
XG.2004.958.10	1946-51-0	4-Amino-2,6-Dinitrotoluene	125	RPD	0 - 14	1	NA		05-25-04
XG.2004.958.10	99-99-0	4-Nitrotoluene	121	RPD	0 - 13	1	NA		05-25-04
XG.2004.958.10	2691-41-0	HMX	122	RPD	0 - 17	1	NA		05-25-04
XG.2004.958.10	98-95-3	Nitrobenzene	128	RPD	0 - 19	1	NA		05-25-04
XG.2004.958.10	121-82-4	RDX	123	RPD	0 - 18	1	NA		05-25-04
XG.2004.958.10	479-45-8	Tetryl	117	RPD	0 - 15	1	NA		05-25-04

Type: ***MSD: Matrix Spike Duplicate Accuracy*** Matrix: ***TCLP***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
M04795		**SW846 1311/3010A/6010B ICP TCLP**						**M04795-006**	
MT.2004.985.68	7440-38-2	Arsenic	80	% Recovery	75 - 124	1	NA		05-26-04
MT.2004.985.68	7440-39-3	Barium	108	% Recovery	87 - 116	1	NA		05-26-04
MT.2004.1002.17	7440-43-9	Cadmium	96	% Recovery	92 - 117	1	NA		05-28-04
MT.2004.985.68	7440-47-3	Chromium	96	% Recovery	88 - 114	1	NA		05-26-04
MT.2004.985.68	7439-92-1	Lead	98	% Recovery	88 - 119	1	NA		05-26-04
MT.2004.985.68	7782-49-2	Selenium	104	% Recovery	93 - 121	1	NA		05-26-04
M04795		**SW846 1311/3010A/7000 series AA-FL TCLP**						**M04795-006**	
MT.2004.969.83	7440-22-4	Silver	92	% Recovery	80 - 120	1	NA		05-26-04
M04820		**SW846 1311/7470A CVAA TCLP**						**M04820-005**	
MT.2004.1027.66	7439-97-6	Mercury	96	% Recovery	80 - 120	1	NA		06-01-04

Type: ***MSD: Matrix Spike Duplicate Accuracy*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04559		**SW846 3510B/8270C SVOCs by GC/MS**						**X04559-005**	
XG.2004.899.10	120-82-1	1,2,4-Trichlorobenzene	67	% Recovery	47 - 101	2	NA		05-24-04
XG.2004.899.10	106-46-7	1,4-Dichlorobenzene	62	% Recovery	42 - 95	2	NA		05-24-04
XG.2004.899.10	121-14-2	2,4-Dinitrotoluene	84	% Recovery	71 - 117	2	NA		05-24-04
XG.2004.899.10	95-57-8	2-Chlorophenol	68	% Recovery	68 - 109	2	NA		05-24-04
XG.2004.899.10	59-50-7	4-Chloro-3-methylphenol	76	% Recovery	66 - 116	2	NA		05-24-04
XG.2004.899.10	100-02-7	4-Nitrophenol	37	% Recovery	12 - 56	2	NA		05-24-04

Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 BA22 0016 DMLN**
Order: **0405465 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Type: ***MSD: Matrix Spike Duplicate Accuracy*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04559		**SW846 3510B/8270C SVOCs by GC/MS**						**X04559-005**	
XG.2004.899.10	83-32-9	Acenaphthene	78	% Recovery	70 - 117	2	NA		05-24-04
XG.2004.899.7	117-84-0	di-n-Octylphthalate	67	% Recovery	68 - 135	21	NA		05-24-04
XG.2004.899.10	621-64-7	n-Nitroso-di-n-propylamine	95	% Recovery	64 - 114	2	NA		05-24-04
XG.2004.899.10	87-86-5	Pentachlorophenol	73	% Recovery	49 - 130	2	NA		05-24-04
XG.2004.899.10	108-95-2	Phenol	42	% Recovery	17 - 56	2	NA		05-24-04
XG.2004.899.10	129-00-0	Pyrene	79	% Recovery	78 - 126	2	NA		05-24-04
X04625		**SW846 8260B Purgeable VOCs by GC/MS**						**X04625-013**	
XG.2004.968.16	75-35-4	1,1 Dichloroethene	92	% Recovery	61 - 145	1	NA		06-01-04
XG.2004.968.16	106-46-7	1,4 Dichlorobenzene	88	% Recovery	75 - 130	1	NA		06-01-04
XG.2004.968.16	71-43-2	Benzene	92	% Recovery	76 - 127	1	NA		06-01-04
XG.2004.968.16	108-90-7	Chlorobenzene	92	% Recovery	75 - 130	1	NA		06-01-04
XG.2004.968.16	108-88-3	Toluene	92	% Recovery	76 - 125	1	NA		06-01-04
XG.2004.968.16	79-01-6	Trichloroethene	91	% Recovery	71 - 120	1	NA		06-01-04
X04583		**SW846 8330 Explosives by HPLC**						**X04583-005**	
XG.2004.958.10	99-35-4	1,3,5-Trinitrobenzene	19	% Recovery	77 - 115	1	NA		05-25-04
XG.2004.958.10	99-65-0	1,3-Dinitrobenzene	15	% Recovery	80 - 101	1	NA		05-25-04
XG.2004.958.10	118-96-7	2,4,6-Trinitrotoluene	17	% Recovery	87 - 113	1	NA		05-25-04
XG.2004.958.10	121-14-2	2,4-Dinitrotoluene	21	% Recovery	92 - 116	1	NA		05-25-04
XG.2004.958.10	606-20-2	2,6-Dinitrotoluene	16	% Recovery	70 - 100	1	NA		05-25-04
XG.2004.958.10	355-72-78-2	2-Amino-4,6-Dinitrotoluene	17	% Recovery	87 - 108	1	NA		05-25-04
XG.2004.958.10	88-72-2	2-Nitrotoluene	17	% Recovery	74 - 103	1	NA		05-25-04
XG.2004.958.10	99-08-1	3-Nitrotoluene	17	% Recovery	77 - 103	1	NA		05-25-04
XG.2004.958.10	1946-51-0	4-Amino-2,6-Dinitrotoluene	17	% Recovery	84 - 106	1	NA		05-25-04
XG.2004.958.10	99-99-0	4-Nitrotoluene	16	% Recovery	79 - 103	1	NA		05-25-04
XG.2004.958.10	2691-41-0	HMX	< 1	% Recovery	80 - 103	1	NA		05-25-04
XG.2004.958.10	98-95-3	Nitrobenzene	20	% Recovery	68 - 97	1	NA		05-25-04
XG.2004.958.10	121-82-4	RDX	< 1	% Recovery	77 - 96	1	NA		05-25-04
XG.2004.958.10	479-45-8	Tetryl	23	% Recovery	68 - 131	1	NA		05-25-04

Assaigal Analytical Laboratories, Inc.

QC Surrogate Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 BA22 0016 DMLN**
Order: **0405465 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Sample: ***0405465-01A*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04625		**8260**						**X04625-003**	
XG.2004.968.6		1,2 Dichloroethane-D4 (SS)	102	% Recovery	76 - 114	1	NA		06-01-04
XG.2004.968.6		4-Bromofluorobenzene (SS)	97	% Recovery	75 - 125	1	NA		06-01-04
XG.2004.968.6		Dibromofluoromethane (SS)	99	% Recovery	75 - 125	1	NA		06-01-04
XG.2004.968.6		Toluene-D8 (SS)	100	% Recovery	88 - 110	1	NA		06-01-04

Sample: ***0405465-02A*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04559		**8270**						**X04559-006**	
XG.2004.899.11		*2,4,6-TRIBROMOPHENOL	92	% Recovery	64 - 123	1	NA		05-24-04
XG.2004.899.11		*2-FLUOROBIPHENYL	62	% Recovery	73 - 104	1	NA		05-24-04
XG.2004.899.11		*2-FLUOROPHENOL	56	% Recovery	50 - 116	1	NA		05-24-04
XG.2004.899.11		*NITROBENZENE-D5	86	% Recovery	46 - 123	1	NA		05-24-04
XG.2004.899.11		*PHENOL-D6	40	% Recovery	24 - 52	1	NA		05-24-04
XG.2004.899.11		*TERPHENYL-D14	42	% Recovery	48 - 110	1	NA		05-24-04

Sample: ***0405465-04A*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04583		**SW846 8330 Explosives by HPLC**						**X04583-003**	
XG.2004.958.8	610-39-9	3,4-Dinitrotoluene	55	% Recovery	74 - 127	3	NA		05-25-04

Sample: ***LCS*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04625		**8260**						**X04625-002**	
XG.2004.968.5		1,2 Dichloroethane-D4 (SS)	110	% Recovery	76 - 114	1	NA		06-01-04
XG.2004.968.5		4-Bromofluorobenzene (SS)	97	% Recovery	75 - 125	1	NA		06-01-04
XG.2004.968.5		Dibromofluoromethane (SS)	99	% Recovery	75 - 125	1	NA		06-01-04
XG.2004.968.5		Toluene-D8 (SS)	100	% Recovery	88 - 110	1	NA		06-01-04
X04559		**8270**						**X04559-002**	
XG.2004.899.3		*2,4,6-TRIBROMOPHENOL	99	% Recovery	64 - 123	1	NA		05-24-04
XG.2004.899.3		*2-FLUOROBIPHENYL	84	% Recovery	73 - 104	1	NA		05-24-04
XG.2004.899.3		*2-FLUOROPHENOL	51	% Recovery	50 - 116	1	NA		05-24-04
XG.2004.899.3		*NITROBENZENE-D5	92	% Recovery	46 - 123	1	NA		05-24-04
XG.2004.899.3		*PHENOL-D6	37	% Recovery	24 - 52	1	NA		05-24-04
XG.2004.899.3		*TERPHENYL-D14	74	% Recovery	48 - 110	1	NA		05-24-04

Assaigai Analytical Laboratories, Inc.

QC Surrogate Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 BA22 0016 DMLN**
Order: **0405465 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Sample: ***LCS*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04583		**SW846 8330 Explosives by HPLC**						**X04583-002**	
XG.2004.958.7	610-39-9	3,4-Dinitrotoluene	99	% Recovery	74 - 127	1	NA		05-25-04

Sample: ***MB*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04625		**8260**						**X04625-001**	
XG.2004.968.4		1,2 Dichloroethane-D4 (SS)	101	% Recovery	76 - 114	1	NA		06-01-04
XG.2004.968.4		4-Bromofluorobenzene (SS)	98	% Recovery	75 - 125	1	NA		06-01-04
XG.2004.968.4		Dibromofluoromethane (SS)	100	% Recovery	75 - 125	1	NA		06-01-04
XG.2004.968.4		Toluene-D8 (SS)	100	% Recovery	88 - 110	1	NA		06-01-04
X04559		**8270**						**X04559-001**	
XG.2004.899.2		*2,4,6-TRIBROMOPHENOL	97	% Recovery	64 - 123	1	NA		05-24-04
XG.2004.899.2		*2-FLUOROBIPHENYL	84	% Recovery	73 - 104	1	NA		05-24-04
XG.2004.899.2		*2-FLUOROPHENOL	55	% Recovery	50 - 116	1	NA		05-24-04
XG.2004.899.2		*NITROBENZENE-D5	94	% Recovery	46 - 123	1	NA		05-24-04
XG.2004.899.2		*PHENOL-D6	37	% Recovery	24 - 52	1	NA		05-24-04
XG.2004.899.2		*TERPHENYL-D14	78	% Recovery	48 - 110	1	NA		05-24-04
X04583		**SW846 8330 Explosives by HPLC**						**X04583-001**	
XG.2004.958.6	610-39-9	3,4-Dinitrotoluene	98	% Recovery	74 - 127	1	NA		05-25-04

Sample: ***MS*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04625		**8260**						**X04625-012**	
XG.2004.966.15		1,2 Dichloroethane-D4 (SS)	113	% Recovery	76 - 114	1	NA		06-01-04
XG.2004.968.15		4-Bromofluorobenzene (SS)	99	% Recovery	75 - 125	1	NA		06-01-04
XG.2004.968.15		Dibromofluoromethane (SS)	100	% Recovery	75 - 125	1	NA		06-01-04
XG.2004.968.15		Toluene-D8 (SS)	99	% Recovery	88 - 110	1	NA		06-01-04
X04559		**8270**						**X04559-004**	
XG.2004.899.9		*2,4,6-TRIBROMOPHENOL	85	% Recovery	64 - 123	2	NA		05-24-04
XG.2004.899.9		*2-FLUOROBIPHENYL	78	% Recovery	73 - 104	2	NA		05-24-04
XG.2004.899.9		*2-FLUOROPHENOL	45	% Recovery	50 - 116	2	NA		05-24-04
XG.2004.899.9		*NITROBENZENE-D5	89	% Recovery	46 - 123	2	NA		05-24-04
XG.2004.899.9		*PHENOL-D6	33	% Recovery	24 - 52	2	NA		05-24-04
XG.2004.899.9		*TERPHENYL-D14	46	% Recovery	48 - 110	2	NA		05-24-04
X04583		**SW846 8330 Explosives by HPLC**						**X04583-004**	
XG.2004.958.9	610-39-9	3,4-Dinitrotoluene	108	% Recovery	74 - 127	2	NA		05-25-04

Assaigai Analytical Laboratories, Inc.

QC Surrogate Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **7D44 BA22 0016 DMLN**
Order: **0405465 LOS17**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Sample: ***MSD*** Matrix: ***WATER***

Run Sequence	CAS #	Analyte	Result	Units	Range	Dilution Factor	Detection Limit	Code	Run Date
X04625		**8260**						**X04625-013**	
XG.2004.968.16		1,2 Dichloroethane-D4 (SS)	110	% Recovery	76 - 114	1	NA		06-01-04
XG.2004.968.16		4-Bromofluorobenzene (SS)	95	% Recovery	75 - 125	1	NA		06-01-04
XG.2004.968.16		Dibromofluoromethane (SS)	97	% Recovery	75 - 125	1	NA		06-01-04
XG.2004.968.16		Toluene-D8 (SS)	98	% Recovery	88 - 110	1	NA		06-01-04
X04559		**8270**						**X04559-005**	
XG.2004.899.10		*2,4,6-TRIBROMOPHENOL	94	% Recovery	64 - 123	2	NA		05-24-04
XG.2004.899.10		*2-FLUOROBIPHENYL	84	% Recovery	73 - 104	2	NA		05-24-04
XG.2004.899.10		*2-FLUOROPHENOL	50	% Recovery	50 - 116	2	NA		05-24-04
XG.2004.899.10		*NITROBENZENE-D5	93	% Recovery	46 - 123	2	NA		05-24-04
XG.2004.899.10		*PHENOL-D6	35	% Recovery	24 - 52	2	NA		05-24-04
XG.2004.899.10		*TERPHENYL-D14	62	% Recovery	48 - 110	2	NA		05-24-04
X04583		**SW846 8330 Explosives by HPLC**						**X04583-005**	
XG.2004.958.10	610-39-9	3,4-Dinitrotoluene	26	% Recovery	74 - 127	1	NA		05-25-04

LOS ALAMOS NATIONAL LABORATORY
WASTE PROFILE SYSTEM

WPF #: 37722

Generator :	**RENDELL, KEITH R**	MS :	**J590**	PH :	**6651054**	Z#:	**086114**		
WMC :	**THOMAS, JOHN**	MS :	**H805**	PH :	**5056678400**	Z#:	**105444**		
Contact :									
RCRA Rev :	**Coriz Michelle L**	MS :	**J595**	PH :	**5056656411**	Z#:	**120950**		
Status :	**EXPIRE**	Activation Date :	**10/04/2004**		Expiration Date:		**10/04/2005**		
Group :	**FWO-DECS**	TA :	**16**	Bldg :	**000340**	Room :	**ALL**		

You are required to keep a copy of the WPF(s) in your files for at least three years. This WPF(s) is valid for one year or as long as the composition of the waste you have characterized remains the same. Should your waste change, please submit a new WPF to NWIS-SWO Customer Service.

Waste Accumu : **None of the Above Site ID#**

Method of Char : Chemical/Physical Analysis Number: 04SWRC492-495
Acceptable Knowledge Documentation Number: See Process Description

Waste Type : **Process Waste/Spent Chemical/Other**

Waste Classes:
RCA Waste - **Not RCA Waste**
RAD Waste - **Non-rad**
WW Info - **TA16**
Classif/Sensi - **N**

Waste Category:
Inorganic
Organic
Volatile Organics < 500 ppm
Other

Waste Sources : **Demolition**

Waste Matrix : **Aqueous**

Matrix Type : **Homogeneous**

Process Desc :

WATER GENERATED DURING RINSEDOWN OF BAYS INSIDE TA-16 BUILDING 340. THIS PROCESS TOOK PLACE INSIDE THE BUILDING WHERE NO PESTICIDES OR HERBICIDES WERE USED. SOLVENT USE AT THIS FACILITY WAS CONFINED TO CLOSED SYSTEMS WITHIN THE BUILDING.

Waste Desc : N/A

Ignitability : **Not ignitable**

Corrosivity : **6.1 - 9.0**

Reactivity : **Non-reactive**

Boiling Point : **Not applicable**

Toxicity Characteristic Metals:

Contaminant	Method	Limit	Min	Max	Unit
BARIUM	**TCLP**	**Y**			**PPM**
CHROMIUM	**TCLP**	**Y**			**PPM**
MERCURY	**TCLP**	**Y**			**PPM**

Toxicity Characteristic Organic Compounds:

Contaminant	Method	Limit	Min	Max	Unit
CHLOROFORM	**AK**	**Y**			**PPM**
1,4-DICHLOROBENZENE	**AK**	**Y**			**PPM**
METHYL ETHYL KETONE	**AK**	**Y**			**PPM**
O-CRESOL	**TOTA**	**Y**			**PPM**
M-CRESOL	**TOTA**	**Y**			**PPM**
P-CRESOL	**TOTA**	**Y**			**PPM**
CRESOL - MIXED	**TOTA**	**Y**			**PPM**

Additional Chemical Constituents and Contaminants:

CAS NO	Constituent	MIN	MAX	UOM
	TOLUENE	0.000000011	0.000000011	%
	BENZOIC ACID	0.0000011	0.0000011	%
	2-METHYLPHENOL	0.000000018	0.000000018	%
	3+4 METHYLPHENOL	0.00000024	0.00000024	%
	BIS(2-ETHYLHEXYL)PHTHALATE	0.0000021	0.0000021	%
	DI-N-OCTYLPHTHALATE	0.0000003	0.0000003	%
	N-NITROSODIPHENYLAMINE	0.000000031	0.000000031	%
	PHENOL	0.00000056	0.00000056	%
	HMX	0.0000049	0.0000049	%
	RDX	0.0000036	0.0000036	%
	1,2 DICHLOROBENZENE	0.000000011	0.000000011	%
	1,2,4-TRIMETHYLBENZENE	0.00000001	0.00000001	%
	1,3 DICHLOROBENZENE	0.000000011	0.000000011	%
	1,4 DICHLOROBENZENE	0.000000011	0.000000011	%
	2-BUTANONE (MEK)	0.00000015	0.00000015	%
	ACETONE	0.00000077	0.00000077	%
	WATER	99.999	100	%

WASTE CHARACTERIZATION INFORMATION

Radioactivity Category : **NON-RAD**

RCRA Category : **NON HAZARDOUS**

Secondary Info : N/A

Waste Classification : **NM SOLID WASTE DETERMINATION**

Waste Acceptances : **TA-16 Acceptance**
ok for HEWTF (any sludge to be returned to generator)

EPA Hazardous Waste Code : N/A

Attachment 7

04CAT 019
RFA# 1216

HAZCAT LIQUIDS CHART

CHART VERSION 1.0
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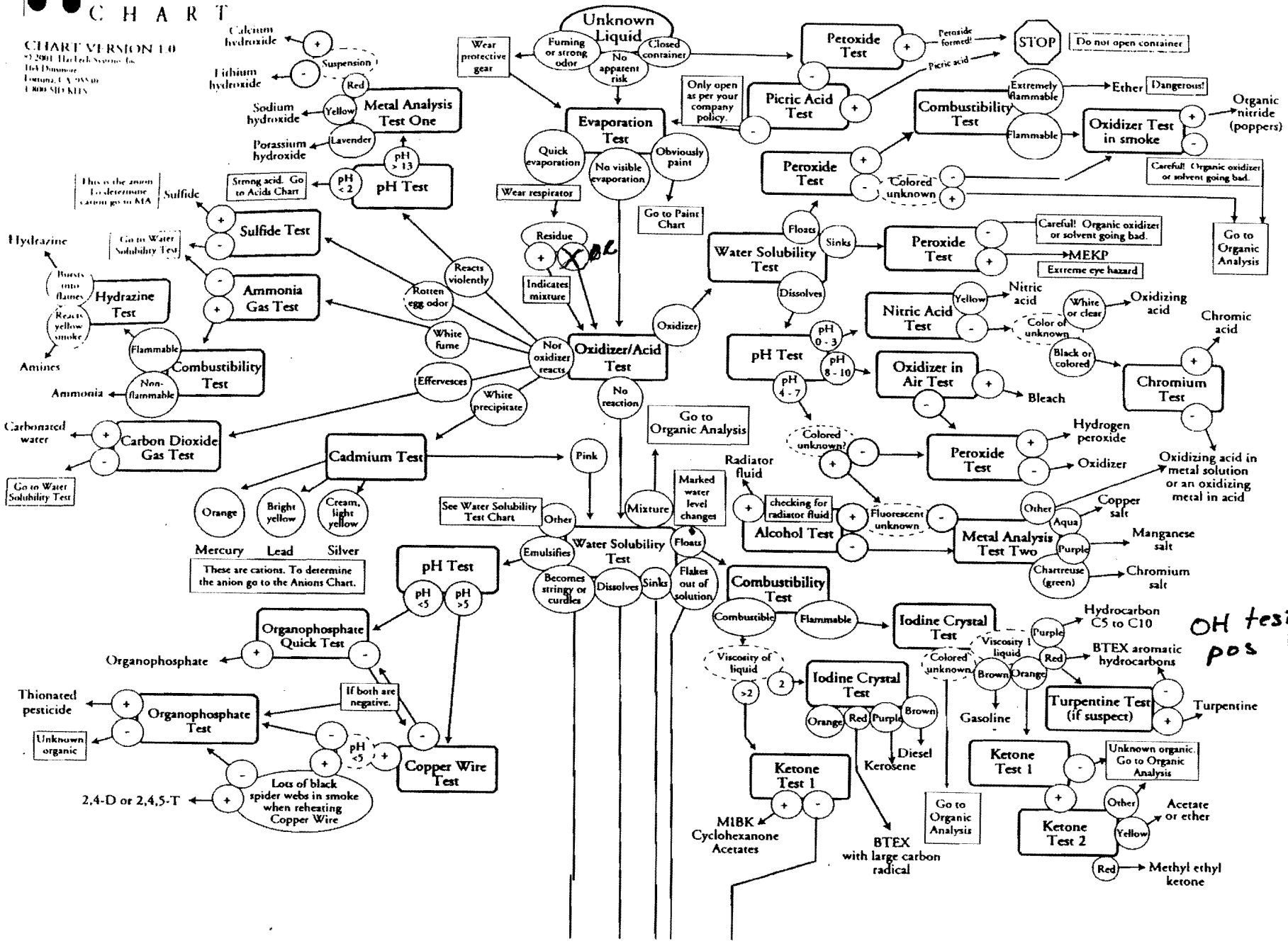
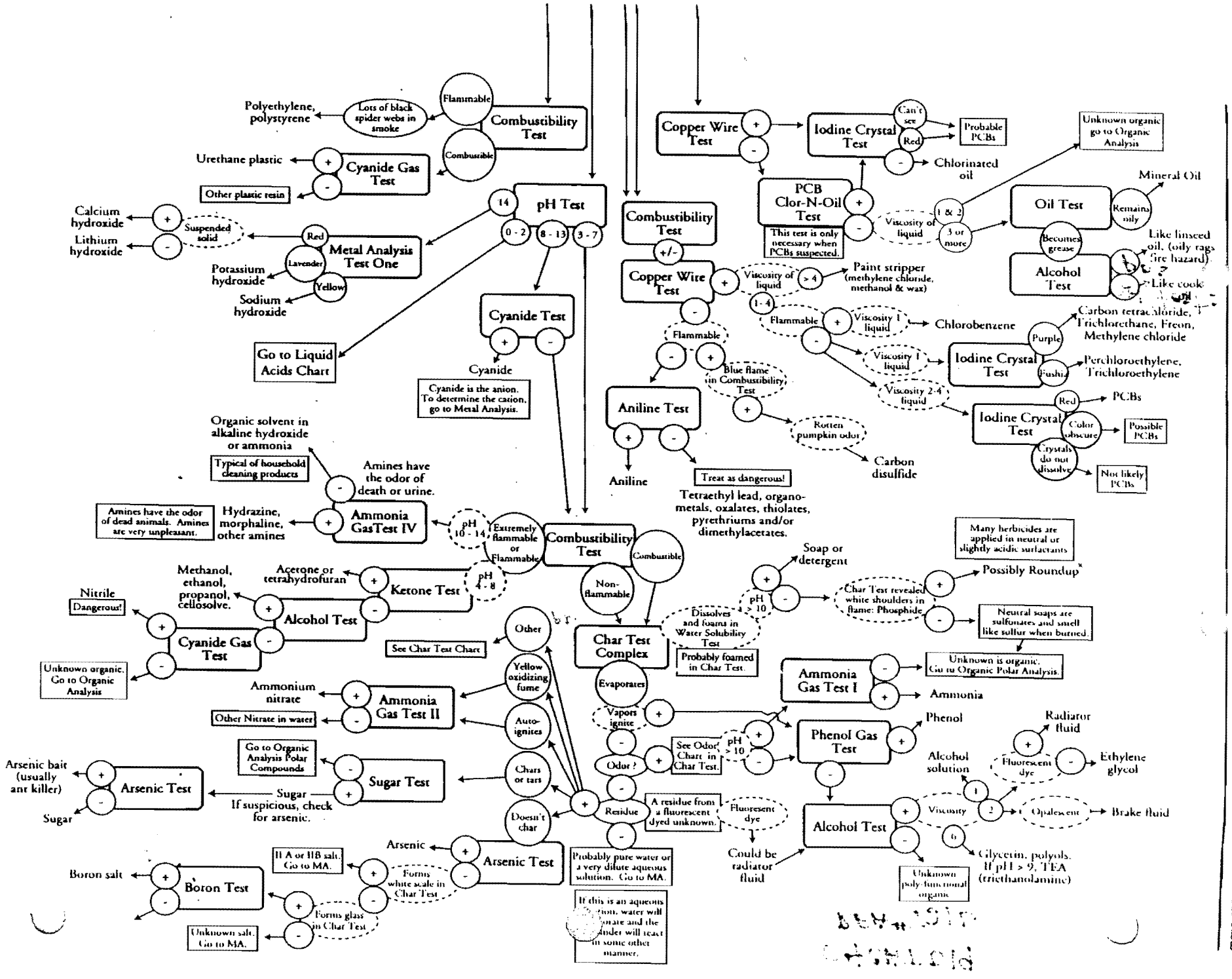
164 Dunmore
Fontana, CA 92335
1-800-SID-KITS



OH test - pos



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LOS ALAMOS NATIONAL LABORATORY
WASTE PROFILE SYSTEM

WPF #: 38355

15-Mar-2006 09:30 AM **(Version: 1)**

Generator :	**RENDELL, KEITH R**	MS :	**J590**	PH :	**6651054**	Z#:	**086114**
WMC :	**THOMAS, JOHN**	MS :	**H805**	PH :	**5056678400**	Z#:	**105444**
Contact :							
RCRA Rev :	**Elicio Andy U**	MS :	**J595**	PH :	**5056676956**	Z#:	**118692**
Status :	**ACTIVE**	Activation Date :	**05/24/2005**		Expiration Date:		**05/24/2006**
Group :	**PM-IP**	TA :	**16**	Bldg :	**000340**	Room :	**0**

You are required to keep a copy of the WPF(s) in your files for at least three years. This WPF(s) is valid for one year or as long as the composition of the waste you have characterized remains the same. Should your waste change, please submit a new WPF to NWIS-SWO Customer Service.

Waste Accumu : **Satellite Accumulation Area Site ID# 2990**
Method of Char : Analysis/Documents Attached

Waste Type : **Process Waste/Spent Chemical/Other**
Waste Classes: RCA Waste - **Not RCA Waste**
RAD Waste - **Non-rad**

Waste Category: **Organic**
Volatile Organics >= 500 ppm

Waste Sources : **Demolition**

Waste Matrix : **Non-aqueous**

Matrix Type : **Homogeneous**

Process Desc :
HAZ-CAT ANALYSIS #04CAT019, RFA# 1216

Waste Desc : N/A

Ignitability : **100 - 139 F 37.8 - 59.4 C**

Corrosivity : **Non-aqueous**

Reactivity : **Non-reactive**

Boiling Point : **> 95 F > 35 C**

Toxicity Characteristic Metals: N/A

Toxicity Characteristic Organic Compounds:

Contaminant	Method	Limit	Min	Max	Unit
BENZENE	**AK**	**Y**			**ppm**

Additional Chemical Constituents and Contaminants:

CAS NO	Constituent	MIN	MAX	UOM
	ALCOHOL	**99**	**100**	**%**
	BTEX	**0.001**	**0.01**	**%**

LDR and Underlying Hazardous Constituents Information
Non-Wastewater/Wastewater Category: **Non Wastewater**

WASTE CHARACTERIZATION INFORMATION

Radioactivity Category : **NON-RAD**

RCRA Category : **HAZARDOUS WASTE**

Secondary Info : N/A

Waste Classification : **HAZARDOUS WASTE**

Waste Acceptances :

EPA Hazardous Waste Code : **D001**

Notification Of Underlying Hazardous Constituents:

Constituents

No Underlying Hazardous Constituents in this waste stream

Attachment 8

Explanation of codes	
B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

CLAUSS CONSTRUCTION
attn: JOHN THOMAS
8956 WINTER GARDENS BLVD.
LAKESIDE CA 92040-4935

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).

Client: CLAUSS CONSTRUCTION
Project:
Order: 0503738 CLA09 Receipt: 03-31-05

William P. Blave: President of Assaigai Analytical Laboratories, Inc.

Sample: *TRE 540* Collected: *03-31-05 0:00:00* By:
Matrix: *S*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0503738-01B		SW846 1311/3010A/6010B ICP TCLP					By:	kdw		
M05485	MT.2005.742.62	7440-38-2	Arsenic	ND	mg/L	25	0.01		04-06-05	04-06-05
M05485	MT.2005.742.62	7440-39-3	Barium	0.219	mg/L	25	0.005		04-06-05	04-06-05
M05485	MT.2005.742.62	7440-43-9	Cadmium	ND	mg/L	25	0.005		04-06-05	04-06-05
M05485	MT.2005.742.62	7440-47-3	Chromium	ND	mg/L	25	0.005		04-06-05	04-06-05
M05485	MT.2005.742.62	7439-92-1	Lead	0.556	mg/L	25	0.01		04-06-05	04-06-05
M05485	MT.2005.742.62	7782-49-2	Selenium	ND	mg/L	25	0.02		04-06-05	04-06-05
M05485	MT.2005.742.62	7440-22-4	Silver	ND	mg/L	25	0.001		04-06-05	04-06-05
0503738-01B		SW846 1311/7470A CVAA TCLP					By:	BJM		
M05466	MT.2005.754.26	7439-97-6	Mercury	0.0010	mg/L	1	0.0002		04-06-05	04-07-05

Sample: *HEP 340* Collected: *03-31-05 0:00:00* By:
Matrix: *S*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0503738-02A		SW846 3550A/8270C SVOCs by GC/MS					By:	DS		
X05483	XG.2005.597.3	120-82-1	1,2,4-Trichlorobenzene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	95-50-1	1,2-Dichlorobenzene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	541-73-1	1,3-Dichlorobenzene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	106-46-7	1,4-Dichlorobenzene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	90-12-0	1-Methylnaphthalene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	58-90-2	2,3,4,6-Tetrachlorophenol	ND	mg / Kg	1	1.5		04-01-05	04-06-05
X05483	XG.2005.597.3	95-95-4	2,4,5-Trichlorophenol	ND	mg / Kg	1	0.3		04-01-05	04-06-05

03/22/2006 10:12 FAX 5056650389 GSS WASTE SERVICES

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).

Client: **CLAUSS CONSTRUCTION**

Project:

Order: **0503738** **CLA09** Receipt: **03-31-05**

Sample: ***HEP 340*** Collected: *03-31-05 0:00:00* By:

Matrix: ***S***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0503738-02A		**SW846 3550A/8270C SVOCs by GC/MS**					By:	DS		
X05483	XG.2005.597.3	88-06-2	2,4,6-Trichlorophenol	ND	mg / Kg	1	0.3		04-01-05	04-06-05
X05483	XG.2005.597.3	120-83-2	2,4-Dichlorophenol	ND	mg / Kg	1	0.3		04-01-05	04-06-05
X05483	XG.2005.597.3	105-67-9	2,4-Dimethylphenol	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	51-28-5	2,4-Dinitrophenol	ND	mg / Kg	1	0.67		04-01-05	04-06-05
X05483	XG.2005.597.3	121-14-2	2,4-Dinitrotoluene	ND	mg / Kg	1	0.3		04-01-05	04-06-05
X05483	XG.2005.597.3	606-20-2	2,6-Dinitrotoluene	ND	mg / Kg	1	0.3		04-01-05	04-06-05
X05483	XG.2005.597.3	91-58-7	2-Chloronaphthalene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	95-57-8	2-Chlorophenol	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	91-57-6	2-Methylnaphthalene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	95-48-7	2-Methylphenol	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	88-74-4	2-Nitroaniline	ND	mg / Kg	1	0.3		04-01-05	04-06-05
X05483	XG.2005.597.3	88-75-5	2-Nitrophenol	ND	mg / Kg	1	0.3		04-01-05	04-06-05
X05483	XG.2005.597.3	91-94-1	3,3-Dichlorobenzidine	ND	mg / Kg	1	0.3		04-01-05	04-06-05
X05483	XG.2005.597.3	108-39-4/106-44	3+4 Methylphenol	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	99-09-2	3-Nitroaniline	ND	mg / Kg	1	0.3		04-01-05	04-06-05
X05483	XG.2005.597.3	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg / Kg	1	0.3		04-01-05	04-06-05
X05483	XG.2005.597.3	101-55-3	4-Bromophenyl-phenylether	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	59-50-7	4-Chloro-3-methylphenol	ND	mg / Kg	1	0.3		04-01-05	04-06-05
X05483	XG.2005.597.3	106-47-8	4-Chloroaniline	ND	mg / Kg	1	0.3		04-01-05	04-06-05
X05483	XG.2005.597.3	7005-72-3	4-Chlorophenyl-phenylether	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	100-01-6	4-Nitroaniline	ND	mg / Kg	1	0.3		04-01-05	04-06-05
X05483	XG.2005.597.3	100-02-7	4-Nitrophenol	ND	mg / Kg	1	0.6		04-01-05	04-06-05
X05483	XG.2005.597.3	83-32-9	Acenaphthene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	208-96-8	Acenaphthylene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	62-53-3	Aniline	ND	mg / Kg	1	0.3		04-01-05	04-06-05
X05483	XG.2005.597.3	120-12-7	Anthracene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	103-33-3/122-66	Azobenzene&1,2-Diphenylhydrazine	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	56-55-3	Benzo (a) anthracene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	50-32-8	Benzo(a)pyrene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	205-99-2	Benzo(b)fluoranthene	ND	mg / Kg	1	0.015		04-01-05	04-06-05
X05483	XG.2005.597.3	191-24-2	Benzo(g,h,i)perylene	ND	mg / Kg	1	0.3		04-01-05	04-06-05
X05483	XG.2005.597.3	207-08-9	Benzo(k)fluoranthene	ND	mg / Kg	1	0.015		04-01-05	04-06-05
X05483	XG.2005.597.3	65-85-0	Benzoic acid	ND	mg / Kg	1	3		04-01-05	04-06-05
X05483	XG.2005.597.3	100-51-6	Benzyl alcohol	ND	mg / Kg	1	1.5		04-01-05	04-06-05
X05483	XG.2005.597.3	111-44-4	bis (2-Chloroethyl) ether	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	111-91-1	bis(2-Chloroethoxy)methane	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	108-60-1	bis(2-Chloroisopropyl)ether	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	117-81-7	bis(2-Ethylhexyl)phthalate	0.47 ✓	mg / Kg	1	0.3	B	04-01-05	04-06-05
X05483	XG.2005.597.3	85-68-7	Butylbenzylphthalate	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	218-01-9	Chrysene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	53-70-3	Dibenz(a,h)anthracene	ND	mg / Kg	1	0.3		04-01-05	04-06-05
X05483	XG.2005.597.3	132-64-9	Dibenzofuran	ND	mg / Kg	1	0.03		04-01-05	04-06-05

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Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).

Client: **CLAUSS CONSTRUCTION**

Project:

Order: **0503738** **CLA09** Receipt: **03-31-05**

Sample: ***HEP 340*** Collected: *03-31-05 0:00:00* By:

Matrix: ***S***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0503738-02A		**SW846 3550A/8270C SVOCs by GC/MS**					By:	DS		
X05483	XG.2005.597.3	84-66-2	Diethylphthalate	0.033 ✓	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	131-11-3	Dimethylphthalate	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	84-74-2	di-n-Butylphthalate	ND	mg / Kg	1	0.3		04-01-05	04-06-05
X05483	XG.2005.597.3	117-84-0	di-n-Octylphthalate	ND	mg / Kg	1	0.3		04-01-05	04-06-05
X05483	XG.2005.597.3	206-44-0	Fluoranthene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	86737	Fluorene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	118-74-1	Hexachlorobenzene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	87-68-3	Hexachlorobutadiene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	77-47-4	Hexachlorocyclopentadiene	ND	mg / Kg	1	1.5		04-01-05	04-06-05
X05483	XG.2005.597.3	67-72-1	Hexachloroethane	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	193-39-5	Indeno(1,2,3-cd)pyrene	ND	mg / Kg	1	0.3		04-01-05	04-06-05
X05483	XG.2005.597.3	78-59-1	Isophorone	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	91-20-3	Naphthalene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	98-95-3	Nitrobenzene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	62-75-9	n-Nitroso-dimethyl-amine	ND	mg / Kg	1	0.3		04-01-05	04-06-05
X05483	XG.2005.597.3	621-64-7	n-Nitroso-di-n-propylamine	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	86-30-6	n-Nitrosodiphenylamine	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	87-86-5	Pentachlorophenol	ND	mg / Kg	1	1.3		04-01-05	04-06-05
X05483	XG.2005.597.3	85-01-8	Phenanthrene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	108-95-2	Phenol	ND	mg / Kg	1	0.3		04-01-05	04-06-05
X05483	XG.2005.597.3	129-00-0	Pyrene	ND	mg / Kg	1	0.03		04-01-05	04-06-05
X05483	XG.2005.597.3	110-86-1	Pyridine	ND	mg / Kg	1	0.3		04-01-05	04-06-05
0503738-02A		**SW846 5035B/8260B Purgeable VOCs by GC/MS**					By:	AZC		
X05485	XG.2005.567.7	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.01		04-04-05	04-04-05
X05485	XG.2005.567.7	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.01		04-04-05	04-04-05
X05485	XG.2005.567.7	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.01		04-04-05	04-04-05
X05485	XG.2005.567.7	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.01		04-04-05	04-04-05
X05485	XG.2005.567.7	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	1	0.01		04-04-05	04-04-05
X05485	XG.2005.567.7	78-87-5	1,2 Dichloropropane	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	120-82-1	1,2,4-Trichlorobenzene	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	95-63-6	1,2,4-Trimethylbenzene	ND	mg / Kg	1	0.01		04-04-05	04-04-05
X05485	XG.2005.567.7	96-12-8	1,2-Dibromo-3-chloropropane	ND	mg / Kg	1	0.01		04-04-05	04-04-05
X05485	XG.2005.567.7	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	108-67-8	1,3,5-Trimethylbenzene	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	1	0.01		04-04-05	04-04-05
X05485	XG.2005.567.7	78-93-3	2-Butanone (MEK)	ND	mg / Kg	1	0.02		04-04-05	04-04-05
X05485	XG.2005.567.7	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	1	0.02		04-04-05	04-04-05
X05485	XG.2005.567.7	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	1	0.02		04-04-05	04-04-05

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Assalgai Analytical Laboratories, Inc.

Certificate of Analysis

All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).

Client: **CLAUSS CONSTRUCTION**

Project:

Order: **0503738** **CLA09** Receipt: **03-31-05**

Sample: ***HEP 340*** Collected: *03-31-05 0:00:00* By:

Matrix: ***S***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0503738-02A		**SW846 5035B/8260B Purgeable VOCs by GC/MS**					By: AZC			
X05485	XG.2005.567.7	67-64-1	Acetone	0.030 ✓	mg / Kg	1	0.025		04-04-05	04-04-05
X05485	XG.2005.567.7	107-02-8	Acrolein	ND	mg / Kg	1	0.05		04-04-05	04-04-05
X05485	XG.2005.567.7	107-13-1	Acrylonitrile	ND	mg / Kg	1	0.02		04-04-05	04-04-05
X05485	XG.2005.567.7	71-43-2	Benzene	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	74-97-5	Bromochloromethane	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	75-27-4	Bromodichloromethane	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	75-25-2	Bromoform	ND	mg / Kg	1	0.01		04-04-05	04-04-05
X05485	XG.2005.567.7	74-83-9	Bromomethane	ND	mg / Kg	1	0.05		04-04-05	04-04-05
X05485	XG.2005.567.7	75-15-0	Carbon disulfide	ND	mg / Kg	1	0.01		04-04-05	04-04-05
X05485	XG.2005.567.7	56-23-5	Carbon tetrachloride	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	108-90-7	Chlorobenzene	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	124-48-1	Chlorodibromomethane	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	75-00-3	Chloroethane	ND	mg / Kg	1	0.02		04-04-05	04-04-05
X05485	XG.2005.567.7	67-66-3	Chloroform	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	74-87-3	Chloromethane	ND	mg / Kg	1	0.02		04-04-05	04-04-05
X05485	XG.2005.567.7	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	10061-01-5	cis-1,3 Dichloropropene	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	74-95-3	Dibromomethane	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	97-63-2	Ethyl methacrylate	ND	mg / Kg	1	0.02		04-04-05	04-04-05
X05485	XG.2005.567.7	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	76-13-1	Freon 113	ND	mg / Kg	1	0.01		04-04-05	04-04-05
X05485	XG.2005.567.7	75-71-8	Freon 12	ND	mg / Kg	1	0.01		04-04-05	04-04-05
X05485	XG.2005.567.7	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	75-09-2	Methylene chloride	ND	mg / Kg	1	0.025		04-04-05	04-04-05
X05485	XG.2005.567.7	91-20-3	Naphthalene	ND	mg / Kg	1	0.02		04-04-05	04-04-05
X05485	XG.2005.567.7	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		04-04-05	04-04-05
X05485	XG.2005.567.7	100-42-5	Styrene	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	1	0.01		04-04-05	04-04-05
X05485	XG.2005.567.7	108-88-3	Toluene	ND	mg / Kg	1	0.005		04-04-05	04-04-05
X05485	XG.2005.567.7	110-57-6	trans-1,4-Dichloro-2-butene	ND	mg / Kg	1	0.02		04-04-05	04-04-05
X05485	XG.2005.567.7	79-01-6	Trichloroethene	ND	mg / Kg	1	0.01		04-04-05	04-04-05
X05485	XG.2005.567.7	75-69-4	Trichlorofluoromethane	ND	mg / Kg	1	0.02		04-04-05	04-04-05
X05485	XG.2005.567.7	108-05-4	Vinyl acetate	ND	mg / Kg	1	0.02		04-04-05	04-04-05
X05485	XG.2005.567.7	75-01-4	Vinyl chloride	ND	mg / Kg	1	0.01		04-04-05	04-04-05
0503738-02A		**SW846 8330 Explosives by HPLC**					By: JWB			
X05521	XG.2005.620.12	99-35-4	1,3,5-Trinitrobenzene	ND	ug / kg	1	100		04-07-05	04-08-05
X05521	XG.2005.620.12	99-65-0	1,3-Dinitrobenzene	ND	ug / kg	1	100		04-07-05	04-08-05
X05521	XG.2005.620.12	118-96-7	2,4,6-Trinitrotoluene	ND	ug / kg	1	100		04-07-05	04-08-05
X05521	XG.2005.620.12	121-14-2	2,4-Dinitrotoluene	ND	ug / kg	1	100		04-07-05	04-08-05

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STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).

Client: **CLAUSS CONSTRUCTION**

Project:

Order: **0503738** **CLA09** Receipt: **03-31-05**

Sample: ***HEP 340*** Collected: *03-31-05 0:00:00* By:

Matrix: ***S***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0503738-02A		**SW846 8330 Explosives by HPLC**					By:	JWB		
X05521	XG.2005.620.12	606-20-2	2,6-Dinitrotoluene	ND	ug / kg	1	100		04-07-05	04-08-05
X05521	XG.2005.620.12	355-72-78-2	2-Amino-4,6-Dinitrotoluene	ND	ug / kg	1	100		04-07-05	04-08-05
X05521	XG.2005.620.12	88-72-2	2-Nitrotoluene	ND	ug / kg	1	100		04-07-05	04-08-05
X05521	XG.2005.620.12	99-08-1	3-Nitrotoluene	ND	ug / kg	1	100		04-07-05	04-08-05
X05521	XG.2005.620.12	1946-51-0	4-Amino-2,6-Dinitrotoluene	ND	ug / kg	1	100		04-07-05	04-08-05
X05521	XG.2005.620.12	99-99-0	4-Nitrotoluene	ND	ug / kg	1	100		04-07-05	04-08-05
X05521	XG.2005.620.12	2691-41-0	HMX	ND	ug / kg	1	100		04-07-05	04-08-05
X05521	XG.2005.620.12	98-95-3	Nitrobenzene	ND	ug / kg	1	100		04-07-05	04-08-05
X05521	XG.2005.620.12	121-82-4	RDX	ND	ug / kg	1	100		04-07-05	04-08-05
X05521	XG.2005.620.12	479-45-8	Tetryl	ND	ug / kg	1	100		04-07-05	04-08-05
0503738-02B		**SW846 1311/3010A/6010B ICP TCLP**					By:	kdw		
M05485	MT.2005.742.63	7440-38-2	Arsenic	ND	mg/L	25	0.01		04-06-05	04-06-05
M05485	MT.2005.742.63	7440-39-3	Barium	0.714	mg/L	25	0.005		04-06-05	04-06-05
M05485	MT.2005.742.63	7440-43-9	Cadmium	ND	mg/L	25	0.005		04-06-05	04-06-05
M05485	MT.2005.742.63	7440-47-3	Chromium	ND	mg/L	25	0.005		04-06-05	04-06-05
M05485	MT.2005.742.63	7439-92-1	Lead	ND	mg/L	25	0.01		04-06-05	04-06-05
M05485	MT.2005.742.63	7782-49-2	Selenium	ND	mg/L	25	0.02		04-06-05	04-06-05
M05485	MT.2005.742.63	7440-22-4	Silver	ND	mg/L	25	0.001		04-06-05	04-06-05
0503738-02B		**SW846 1311/7470A CVAA TCLP**					By:	BJM		
M05488	MT.2005.754.21	7439-97-6	Mercury	ND	mg/L	1	0.0002		04-06-05	04-07-05

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or foonotes will appear below.

Analytical results are not corrected for method blank or field blank contamination.

MEMO: Please note that sample HEP 340 was received in plastic, with headspace, and both samples were received at ambient temperature.

LOS ALAMOS NATIONAL LABORATORY
WASTE PROFILE SYSTEM

WPF #: 38402

15-Mar-2006 09:30 AM (Version: 1)

Generator :	**RENDELL, KEITH R**	MS :	**J590**	PH :	**6651054**	Z#:	**086114**
WMC :	**THOMAS, JOHN**	MS :	**H805**	PH :	**5056678400**	Z#:	**105444**
Contact :							
RCRA Rev :	**Lash Tammy A**	MS :	**J595**	PH :	**5056653454**	Z#:	**120424**
Status :	**ACTIVE**	Activation Date :	**04/15/2005**		Expiration Date:		**04/15/2006**
Group :	**PM-IP**	TA :	**16**	Bldg :	**000340**	Room :	**0**

You are required to keep a copy of the WPF(s) in your files for at least three years. This WPF(s) is valid for one year or as long as the composition of the waste you have characterized remains the same. Should your waste change, please submit a new WPF to NWIS-SWO Customer Service.

Waste Accumu : **None of the Above Site ID#**

Method of Char : Analysis/Documents Attached
Chemical/Physical Analysis Number: HEP340

Waste Type : **Process Waste/Spent Chemical/Other**

Waste Classes: RCA Waste - **Not RCA Waste**
RAD Waste - **Non-rad**

Waste Category: **Other**

Waste Sources : **Demolition**

Waste Matrix : **Solid**

Matrix Type : **Heterogeneous**

Process Desc :

Vitrified clay piping removed during D&D operations. Piping is destined for disposal at Rio Rancho Industrial Landfill.

Waste Desc : N/A

Ignitability : **Not ignitable**

Corrosivity : **Non-aqueous**

Reactivity : **Non-reactive**

Boiling Point : **Not applicable**

Toxicity Characteristic Metals:

Contaminant	Method	Limit	Min	Max	Unit
BARIUM	**TCLP**	**Y**			**ppm**

Toxicity Characteristic Organic Compounds: N/A

Additional Chemical Constituents and Contaminants:

CAS NO	Constituent	MIN	MAX	UOM
	VITRIFIED CLAY PIPE	99	100	%
	BIS (2-ETHYLHEXYL) PHTHALATE	0.000047	0.000047	%
	DIETHYLPHTHALATE	0.0000033	0.0000033	%
	ACETONE	0.000003	0.000003	%

WASTE CHARACTERIZATION INFORMATION

Radioactivity Category :	**NON-RAD**
RCRA Category :	**NON HAZARDOUS**
Secondary Info :	N/A
Waste Classification :	**SOLID WASTE**
Waste Acceptances :	
EPA Hazardous Waste Code :	N/A