

TA-55



**ASSAIGAI
ANALYTICAL
LABORATORIES, INC.**

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LOS ALAMOS NATIONAL LABS
attn: DUSTIE STEPHENS
MAIL STOP K491/ESH-19
LOS ALAMOS, NM 87545

* 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

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**
Project: **9805179 TA-55-RAMSEY Z#111503**

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

Client Sample ID **98DS399** Sample Matrix **WATER** Sample Collected **05/18/98 14:00:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	Sequence	Run Date
SW846-8240 Volatiles								
9805179-01A	X98284	75-34-3	1,1 Dichloroethane	ND	ug / L	1	XG.1998.487-3	05/22/98
	X98284	75-35-4	1,1 Dichloroethene	ND	ug / L	1	XG.1998.487-3	
	X98284	71-55-6	1,1,1 Trichloroethane	ND	ug / L	1	XG.1998.487-3	
	X98284	630-20-6	1,1,1,2 Tetrachloroethane	ND	ug / L	1	XG.1998.487-3	
	X98284	79-00-5	1,1,2 Trichloroethane	ND	ug / L	1	XG.1998.487-3	
	X98284	79-34-5	1,1,2,2 Tetrachloroethane	ND	ug / L	1	XG.1998.487-3	
	X98284	106-93-4	1,2 Dibromoethane (EDB)	ND	ug / L	1	XG.1998.487-3	
	X98284	95-50-1	1,2 Dichlorobenzene	ND	ug / L	1	XG.1998.487-3	
	X98284	107-06-2	1,2 Dichloroethane	ND	ug / L	1	XG.1998.487-3	
	X98284	78-87-5	1,2 Dichloropropane	ND	ug / L	1	XG.1998.487-3	
	X98284	96-18-4	1,2,3 Trichloropropane	ND	ug / L	1	XG.1998.487-3	
	X98284	541-73-1	1,3 Dichlorobenzene	ND	ug / L	1	XG.1998.487-3	
	X98284	784-41-0	1,4 Dichloro-2-butene	ND	ug / L	1	XG.1998.487-3	
	X98284	106-46-7	1,4 Dichlorobenzene	ND	ug / L	1	XG.1998.487-3	
	X98284	78-93-3	2-Butanone (MEK)	ND	ug / L	1	XG.1998.487-3	
	X98284	110-75-8	2-Chloroethylvinylether	ND	ug / L	1	XG.1998.487-3	
	X98284	591-78-6	2-Hexanone (MBK)	ND	ug / L	1	XG.1998.487-3	
	X98284	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug / L	1	XG.1998.487-3	
	X98284	67-64-1	Acetone	ND	ug / L	1	XG.1998.487-3	
	X98284	107-02-8	Acrolein	ND	ug / L	1	XG.1998.487-3	
	X98284	107-13-1	Acrylonitrile	ND	ug / L	1	XG.1998.487-3	
	X98284	71-43-2	Benzene	ND	ug / L	1	XG.1998.487-3	
	X98284	75-27-4	Bromodichloromethane	ND	ug / L	1	XG.1998.487-3	



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Project: **9805179 TA-55-RAMSEY Z#111503**

Sample ID	QC Group	CAS #	Compound	Result	Units	Dilution Factor	Detection Limit	Sequence	Run Date
9805179-01A	X98284	75-25-2	Bromoform	ND	ug / L	1	1	XG.1998.487-3	05/22/98
	X98284	74-83-9	Bromomethane	ND	ug / L	1	5	XG.1998.487-3	
	X98284	75-15-0	Carbon disulfide	ND	ug / L	1	5	XG.1998.487-3	
	X98284	56-23-5	Carbon tetrachloride	ND	ug / L	1	1	XG.1998.487-3	
	X98284	108-90-7	Chlorobenzene	ND	ug / L	1	1	XG.1998.487-3	
	X98284	124-48-1	Chlorodibromomethane	ND	ug / L	1	1	XG.1998.487-3	
	X98284	75-00-3	Chloroethane	ND	ug / L	1	5	XG.1998.487-3	
	X98284	67-66-3	Chloroform	ND	ug / L	1	1	XG.1998.487-3	
	X98284	74-87-3	Chloromethane	ND	ug / L	1	5	XG.1998.487-3	
	X98284	156-59-2	cis-1,2 dichloroethene	ND	ug / L	1	1	XG.1998.487-3	
	X98284	10061-01-5	cis-1,3 dichloropropene	ND	ug / L	1	1	XG.1998.487-3	
	X98284	74-95-3	Dibromomethane	ND	ug / L	1	1	XG.1998.487-3	
	X98284	97-63-2	Ethyl methacrylate	ND	ug / L	1	5	XG.1998.487-3	
	X98284	100-41-4	Ethylbenzene	2.4	ug / L	1	1	XG.1998.487-3	
	X98284		Freon 113	ND	ug / L	1	5	XG.1998.487-3	
	X98284	75-71-8	Freon 12	ND	ug / L	1	10	XG.1998.487-3	
	X98284	74-88-4	Iodomethane	ND	ug / L	1	5	XG.1998.487-3	
	X98284	1634-04-4	Methyl t-butyl ether (MTBE)	ND	ug / L	1	1	XG.1998.487-3	
	X98284	75-09-2	Methylene chloride	ND	ug / L	1	10	XG.1998.487-3	
	X98284	95-47-6	o-Xylene	ND	ug / L	1	1	XG.1998.487-3	
	X98284		p/m Xylenes	ND	ug / L	1	2	XG.1998.487-3	
	X98284	100-42-5	Styrene	1.2	ug / L	1	1	XG.1998.487-3	
	X98284	156-60-5	t-1,2 Dichloroethene	ND	ug / L	1	1	XG.1998.487-3	
	X98284	10061-02-6	t-1,3 Dichloropropene	ND	ug / L	1	1	XG.1998.487-3	
	X98284	127-18-4	Tetrachloroethene	ND	ug / L	1	1	XG.1998.487-3	
	X98284	108-88-3	Toluene	1.1	ug / L	1	1	XG.1998.487-3	
	X98284	79-01-6	Trichloroethene	ND	ug / L	1	1	XG.1998.487-3	
	X98284	75-69-4	Trichlorofluoromethane	ND	ug / L	1	5	XG.1998.487-3	
	X98284	108-05-4	Vinyl acetate	ND	ug / L	1	5	XG.1998.487-3	
	X98284	75-01-4	Vinyl chloride	ND	ug / L	1	5	XG.1998.487-3	

Client **98DS400** Sample Matrix **WATER** Sample Collected **05/18/98 14:00:00**

Fraction	QC Group	CAS #	Compound	Result	Units	Dilution Factor	Detection Limit	Sequence	Run Date
SW846-8270 Semi-Volatiles									
9805179-02A	X98283	120-82-1	1,2,4-Trichlorobenzene	ND	ug / L	1.6322	1	XG.1998.494-14	05/28/98
	X98283	95-50-1	1,2-Dichlorobenzene	ND	ug / L	1.6322	1	XG.1998.494-14	
	X98283	541-73-1	1,3-Dichlorobenzene	ND	ug / L	1.6322	1	XG.1998.494-14	
	X98283	106-46-7	1,4-Dichlorobenzene	ND	ug / L	1.6322	1	XG.1998.494-14	
	X98283	90-12-0	1-Methylnaphthalene	ND	ug / L	1.6322	1	XG.1998.494-14	
	X98283	58-90-2	2,3,4,6-Tetrachlorophenol	ND	ug / L	1.6322	5	XG.1998.494-14	
	X98283	95-95-4	2,4,5-Trichlorophenol	ND	ug / L	1.6322	5	XG.1998.494-14	
	X98283	88-06-2	2,4,6-Trichlorophenol	ND	ug / L	1.6322	5	XG.1998.494-14	
	X98283	120-83-2	2,4-Dichlorophenol	ND	ug / L	1.6322	5	XG.1998.494-14	
	X98283	105-67-9	2,4-Dimethylphenol	ND	ug / L	1.6322	1	XG.1998.494-14	
	X98283	51-28-5	2,4-Dinitrophenol	ND	ug / L	1.6322	10	XG.1998.494-14	

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9805179-02A	X98283	121-14-2	2,4-Dinitrotoluene	ND	ug / L	1.6322	5	XG. 1998.494-14	05/28/98
	X98283	606-20-2	2,6-Dinitrotoluene	ND	ug / L	1.6322	5	XG. 1998.494-14	
	X98283	91-58-7	2-Chloronaphthalene	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	95-57-8	2-Chlorophenol	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	91-57-6	2-Methylnaphthalene	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	95-48-7	2-Methylphenol	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	88-74-4	2-Nitroaniline	ND	ug / L	1.6322	5	XG. 1998.494-14	
	X98283	88-75-5	2-Nitrophenol	ND	ug / L	1.6322	5	XG. 1998.494-14	
	X98283		3+4 Methylphenol	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	91-94-1	3,3'-Dichlorobenzidine	ND	ug / L	1.6322	10	XG. 1998.494-14	
	X98283	99-09-2	3-Nitroaniline	ND	ug / L	1.6322	5	XG. 1998.494-14	
	X98283	534-52-1	4,6-Dinitro-2-methylphenol	ND	ug / L	1.6322	10	XG. 1998.494-14	
	X98283	101-55-3	4-Bromophenyl-phenylether	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	59-50-7	4-Chloro-3-methylphenol	ND	ug / L	1.6322	5	XG. 1998.494-14	
	X98283	106-47-8	4-Chloroaniline	ND	ug / L	1.6322	5	XG. 1998.494-14	
	X98283	7005-72-3	4-Chlorophenyl-phenylether	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	100-01-6	4-Nitroaniline	ND	ug / L	1.6322	5	XG. 1998.494-14	
	X98283	100-02-7	4-Nitrophenol	ND	ug / L	1.6322	10	XG. 1998.494-14	
	X98283	83-32-9	Acenaphthene	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	208-96-8	Acenaphthylene	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	62-53-3	Aniline	ND	ug / L	1.6322	10	XG. 1998.494-14	
	X98283	120-12-7	Anthracene	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283		Azobenzene&1,2-Diphenylhydrazine	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	56-55-3	Benzo (a) anthracene	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	50-32-8	Benzo(a)pyrene	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283		Benzo(b & k)fluoranthene	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	191-24-2	Benzo(g,h,i)perylene	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	64-85-0	Benzoic acid	ND	ug / L	1.6322	25	XG. 1998.494-14	
	X98283	100-51-6	Benzyl alcohol	ND	ug / L	1.6322	5	XG. 1998.494-14	
	X98283	111-44-4	bis (2-Chloroethyl) ether	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	111-91-1	bis(2-Chloroethoxy)methane	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	108-60-1	bis(2-Chloroisopropyl)ether	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	117-81-7	bis(2-Ethylhexyl)phthalate	ND	ug / L	1.6322	5	XG. 1998.494-14	
	X98283	85-68-7	Butylbenzylphthalate	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	218-01-9	Chrysene	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	84-74-2	di-n-Butylphthalate	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	117-84-0	di-n-Octylphthalate	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	53-70-3	Dibenz(a,h)anthracene	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	132-84-9	Dibenzofuran	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	84-66-2	Diethylphthalate	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	131-11-3	Dimethylphthalate	3.5	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	206-44-0	Fluoranthene	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	86737	Fluorene	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	118-74-1	Hexachlorobenzene	ND	ug / L	1.6322	10	XG. 1998.494-14	
	X98283	87-88-3	Hexachlorobutadiene	ND	ug / L	1.6322	10	XG. 1998.494-14	
	X98283	77-47-4	Hexachlorocyclopentadiene	ND	ug / L	1.6322	10	XG. 1998.494-14	
	X98283	87-72-1	Hexachloroethane	ND	ug / L	1.6322	5	XG. 1998.494-14	
	X98283	193-39-5	Indeno(1,2,3-cd)pyrene	ND	ug / L	1.6322	1	XG. 1998.494-14	
	X98283	78-59-1	Isophorone	ND	ug / L	1.6322	1	XG. 1998.494-14	

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Sample ID	QC Group	CAS #	Compound	Result	Units	Dilution Factor	Detection Limit	Sequence	Run Date
9805179-02A	X98283	621-64-7	n-Nitroso-di-n-propylamine	ND	ug / L	1.6322	1	XG.1998.494-14	05/28/98
	X98283	62-75-9	n-Nitroso-dimethyl-amine	ND	ug / L	1.6322	10	XG.1998.494-14	
	X98283	86-30-6	n-Nitrosodiphenylamine	ND	ug / L	1.6322	1	XG.1998.494-14	
	X98283	91-20-3	Naphthalene	ND	ug / L	1.6322	1	XG.1998.494-14	
	X98283	98-95-3	Nitrobenzene	ND	ug / L	1.6322	1	XG.1998.494-14	
	X98283	87-86-5	Pentachlorophenol	ND	ug / L	1.6322	10	XG.1998.494-14	
	X98283	85-01-8	Phenanthrene	ND	ug / L	1.6322	1	XG.1998.494-14	
	X98283	108-95-2	Phenol	ND	ug / L	1.6322	10	XG.1998.494-14	
	X98283	129-00-0	Pyrene	ND	ug / L	1.6322	1	XG.1998.494-14	
	X98283	110-86-1	Pyridine	ND	ug / L	1.6322	10	XG.1998.494-14	

Client Sample ID: **98DS401** Sample Matrix: **WATER** Sample Collected: **05/18/98 14:00:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit *	Sequence	Run Date
TCLP SW846-6010 ICP								
9805179-03A	M98444	7440-38-2	Arsenic	ND	mg / L	1	0.4	MW.1998.790-32 06/08/98
	M98444	7440-39-3	Barium	0.8	mg / L	1	0.5	MW.1998.774-43 06/04/98
	M98444	7440-43-9	Cadmium	ND	mg / L	1	0.02	MW.1998.774-43
	M98444	7440-47-3	Chromium	ND	mg / L	1	0.02	MW.1998.774-43
	M98444	7782-49-2	Selenium	ND	mg / L	1	0.05	MW.1998.774-43
	M98444	7440-22-4	Silver	ND	mg / L	1	0.04	MW.1998.774-43
TCLP SW846-7000 series AA-FL								
9805179-03A	M98444	7439-92-1	Lead	ND	mg / L	1	0.1	MW.1998.779-24 06/04/98
TCLP SW846-7470								
9805179-03A	M98460	7439-97-6	Mercury	ND	mg / L	1	0.002	MW.1998.804-16 06/11/98

Client Sample ID: **98DS403** Sample Matrix: **WATER** Sample Collected: **05/18/98 14:00:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit *	Sequence	Run Date
EPA-410.1								
9805179-04A	COD98014		Chemical Oxygen Demand	49.4	mg / L	1	1	MT.1998.1379-9 05/28/98

Client Sample ID: **98DS404** Sample Matrix: **WATER** Sample Collected: **05/18/98 14:00:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit *	Sequence	Run Date
EPA-160.2								
9805179-05A	TSS98027		Total Suspended Solids	745	mg / L	1	4	MT.1998.1381-14 05/22/98

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Client: **LOS ALAMOS NATIONAL LABS**
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Client Sample ID: **98DS405** Sample Matrix: **WATER** Sample Collected: **05/18/98 14:00:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	*	Sequence	Run Date
EPA-300.0 anions									
9805179-06A	W98182		Nitrate, as N	ND	mg / L	50	0.2	MW.1998.740-38	05/28/98
	W98182		Nitrite, as N	ND	mg / L	50	0.2	MW.1998.740-38	
SM-4500-N & NH3B,C									
9805179-06A	W98181		Kjeldahl Nitrogen, Total	46.0	mg / L	50	0.2	MW.1998.722-25	05/27/98
SM-4500-NH3B,C									
9805179-06A	W98184	7664-41-7	Ammonia, as N	6.9	mg / L	10	0.2	MW.1998.731-13	05/28/98

Client Sample ID: **98DS406** Sample Matrix: **WATER** Sample Collected: **05/18/98 14:00:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	*	Sequence	Run Date
SW846-8082 PCB									
9805179-07A	X98280	12674-11-2	Aroclor 1016	ND	ug / L	2.1739	0.5 E	XG.1998.491-5	05/22/98
	X98280	11104-28-2	Aroclor 1221	ND	ug / L	2.1739	0.5 E	XG.1998.491-5	
	X98280	11141-16-5	Aroclor 1232	ND	ug / L	2.1739	0.5 E	XG.1998.491-5	
	X98280	53469-21-9	Aroclor 1242	ND	ug / L	2.1739	0.5 E	XG.1998.491-5	
	X98280	12672-29-6	Aroclor 1248	ND	ug / L	2.1739	0.5 E	XG.1998.491-5	
	X98280	11097-69-1	Aroclor 1254	ND	ug / L	2.1739	0.5 E	XG.1998.491-5	
	X98280	11096-82-5	Aroclor 1260	ND	ug / L	2.1739	0.5 E	XG.1998.491-5	

Client Sample ID: **98DS407** Sample Matrix: **WATER** Sample Collected: **05/18/98 14:00:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	*	Sequence	Run Date
SW846-7.3									
9805179-08A	W98178		Cyanide, Reactive	ND	mg / Kg	1	250	MW.1998.721-13	05/27/98
	W98178		Sulfide, Reactive	ND	mg / Kg	1	500	MT.1998.1372-9	

Client Sample ID: **98DS408** Sample Matrix: **WATER** Sample Collected: **05/18/98 14:00:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	*	Sequence	Run Date
EPA-300.0 anions									
9805179-09A	W98182		Fluoride	ND	mg / L	1	0.5	MW.1998.740-40	05/28/98

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Client: **LOS ALAMOS NATIONAL LABS**
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Client Sample ID **98DS409** Sample Matrix **WATER** Sample Collected **05/18/98 14:00:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	Sequence	Run Date		
EPA-330.5										
9805179-10A	MW.1998.711	7782-50-5	Chlorine, Residual	ND	mg / L	1	0.1	2	MW.1998.711-7	05/21/98

Client Sample ID **98DS410** Sample Matrix **WATER** Sample Collected **05/18/98 14:00:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	Sequence	Run Date		
EPA 1664										
9805179-11A	OG98019		Oil & Grease	ND	mg / L	5	5	1E	MT.1998.1433-10	05/21/98

Client Sample ID **98DS411** Sample Matrix **WATER** Sample Collected **05/18/98 14:00:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	Sequence	Run Date		
SW846-8240 Volatiles										
9805179-12A	X98284	75-34-3	1,1 Dichloroethane	ND	ug / L	1	1		XG.1998.487-4	05/22/98
	X98284	75-35-4	1,1 Dichloroethene	ND	ug / L	1	1		XG.1998.487-4	
	X98284	71-55-6	1,1,1 Trichloroethane	ND	ug / L	1	1		XG.1998.487-4	
	X98284	630-20-6	1,1,1,2 Tetrachloroethane	ND	ug / L	1	1		XG.1998.487-4	
	X98284	79-00-5	1,1,2 Trichloroethane	ND	ug / L	1	1		XG.1998.487-4	
	X98284	79-34-5	1,1,2,2 Tetrachloroethane	ND	ug / L	1	1		XG.1998.487-4	
	X98284	106-93-4	1,2 Dibromoethane (EDB)	ND	ug / L	1	1		XG.1998.487-4	
	X98284	95-50-1	1,2 Dichlorobenzene	ND	ug / L	1	1		XG.1998.487-4	
	X98284	107-06-2	1,2 Dichloroethane	ND	ug / L	1	1		XG.1998.487-4	
	X98284	78-87-5	1,2 Dichloropropane	ND	ug / L	1	1		XG.1998.487-4	
	X98284	96-18-4	1,2,3 Trichloropropane	ND	ug / L	1	1		XG.1998.487-4	
	X98284	541-73-1	1,3 Dichlorobenzene	ND	ug / L	1	1		XG.1998.487-4	
	X98284	764-41-0	1,4 Dichloro-2-butene	ND	ug / L	1	10		XG.1998.487-4	
	X98284	106-46-7	1,4 Dichlorobenzene	ND	ug / L	1	1		XG.1998.487-4	
	X98284	78-93-3	2-Butanone (MEK)	ND	ug / L	1	5		XG.1998.487-4	
	X98284	110-75-8	2-Chloroethylvinylether	ND	ug / L	1	5		XG.1998.487-4	
	X98284	591-78-6	2-Hexanone (MBK)	ND	ug / L	1	5		XG.1998.487-4	
	X98284	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug / L	1	5		XG.1998.487-4	
	X98284	67-64-1	Acetone	11	ug / L	1	5		XG.1998.487-4	
	X98284	107-02-8	Acrolein	ND	ug / L	1	20		XG.1998.487-4	
	X98284	107-13-1	Acrylonitrile	ND	ug / L	1	20		XG.1998.487-4	
	X98284	71-43-2	Benzene	ND	ug / L	1	1		XG.1998.487-4	
	X98284	75-27-4	Bromodichloromethane	ND	ug / L	1	1		XG.1998.487-4	

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Sample ID	QC Group	CAS #	Chemical Name	Result	Units	Dilution Factor	Detection Limit	Sequence	Run Date
9805179-12A	X98284	75-25-2	Bromoform	ND	ug / L	1	1	XG. 1998.487-4	05/22/98
	X98284	74-83-9	Bromomethane	ND	ug / L	1	5	XG. 1998.487-4	
	X98284	75-15-0	Carbon disulfide	ND	ug / L	1	5	XG. 1998.487-4	
	X98284	56-23-5	Carbon tetrachloride	ND	ug / L	1	1	XG. 1998.487-4	
	X98284	108-90-7	Chlorobenzene	ND	ug / L	1	1	XG. 1998.487-4	
	X98284	124-48-1	Chlorodibromomethane	ND	ug / L	1	1	XG. 1998.487-4	
	X98284	75-00-3	Chloroethane	ND	ug / L	1	5	XG. 1998.487-4	
	X98284	67-66-3	Chloroform	ND	ug / L	1	1	XG. 1998.487-4	
	X98284	74-87-3	Chloromethane	ND	ug / L	1	5	XG. 1998.487-4	
	X98284	156-59-2	cis-1,2 dichloroethene	ND	ug / L	1	1	XG. 1998.487-4	
	X98284	10061-01-5	cis-1,3 dichloropropene	ND	ug / L	1	1	XG. 1998.487-4	
	X98284	74-95-3	Dibromomethane	ND	ug / L	1	1	XG. 1998.487-4	
	X98284	97-63-2	Ethyl methacrylate	ND	ug / L	1	5	XG. 1998.487-4	
	X98284	100-41-4	Ethylbenzene	ND	ug / L	1	1	XG. 1998.487-4	
	X98284		Freon 113	ND	ug / L	1	5	XG. 1998.487-4	
	X98284	75-71-8	Freon 12	ND	ug / L	1	10	XG. 1998.487-4	
	X98284	74-88-4	Iodomethane	ND	ug / L	1	5	XG. 1998.487-4	
	X98284	1634-04-4	Methyl t-butyl ether (MTBE)	ND	ug / L	1	1	XG. 1998.487-4	
	X98284	75-09-2	Methylene chloride	ND	ug / L	1	10	XG. 1998.487-4	
	X98284	95-47-6	o-Xylene	ND	ug / L	1	1	XG. 1998.487-4	
	X98284		p/m Xylenes	ND	ug / L	1	2	XG. 1998.487-4	
	X98284	100-42-5	Styrene	ND	ug / L	1	1	XG. 1998.487-4	
	X98284	156-60-5	t-1,2 Dichloroethene	ND	ug / L	1	1	XG. 1998.487-4	
	X98284	10061-02-6	t-1,3 Dichloropropene	ND	ug / L	1	1	XG. 1998.487-4	
	X98284	127-18-4	Tetrachloroethene	ND	ug / L	1	1	XG. 1998.487-4	
	X98284	108-88-3	Toluene	2.1	ug / L	1	1	XG. 1998.487-4	
	X98284	79-01-6	Trichloroethene	ND	ug / L	1	1	XG. 1998.487-4	
	X98284	75-69-4	Trichlorofluoromethane	ND	ug / L	1	5	XG. 1998.487-4	
	X98284	108-05-4	Vinyl acetate	ND	ug / L	1	5	XG. 1998.487-4	
	X98284	75-01-4	Vinyl chloride	ND	ug / L	1	5	XG. 1998.487-4	

Client **98DS412**
Sample ID

Sample Matrix **WATER**

Sample Collected **05/18/98 14:00:00**

Fraction	QC Group	CAS #	Chemical Name	Result	Units	Dilution Factor	Detection Limit *	Sequence	Run Date
SW846-8270 Semi-Volatiles									
9805179-13A	X98283	120-82-1	1,2,4-Trichlorobenzene	ND	ug / L	1.5464	1	XG. 1998.494-5	05/27/98
	X98283	95-50-1	1,2-Dichlorobenzene	ND	ug / L	1.5464	1	XG. 1998.494-5	
	X98283	541-73-1	1,3-Dichlorobenzene	ND	ug / L	1.5464	1	XG. 1998.494-5	
	X98283	106-46-7	1,4-Dichlorobenzene	ND	ug / L	1.5464	1	XG. 1998.494-5	
	X98283	90-12-0	1-Methylnaphthalene	ND	ug / L	1.5464	1	XG. 1998.494-5	
	X98283	58-90-2	2,3,4,6-Tetrachlorophenol	ND	ug / L	1.5464	5	XG. 1998.494-5	
	X98283	95-95-4	2,4,5-Trichlorophenol	ND	ug / L	1.5464	5	XG. 1998.494-5	
	X98283	88-06-2	2,4,6-Trichlorophenol	ND	ug / L	1.5464	5	XG. 1998.494-5	
	X98283	120-83-2	2,4-Dichlorophenol	ND	ug / L	1.5464	5	XG. 1998.494-5	
	X98283	105-67-9	2,4-Dimethylphenol	ND	ug / L	1.5464	1	XG. 1998.494-5	
	X98283	51-28-5	2,4-Dinitrophenol	ND	ug / L	1.5464	10	XG. 1998.494-5	

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9805179-13A	X98283	121-14-2	2,4-Dinitrotoluene	ND	ug / L	1.5464	5	XG.1998.494-5	05/27/98
	X98283	606-20-2	2,6-Dinitrotoluene	ND	ug / L	1.5464	5	XG.1998.494-5	
	X98283	91-58-7	2-Chloronaphthalene	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	95-57-8	2-Chlorophenol	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	91-57-6	2-Methylnaphthalene	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	95-48-7	2-Methylphenol	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	88-74-4	2-Nitroaniline	ND	ug / L	1.5464	5	XG.1998.494-5	
	X98283	88-75-5	2-Nitrophenol	ND	ug / L	1.5464	5	XG.1998.494-5	
	X98283		3+4 Methylphenol	1.6	ug / L	1.5464	1	XG.1998.494-5	
	X98283	91-94-1	3,3'-Dichlorobenzidine	ND	ug / L	1.5464	10	XG.1998.494-5	
	X98283	99-09-2	3-Nitroaniline	ND	ug / L	1.5464	5	XG.1998.494-5	
	X98283	534-52-1	4,6-Dinitro-2-methylphenol	ND	ug / L	1.5464	10	XG.1998.494-5	
	X98283	101-55-3	4-Bromophenyl-phenylether	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	59-50-7	4-Chloro-3-methylphenol	ND	ug / L	1.5464	5	XG.1998.494-5	
	X98283	106-47-8	4-Chloroaniline	ND	ug / L	1.5464	5	XG.1998.494-5	
	X98283	7005-72-3	4-Chlorophenyl-phenylether	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	100-01-6	4-Nitroaniline	ND	ug / L	1.5464	5	XG.1998.494-5	
	X98283	100-02-7	4-Nitrophenol	ND	ug / L	1.5464	10	XG.1998.494-5	
	X98283	83-32-9	Acenaphthene	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	208-96-8	Acenaphthylene	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	62-53-3	Aniline	ND	ug / L	1.5464	10	XG.1998.494-5	
	X98283	120-12-7	Anthracene	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283		Azobenzene&1,2-Diphenylhydrazine	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	56-55-3	Benzo (a) anthracene	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	50-32-8	Benzo(a)pyrene	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283		Benzo(b & k)fluoranthene	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	191-24-2	Benzo(g,h,i)perylene	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	64-85-0	Benzoic acid	ND	ug / L	1.5464	25	XG.1998.494-5	
	X98283	100-51-6	Benzyl alcohol	ND	ug / L	1.5464	5	XG.1998.494-5	
	X98283	111-44-4	bis (2-Chloroethyl) ether	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	111-91-1	bis(2-Chloroethoxy)methane	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	108-60-1	bis(2-Chloroisopropyl)ether	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	117-81-7	bis(2-Ethylhexyl)phthalate	ND	ug / L	1.5464	5	XG.1998.494-5	
	X98283	85-68-7	Butylbenzylphthalate	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	218-01-9	Chrysene	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	84-74-2	di-n-Butylphthalate	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	117-84-0	di-n-Octylphthalate	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	53-70-3	Dibenz(a,h)anthracene	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	132-64-9	Dibenzofuran	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	84-66-2	Diethylphthalate	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	131-11-3	Dimethylphthalate	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	206-44-0	Fluoranthene	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	86737	Fluorene	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	118-74-1	Hexachlorobenzene	ND	ug / L	1.5464	10	XG.1998.494-5	
	X98283	87-68-3	Hexachlorobutadiene	ND	ug / L	1.5464	10	XG.1998.494-5	
	X98283	77-47-4	Hexachlorocyclopentadiene	ND	ug / L	1.5464	10	XG.1998.494-5	
	X98283	67-72-1	Hexachloroethane	ND	ug / L	1.5464	5	XG.1998.494-5	
	X98283	193-39-5	Indeno(1,2,3-cd)pyrene	ND	ug / L	1.5464	1	XG.1998.494-5	
	X98283	78-59-1	Isophorone	ND	ug / L	1.5464	1	XG.1998.494-5	

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9805179-13A	X98283	621-64-7	n-Nitroso-di-n-propylamine	ND	ug / L	1.5464	1	XG. 1998.494-5	05/27/98
	X98283	62-75-9	n-Nitroso-dimethyl-amine	ND	ug / L	1.5464	10	XG. 1998.494-5	
	X98283	86-30-6	n-Nitrosodiphenylamine	ND	ug / L	1.5464	1	XG. 1998.494-5	
	X98283	91-20-3	Naphthalene	ND	ug / L	1.5464	1	XG. 1998.494-5	
	X98283	98-95-3	Nitrobenzene	ND	ug / L	1.5464	1	XG. 1998.494-5	
	X98283	87-86-5	Pentachlorophenol	ND	ug / L	1.5464	10	XG. 1998.494-5	
	X98283	85-01-8	Phenanthrene	ND	ug / L	1.5464	1	XG. 1998.494-5	
	X98283	108-95-2	Phenol	ND	ug / L	1.5464	10	XG. 1998.494-5	
	X98283	129-00-0	Pyrene	ND	ug / L	1.5464	1	XG. 1998.494-5	
	X98283	110-86-1	Pyridine	ND	ug / L	1.5464	10	XG. 1998.494-5	

Client Sample ID: **98DS413** Sample Matrix: **WATER** Sample Collected: **05/18/98 14:00:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit *	Sequence	Run Date
EPA-245.1 / SW846-7471								
9805179-14A	M98438	7439-97-6	Mercury	ND	mg / L	1	0.0002	MW.1998.754-13 06/02/98
SW846 7000 series AA-FL								
9805179-14A	M98414	7440-29-0	Thallium	ND	mg / L	1	0.1	MW.1998.778-14 06/04/98
SW846-6010 ICP								
9805179-14A	M98414	7429-90-5	Aluminum	ND	mg / L	5	0.5	MW.1998.736-36 05/30/98
	M98414	7440-36-0	Antimony	ND	mg / L	5	0.05	MW.1998.736-36
	M98414	7440-38-2	Arsenic	ND	mg / L	5	0.06	MW.1998.736-36
	M98414	7440-39-3	Barium	ND	mg / L	5	0.01	MW.1998.736-36
	M98414	7440-41-7	Beryllium	ND	mg / L	5	0.004	MW.1998.736-36
	M98414	7440-42-8	Boron	2.1	mg / L	10	0.1	MW.1998.774-22 06/03/98
	M98414	7440-43-9	Cadmium	ND	mg / L	5	0.008	MW.1998.736-36 05/30/98
	M98414	7440-70-2	Calcium	3.1	mg / L	5	0.4	MW.1998.736-36
	M98414	7440-47-3	Chromium	ND	mg / L	5	0.04	MW.1998.736-36
	M98414	7440-48-4	Cobalt	ND	mg / L	5	0.01	MW.1998.736-36
	M98414	7440-50-8	Copper	ND	mg / L	5	0.04	MW.1998.736-36
	M98414	7439-89-6	Iron	677	mg / L	5	0.2	MW.1998.736-36
	M98414	7439-95-4	Magnesium	ND	mg / L	5	0.2	MW.1998.736-36
	M98414	7439-96-5	Manganese	1.90	mg / L	5	0.01	MW.1998.736-36
	M98414	7440-02-0	Nickel	ND	mg / L	5	0.04	MW.1998.736-36
	M98414	7440-09-7	Potassium	ND	mg / L	5	0.4	MW.1998.736-36
	M98414	7782-49-2	Selenium	ND	mg / L	5	0.05	MW.1998.736-36
	M98414	7440-21-3	Silicon	ND	mg / L	10	0.5	MW.1998.784-20 06/04/98
	M98414	7440-22-4	Silver	ND	mg / L	5	0.02	MW.1998.736-36 05/30/98
	M98414	7440-23-5	Sodium	9.0	mg / L	5	0.4	MW.1998.736-36
	M98414	7440-62-2	Vanadium	ND	mg / L	5	0.008	MW.1998.736-36
	M98414	7440-86-6	Zinc	ND	mg / L	5	0.7	MW.1998.736-36
SW846-7000 series AA-FL								
9805179-14A	M98414	7439-92-1	Lead	ND	mg / L	1	0.1	MW.1998.755-32 06/02/98

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Client: **LOS ALAMOS NATIONAL LABS**
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*** Sample specific analytical Detection Limit is determined by multiplying the sample Dilution Factor by the listed method Detection Limit. ***

- footnote**
- 1 The recoveries for QC samples (OPR and Matrix Spike) were lower than QC criteria. The QC range is 79% to 114% recovery and the OPR had a 67% recovery while the matrix spike had 77% recovery. The matrix spike duplicate recovery was within criteria at 84% and the MS/MSD relative percent difference (RPD) was also within criteria at 9%. This criteria should be taken into account when reviewing the data.

The sample was received in plastic and therefore the result is estimated.
 - 2 This sample was utilized for the matrix spike and duplicate. Please note that the 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: **9805179 TA-55-RAMSEY Z#111503**

*** explanation of codes**

D	Not applicable due to sample dilution
L	Not applicable due to MDL proximity

M98444	M98444-004	Silver	2	(%) RPD	MW.1998.774 - 40	06/04/98
<i>TCLP SW846-7000 series AA-FL</i>						
M98444	M98444-004	Lead	22	(%) RPD	MW.1998.779 - 21	06/04/98
<i>TCLP SW846-7470</i>						
M98460	M98460-003	Mercury	2	(%) RPD	MW.1998.804 - 11	06/11/98

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

QC Group	Run ID		Result	Units	*	Run Group - #	Run Date
<i>TCLP SW846-6010 ICP</i>							
M98444	M98444-001	Arsenic	< 0.4	mg / L		MW.1998.790 - 28	06/08/98
	M98444-002	Arsenic	< 0.4	mg / L		MW.1998.790 - 29	
	M98444-001	Arsenic	< 0.4	mg / L		MW.1998.797 - 95	06/10/98
	M98444-002	Arsenic	< 0.4	mg / L		MW.1998.797 - 96	
	M98444-001	Barium	< 0.5	mg / L		MW.1998.774 - 37	06/03/98
	M98444-002	Barium	< 0.5	mg / L		MW.1998.774 - 38	
	M98444-001	Barium	< 0.5	mg / L		MW.1998.797 - 95	06/10/98
	M98444-002	Barium	< 0.5	mg / L		MW.1998.797 - 96	
	M98444-001	Cadmium	< 0.020	mg / L		MW.1998.774 - 37	06/03/98
	M98444-002	Cadmium	< 0.020	mg / L		MW.1998.774 - 38	
	M98444-001	Cadmium	< 0.020	mg / L		MW.1998.797 - 95	06/10/98
	M98444-002	Cadmium	< 0.020	mg / L		MW.1998.797 - 96	
	M98444-001	Chromium	< 0.02	mg / L		MW.1998.774 - 37	06/03/98
	M98444-002	Chromium	< 0.02	mg / L		MW.1998.774 - 38	
	M98444-001	Chromium	< 0.02	mg / L		MW.1998.797 - 95	06/10/98
	M98444-002	Chromium	< 0.02	mg / L		MW.1998.797 - 96	
	M98444-001	Selenium	< 0.05	mg / L		MW.1998.774 - 37	06/03/98
	M98444-002	Selenium	< 0.05	mg / L		MW.1998.774 - 38	
	M98444-001	Selenium	< 0.05	mg / L		MW.1998.797 - 95	06/10/98
	M98444-002	Selenium	< 0.05	mg / L		MW.1998.797 - 96	
	M98444-001	Silver	< 0.04	mg / L		MW.1998.774 - 37	06/03/98
	M98444-002	Silver	< 0.04	mg / L		MW.1998.774 - 38	
<i>TCLP SW846-7000 series AA-FL</i>							
M98444	M98444-001	Lead	< 0.1	mg / L		MW.1998.779 - 18	06/04/98
	M98444-002	Lead	< 0.1	mg / L		MW.1998.779 - 19	
<i>TCLP SW846-7470</i>							
M98460	M98460-001	Mercury	< 0.002	mg / L		MW.1998.804 - 9	06/11/98

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

QC Group	Run ID		Result	Units	*	Run Group - #	Run Date
<i>TCLP SW846-6010 ICP</i>							
M98444	M98444-010	Arsenic	84	(%) Recov		MW.1998.790 - 35	06/08/98

Assaigal Analytical Laboratories, Inc.
Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
 Project: **9805179 TA-55-RAMSEY Z#111503**

*** explanation of codes**

D	Not applicable due to sample dilution
L	Not applicable due to MDL proximity

QC Type	LCS: Lab Control Spike		QC Matrix	TCLP		
QC Group	Run ID	Result	Units	*	Run Group - #	Run Date
		<i>TCLP SW846-6010 ICP</i>				
M98444	M98444-003	Arsenic	84	(%) Recov	MW.1998.790 - 30	06/08/98
	M98444-003	Barium	98	(%) Recov	MW.1998.774 - 39	06/03/98
	M98444-003	Cadmium	96	(%) Recov	MW.1998.774 - 39	
	M98444-003	Chromium	95	(%) Recov	MW.1998.774 - 39	
	M98444-003	Selenium	101	(%) Recov	MW.1998.774 - 39	
	M98444-003	Silver	94	(%) Recov	MW.1998.774 - 39	
		<i>TCLP SW846-7000 series AA-FL</i>				
M98444	M98444-003	Lead	114	(%) Recov	MW.1998.779 - 20	06/04/98
		<i>TCLP SW846-7470</i>				
M98460	M98460-002	Mercury	101	(%) Recov	MW.1998.804 - 10	06/11/98

QC Type	LCSD: Lab Control Spike Duplicate Accuracy		QC Matrix	TCLP		
QC Group	Run ID	Result	Units	*	Run Group - #	Run Date
		<i>TCLP SW846-6010 ICP</i>				
M98444	M98444-004	Arsenic	80	(%) Recov	MW.1998.790 - 31	06/08/98
	M98444-004	Barium	96	(%) Recov	MW.1998.774 - 40	06/04/98
	M98444-004	Cadmium	92	(%) Recov	MW.1998.774 - 40	
	M98444-004	Chromium	93	(%) Recov	MW.1998.774 - 40	
	M98444-004	Selenium	99	(%) Recov	MW.1998.774 - 40	
	M98444-004	Silver	92	(%) Recov	MW.1998.774 - 40	
		<i>TCLP SW846-7000 series AA-FL</i>				
M98444	M98444-004	Lead	91	(%) Recov	MW.1998.779 - 21	06/04/98
		<i>TCLP SW846-7470</i>				
M98460	M98460-003	Mercury	103	(%) Recov	MW.1998.804 - 11	06/11/98

QC Type	LCSD: Lab Control Spike Duplicate Precision		QC Matrix	TCLP		
QC Group	Run ID	Result	Units	*	Run Group - #	Run Date
		<i>TCLP SW846-6010 ICP</i>				
M98444	M98444-004	Arsenic	4	(%) RPD	MW.1998.790 - 31	06/08/98
	M98444-004	Barium	2	(%) RPD	MW.1998.774 - 40	06/04/98
	M98444-004	Cadmium	4	(%) RPD	MW.1998.774 - 40	
	M98444-004	Chromium	3	(%) RPD	MW.1998.774 - 40	
	M98444-004	Selenium	1	(%) RPD	MW.1998.774 - 40	

Assaigal Analytical Laboratories, Inc.
Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
 Project: **9805179 TA-55-RAMSEY Z#111503**

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

QC Type: **LCS: Lab Control Spike** QC Matrix: **WASTE**

QC Group	Run ID	Result	Units	*	Run Group - #	Run Date
SW846-7.3						
W98178	W98178-002	Cyanide, Reactive	< 1	(%) Recov	MW.1998.721 - 5	05/27/98
	W98178(2)	Sulfide, Reactive	32	% Recovery	MT.1998.1372 - 2	

QC Type: **LCSD: Lab Control Spike Duplicate Accuracy** QC Matrix: **WASTE**

QC Group	Run ID	Result	Units	*	Run Group - #	Run Date
SW846-7.3						
W98178	W98178-010	Cyanide, Reactive	< 1	(%) Recov	MW.1998.721 - 6	05/27/98
	W98178(3)	Sulfide, Reactive	36	% Recovery	MT.1998.1372 - 3	

QC Type: **LCSD: Lab Control Spike Duplicate Precision** QC Matrix: **WASTE**

QC Group	Run ID	Result	Units	*	Run Group - #	Run Date
SW846-7.3						
W98178	W98178-010	Cyanide, Reactive	< 1	(%) RPD	MW.1998.721 - 6	05/27/98
	W98178(3)	Sulfide, Reactive	11	RPD	MT.1998.1372 - 3	

QC Type: **MB: Method Blank** QC Matrix: **WASTE**

QC Group	Run ID	Result	Units	*	Run Group - #	Run Date
SW846-7.3						
W98178	W98178-001	Cyanide, Reactive	< 250	mg / Kg	MW.1998.721 - 2	05/27/98
	W98178-015	Cyanide, Reactive	< 250	mg / Kg	MW.1998.721 - 3	
	W98178-019	Cyanide, Reactive	< 250	mg / Kg	MW.1998.721 - 4	
	W98178(1)	Sulfide, Reactive	< 500	mg / Kg	MT.1998.1372 - 1	

QC Type: **MD: Matrix Duplicate** QC Matrix: **WASTE**

QC Group	Run ID	Result	Units	*	Run Group - #	Run Date
SW846-7.3						
W98178	W98178-007	Cyanide, Reactive	< 1	(%) RPD	MW.1998.721 - 11	05/27/98

Assaigai Analytical Laboratories, Inc.
Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
 Project: **9805179 TA-55-RAMSEY Z#111503**

*** explanation of codes**

D	Not applicable due to sample dilution
L	Not applicable due to MDL proximity

QC Group	Run ID	Element	Result	Units	Run Group - #	Run Date
M98444	M98444-010	Barium	82	(%) Recov	MW.1998.774 - 46	06/04/98
	M98444-010	Cadmium	71	(%) Recov	MW.1998.774 - 46	
	M98444-010	Chromium	92	(%) Recov	MW.1998.774 - 46	
	M98444-010	Selenium	96	(%) Recov	MW.1998.774 - 46	
	M98444-010	Silver	97	(%) Recov	MW.1998.774 - 46	
TCLP SW846-7470						
M98460	M98460-005	Mercury	103	(%) Recov	MW.1998.804 - 13	06/11/98

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

QC Group	Run ID	Element	Result	Units	Run Group - #	Run Date
TCLP SW846-6010 ICP						
M98444	M98444-011	Arsenic	86	(%) Recov	MW.1998.790 - 36	06/08/98
	M98444-011	Barium	84	(%) Recov	MW.1998.774 - 49	06/04/98
	M98444-011	Cadmium	71	(%) Recov	MW.1998.774 - 49	
	M98444-011	Chromium	91	(%) Recov	MW.1998.774 - 49	
	M98444-011	Selenium	100	(%) Recov	MW.1998.774 - 49	
	M98444-011	Silver	98	(%) Recov	MW.1998.774 - 49	
TCLP SW846-7470						
M98460	M98460-006	Mercury	113	(%) Recov	MW.1998.804 - 14	06/11/98

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

QC Group	Run ID	Element	Result	Units	Run Group - #	Run Date
TCLP SW846-6010 ICP						
M98444	M98444-011	Arsenic	3	(%) RPD	MW.1998.790 - 36	06/08/98
	M98444-011	Barium	2	(%) RPD	MW.1998.774 - 49	06/04/98
	M98444-011	Cadmium	< 1	(%) RPD	MW.1998.774 - 49	
	M98444-011	Chromium	< 1	(%) RPD	MW.1998.774 - 49	
	M98444-011	Selenium	4	(%) RPD	MW.1998.774 - 49	
	M98444-011	Silver	1	(%) RPD	MW.1998.774 - 49	
TCLP SW846-7470						
M98460	M98460-006	Mercury	9	(%) RPD	MW.1998.804 - 14	06/11/98

Assaigal Analytical Laboratories, Inc.
Quality Control Summary

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 Project: **9805179 TA-55-RAMSEY Z#111503**

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

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

QC Group	Run ID	Result	Units	*	Run Group - #	Run Date
EPA 1664						
OG98019	OG98019(2)	Oil & Grease	67	% Recovery	MT.1998.1433 - 2	05/21/98
EPA-160.2						
TSS98027	TSS98027(2)	Total Suspended Solids	77	% Recovery	MT.1998.1381 - 2	05/22/98
EPA-245.1 / SW846-7471						
M98438	M98438-002	Mercury	106	(%) Recov	MW.1998.754 - 9	06/02/98
EPA-300.0 anions						
W98182	W98182-002	Fluoride	100	% Recovery	MW.1998.740 - 29	05/27/98
	W98182-002	Nitrate, as N	99	% Recovery	MW.1998.740 - 29	
	W98182-002	Nitrite, as N	96	% Recovery	MW.1998.740 - 29	
EPA-330.5						
MW.1998.711	[LCS]	Chlorine, Residual	103	(%) Recov	MW.1998.711 - 4	05/21/98
EPA-410.1						
COD98014	COD98014(1)	Chemical Oxygen Demand	110	% Recovery	MT.1998.1379 - 1	05/28/98
	COD98014(10)	Chemical Oxygen Demand	103	% Recovery	MT.1998.1379 - 10	
SM-4500-N & NH3B,C						
W98181	W98181-004	Kjeldahl Nitrogen, Total	104	(%) Recov	MW.1998.722 - 5	05/27/98
SM-4500-NH3B,C						
W98184	W98184-004	Ammonia, as N	103	(%) Recov	MW.1998.731 - 5	05/28/98
SW846 7000 series AA-FL						
M98414	M98414-002	Thallium	94	(%) Recov	MW.1998.778 - 9	06/04/98
SW846-6010 ICP						
M98414	M98414-002	Aluminum	100	(%) Recov	MW.1998.736 - 30	05/30/98
	M98414-002	Antimony	97	(%) Recov	MW.1998.736 - 30	
	M98414-002	Arsenic	104	(%) Recov	MW.1998.730 - 58	05/28/98
	M98414-002	Arsenic	93	(%) Recov	MW.1998.736 - 30	05/30/98
	M98414-002	Barium	99	(%) Recov	MW.1998.730 - 58	05/28/98
	M98414-002	Barium	98	(%) Recov	MW.1998.736 - 30	05/30/98
	M98414-002	Beryllium	97	(%) Recov	MW.1998.736 - 30	
	M98414-002	Boron	96	(%) Recov	MW.1998.774 - 17	06/03/98
	M98414-002	Cadmium	103	(%) Recov	MW.1998.730 - 58	05/28/98
	M98414-002	Cadmium	95	(%) Recov	MW.1998.736 - 30	05/30/98
	M98414-002	Calcium	106	(%) Recov	MW.1998.736 - 30	
	M98414-002	Chromium	96	(%) Recov	MW.1998.730 - 58	05/28/98
	M98414-002	Chromium	98	(%) Recov	MW.1998.736 - 30	05/30/98
	M98414-002	Cobalt	96	(%) Recov	MW.1998.736 - 30	
	M98414-002	Copper	94	(%) Recov	MW.1998.736 - 30	
	M98414-002	Iron	108	(%) Recov	MW.1998.736 - 30	
	M98414-002	Magnesium	102	(%) Recov	MW.1998.736 - 30	
	M98414-002	Manganese	96	(%) Recov	MW.1998.736 - 30	

Quality Control Summary

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Project: **9805179 TA-55-RAMSEY Z#111503**

*** explanation of codes**

D	Not applicable due to sample dilution
L	Not applicable due to MDL proximity

W98178	W98178(8)	Sulfide, Reactive	N/A	RPD	MT.1998.1372 - 8	05/27/98
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Assagai Analytical Laboratories, Inc.
Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
 Project: **9805179 TA-55-RAMSEY Z#111503**

* explanation of codes

D	Not applicable due to sample dilution
L	Not applicable due to MDL proximity

Sample ID	Reference	Parameter	Value	Unit/Note	Location	Date
EPA-330.5						
MW.1998.711	[LCSD]	Chlorine, Residual	102	(%) Recov	MW.1998.711 - 5	05/21/98
EPA-410.1						
COD98014	COD98014(2)	Chemical Oxygen Demand	98	% Recovery	MT.1998.1379 - 2	05/28/98
	COD98014(11)	Chemical Oxygen Demand	103	% Recovery	MT.1998.1379 - 11	
SM-4500-N & NH3B,C						
W98181	W98181-005	Kjeldahl Nitrogen, Total	102	(%) Recov	MW.1998.722 - 6	05/27/98
SM-4500-NH3B,C						
W98184	W98184-005	Ammonia, as N	103	(%) Recov	MW.1998.731 - 6	05/28/98
SW846 7000 series AA-FL						
M98414	M98414-003	Thallium	97	(%) Recov	MW.1998.778 - 10	06/04/98
SW846-6010 ICP						
M98414	M98414-003	Aluminum	96	(%) Recov	MW.1998.736 - 31	05/30/98
	M98414-003	Antimony	94	(%) Recov	MW.1998.736 - 31	
	M98414-003	Arsenic	105	(%) Recov	MW.1998.730 - 59	05/28/98
	M98414-003	Arsenic	93	(%) Recov	MW.1998.736 - 31	05/30/98
	M98414-003	Barium	97	(%) Recov	MW.1998.736 - 31	
	M98414-003	Beryllium	103	(%) Recov	MW.1998.730 - 59	05/28/98
	M98414-003	Beryllium	96	(%) Recov	MW.1998.736 - 31	05/30/98
	M98414-003	Boron	97	(%) Recov	MW.1998.774 - 18	06/03/98
	M98414-003	Cadmium	106	(%) Recov	MW.1998.730 - 59	05/28/98
	M98414-003	Cadmium	95	(%) Recov	MW.1998.736 - 31	05/30/98
	M98414-003	Calcium	102	(%) Recov	MW.1998.736 - 31	
	M98414-003	Chromium	99	(%) Recov	MW.1998.730 - 59	05/28/98
	M98414-003	Chromium	97	(%) Recov	MW.1998.736 - 31	05/30/98
	M98414-003	Cobalt	96	(%) Recov	MW.1998.736 - 31	
	M98414-003	Copper	93	(%) Recov	MW.1998.736 - 31	
	M98414-003	Iron	102	(%) Recov	MW.1998.736 - 31	
	M98414-003	Magnesium	100	(%) Recov	MW.1998.736 - 31	
	M98414-003	Manganese	96	(%) Recov	MW.1998.736 - 31	
	M98414-003	Nickel	99	(%) Recov	MW.1998.736 - 31	
	M98414-003	Potassium	97	(%) Recov	MW.1998.736 - 31	
	M98414-003	Selenium	90	(%) Recov	MW.1998.736 - 31	
	M98414-003	Silicon	92	(%) Recov	MW.1998.784 - 18	06/04/98
	M98414-003	Silver	95	(%) Recov	MW.1998.736 - 31	05/30/98
	M98414-003	Sodium	97	(%) Recov	MW.1998.736 - 31	
	M98414-003	Vanadium	95	(%) Recov	MW.1998.736 - 31	
	M98414-003	Vanadium	98	(%) Recov	MW.1998.784 - 18	06/04/98
	M98414-003	Zinc	97	(%) Recov	MW.1998.736 - 31	05/30/98
SW846-7000 series AA-FL						
M98414	M98414-003	Lead	83	(%) Recov	MW.1998.755 - 26	06/02/98
SW846-8240 Volatiles						
X98284	X98284-011	1,1 Dichloroethene	106	% Recovery	XG.1998.487 - 9	05/22/98
	X98284-011	Benzene	98	% Recovery	XG.1998.487 - 9	
	X98284-011	Chlorobenzene	97	% Recovery	XG.1998.487 - 9	
	X98284-011	Toluene	97	% Recovery	XG.1998.487 - 9	
	X98284-011	Trichloroethene	98	% Recovery	XG.1998.487 - 9	

Assagai Analytical Laboratories, Inc.
Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
Project: **9805179 TA-55-RAMSEY Z#111503**

*** explanation of codes**

D	Not applicable due to sample dilution
L	Not applicable due to MDL proximity

M98414	M98414-002	Nickel	99	(%) Recov	MW.1998.736 - 30	05/30/98
	M98414-002	Potassium	98	(%) Recov	MW.1998.736 - 30	
	M98414-002	Selenium	90	(%) Recov	MW.1998.736 - 30	
	M98414-002	Silicon	104	(%) Recov	MW.1998.784 - 17	06/04/98
	M98414-002	Silver	96	(%) Recov	MW.1998.736 - 30	05/30/98
	M98414-002	Sodium	97	(%) Recov	MW.1998.736 - 30	
	M98414-002	Vanadium	96	(%) Recov	MW.1998.736 - 30	
	M98414-002	Vanadium	98	(%) Recov	MW.1998.784 - 17	06/04/98
	M98414-002	Zinc	98	(%) Recov	MW.1998.736 - 30	05/30/98
SW846-7000 series AA-FL						
M98414	M98414-002	Lead	85	(%) Recov	MW.1998.755 - 25	06/02/98
SW846-8082 PCB						
X98280	X98280-002	Aroclor 1260	80	% Recovery	XG.1998.491 - 3	05/22/98
SW846-8240 Volatiles						
X98284	X98284-010	1,1 Dichloroethene	104	% Recovery	XG.1998.487 - 8	05/22/98
	X98284-010	Benzene	96	% Recovery	XG.1998.487 - 8	
	X98284-010	Chlorobenzene	95	% Recovery	XG.1998.487 - 8	
	X98284-010	Toluene	95	% Recovery	XG.1998.487 - 8	
	X98284-010	Trichloroethene	96	% Recovery	XG.1998.487 - 8	
SW846-8270 Semi-Volatiles						
X98283	X98283-002	1,2,4-Trichlorobenzene	61	% Recovery	XG.1998.494 - 1	05/26/98
	X98283-002	1,4-Dichlorobenzene	59	% Recovery	XG.1998.494 - 1	
	X98283-002	2,4-Dinitrotoluene	64	% Recovery	XG.1998.494 - 1	
	X98283-002	2-Chlorophenol	63	% Recovery	XG.1998.494 - 1	
	X98283-002	4-Chloro-3-methylphenol	62	% Recovery	XG.1998.494 - 1	
	X98283-002	4-Nitrophenol	25	% Recovery	XG.1998.494 - 1	
	X98283-002	Acenaphthene	63	% Recovery	XG.1998.494 - 1	
	X98283-002	n-Nitroso-di-n-propylamine	64	% Recovery	XG.1998.494 - 1	
	X98283-002	Pentachlorophenol	60	% Recovery	XG.1998.494 - 1	
	X98283-002	Phenol	29	% Recovery	XG.1998.494 - 1	
	X98283-002	Pyrene	64	% Recovery	XG.1998.494 - 1	

QC Type **LCS D: Lab Control Spike Duplicate Accuracy** QC Matrix **WATER**

QC Group	Run ID	Result	Units	*	Run Group - #	Run Date
EPA-160.2						
TSS98027	TSS98027(3)	Total Suspended Solids	78	% Recovery	MT.1998.1381 - 3	05/22/98
EPA-245.1 / SW846-7471						
M98438	M98438-003	Mercury	104	(%) Recov	MW.1998.754 - 10	06/02/98
EPA-300.0 anions						
W98182	W98182-003	Fluoride	101	% Recovery	MW.1998.740 - 30	05/27/98
	W98182-003	Nitrate, as N	99	% Recovery	MW.1998.740 - 30	
	W98182-003	Nitrite, as N	101	% Recovery	MW.1998.740 - 30	

Assaigal Analytical Laboratories, Inc.
Quality Control Summary

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*** explanation of codes**

D	Not applicable due to sample dilution
L	Not applicable due to MDL proximity

M98414	M98414-003	Boron	< 1	(%) RPD	MW.1998.774 - 18	06/03/98
	M98414-003	Cadmium	3	(%) RPD	MW.1998.730 - 59	05/28/98
	M98414-003	Cadmium	< 1	(%) RPD	MW.1998.736 - 31	05/30/98
	M98414-003	Calcium	3	(%) RPD	MW.1998.736 - 31	
	M98414-003	Chromium	3	(%) RPD	MW.1998.730 - 59	05/28/98
	M98414-003	Chromium	1	(%) RPD	MW.1998.736 - 31	05/30/98
	M98414-003	Cobalt	< 1	(%) RPD	MW.1998.736 - 31	
	M98414-003	Copper	1	(%) RPD	MW.1998.736 - 31	
	M98414-003	Iron	6	(%) RPD	MW.1998.736 - 31	
	M98414-003	Magnesium	2	(%) RPD	MW.1998.736 - 31	
	M98414-003	Manganese	< 1	(%) RPD	MW.1998.736 - 31	
	M98414-003	Nickel	< 1	(%) RPD	MW.1998.736 - 31	
	M98414-003	Potassium	< 1	(%) RPD	MW.1998.736 - 31	
	M98414-003	Selenium	< 1	(%) RPD	MW.1998.736 - 31	
	M98414-003	Silicon	12	(%) RPD	MW.1998.784 - 18	06/04/98
	M98414-003	Silver	2	(%) RPD	MW.1998.736 - 31	05/30/98
	M98414-003	Sodium	< 1	(%) RPD	MW.1998.736 - 31	
	M98414-003	Vanadium	1	(%) RPD	MW.1998.736 - 31	
	M98414-003	Vanadium	< 1	(%) RPD	MW.1998.784 - 18	06/04/98
	M98414-003	Zinc	1	(%) RPD	MW.1998.736 - 31	05/30/98
SW846-7000 series AA-FL						
M98414	M98414-003	Lead	1	(%) RPD	MW.1998.755 - 26	06/02/98
SW846-8240 Volatiles						
X98284	X98284-011	1,1 Dichloroethene	1	RPD	XG.1998.487 - 9	05/22/98
	X98284-011	Benzene	2	RPD	XG.1998.487 - 9	
	X98284-011	Chlorobenzene	2	RPD	XG.1998.487 - 9	
	X98284-011	Toluene	2	RPD	XG.1998.487 - 9	
	X98284-011	Trichloroethene	2	RPD	XG.1998.487 - 9	
SW846-8270 Semi-Volatiles						
X98283	X98283-003	1,2,4-Trichlorobenzene	5	RPD	XG.1998.494 - 2	05/27/98
	X98283-003	1,4-Dichlorobenzene	3	RPD	XG.1998.494 - 2	
	X98283-003	2,4-Dinitrotoluene	4	RPD	XG.1998.494 - 2	
	X98283-003	2-Chlorophenol	3	RPD	XG.1998.494 - 2	
	X98283-003	4-Chloro-3-methylphenol	5	RPD	XG.1998.494 - 2	
	X98283-003	4-Nitrophenol	4	RPD	XG.1998.494 - 2	
	X98283-003	Acenaphthene	4	RPD	XG.1998.494 - 2	
	X98283-003	n-Nitroso-di-n-propylamine	3	RPD	XG.1998.494 - 2	
	X98283-003	Pentachlorophenol	2	RPD	XG.1998.494 - 2	
	X98283-003	Phenol	4	RPD	XG.1998.494 - 2	
	X98283-003	Pyrene	4	RPD	XG.1998.494 - 2	

QC Type

MB: Method Blank

QC Matrix

WATER

QC Group	Run ID	Result	Units	Run Group - #	Run Date
OG98019	OG98019(1)	EPA 1664 Oil & Grease	< 5.0 mg / L	MT.1998.1433 - 1	05/21/98

Assaigai Analytical Laboratories, Inc.
Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
 Project: **9805179 TA-55-RAMSEY Z#111503**

*** explanation of codes**

D	Not applicable due to sample dilution
L	Not applicable due to MDL proximity

SW846-8270 Semi-Volatiles

QC	Run ID	Result	Units	* Explanation	Run Date
X98283	X98283-003	1,2,4-Trichlorobenzene	58	% Recovery	XG.1998.494 - 2 05/27/98
	X98283-003	1,4-Dichlorobenzene	57	% Recovery	XG.1998.494 - 2
	X98283-003	2,4-Dinitrotoluene	62	% Recovery	XG.1998.494 - 2
	X98283-003	2-Chlorophenol	61	% Recovery	XG.1998.494 - 2
	X98283-003	4-Chloro-3-methylphenol	59	% Recovery	XG.1998.494 - 2
	X98283-003	4-Nitrophenol	24	% Recovery	XG.1998.494 - 2
	X98283-003	Acenaphthene	60	% Recovery	XG.1998.494 - 2
	X98283-003	n-Nitroso-di-n-propylamine	62	% Recovery	XG.1998.494 - 2
	X98283-003	Pentachlorophenol	59	% Recovery	XG.1998.494 - 2
	X98283-003	Phenol	28	% Recovery	XG.1998.494 - 2
	X98283-003	Pyrene	62	% Recovery	XG.1998.494 - 2

QC Type LCSD: Lab Control Spike Duplicate Precision QC Matrix WATER

QC Group	Run ID	Result	Units	* Explanation	Run Group - #	Run Date
EPA-160.2						
TSS98027	TSS98027(3)	Total Suspended Solids	< 1	PFA	MT.1998.1381 - 3	05/22/98
EPA-245.1 / SW846-7471						
M98438	M98438-003	Mercury	2	(%) RPD	MW.1998.754 - 10	06/02/98
EPA-300.0 anions						
W98182	W98182-003	Fluoride	< 1	RPD	MW.1998.740 - 30	05/27/98
	W98182-003	Nitrate, as N	< 1	RPD	MW.1998.740 - 30	
	W98182-003	Nitrite, as N	5	RPD	MW.1998.740 - 30	
EPA-330.5						
MW.1998.711	[LCSD]	Chlorine, Residual	< 1	(%) RPD	MW.1998.711 - 5	05/21/98
EPA-410.1						
COD98014	COD98014(2)	Chemical Oxygen Demand	11	RPD	MT.1998.1379 - 2	05/28/98
	COD98014(11)	Chemical Oxygen Demand	< 1	RPD	MT.1998.1379 - 11	
SM-4500-N & NH3B,C						
W98181	W98181-005	Kjeldahl Nitrogen, Total	2	(%) RPD	MW.1998.722 - 6	05/27/98
SM-4500-NH3B,C						
W98184	W98184-005	Ammonia, as N	< 1	(%) RPD	MW.1998.731 - 6	05/28/98
SW846 7000 series AA-FL						
M98414	M98414-003	Thallium	3	(%) RPD	MW.1998.778 - 10	06/04/98
SW846-6010 ICP						
M98414	M98414-003	Aluminum	4	(%) RPD	MW.1998.736 - 31	05/30/98
	M98414-003	Antimony	3	(%) RPD	MW.1998.736 - 31	
	M98414-003	Arsenic	1	(%) RPD	MW.1998.730 - 59	05/28/98
	M98414-003	Arsenic	< 1	(%) RPD	MW.1998.736 - 31	05/30/98
	M98414-003	Barium	1	(%) RPD	MW.1998.730 - 59	05/28/98
	M98414-003	Barium	< 1	(%) RPD	MW.1998.736 - 31	05/30/98
	M98414-003	Beryllium	< 1	(%) RPD	MW.1998.736 - 31	

Quality Control Summary

Client: LOS ALAMOS NATIONAL LABS
 Project: 9805179 TA-55-RAMSEY Z#111503

* explanation of codes

D Not applicable due to sample dilution
 L Not applicable due to MDL proximity

		SW846-7000 series AA-FL			
M98414	M98414-001	Lead	< 0.1	mg / L	MW.1998.755 - 24 06/02/98
		SW846-8082 PCB			
X98280	X98280-001	Aroclor 1016	< 0.50	ug / L	XG.1998.491 - 1 05/22/98
	X98280-001	Aroclor 1221	< 0.50	ug / L	XG.1998.491 - 1
	X98280-001	Aroclor 1232	< 0.50	ug / L	XG.1998.491 - 1
	X98280-001	Aroclor 1242	< 0.50	ug / L	XG.1998.491 - 1
	X98280-001	Aroclor 1248	< 0.50	ug / L	XG.1998.491 - 1
	X98280-001	Aroclor 1254	< 0.50	ug / L	XG.1998.491 - 1
	X98280-001	Aroclor 1260	< 0.50	ug / L	XG.1998.491 - 1
		SW846-8240 Volatiles			
X98284	X98284-001	1,1 Dichloroethane	< 1.0	ug / L	XG.1998.487 - 1 05/22/98
	X98284-001	1,1 Dichloroethene	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	1,1,1 Trichloroethane	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	1,1,1,2 Tetrachloroethane	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	1,1,2 Trichloroethane	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	1,1,2,2 Tetrachloroethane	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	1,2 Dibromoethane (EDB)	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	1,2 Dichlorobenzene	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	1,2 Dichloroethane	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	1,2 Dichloropropane	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	1,2,3 Trichloropropane	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	1,3 Dichlorobenzene	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	1,4 Dichloro-2-butene	< 10	ug / L	XG.1998.487 - 1
	X98284-001	1,4 Dichlorobenzene	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	2-Butanone (MEK)	< 5.0	ug / L	XG.1998.487 - 1
	X98284-001	2-Chloroethylvinylether	< 5.0	ug / L	XG.1998.487 - 1
	X98284-001	2-Hexanone (MBK)	< 5.0	ug / L	XG.1998.487 - 1
	X98284-001	4-Methyl-2-pentanone (MIBK)	< 5.0	ug / L	XG.1998.487 - 1
	X98284-001	Acetone	< 5.0	ug / L	XG.1998.487 - 1
	X98284-001	Acrolein	< 20	ug / L	XG.1998.487 - 1
	X98284-001	Acrylonitrile	< 20	ug / L	XG.1998.487 - 1
	X98284-001	Benzene	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	Bromodichloromethane	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	Bromoform	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	Bromomethane	< 5.0	ug / L	XG.1998.487 - 1
	X98284-001	Carbon disulfide	< 5.0	ug / L	XG.1998.487 - 1
	X98284-001	Carbon tetrachloride	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	Chlorobenzene	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	Chlorodibromomethane	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	Chloroethane	< 5.0	ug / L	XG.1998.487 - 1
	X98284-001	Chloroform	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	Chloromethane	< 5.0	ug / L	XG.1998.487 - 1
	X98284-001	cis-1,2 dichloroethene	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	cis-1,3 dichloropropene	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	Dibromomethane	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	Ethyl methacrylate	< 5.0	ug / L	XG.1998.487 - 1
	X98284-001	Ethylbenzene	< 1.0	ug / L	XG.1998.487 - 1
	X98284-001	Freon 113	< 5.0	ug / L	XG.1998.487 - 1

Assaigai Analytical Laboratories, Inc.
Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
 Project: **9805179 TA-55-RAMSEY Z#111503**

*** explanation of codes**

D Not applicable due to sample dilution
 L Not applicable due to MDL proximity

Client ID	Sample ID	Parameter	Result	Unit	Reference	Date
EPA-160.2						
TSS98027	TSS98027(1)	Total Suspended Solids	< 4.0	mg / L	MT.1998.1381 - 1	05/22/98
	TSS98027(20)	Total Suspended Solids	< 4.0	mg / L	MT.1998.1381 - 20	05/26/98
EPA-245.1 / SW846-7471						
M98438	M98438-001	Mercury	< 0.0002	mg / L	MW.1998.754 - 8	06/02/98
EPA-300.0 anions						
W98182	W98182-001	Fluoride	< 0.5	mg / L	MW.1998.740 - 28	05/27/98
	W98182-001	Nitrate, as N	< 0.2	mg / L	MW.1998.740 - 28	
	W98182-001	Nitrite, as N	< 0.2	mg / L	MW.1998.740 - 28	
EPA-330.5						
MW.1998.711	[MB]	Chlorine, Residual	< 0.1	mg / L	MW.1998.711 - 3	05/21/98
SM-4500-N & NH3B,C						
W98181	W98181-001	Kjeldahl Nitrogen, Total	< 0.2	mg / L	MW.1998.722 - 2	05/27/98
SM-4500-NH3B,C						
W98184	W98184-001	Ammonia, as N	< 0.2	mg / L	MW.1998.731 - 2	05/28/98
SW846 7000 series AA-FL						
M98414	M98414-001	Thallium	< 0.1	mg / L	MW.1998.778 - 8	06/04/98
SW846-6010 ICP						
M98414	M98414-001	Aluminum	< 0.5	mg / L	MW.1998.736 - 29	05/30/98
	M98414-001	Antimony	< 0.05	mg / L	MW.1998.736 - 29	
	M98414-001	Arsenic	< 0.06	mg / L	MW.1998.730 - 57	05/28/98
	M98414-001	Arsenic	< 0.06	mg / L	MW.1998.736 - 29	05/30/98
	M98414-001	Barium	< 0.01	mg / L	MW.1998.730 - 57	05/28/98
	M98414-001	Barium	< 0.01	mg / L	MW.1998.736 - 29	05/30/98
	M98414-001	Beryllium	< 0.004	mg / L	MW.1998.736 - 29	
	M98414-001	Boron	< 0.1	mg / L	MW.1998.774 - 16	06/03/98
	M98414-001	Cadmium	< 0.008	mg / L	MW.1998.730 - 57	05/28/98
	M98414-001	Cadmium	< 0.008	mg / L	MW.1998.736 - 29	05/30/98
	M98414-001	Calcium	< 0.4	mg / L	MW.1998.736 - 29	
	M98414-001	Chromium	< 0.04	mg / L	MW.1998.730 - 57	05/28/98
	M98414-001	Chromium	< 0.04	mg / L	MW.1998.736 - 29	05/30/98
	M98414-001	Cobalt	< 0.01	mg / L	MW.1998.736 - 29	
	M98414-001	Copper	< 0.04	mg / L	MW.1998.736 - 29	
	M98414-001	Iron	< 0.2	mg / L	MW.1998.736 - 29	
	M98414-001	Magnesium	< 0.2	mg / L	MW.1998.736 - 29	
	M98414-001	Manganese	< 0.010	mg / L	MW.1998.736 - 29	
	M98414-001	Nickel	< 0.04	mg / L	MW.1998.736 - 29	
	M98414-001	Potassium	< 0.4	mg / L	MW.1998.736 - 29	
	M98414-001	Selenium	< 0.05	mg / L	MW.1998.736 - 29	
	M98414-001	Silicon	< 0.5	mg / L	MW.1998.784 - 16	06/04/98
	M98414-001	Silver	< 0.02	mg / L	MW.1998.736 - 29	05/30/98
	M98414-001	Sodium	< 0.4	mg / L	MW.1998.736 - 29	
	M98414-001	Vanadium	< 0.008	mg / L	MW.1998.736 - 29	
	M98414-001	Vanadium	< 0.008	mg / L	MW.1998.784 - 16	06/04/98
	M98414-001	Zinc	< 0.7	mg / L	MW.1998.736 - 29	05/30/98

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
 Project: **9805179 TA-55-RAMSEY Z#111503**

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

QC ID	Sample ID	Compound	Concentration	Units	Code	Date
X98283	X98283-001	Benzo (a) anthracene	< 1.5	ug / L	XG.1998.494 - 3	05/27/98
	X98283-001	Benzo(a)pyrene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	Benzo(b & k)fluoranthene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	Benzo(g,h,i)perylene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	Benzoic acid	< 38	ug / L	XG.1998.494 - 3	
	X98283-001	Benzyl alcohol	< 7.5	ug / L	XG.1998.494 - 3	
	X98283-001	bis (2-Chloroethyl) ether	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	bis(2-Chloroethoxy)methane	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	bis(2-Chloroisopropyl)ether	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	bis(2-Ethylhexyl)phthalate	< 7.5	ug / L	XG.1998.494 - 3	
	X98283-001	Butylbenzylphthalate	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	Chrysene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	di-n-Butylphthalate	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	di-n-Octylphthalate	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	Dibenz(a,h)anthracene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	Dibenzofuran	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	Diethylphthalate	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	Dimethylphthalate	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	Fluoranthene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	Fluorene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	Hexachlorobenzene	< 15	ug / L	XG.1998.494 - 3	
	X98283-001	Hexachlorobutadiene	< 15	ug / L	XG.1998.494 - 3	
	X98283-001	Hexachlorocyclopentadiene	< 15	ug / L	XG.1998.494 - 3	
	X98283-001	Hexachloroethane	< 7.5	ug / L	XG.1998.494 - 3	
	X98283-001	Indeno(1,2,3-cd)pyrene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	Isophorone	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	n-Nitroso-di-n-propylamine	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	n-Nitroso-dimethyl-amine	< 15	ug / L	XG.1998.494 - 3	
	X98283-001	n-Nitrosodiphenylamine	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	Naphthalene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	Nitrobenzene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	Pentachlorophenol	< 15	ug / L	XG.1998.494 - 3	
	X98283-001	Phenanthrene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	Phenol	< 15	ug / L	XG.1998.494 - 3	
	X98283-001	Pyrene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	Pyridine	< 15	ug / L	XG.1998.494 - 3	

QC Type **MD: Matrix Duplicate** QC Matrix **WATER**

QC Group	Run ID	Result	Units	Run Group - #	Run Date
EPA 1664					
OG98019	OG98019(6)	Oil & Grease	NA	RPD	MT.1998.1433 - 6 05/21/98
EPA-160.2					
TSS98027	TSS98027(18)	Total Suspended Solids	6	PFA	MT.1998.1381 - 18 05/22/98

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
 Project: **9805179 TA-55-RAMSEY Z#111503**

*** explanation of codes**

D	Not applicable due to sample dilution
L	Not applicable due to MDL proximity

X98284	X98284-001	Freon 12	< 10	ug / L	XG.1998.487 - 1	05/22/98
	X98284-001	Iodomethane	< 5.0	ug / L	XG.1998.487 - 1	
	X98284-001	Methyl t-butyl ether (MTBE)	< 1.0	ug / L	XG.1998.487 - 1	
	X98284-001	Methylene chloride	< 10	ug / L	XG.1998.487 - 1	
	X98284-001	o-Xylene	< 1.0	ug / L	XG.1998.487 - 1	
	X98284-001	p/m Xylenes	< 2.0	ug / L	XG.1998.487 - 1	
	X98284-001	Styrene	< 1.0	ug / L	XG.1998.487 - 1	
	X98284-001	t-1,2 Dichloroethene	< 1.0	ug / L	XG.1998.487 - 1	
	X98284-001	t-1,3 Dichloropropene	< 1.0	ug / L	XG.1998.487 - 1	
	X98284-001	Tetrachloroethene	< 1.0	ug / L	XG.1998.487 - 1	
	X98284-001	Toluene	< 1.0	ug / L	XG.1998.487 - 1	
	X98284-001	Trichloroethene	< 1.0	ug / L	XG.1998.487 - 1	
	X98284-001	Trichlorofluoromethane	< 5.0	ug / L	XG.1998.487 - 1	
	X98284-001	Vinyl acetate	< 5.0	ug / L	XG.1998.487 - 1	
	X98284-001	Vinyl chloride	< 5.0	ug / L	XG.1998.487 - 1	
		SW846-8270 Semi-Volatiles				
X98283	X98283-001	1,2,4-Trichlorobenzene	< 1.5	ug / L	XG.1998.494 - 3	05/27/98
	X98283-001	1,2-Dichlorobenzene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	1,3-Dichlorobenzene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	1,4-Dichlorobenzene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	1-Methylnaphthalene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	2,3,4,6-Tetrachlorophenol	< 7.5	ug / L	XG.1998.494 - 3	
	X98283-001	2,4,5-Trichlorophenol	< 7.5	ug / L	XG.1998.494 - 3	
	X98283-001	2,4,6-Trichlorophenol	< 7.5	ug / L	XG.1998.494 - 3	
	X98283-001	2,4-Dichlorophenol	< 7.5	ug / L	XG.1998.494 - 3	
	X98283-001	2,4-Dimethylphenol	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	2,4-Dinitrophenol	< 15	ug / L	XG.1998.494 - 3	
	X98283-001	2,4-Dinitrotoluene	< 7.5	ug / L	XG.1998.494 - 3	
	X98283-001	2,6-Dinitrotoluene	< 7.5	ug / L	XG.1998.494 - 3	
	X98283-001	2-Chloronaphthalene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	2-Chlorophenol	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	2-Methylnaphthalene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	2-Methylphenol	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	2-Nitroaniline	< 7.5	ug / L	XG.1998.494 - 3	
	X98283-001	2-Nitrophenol	< 7.5	ug / L	XG.1998.494 - 3	
	X98283-001	3+4 Methylphenol	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	3,3'-Dichlorobenzidine	< 15	ug / L	XG.1998.494 - 3	
	X98283-001	3-Nitroaniline	< 7.5	ug / L	XG.1998.494 - 3	
	X98283-001	4,6-Dinitro-2-methylphenol	< 15	ug / L	XG.1998.494 - 3	
	X98283-001	4-Bromophenyl-phenylether	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	4-Chloro-3-methylphenol	< 7.5	ug / L	XG.1998.494 - 3	
	X98283-001	4-Chloroaniline	< 7.5	ug / L	XG.1998.494 - 3	
	X98283-001	4-Chlorophenyl-phenylether	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	4-Nitroaniline	< 7.5	ug / L	XG.1998.494 - 3	
	X98283-001	4-Nitrophenol	< 15	ug / L	XG.1998.494 - 3	
	X98283-001	Acenaphthene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	Acenaphthylene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	Aniline	< 15	ug / L	XG.1998.494 - 3	
	X98283-001	Anthracene	< 1.5	ug / L	XG.1998.494 - 3	
	X98283-001	Azobenzene&1,2-Diphenylhydrazine	< 1.5	ug / L	XG.1998.494 - 3	

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
 Project: **9805179 TA-55-RAMSEY Z#111503**

*** explanation of codes**

D	Not applicable due to sample dilution
L	Not applicable due to MDL proximity

M98414	M98414-006	Silver	86	(%) Recov	MW.1998.736 - 34	05/30/98
	M98414-006	Sodium	< 1	(%) Recov	MW.1998.736 - 34	
	M98414-006	Vanadium	< 1	(%) Recov	MW.1998.736 - 34	
	M98414-006	Zinc	< 1	(%) Recov	MW.1998.736 - 34	
SW846-7000 series AA-FL						
M98414	M98414-006	Lead	85	(%) Recov	MW.1998.755 - 30	06/02/98
SW846-8082 PCB						
X98280	X98280-005	Aroclor 1260	< 1	% Recovery	XG.1998.491 - 9	05/26/98
SW846-8240 Volatiles						
X98284	X98284-012	1,1 Dichloroethene	104	% Recovery	XG.1998.487 - 10	05/22/98
	X98284-012	Benzene	96	% Recovery	XG.1998.487 - 10	
	X98284-012	Chlorobenzene	95	% Recovery	XG.1998.487 - 10	
	X98284-012	Toluene	96	% Recovery	XG.1998.487 - 10	
	X98284-012	Trichloroethene	96	% Recovery	XG.1998.487 - 10	
SW846-8270 Semi-Volatiles						
X98283	X98283-005	1,2,4-Trichlorobenzene	< 1	% Recovery	XG.1998.494 - 10	05/27/98
	X98283-005	1,4-Dichlorobenzene	< 1	% Recovery	XG.1998.494 - 10	
	X98283-005	2,4-Dinitrotoluene	< 1	% Recovery	XG.1998.494 - 10	
	X98283-005	2-Chlorophenol	< 1	% Recovery	XG.1998.494 - 10	
	X98283-005	4-Chloro-3-methylphenol	6250	% Recovery	XG.1998.494 - 10	
	X98283-005	4-Nitrophenol	< 1	% Recovery	XG.1998.494 - 10	
	X98283-005	Acenaphthene	95	% Recovery	XG.1998.494 - 10	
	X98283-005	n-Nitroso-di-n-propylamine	< 1	% Recovery	XG.1998.494 - 10	
	X98283-005	Pentachlorophenol	< 1	% Recovery	XG.1998.494 - 10	
	X98283-005	Phenol	< 1	% Recovery	XG.1998.494 - 10	
	X98283-005	Pyrene	145	% Recovery	XG.1998.494 - 10	

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

QC Group	Run ID	Result	Units	* Run Group - #	Run Date
EPA 1664					
OG98019	OG98019(8)	Oil & Grease	84	% Recovery	MT.1998.1433 - 8 05/21/98
EPA-245.1 / SW846-7471					
M98438	M98438-013	Mercury	11	(%) Recov	MW.1998.754 - 22 06/02/98
EPA-300.0 anions					
W98182	W98182-006	Fluoride	5240	% Recovery	MW.1998.740 - 33 05/27/98
	W98182-006	Nitrate, as N	5180	% Recovery	MW.1998.740 - 33
	W98182-006	Nitrite, as N	4860	% Recovery	MW.1998.740 - 33
EPA-330.5					
MW.1998.711	9805179-10A[MSD]	Chlorine, Residual	< 1	(%) Recov	MW.1998.711 - 9 05/21/98
EPA-410.1					
COD98014	COD98014(5)	Chemical Oxygen Demand	94	% Recovery	MT.1998.1379 - 5 05/28/98

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
 Project: **9805179 TA-55-RAMSEY Z#111503**

*** explanation of codes**

D	Not applicable due to sample dilution
L	Not applicable due to MDL proximity

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

QC Group	Run ID	Result	Units	*	Run Group - #	Run Date
EPA 1664						
OG98019	OG98019(7)	Oil & Grease	77	% Recovery	MT.1998.1433 - 7	05/21/98
EPA-245.1 / SW846-7471						
M98438	M98438-012	Mercury	253	(%) Recov	MW.1998.754 - 21	06/02/98
EPA-300.0 anions						
W98182	W98182-005	Fluoride	105	% Recovery	MW.1998.740 - 32	05/27/98
	W98182-005	Nitrate, as N	104	% Recovery	MW.1998.740 - 32	
	W98182-005	Nitrite, as N	99	% Recovery	MW.1998.740 - 32	
EPA-330.5						
MW.1998.711	9805179-10A[MS]	Chlorine, Residual	< 1	(%) Recov	MW.1998.711 - 8	05/21/98
EPA-410.1						
COD98014	COD98014(4)	Chemical Oxygen Demand	92	% Recovery	MT.1998.1379 - 4	05/28/98
SM-4500-N & NH3B,C						
W98181	W98181-007	Kjeldahl Nitrogen, Total	97	(%) Recov	MW.1998.722 - 8	05/27/98
SM-4500-NH3B,C						
W98184	W98184-007	Ammonia, as N	88	(%) Recov	MW.1998.731 - 8	05/28/98
SW846 7000 series AA-FL						
M98414	M98414-006	Thallium	87	(%) Recov	MW.1998.778 - 12	06/04/98
SW846-6010 ICP						
M98414	M98414-006	Aluminum	< 1	(%) Recov	MW.1998.736 - 34	05/30/98
	M98414-006	Antimony	86	(%) Recov	MW.1998.736 - 34	
	M98414-006	Arsenic	406	(%) Recov	MW.1998.730 - 62	05/28/98
	M98414-006	Arsenic	355	(%) Recov	MW.1998.736 - 34	05/30/98
	M98414-006	Barium	6	(%) Recov	MW.1998.730 - 62	05/28/98
	M98414-006	Barium	5	(%) Recov	MW.1998.736 - 34	05/30/98
	M98414-006	Beryllium	95	(%) Recov	MW.1998.736 - 34	
	M98414-006	Boron	120	(%) Recov	MW.1998.774 - 20	06/03/98
	M98414-006	Cadmium	100	(%) Recov	MW.1998.730 - 62	05/28/98
	M98414-006	Cadmium	95	(%) Recov	MW.1998.736 - 34	05/30/98
	M98414-006	Calcium	< 1	(%) Recov	MW.1998.736 - 34	
	M98414-006	Chromium	< 1	(%) Recov	MW.1998.730 - 62	05/28/98
	M98414-006	Chromium	< 1	(%) Recov	MW.1998.736 - 34	05/30/98
	M98414-006	Cobalt	97	(%) Recov	MW.1998.736 - 34	
	M98414-006	Copper	39	(%) Recov	MW.1998.736 - 34	
	M98414-006	Iron	< 1	(%) Recov	MW.1998.736 - 34	
	M98414-006	Magnesium	< 1	(%) Recov	MW.1998.736 - 34	
	M98414-006	Manganese	83	(%) Recov	MW.1998.736 - 34	
	M98414-006	Nickel	100	(%) Recov	MW.1998.736 - 34	
	M98414-006	Potassium	191	(%) Recov	MW.1998.736 - 34	
	M98414-006	Selenium	78	(%) Recov	MW.1998.736 - 34	

Assaigal Analytical Laboratories, Inc.
Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
 Project: **9805179 TA-55-RAMSEY Z#111503**

*** explanation of codes**

D	Not applicable due to sample dilution
L	Not applicable due to MDL proximity

X98283	X98283-006	4-Chloro-3-methylphenol	2840	% Recovery	XG.1998.494 - 11	05/27/98
	X98283-006	4-Nitrophenol	< 1	% Recovery	XG.1998.494 - 11	
	X98283-006	Acenaphthene	132	% Recovery	XG.1998.494 - 11	
	X98283-006	n-Nitroso-di-n-propylamine	< 1	% Recovery	XG.1998.494 - 11	
	X98283-006	Pentachlorophenol	< 1	% Recovery	XG.1998.494 - 11	
	X98283-006	Phenol	< 1	% Recovery	XG.1998.494 - 11	
	X98283-006	Pyrene	128	% Recovery	XG.1998.494 - 11	

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

QC Group	Run ID	Result	Units	*	Run Group - #	Run Date
EPA 1664						
OG98019	OG98019(8)	Oil & Grease	9	RPD	MT.1998.1433 - 8	05/21/98
EPA-245.1 / SW846-7471						
M98438	M98438-013	Mercury	183	(%) RPD	MW.1998.754 - 22	06/02/98
EPA-300.0 anions						
W98182	W98182-006	Fluoride	192	RPD	MW.1998.740 - 33	05/27/98
	W98182-006	Nitrate, as N	192	RPD	MW.1998.740 - 33	
	W98182-006	Nitrite, as N	192	RPD	MW.1998.740 - 33	
EPA-330.5						
MW.1998.711	9805179-10A[MSD]	Chlorine, Residual	< 1	(%) RPD	MW.1998.711 - 9	05/21/98
EPA-410.1						
COD98014	COD98014(5)	Chemical Oxygen Demand	2	RPD	MT.1998.1379 - 5	05/28/98
SM-4500-N & NH3B,C						
W98181	W98181-008	Kjeldahl Nitrogen, Total	7	(%) RPD	MW.1998.722 - 9	05/27/98
SM-4500-NH3B,C						
W98184	W98184-008	Ammonia, as N	4	(%) RPD	MW.1998.731 - 9	05/28/98
SW846 7000 series AA-FL						
M98414	M98414-007	Thallium	1	(%) RPD	MW.1998.778 - 13	06/04/98
SW846-6010 ICP						
M98414	M98414-007	Aluminum	200	(%) RPD	MW.1998.736 - 35	05/30/98
	M98414-007	Antimony	8	(%) RPD	MW.1998.738 - 35	
	M98414-007	Arsenic	144	(%) RPD	MW.1998.730 - 63	05/28/98
	M98414-007	Arsenic	132	(%) RPD	MW.1998.736 - 35	05/30/98
	M98414-007	Barium	115	(%) RPD	MW.1998.730 - 63	05/28/98
	M98414-007	Barium	116	(%) RPD	MW.1998.736 - 35	05/30/98
	M98414-007	Beryllium	4	(%) RPD	MW.1998.736 - 35	
	M98414-007	Boron	22	(%) RPD	MW.1998.774 - 21	06/03/98
	M98414-007	Cadmium	4	(%) RPD	MW.1998.730 - 63	05/28/98
	M98414-007	Cadmium	3	(%) RPD	MW.1998.736 - 35	05/30/98
	M98414-007	Calcium	7	(%) RPD	MW.1998.736 - 35	
	M98414-007	Chromium	82	(%) RPD	MW.1998.730 - 63	05/28/98
	M98414-007	Chromium	91	(%) RPD	MW.1998.736 - 35	05/30/98
	M98414-007	Cobalt	6	(%) RPD	MW.1998.736 - 35	

Assaigal Analytical Laboratories, Inc.
Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
 Project: **9805179 TA-55-RAMSEY Z#111503**

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

		SM-4500-N & NH3B,C					
W98181	W98181-008	Kjeldahl Nitrogen, Total	104	(%) Recov		MW.1998.722 - 9	05/27/98
		SM-4500-NH3B,C					
W98184	W98184-008	Ammonia, as N	93	(%) Recov		MW.1998.731 - 9	05/28/98
		SW846 7000 series AA-FL					
M98414	M98414-007	Thallium	88	(%) Recov		MW.1998.778 - 13	06/04/98
		SW846-6010 ICP					
M98414	M98414-007	Aluminum	8	(%) Recov		MW.1998.736 - 35	05/30/98
	M98414-007	Antimony	93	(%) Recov		MW.1998.736 - 35	
	M98414-007	Arsenic	66	(%) Recov		MW.1998.730 - 63	05/28/98
	M98414-007	Arsenic	72	(%) Recov		MW.1998.736 - 35	05/30/98
	M98414-007	Barium	21	(%) Recov		MW.1998.730 - 63	05/28/98
	M98414-007	Barium	20	(%) Recov		MW.1998.736 - 35	05/30/98
	M98414-007	Beryllium	91	(%) Recov		MW.1998.736 - 35	
	M98414-007	Boron	96	(%) Recov		MW.1998.774 - 21	06/03/98
	M98414-007	Cadmium	96	(%) Recov		MW.1998.730 - 63	05/28/98
	M98414-007	Cadmium	92	(%) Recov		MW.1998.736 - 35	05/30/98
	M98414-007	Calcium	< 1	(%) Recov		MW.1998.736 - 35	
	M98414-007	Chromium	< 1	(%) Recov		MW.1998.730 - 63	05/28/98
	M98414-007	Chromium	< 1	(%) Recov		MW.1998.736 - 35	05/30/98
	M98414-007	Cobalt	91	(%) Recov		MW.1998.736 - 35	
	M98414-007	Copper	< 1	(%) Recov		MW.1998.736 - 35	
	M98414-007	Iron	< 1	(%) Recov		MW.1998.736 - 35	
	M98414-007	Magnesium	< 1	(%) Recov		MW.1998.736 - 35	
	M98414-007	Manganese	80	(%) Recov		MW.1998.736 - 35	
	M98414-007	Nickel	81	(%) Recov		MW.1998.736 - 35	
	M98414-007	Potassium	< 1	(%) Recov		MW.1998.736 - 35	
	M98414-007	Selenium	85	(%) Recov		MW.1998.736 - 35	
	M98414-007	Silver	42	(%) Recov		MW.1998.736 - 35	
	M98414-007	Sodium	< 1	(%) Recov		MW.1998.736 - 35	
	M98414-007	Vanadium	< 1	(%) Recov		MW.1998.736 - 35	
	M98414-007	Zinc	< 1	(%) Recov		MW.1998.736 - 35	
		SW846-7000 series AA-FL					
M98414	M98414-007	Lead	85	(%) Recov		MW.1998.755 - 31	06/02/98
		SW846-8082 PCB					
X98280	X98280-006	Aroclor 1260	< 1	% Recovery	D	XG.1998.491 - 10	05/26/98
		SW846-8240 Volatiles					
X98284	X98284-013	1,1 Dichloroethene	103	% Recovery		XG.1998.487 - 11	05/22/98
	X98284-013	Benzene	96	% Recovery		XG.1998.487 - 11	
	X98284-013	Chlorobenzene	97	% Recovery		XG.1998.487 - 11	
	X98284-013	Toluene	97	% Recovery		XG.1998.487 - 11	
	X98284-013	Trichloroethene	96	% Recovery		XG.1998.487 - 11	
		SW846-8270 Semi-Volatiles					
X98283	X98283-006	1,2,4-Trichlorobenzene	< 1	% Recovery		XG.1998.494 - 11	05/27/98
	X98283-006	1,4-Dichlorobenzene	< 1	% Recovery		XG.1998.494 - 11	
	X98283-006	2,4-Dinitrotoluene	< 1	% Recovery		XG.1998.494 - 11	
	X98283-006	2-Chlorophenol	< 1	% Recovery		XG.1998.494 - 11	

Surrogate Summary: Fraction

Client: **LOS ALAMOS NATIONAL LABS**
 Project: **9805179 TA-55-RAMSEY Z#111503**

* explanation of codes

D Not applicable due to sample dilution

Client Sample ID **98DS399** Sample Matrix **WATER**

Fraction	QC Group	Run ID	Surrogate	% Recovery	*	Run Group - #	Run Date
SW846-8240 Volatiles							
9805179-01A	X98284	X98284-003	1,2 Dichloroethane-D4	101		XG.1998.487 - 3	05/22/98
		X98284-003	Bromofluorobenzene	94		XG.1998.487 - 3	
		X98284-003	Toluene-D8	101		XG.1998.487 - 3	

Client Sample ID **98DS400** Sample Matrix **WATER**

Fraction	QC Group	Run ID	Surrogate	% Recovery	*	Run Group - #	Run Date
SW846-8270 Semi-Volatiles							
9805179-02A	X98283	X98283-008	2,4,6-Tribromophenol	54		XG.1998.494 - 14	05/28/98
		X98283-008	2-Fluorobiphenyl	86		XG.1998.494 - 14	
		X98283-008	2-Fluorophenol	40		XG.1998.494 - 14	
		X98283-008	Nitrobenzene-D5	92		XG.1998.494 - 14	
		X98283-008	Phenol-D6	30		XG.1998.494 - 14	
		X98283-008	Terphenyl-D14	76		XG.1998.494 - 14	

Client Sample ID **98DS406** Sample Matrix **WATER**

Fraction	QC Group	Run ID	Surrogate	% Recovery	*	Run Group - #	Run Date
SW846-8080 Pesticide							
9805179-07A	X98280	X98280-008	(TCMX) Tetrachloro-m-xylene	89		XG.1998.491 - 5	05/22/98
SW846-8082 PCB							
9805179-07A	X98280	X98280-008	(DCB) Decachlorobiphenyl	27		XG.1998.491 - 5	05/22/98

Client Sample ID **98DS411** Sample Matrix **WATER**

Fraction	QC Group	Run ID	Surrogate	% Recovery	*	Run Group - #	Run Date
SW846-8240 Volatiles							
9805179-12A	X98284	X98284-004	1,2 Dichloroethane-D4	101		XG.1998.487 - 4	05/22/98
		X98284-004	Bromofluorobenzene	93		XG.1998.487 - 4	
		X98284-004	Toluene-D8	101		XG.1998.487 - 4	

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**
 Project: **9805179 TA-55-RAMSEY Z#111503**

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

M98414	M98414-007	Copper	277	(%) RPD		MW.1998.736 - 35	05/30/98
	M98414-007	Iron	28	(%) RPD		MW.1998.736 - 35	
	M98414-007	Magnesium	< 1	(%) RPD		MW.1998.736 - 35	
	M98414-007	Manganese	3	(%) RPD		MW.1998.736 - 35	
	M98414-007	Nickel	21	(%) RPD		MW.1998.736 - 35	
	M98414-007	Potassium	6930	(%) RPD		MW.1998.736 - 35	
	M98414-007	Selenium	8	(%) RPD		MW.1998.736 - 35	
	M98414-007	Silver	68	(%) RPD		MW.1998.736 - 35	
	M98414-007	Sodium	145	(%) RPD		MW.1998.736 - 35	
	M98414-007	Vanadium	< 1	(%) RPD		MW.1998.736 - 35	
	M98414-007	Zinc	42	(%) RPD		MW.1998.736 - 35	
SW846-7000 series AA-FL							
M98414	M98414-007	Lead	< 1	(%) RPD		MW.1998.755 - 31	06/02/98
SW846-8082 PCB							
X98280	X98280-006	Aroclor 1260	< 1	RPD	D	XG.1998.491 - 10	05/26/98
SW846-8240 Volatiles							
X98284	X98284-013	1,1 Dichloroethene	1	RPD		XG.1998.487 - 11	05/22/98
	X98284-013	Benzene	< 1	RPD		XG.1998.487 - 11	
	X98284-013	Chlorobenzene	2	RPD		XG.1998.487 - 11	
	X98284-013	Toluene	1	RPD		XG.1998.487 - 11	
	X98284-013	Trichloroethene	< 1	RPD		XG.1998.487 - 11	
SW846-8270 Semi-Volatiles							
X98283	X98283-006	1,2,4-Trichlorobenzene	< 1	RPD		XG.1998.494 - 11	05/27/98
	X98283-006	1,4-Dichlorobenzene	< 1	RPD		XG.1998.494 - 11	
	X98283-006	2,4-Dinitrotoluene	< 1	RPD		XG.1998.494 - 11	
	X98283-006	2-Chlorophenol	< 1	RPD		XG.1998.494 - 11	
	X98283-006	4-Chloro-3-methylphenol	75	RPD		XG.1998.494 - 11	
	X98283-006	4-Nitrophenol	< 1	RPD		XG.1998.494 - 11	
	X98283-006	Acenaphthene	33	RPD		XG.1998.494 - 11	
	X98283-006	n-Nitroso-di-n-propylamine	< 1	RPD		XG.1998.494 - 11	
	X98283-006	Pentachlorophenol	< 1	RPD		XG.1998.494 - 11	
	X98283-006	Phenol	< 1	RPD		XG.1998.494 - 11	
	X98283-006	Pyrene	13	RPD		XG.1998.494 - 11	

Assalgal Analytical Laboratories, Inc.
Surrogate Summary: QC

Client: **LOS ALAMOS NATIONAL LABS**
 Project: **9805179 TA-55-RAMSEY Z#111503**

* explanation of codes
D Not applicable due to sample dilution

QC Type	LCS: Lab Control Spike	QC Matrix	WATER
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<u>QC Group</u>	<u>Run ID</u>	<u>Surrogate</u>	<u>% Recovery</u>	*	<u>Run Group - #</u>	<u>Run Date</u>
SW846-8080 Pesticide						
X98280	X98280-002	(TCMX) Tetrachloro-m-xylene	95		XG.1998.491 - 3	05/22/98
SW846-8082 PCB						
X98280	X98280-002	(DCB) Decachlorobiphenyl	24		XG.1998.491 - 3	05/22/98
SW846-8240 Volatiles						
X98284	X98284-010	1,2 Dichloroethane-D4	104		XG.1998.487 - 8	05/22/98
	X98284-010	Bromofluorobenzene	96		XG.1998.487 - 8	
	X98284-010	Toluene-D8	100		XG.1998.487 - 8	
SW846-8270 Semi-Volatiles						
X98283	X98283-002	2,4,6-Tribromophenol	70		XG.1998.494 - 1	05/26/98
	X98283-002	2-Fluorobiphenyl	67		XG.1998.494 - 1	
	X98283-002	2-Fluorophenol	46		XG.1998.494 - 1	
	X98283-002	Nitrobenzene-D5	70		XG.1998.494 - 1	
	X98283-002	Phenol-D6	32		XG.1998.494 - 1	
	X98283-002	Terphenyl-D14	62		XG.1998.494 - 1	

QC Type	LCSD: Lab Control Spike Duplicate Precision	QC Matrix	WATER
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<u>QC Group</u>	<u>Run ID</u>	<u>Surrogate</u>	<u>% Recovery</u>	*	<u>Run Group - #</u>	<u>Run Date</u>
SW846-8240 Volatiles						
X98284	X98284-011	1,2 Dichloroethane-D4	104		XG.1998.487 - 9	05/22/98
	X98284-011	Bromofluorobenzene	96		XG.1998.487 - 9	
	X98284-011	Toluene-D8	100		XG.1998.487 - 9	
SW846-8270 Semi-Volatiles						
X98283	X98283-003	2,4,6-Tribromophenol	67		XG.1998.494 - 2	05/27/98
	X98283-003	2-Fluorobiphenyl	64		XG.1998.494 - 2	
	X98283-003	2-Fluorophenol	44		XG.1998.494 - 2	
	X98283-003	Nitrobenzene-D5	66		XG.1998.494 - 2	
	X98283-003	Phenol-D6	31		XG.1998.494 - 2	
	X98283-003	Terphenyl-D14	59		XG.1998.494 - 2	

QC Type	MB: Method Blank	QC Matrix	WATER
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<u>QC Group</u>	<u>Run ID</u>	<u>Surrogate</u>	<u>% Recovery</u>	*	<u>Run Group - #</u>	<u>Run Date</u>
SW846-8080 Pesticide						
X98280	X98280-001	(TCMX) Tetrachloro-m-xylene	101		XG.1998.491 - 1	05/22/98

Surrogate Summary: Fraction

Client: **LOS ALAMOS NATIONAL LABS**
 Project: **9805179 TA-55-RAMSEY Z#111503**

* explanation of codes	
D	Not applicable due to sample dilution

Client Sample ID **98DS412** Sample Matrix **WATER**

<u>Fraction</u>	<u>QC Group</u>	<u>Run ID</u>	<u>Surrogate</u>	<u>% Recovery</u>	*	<u>Run Group - #</u>	<u>Run Date</u>
SW846-8270 Semi-Volatiles							
9805179-13A	X98283	X98283-009	2,4,6-Tribromophenol	61		XG.1998.494 - 5	05/27/98
		X98283-009	2-Fluorobiphenyl	86		XG.1998.494 - 5	
		X98283-009	2-Fluorophenol	50		XG.1998.494 - 5	
		X98283-009	Nitrobenzene-D5	95		XG.1998.494 - 5	
		X98283-009	Phenol-D6	35		XG.1998.494 - 5	
		X98283-009	Terphenyl-D14	70		XG.1998.494 - 5	

Surrogate Summary: QC

Client: **LOS ALAMOS NATIONAL LABS**
 Project: **9805179 TA-55-RAMSEY Z#111503**

* explanation of codes	
<i>D</i>	<i>Not applicable due to sample dilution</i>

SW846-8240 Volatiles

X98284	X98284-013	1,2 Dichloroethane-D4	101	XG.1998.487 - 11	05/22/98
	X98284-013	Bromofluorobenzene	97	XG.1998.487 - 11	
	X98284-013	Toluene-D8	101	XG.1998.487 - 11	

SW846-8270 Semi-Volatiles

X98283	X98283-006	2,4,6-Tribromophenol	< 1	XG.1998.494 - 11	05/27/98
	X98283-006	2-Fluorobiphenyl	< 1	XG.1998.494 - 11	
	X98283-006	2-Fluorophenol	< 1	XG.1998.494 - 11	
	X98283-006	Nitrobenzene-D5	< 1	XG.1998.494 - 11	
	X98283-006	Phenol-D6	< 1	XG.1998.494 - 11	
	X98283-006	Terphenyl-D14	145	XG.1998.494 - 11	

Assagai Analytical Laboratories, Inc.
Surrogate Summary: QC

Client: **LOS ALAMOS NATIONAL LABS**
 Project: **9805179 TA-55-RAMSEY Z#111503**

* explanation of codes	
D	Not applicable due to sample dilution

QC Group	Run ID	Surrogate	% Recovery	Run Group - #	Run Date
SW846-8082 PCB					
X98280	X98280-001	(DCB) Decachlorobiphenyl	16	XG.1998.491 - 1	05/22/98
SW846-8240 Volatiles					
X98284	X98284-001	1,2 Dichloroethane-D4	106	XG.1998.487 - 1	05/22/98
	X98284-001	Bromofluorobenzene	92	XG.1998.487 - 1	
	X98284-001	Toluene-D8	103	XG.1998.487 - 1	
SW846-8270 Semi-Volatiles					
X98283	X98283-001	2,4,6-Tribromophenol	60	XG.1998.494 - 3	05/27/98
	X98283-001	2-Fluorobiphenyl	66	XG.1998.494 - 3	
	X98283-001	2-Fluorophenol	44	XG.1998.494 - 3	
	X98283-001	Nitrobenzene-D5	67	XG.1998.494 - 3	
	X98283-001	Phenol-D6	30	XG.1998.494 - 3	
	X98283-001	Terphenyl-D14	60	XG.1998.494 - 3	

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

QC Group	Run ID	Surrogate	% Recovery	Run Group - #	Run Date
SW846-8080 Pesticide					
X98280	X98280-005	(TCMX) Tetrachloro-m-xylene	< 1	XG.1998.491 - 9	05/26/98
SW846-8082 PCB					
X98280	X98280-005	(DCB) Decachlorobiphenyl	< 1	XG.1998.491 - 9	05/26/98
SW846-8240 Volatiles					
X98284	X98284-012	1,2 Dichloroethane-D4	103	XG.1998.487 - 10	05/22/98
	X98284-012	Bromofluorobenzene	97	XG.1998.487 - 10	
	X98284-012	Toluene-D8	100	XG.1998.487 - 10	
SW846-8270 Semi-Volatiles					
X98283	X98283-005	2,4,6-Tribromophenol	< 1	XG.1998.494 - 10	05/27/98
	X98283-005	2-Fluorobiphenyl	< 1	XG.1998.494 - 10	
	X98283-005	2-Fluorophenol	< 1	XG.1998.494 - 10	
	X98283-005	Nitrobenzene-D5	< 1	XG.1998.494 - 10	
	X98283-005	Phenol-D6	< 1	XG.1998.494 - 10	
	X98283-005	Terphenyl-D14	155	XG.1998.494 - 10	

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

QC Group	Run ID	Surrogate	% Recovery	Run Group - #	Run Date
SW846-8080 Pesticide					
X98280	X98280-006	(TCMX) Tetrachloro-m-xylene	< 1	XG.1998.491 - 10	05/28/98
SW846-8082 PCB					
X98280	X98280-006	(DCB) Decachlorobiphenyl	< 1	XG.1998.491 - 10	05/28/98

REQUEST FOR ANALYSIS FORM							
Account Information:				Date: 8/7/98			
CC: 8J07	PC: KG19	CA: 4000	WP: 0000				
Requestor's Name: Connie Gerth	Z-No: 117806	Group: NMT-7	Phone: 7-4954	MS: E501	TA: 55	BLDG: PF2	Room: 103
Location of Material to be sampled:	TA: 55	BLDG: 0000	ROOM: 0000	Other (specify): <90 Day Area on Pad			
Purpose Code: Other ,Other: Meet SWSC WAC.							
If the waste is radioactive or suspect, name the Radiation Control Technician (RCT) assigned to the area.							
RCT: Non-rad Phone: Pager:							
Will the analytical be used for a specific purpose ? If yes, explain or check the appropriate box.							
Microtox analysis only of rainwater contained in two drums. Rainwater previously characterized by samples 98DS399-98DS413.							
Chemical and Physical Characteristics							
Provide as much information as possible for the material being sampled.							
Matrix of Material: Aqueous,							
Waste Classes: Waste Water, Non-Radioactive,							
Container Size: 30GALS							
Container Type: METAL							
Status:							

Please print this page from your web browser, keep a copy for yourself and mail a copy to ATTN:RFA@ ESH-19--MS K498

Current URL Address: http://drambuie.lanl.gov/~esh19/database/rfa_form.html
 Contact: Dustie Stephens
 Revision Date: Fri Aug 7, 1998

REQUEST FOR ANALYSIS FORM							
Account Information:				Date: 5/12/98			
CC: 8J07	PC: KG19	CA: 4000	WP:				
Requestor's Name: SUSAN RAMSEY	Z-No: 100681	Group: NMT-7	Phone: 7-2025	MS: E501	TA: 55	BLDG: PF-2	Room: 103
Location of Material to be sampled:	TA: 55	BLDG: YARD	ROOM: SALVAGE	Other (specify): RAINWATER COLLECTED IN A DRUM - JOEL VARGAS AND BILL WILLIAMS, NMT-7			
Purpose Code: TA-54 ,Other:							
If the waste is radioactive or suspect, name the Radiation Control Technician (RCT) assigned to the area. RCT: Phone: Pager:							
Will the analytical be used for a specific purpose ? If yes, explain or check the appropriate box. FOR ACCEPTABLE KNOWLEDGE DOC. AND DISPOSAL							
Chemical and Physical Characteristics Provide as much information as possible for the material being sampled.							
Matrix of Material: Aqueous,							
Waste Classes: Non-Radioactive, Unknown,							
Container Size: 30GALS							
Container Type: METAL							
Status:							

Please print this page from your web browser, keep a copy for yourself and mail a copy to ATTN:RFA@ ESH-19--MS K498

Current URL Address: http://drambuie.lanl.gov/~esh19/database/rfa_form.html

Contact: Dustie Stephens

Revision Date: Tue May 12, 1998

Susan
 98DS399, 98DS400
 - 55 gallon ^{water} outside
 NMT-7 from
 manhole

98DS401, 403,
 404, 405, 406, 407
 408, 409, 410, 411
 412, 413

*sampled
 5/18/98*

*Rainwater accumulated
 in empty drums*