



9-5-1990

2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 214/984-0551

Analytical Chemistry • Waste Treatment & Disposal • Equipment Sales

PROJECT SUMMARIZATION

HAFB Hazardous Sample Report

Parameter Results	EPA Number	Parameter Name	Sample
** HAFB Drum 9-002		Building 195 833 Trans.	
#Flp < 75	D001	Flash Point	171230
\$120 120	D039	Tetrachloroethene	171230
✓ ** HAFB Drum 90-2		Building 282 49 EMS Corr.Cont.	
#Flp < 74	D001	Flash Point	171231
\$MEK 770	D035	Methyl Ethyl Ketone	171231
Cd 10	D006	Cadmium	171231
Cr 27	D007	Chromium	171231
Pb 26	D008	Lead	171231
** HAFB Drum 90-6		Building 282 49 EMS Corr.Cont.	
#Flp < 70	D001	Flash Point	171232
Cr 12	D007	Chromium	171232
** HAFB Drum 90-7		Building 282 49 EMS Corr.Cont.	
#Flp < 75	D001	Flash Point	171233
\$MEK 11975	D035	Methyl Ethyl Ketone	171233
Cr 11	D007	Chromium	171233
** HAFB Drum 90-10		Building 282 49 EMS Corr.Cont.	
#Flp < 64	D001	Flash Point	171234
\$MEK 718	D035	Methyl Ethyl Ketone	171234
Cr 31	D007	Chromium	171234
** HAFB Drum 90-17		Building 282 479 CRS	
#Flp 90	D001	Flash Point	171235
Cr 130	D007	Chromium	171235
** HAFB Drum 90-30 49 EMS Corr.		Bldg.282 ACFT 479CRS-Corrosion	
#Flp < 66	D001	Flash Point	171236
Cr 18	D007	Chromium	171236
✓ ** HAFB Drum 90-25 Poly Thinner 30		Bldg 282 49 EMS Corr.	
#Flp < 55	D001	Flash Point	171237
\$MEK 13680	D035	Methyl Ethyl Ketone	171237
Cr 30	D007	Chromium	171237
✓ ** HAFB Drum 90-10		Building 856 Dyncorp	
#Flp < 56	D001	Flash Point	171239
\$046 134	D021	Chlorobenzene	171239
Cr 14	D007	Chromium	171239
Pb 52	D008	Lead	171239
** HAFB CC-90-03 Waste Paint (A)		Building 903	
#Flp < 59	D001	Flash Point	171240
** HAFB Drum 6		Building 1178 6585 TG/TKOF	
#Flp < 66	D001	Flash Point	171241
Pb 18	D008	Lead	171241

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HAFB Hazardous Sample Report

Parameter Results	EPA Number	Parameter Name	Sample
** HAFB CC-90-03 Waste Paint (B) #Flp < 67	D001	Building 903 Flash Point	171469
** HAFB Drum 90002 Used Thinner #Flp < 62	D001	Building 121 4 SCS Flash Point	171470
** HAFB NE Separator 479 T38 Test Cell #Flp < 60	D001	Building 638-639 Flash Point	171474



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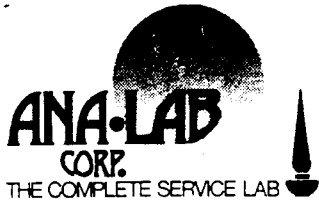
833 CSG/DE
 MRK: 90MV156
 Bldg. 55
 Holloman AFB, NM 88330
 Attention: Ron Schotter

Sample Identification: Drum 90-10
 Collected By: CHW
 Date & Time Taken: 08/20/90 1110
 On Site Data: Building 856 Dyncorp

Lab Sample Number: 171239 Received: 08/22/90 Client: HAFB

PARAMETER	RESULTS	UNITS	TIME	DATE	METHOD	BY
Liquid TCLP Extraction	% solids		1200	09/03/90	40 CFR	LW
Solid TCLP Extraction	100-1100	ml-ml	1200	09/03/90	40 CFR	LW
Flash Point	< 56	Degrees F	1500	08/27/90	EPA Method 1010	DG
Metal Digestion	COMPLETED		1600	08/31/90	EPA Method 3010	JT
Metals digestion/flame analysis	COMPLETED		0800	09/01/90	SW 846 3050	BG
Metal digestion/Graphite furnace	COMPLETED		0800	09/01/90	SW 846 3050	BG
Arsenic Digestion and Analysis	COMPLETED		1200	09/01/90	SW 846 7060	BG
Mercury Digestion and Analysis	COMPLETED		1600	08/31/90	SW 846 7470	JT
Mercury Digestion and Analysis	COMPLETED		1600	08/31/90	SW 846 7471	JT
Selenium Digestion and Analysis	COMPLETED		1200	09/01/90	SW 846 7740	BG
Silver Digestion and Analysis	COMPLETED		1600	09/01/90	SW 846 7760	BG
Polychlorinated biphenyls	<10	ppm	1251	09/04/90	EPA SW-846	PM
Benzene	<.5	ppm	0217	09/04/90	EPA Method 8240	PM
Gamma-BHC	<.4	ppm	1251	09/04/90	EPA Method 8270	PM
Carbon Tetrachloride	<.5	ppm	0217	09/04/90	EPA Method 8240	PM
Chlordane	<.03	ppm	1251	09/04/90	EPA Method 8270	PM

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PARAMETER	RESULTS	UNITS	TIME	DATE	METHOD	BY
Chlorobenzene	134	ppm	0217	09/04/90	EPA Method 8240	DM
Chloroform	6	ppm	0217	09/04/90	EPA Method 8240	DM
1,4-Dichlorobenzene	67.5	ppm	1251	09/04/90	EPA Method 8270	DM
1,2-Dichloroethane	6.5	ppm	0217	09/04/90	EPA Method 8240	DM
1,1-Dichloroethene	6.7	ppm	0217	09/04/90	EPA Method 8240	DM
2,4-Dinitrotoluene	6.13	ppm	1251	09/04/90	EPA Method 8270	DM
Endrin	6.02	ppm	1251	09/04/90	EPA Method 8270	DM
Heptachlor	68	ppb	1251	09/04/90	EPA Method 8270	DM
Heptachlor epoxide	68	ppb	1251	09/04/90	EPA Method 8270	DM
Hexachlorobenzene	6.13	ppm	1251	09/04/90	EPA Method 8270	DM
Hexachlorobutadiene	6.5	ppm	1251	09/04/90	EPA Method 8270	DM
Hexachloroethane	63	ppm	1251	09/04/90	EPA Method 8270	DM
Nitrobenzene	62	ppm	1251	09/04/90	EPA Method 8270	DM
Pentachlorophenol	6100	ppm	1251	09/04/90	EPA Method 8270	DM
Tetrachloroethene	6.7	ppm	0217	09/04/90	EPA Method 8240	DM
Toxaphene	6.5	ppm	1251	09/04/90	EPA Method 8270	DM
Trichloroethene	6.5	ppm	0217	09/04/90	EPA Method 8240	DM
1,4,6-Trichlorophenol	62	ppm	1251	09/04/90	EPA Method 8270	DM
Vinyl Chloride	6.2	ppm	0217	09/04/90	EPA Method 8240	DM
2,4-Dichlorophenoxyacetic acid	610	ppm	1251	09/04/90	EPA Method 8150	DM
1,4,5-Trichlorophenol	6400	ppm	1251	09/04/90	EPA Method 8270	DM

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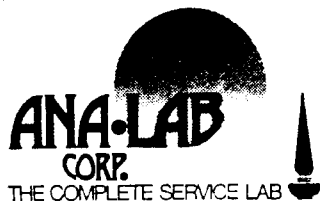
PARAMETER	RESULTS	UNITS	TIME	DATE	METHOD	BY
Cresols	(200	ppm	1251	09/04/90	EPA Method 8270	PM
Methyl Ethyl Ketone	(200	ppm	0217	09/04/90	EPA Method 8240	PM
Methoxychlor	(10	ppm	1251	09/04/90	EPA Method 8270	PM
Pyridine	(5	ppm	1251	09/04/90	EPA Method 8270	PM
2,4,5-TP (Silvex)	(1	ppm	1251	09/04/90	EPA Method 8150	PM

THE FOLLOWING ANALYSES WERE PERFORMED ON THE EXTRACT OBTAINED USING THE NEW TCLP EP TOXICITY EXTRACTION PROCEDURE.

Silver	(.4	ppm	1500	09/02/90	EPA Method 7760	GDG
Arsenic	(.05	ppm	0200	09/03/90	EPA Method 7060	GK
Barium	(6	ppm	2345	09/02/90	EPA Method 7080	GK
Cadmium	(.1	ppm	1520	09/02/90	EPA Method 7130	GDG
Chromium	14	ppm	2000	09/02/90	EPA Method 7190	GK
Mercury	(.05	ppm	0900	09/01/90	EPA Method 7470	GDG
Lead	52	ppm	2215	09/02/90	EPA Method 7420	GK
Selenium	(.05	ppm	0900	09/03/90	EPA Method 7740	GDG

Quality Assurance for the SET with Sample 171239

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
Flash Point									
171231	Standard	88	Degrees F	100		113	1500	08/27/90	DG
	Duplicate	(74	Degrees F	(73		100	1500	08/27/90	DG
Silver									
171237	Blank	(.4	ppm				1500	09/02/90	GDG
	Standard	.22	ppm	.20		110	1500	09/02/90	GDG
	Standard	.55	ppm	.50		110	1500	09/02/90	GDG
	Spike		ppm		.46	109	1500	09/02/90	GDG
Arsenic									
	Blank	(.005	ppm				0200	09/03/90	GK



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Quality Assurance for the SET with Sample 171239

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
	Blank	(.06	ppm				0200	09/03/90	GK
	Standard	.092	ppm	.100		100	0200	09/03/90	GK
171390	Duplicate	(.005	ppm	(.005		100	0200	09/03/90	GK
171232	Duplicate	(.005	ppm	(.005		100	0200	09/03/90	GK
171390	Spike		ppm		.100	83	0200	09/03/90	GK
Barium									
	Blank	(6	ppm				2345	09/02/90	GK
	Blank	(.5	ppm				2345	09/02/90	GK
	Standard	5.2	ppm	5.0		104	2345	09/02/90	GK
171232	Duplicate	(6	ppm	(6		100	2345	09/02/90	GK
171386	Duplicate	.7	ppm	.7		100	2345	09/02/90	GK
171232	Spike		ppm		.72	97	2345	09/02/90	GK
171386	Spike		ppm		4.0	98	2345	09/02/90	GK
Cadmium									
	Blank	.01	ppm				1520	09/02/90	GDG
	Blank	.4	ppm				1520	09/02/90	GDG
	Standard	.17	ppm	.17		100	1520	09/02/90	GDG
	Standard	.01	ppm	.01		100	1520	09/02/90	GDG
	Standard	1.00	ppm	1.00		100	1520	09/02/90	GDG
171386	Duplicate	(.01	ppm	(.01		100	1520	09/02/90	GDG
171232	Duplicate	(.1	mg/l	(.1		100	1520	09/02/90	GDG
171386	Spike		ppm		.40	105	1520	09/02/90	GDG
171232	Spike		mg/l		.72	93	1520	09/02/90	GDG
Chromium									
	Blank	(.05	ppm				2000	09/02/90	GK
	Blank	(.6	ppm				2000	09/02/90	GK
	Standard	.52	ppm	.50		104	2000	09/02/90	GK
171386	Duplicate	(.05	ppm	(.05		100	2000	09/02/90	GK
171232	Duplicate	.75	mg/l	.62		119	2000	09/02/90	GK
171232	Duplicate	12	mg/l	12		100	2000	09/02/90	GK
171386	Spike		ppm		.80	116	2000	09/02/90	GK
171232	Spike		mg/l		.46	109	2000	09/02/90	GK
Mercury									
	Blank	.05	ppm				0900	09/01/90	GDG
	Blank	.001	ppm				0900	09/01/90	GDG
	Standard	.011	ppm	.010		110	0900	09/01/90	GDG
171216	Duplicate	(.05	ppm	(.05		100	0900	09/01/90	GDG
171382	Duplicate	(.001	ppm	(.001		100	0900	09/01/90	GDG
171216	Spike		ppm		.024	109	0900	09/01/90	GDG
171382	Spike		ppm		.010	110	0900	09/01/90	GDG
171390	Spike		mg/l		.010	91	0900	09/01/90	GDG
171477	Spike		mg/l		.010	82	0900	09/01/90	GDG

Lead



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Quality Assurance for the SET with Sample 171239

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
	Blank	4	ppm				2215	09/02/90	GK
	Blank	4.2	ppm				2215	09/02/90	GK
	Standard	1.1	ppm	1.0		110	2215	09/02/90	GK
	Standard	2.9	ppm	2.8		104	2215	09/02/90	GK
171232	Duplicate	4.2	ppm	2		300	2215	09/02/90	GK
171386	Duplicate	4.2	ppm	4.2		100	2215	09/02/90	GK
171232	Spike		mg/l		2.0	105	2215	09/02/90	GK
171386	Spike		mg/l		2.0	110	2215	09/02/90	GK
Selenium									
	Blank	0.005	ppm				0900	09/03/90	GDG
	Blank	0.05	ppm				0900	09/03/90	GDG
	Standard	0.096	ppm	0.100		104	0900	09/03/90	GDG
171232	Duplicate	0.005	ppm	0.005		100	0900	09/03/90	GDG
171232	Spike		ppm		0.100	90	0900	09/03/90	GDG

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09/05/90

833 CSG/DE
 MRK: 90MV156
 Bldg. 55
 Holloman AFB, NM 88330
 Attention: Ron Schotter

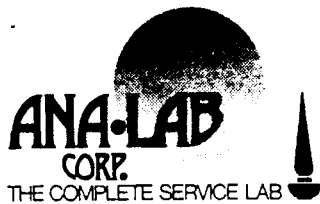
833 CSG/DE
 MRK: 90MV156
 Bldg. 55
 Holloman AFB, NM 88330
 Attention: Ron Schotter

Sample Identification: Drum 90-2
 Collected By: CHW
 Date & Time Taken: 08/20/90 0945
 On Site Data: Building 282 49 EMS Corr. Cont.

Lab Sample Number: 171231 Received: 08/22/90 Client: HAFB

PARAMETER	RESULTS	UNITS	TIME	DATE	METHOD	BY
Liquid TCLP Extraction	(.5% solids		2200	08/28/90	40 CFR	LW
Solid TCLP Extraction	100-1	ml-ml	2200	08/28/90	40 CFR	LW
Flash Point	(74	Degrees F	1500	08/27/90	EPA Method 1010	DG
Metals digestion/flame analysis	COMPLETED		0800	09/01/90	SW 846 3050	BG
Metal digestion/Graphite furnace	COMPLETED		0800	09/01/90	SW 846 3050	BG
Mercury Digestion and Analysis	COMPLETED		1600	08/31/90	SW 846 7471	JT
Polychlorinated biphenyls	(10	ppm	2229	09/03/90	EPA SW-846	PM
Benzene	(.5	ppm	2158	09/03/90	EPA Method 8240	PM
Gamma-BHC	(.4	ppm	2229	09/03/90	EPA Method 8270	PM
Carbon Tetrachloride	(.5	ppm	2158	09/03/90	EPA Method 8240	PM
Chlordane	(.03	ppm	2229	09/03/90	EPA Method 8270	PM
Chlorobenzene	(100	ppm	2158	09/03/90	EPA Method 8240	PM
Chloroform	(6	ppm	2158	09/03/90	EPA Method 8240	PM
1,4-Dichlorobenzene	(7.5	ppm	2229	09/03/90	EPA Method 8270	PM
1,2-Dichloroethane	(.5	ppm	2158	09/03/90	EPA Method 8240	PM
1,1-Dichloroethene	(.7	ppm	2158	09/03/90	EPA Method 8240	PM

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Quality Assurance for the SET with Sample 171230

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
	Blank	.002	ppm				1000	08/29/90	GDG
	Standard	.010	ppm	.010		100	1000	08/29/90	GDG
171177	Duplicate	(.001	ppm	(.001		100	1000	08/29/90	GDG
171214	Duplicate	(.05	ppm	(.05		100	1000	08/29/90	GDG
171475	Duplicate	(.001	ppm	(.001		100	1000	08/29/90	GDG
171177	Spike		ppm		.010	109	1000	08/29/90	GDG
171475	Spike		ppm		.010	90	1000	08/29/90	GDG
Lead									
	Blank	4	ppm				2215	09/02/90	GK
	Blank	(.2	ppm				2215	09/02/90	GK
	Standard	1.1	ppm	1.0		110	2215	09/02/90	GK
	Standard	2.9	ppm	2.8		104	2215	09/02/90	GK
171232	Duplicate	(2	ppm	2		300	2215	09/02/90	GK
171386	Duplicate	(.2	ppm	(.2		100	2215	09/02/90	GK
171232	Spike		mg/l		2.0	105	2215	09/02/90	GK
171386	Spike		mg/l		2.0	110	2215	09/02/90	GK
Selenium									
	Blank	(.05	ppm				1000	08/30/90	GDG
	Blank	(.005	ppm				1000	08/30/90	GDG
	Standard	.100	ppm	.100		100	1000	08/30/90	GDG
171469	Duplicate	(.05	ppm	(.05		100	1000	08/30/90	GDG
171475	Duplicate	(.005	ppm	(.005		100	1000	08/30/90	GDG
171475	Spike		ppm		.100	92	1000	08/30/90	GDG

C. H. Whiteside

C. H. Whiteside, Ph.D., President



PARAMETER	RESULTS	UNITS	TIME	DATE	METHOD	BY
THE FOLLOWING ANALYSES WERE PERFORMED ON THE EXTRACT OBTAINED USING THE NEW TCLP EP TOXICITY EXTRACTION PROCEDURE.						
Silver	1.4	ppm	1500	09/02/90	EPA Method 7760	GDG
Arsenic	1.06	ppm	0200	09/03/90	EPA Method 7060	GK
Barium	16	ppm	2345	09/02/90	EPA Method 7080	GK
Cadmium	10	ppm	1520	09/02/90	EPA Method 7130	GDG
Chromium	27	ppm	2000	09/02/90	EPA Method 7190	GK
Mercury	1.05	ppm	0900	09/01/90	EPA Method 7470	GDG
Lead	26	ppm	2215	09/02/90	EPA Method 7420	GK
Selenium	1.06	ppm	0900	09/03/90	EPA Method 7740	GDG

Quality Assurance for the SET with Sample 171231

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
Flash Point									
171231	Standard	88	Degrees F	100		113	1500	08/27/90	DG
	Duplicate	174	Degrees F	173		100	1500	08/27/90	DG
Silver									
171237	Blank	1.4	ppm				1500	09/02/90	GDG
	Standard	.22	ppm	.20		110	1500	09/02/90	GDG
	Standard	.55	ppm	.50		110	1500	09/02/90	GDG
	Spike		ppm		.46	109	1500	09/02/90	GDG
Arsenic									
171390	Blank	1.005	ppm				0200	09/03/90	GK
	Blank	1.06	ppm				0200	09/03/90	GK
	Standard	.092	ppm	.100		108	0200	09/03/90	GK
	Duplicate	1.005	ppm	1.005		100	0200	09/03/90	GK
	Duplicate	1.005	ppm	1.005		100	0200	09/03/90	GK
171390	Spike		ppm		.100	83	0200	09/03/90	GK
Barium									
171232	Blank	16	ppm				2345	09/02/90	GK
	Blank	1.5	ppm				2345	09/02/90	GK
	Standard	5.2	ppm	5.0		104	2345	09/02/90	GK
	Duplicate	16	ppm	16		100	2345	09/02/90	GK



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PARAMETER	RESULTS	UNITS	TIME	DATE	METHOD	BY
2,4-Dinitrotoluene	(.13	ppm	2229	09/03/90	EPA Method 8270	PM
Endrin	(.02	ppm	2229	09/03/90	EPA Method 8270	PM
Heptachlor	(8	ppb	2229	09/03/90	EPA Method 8270	PM
Heptachlor epoxide	(8	ppb	2229	09/03/90	EPA Method 8270	PM
Hexachlorobenzene	(.13	ppm	2229	09/03/90	EPA Method 8270	PM
Hexachlorobutadiene	(.5	ppm	2229	09/03/90	EPA Method 8270	PM
Hexachloroethane	(3	ppm	2229	09/03/90	EPA Method 8270	PM
Nitrobenzene	(2	ppm	2229	09/03/90	EPA Method 8270	PM
Pentachlorophenol	(100	ppm	2229	09/03/90	EPA Method 8270	PM
Tetrachloroethene	(.7	ppm	2158	09/03/90	EPA Method 8240	PM
Toxaphene	(.5	ppm	2229	09/03/90	EPA Method 8270	PM
Trichloroethene	(.5	ppm	2158	09/03/90	EPA Method 8240	PM
2,4,6-Trichlorophenol	(2	ppm	2229	09/03/90	EPA Method 8270	PM
Vinyl Chloride	(.2	ppm	2158	09/03/90	EPA Method 8240	PM
2,4 Dichlorophenoxyacetic acid	(10	ppm	2229	09/03/90	EPA Method 8150	PM
2,4,5-Trichlorophenol	(400	ppm	2229	09/03/90	EPA Method 8270	PM
Cresols	(200	ppm	2229	09/03/90	EPA Method 8270	PM
Methyl Ethyl Ketone	770	ppm	2158	09/03/90	EPA Method 8240	PM
Methoxychlor	(10	ppm	2229	09/03/90	EPA Method 8270	PM
Pyridine	(5	ppm	2229	09/03/90	EPA Method 8270	PM
2,4,5-TP (Silvex)	(1	ppm	2229	09/03/90	EPA Method 8150	PM

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Quality Assurance for the SET with Sample 171231

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
	Blank	(.05	ppm				0900	09/03/90	GDG
	Standard	.096	ppm	.100		104	0900	09/03/90	GDG
171232	Duplicate	(.005	ppm	(.005		100	0900	09/03/90	GDG
171232	Spike		ppm		.100	90	0900	09/03/90	GDG

C. H. Whiteside, Ph.D., President



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Quality Assurance for the SET with Sample 171231

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
171386	Duplicate	.7	ppm	.7		100	2345	09/02/90	GK
171232	Spike		ppm		.72	97	2345	09/02/90	GK
171386	Spike		ppm		4.0	98	2345	09/02/90	GK
Cadmium									
	Blank	.01	ppm				1520	09/02/90	GDG
	Blank	.4	ppm				1520	09/02/90	GDG
	Standard	.17	ppm	.17		100	1520	09/02/90	GDG
	Standard	.01	ppm	.01		100	1520	09/02/90	GDG
	Standard	1.00	ppm	1.00		100	1520	09/02/90	GDG
171386	Duplicate	(.01	ppm	(.01		100	1520	09/02/90	GDG
171232	Duplicate	(.1	mg/l	(.1		100	1520	09/02/90	GDG
171386	Spike		ppm		.40	105	1520	09/02/90	GDG
171232	Spike		mg/l		.72	93	1520	09/02/90	GDG
Chromium									
	Blank	(.05	ppm				2000	09/02/90	GK
	Blank	(.6	ppm				2000	09/02/90	GK
	Standard	.52	ppm	.50		104	2000	09/02/90	GK
171386	Duplicate	(.05	ppm	(.05		100	2000	09/02/90	GK
171232	Duplicate	.75	mg/l	.62		119	2000	09/02/90	GK
171232	Duplicate	12	mg/l	12		100	2000	09/02/90	GK
171386	Spike		ppm		.80	116	2000	09/02/90	GK
171232	Spike		mg/l		.46	109	2000	09/02/90	GK
Mercury									
	Blank	.05	ppm				0900	09/01/90	GDG
	Blank	.001	ppm				0900	09/01/90	GDG
	Standard	.011	ppm	.010		110	0900	09/01/90	GDG
171216	Duplicate	(.05	ppm	(.05		100	0900	09/01/90	GDG
171382	Duplicate	(.001	ppm	(.001		100	0900	09/01/90	GDG
171216	Spike		ppm		.024	109	0900	09/01/90	GDG
171382	Spike		ppm		.010	110	0900	09/01/90	GDG
171390	Spike		mg/l		.010	91	0900	09/01/90	GDG
171477	Spike		mg/l		.010	82	0900	09/01/90	GDG
Lead									
	Blank	4	ppm				2215	09/02/90	GK
	Blank	(.2	ppm				2215	09/02/90	GK
	Standard	1.1	ppm	1.0		110	2215	09/02/90	GK
	Standard	2.9	ppm	2.8		104	2215	09/02/90	GK
171232	Duplicate	(2	ppm	2		300	2215	09/02/90	GK
171386	Duplicate	(.2	ppm	(.2		100	2215	09/02/90	GK
171232	Spike		mg/l		2.0	105	2215	09/02/90	GK
171386	Spike		mg/l		2.0	110	2215	09/02/90	GK
Selenium									
	Blank	(.005	ppm				0900	09/03/90	GDG



2600 DUDLEY ROAD - KILGORE, TEXAS 75662 - 214/984-0551

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09/05/90

833 CSG/DE
 MRK: 90MV156
 Bldg. 55
 Holloman AFB, NM 88330
 Attention: Ron Schotter

833 CSG/DE
 MRK: 90MV156
 Bldg. 55
 Holloman AFB, NM 88330
 Attention: Ron Schotter

Sample Identification: Drum 90-25 Poly Thinner 30
 Collected By: CHW
 Date & Time Taken: 08/20/90 0935
 On Site Data: Bldg 282 49 EMS Corr.

Lab Sample Number: 171237 Received: 08/22/90 Client: HAFB

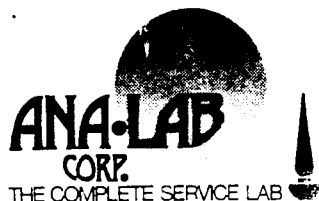
PARAMETER	RESULTS	UNITS	TIME	DATE	METHOD	BY
Liquid TCLP Extraction	24% solids		0600	09/01/90	40 CFR	LW
Solid TCLP Extraction	500-750	ml-1	1200	09/03/90	40 CFR	LW
Flash Point	< 55	Degrees F	1500	08/27/90	EPA Method 1010	DG
Metals Digestion	COMPLETED		1600	08/31/90	EPA Method 3010	JT
Metals digestion/flame analysis	COMPLETED		0800	09/01/90	SW 846 3050	BG
Metals digestion/Graphite furnace	COMPLETED		0800	09/01/90	SW 846 3050	BG
Arsenic Digestion and Analysis	COMPLETED		1200	09/01/90	SW 846 7060	BG
Mercury Digestion and Analysis	COMPLETED		1600	08/31/90	SW 846 7470	BG
Mercury Digestion and Analysis	COMPLETED		1600	08/27/90	SW 846 7471	JT
Selenium Digestion and Analysis	COMPLETED		1200	09/01/90	SW 846 7740	BG
Silver Digestion and Analysis	COMPLETED		1600	09/01/90	SW 846 7760	BG
Polychlorinated biphenyls	<10	ppm	0720	09/04/90	EPA SW-846	PM
Benzene	<.5	ppm	2031	09/03/90	EPA Method 8240	PM
Benzene-BHC	<.4	ppm	0720	09/04/90	EPA Method 8270	PM
Carbon Tetrachloride	<.5	ppm	2031	09/03/90	EPA Method 8240	PM
Chlordane	<.03	ppm	0720	09/04/90	EPA Method 8270	PM

Continued



PARAMETER	RESULTS	UNITS	TIME	DATE	METHOD	BY
Chlorobenzene	(100	ppm	2031	09/03/90	EPA Method 8240	PM
Chloroform	(6	ppm	2031	09/03/90	EPA Method 8240	PM
1,4-Dichlorobenzene	(7.5	ppm	0720	09/04/90	EPA Method 8270	PM
1,2-Dichloroethane	(.5	ppm	2031	09/03/90	EPA Method 8240	PM
1,1-Dichloroethene	(.7	ppm	2031	09/03/90	EPA Method 8240	PM
2,4-Dinitrotoluene	(.13	ppm	0720	09/04/90	EPA Method 8270	PM
Endrin	(.02	ppm	0720	09/04/90	EPA Method 8270	PM
Heptachlor	(8	ppb	0720	09/04/90	EPA Method 8270	PM
Heptachlor epoxide	(8	ppb	0720	09/04/90	EPA Method 8270	PM
Hexachlorobenzene	(.13	ppm	0720	09/04/90	EPA Method 8270	PM
Hexachlorobutadiene	(.5	ppm	0720	09/04/90	EPA Method 8270	PM
Hexachloroethane	(3	ppm	0720	09/04/90	EPA Method 8270	PM
Nitrobenzene	(2	ppm	0720	09/04/90	EPA Method 8270	PM
Pentachlorophenol	(100	ppm	0720	09/04/90	EPA Method 8270	PM
Tetrachloroethene	(.7	ppm	2031	09/03/90	EPA Method 8240	PM
Toxaphene	(.5	ppm	0720	09/04/90	EPA Method 8270	PM
Trichloroethene	(.5	ppm	2031	09/03/90	EPA Method 8240	PM
2,4,6-Trichlorophenol	(2	ppm	0720	09/04/90	EPA Method 8270	PM
Vinyl Chloride	(.2	ppm	2031	09/03/90	EPA Method 8240	PM
2,4 Dichlorophenoxyacetic acid	(10	ppm	0720	09/04/90	EPA Method 8150	PM
2,4,5-Trichlorophenol	(400	ppm	0720	09/04/90	EPA Method 8270	PM

Continued



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Analytical Chemistry • Waste Treatment & Disposal • Equipment Sales

171237 Continued

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PARAMETER	RESULTS	UNITS	TIME	DATE	METHOD	BY
Cresols	(200	ppm	0720	09/04/90	EPA Method 8270	PM
Methyl Ethyl Ketone	13600	ppm	2031	09/03/90	EPA Method 8240	PM
Methoxychlor	(10	ppm	0720	09/04/90	EPA Method 8270	PM
Pyridine	(5	ppm	0720	09/04/90	EPA Method 8270	PM
2,4,5-TP (Silvex)	(1	ppm	0720	09/04/90	EPA Method 8150	PM

THE FOLLOWING ANALYSES WERE PERFORMED ON THE EXTRACT OBTAINED USING THE NEW TCLP EP TOXICITY EXTRACTION PROCEDURE.

Silver	(.4	ppm	1500	09/02/90	EPA Method 7760	GDG
Arsenic	(.06	ppm	0200	09/03/90	EPA Method 7060	GK
Barium	(6	ppm	2345	09/02/90	EPA Method 7000	GK
Cadmium	(.1	ppm	1520	09/02/90	EPA Method 7130	GDG
Chromium	30	ppm	2000	09/02/90	EPA Method 7190	GK
Mercury	(.05	ppm	0900	09/01/90	EPA Method 7470	GDG
Lead	4	ppm	2215	09/02/90	EPA Method 7420	GK
Selenium	(.06	ppm	0900	09/03/90	EPA Method 7740	GDG

Quality Assurance for the SET with Sample 171237

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
Flash Point									
171231	Standard	88	Degrees F	100		113	1500	08/27/90	DG
	Duplicate	(74	Degrees F	(73		100	1500	08/27/90	DG
Silver									
171237	Blank	(.4	ppm				1500	09/02/90	GDG
	Standard	.22	ppm	.20		110	1500	09/02/90	GDG
	Standard	.55	ppm	.50		110	1500	09/02/90	GDG
	Spike		ppm		.46	109	1500	09/02/90	GDG
Arsenic									
	Blank	(.005	ppm				0200	09/03/90	GK



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Quality Assurance for the SET with Sample 171237

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
	Blank	(.06	ppm				0200	09/03/90	GK
	Standard	.092	ppm	.100		100	0200	09/03/90	GK
171390	Duplicate	(.005	ppm	(.005		100	0200	09/03/90	GK
171232	Duplicate	(.005	ppm	(.005		100	0200	09/03/90	GK
171390	Spike		ppm		.100	83	0200	09/03/90	GK
Barium									
	Blank	(6	ppm				2345	09/02/90	GK
	Blank	(.5	ppm				2345	09/02/90	GK
	Standard	5.2	ppm	5.0		104	2345	09/02/90	GK
171232	Duplicate	(6	ppm	(6		100	2345	09/02/90	GK
171386	Duplicate	.7	ppm	.7		100	2345	09/02/90	GK
171232	Spike		ppm		.72	97	2345	09/02/90	GK
171386	Spike		ppm		4.0	98	2345	09/02/90	GK
Cadmium									
	Blank	.01	ppm				1520	09/02/90	GDG
	Blank	.4	ppm				1520	09/02/90	GDG
	Standard	.17	ppm	.17		100	1520	09/02/90	GDG
	Standard	.01	ppm	.01		100	1520	09/02/90	GDG
	Standard	1.00	ppm	1.00		100	1520	09/02/90	GDG
171366	Duplicate	(.01	ppm	(.01		100	1520	09/02/90	GDG
171232	Duplicate	(.1	mg/l	(.1		100	1520	09/02/90	GDG
171386	Spike		ppm		.40	105	1520	09/02/90	GDG
171232	Spike		mg/l		.72	93	1520	09/02/90	GDG
Chromium									
	Blank	(.05	ppm				2000	09/02/90	GK
	Blank	(.6	ppm				2000	09/02/90	GK
	Standard	.52	ppm	.50		104	2000	09/02/90	GK
171386	Duplicate	(.05	ppm	(.05		100	2000	09/02/90	GK
171232	Duplicate	.75	mg/l	.62		119	2000	09/02/90	GK
171232	Duplicate	12	mg/l	12		100	2000	09/02/90	GK
171386	Spike		ppm		.80	116	2000	09/02/90	GK
171232	Spike		mg/l		.46	109	2000	09/02/90	GK
Mercury									
	Blank	.05	ppm				0900	09/01/90	GDG
	Blank	.001	ppm				0900	09/01/90	GDG
	Standard	.011	ppm	.010		110	0900	09/01/90	GDG
171216	Duplicate	(.05	ppm	(.05		100	0900	09/01/90	GDG
171382	Duplicate	(.001	ppm	(.001		100	0900	09/01/90	GDG
171216	Spike		ppm		.024	109	0900	09/01/90	GDG
171382	Spike		ppm		.010	110	0900	09/01/90	GDG
171390	Spike		mg/l		.010	91	0900	09/01/90	GDG
171477	Spike		mg/l		.010	82	0900	09/01/90	GDG
Lead									



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Quality Assurance for the SET with Sample 171237

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
	Blank	4	ppm				2215	09/02/90	GK
	Blank	1.2	ppm				2215	09/02/90	GK
	Standard	1.1	ppm	1.0		110	2215	09/02/90	GK
	Standard	2.9	ppm	2.8		104	2215	09/02/90	GK
171232	Duplicate	1.2	ppm	2		300	2215	09/02/90	GK
171386	Duplicate	1.2	ppm	1.2		100	2215	09/02/90	GK
171232	Spike		mg/l		2.0	105	2215	09/02/90	GK
171386	Spike		mg/l		2.0	110	2215	09/02/90	GK
Selenium									
	Blank	0.005	ppm				0900	09/03/90	GDG
	Blank	0.05	ppm				0900	09/03/90	GDG
	Standard	0.096	ppm	0.100		104	0900	09/03/90	GDG
171232	Duplicate	0.005	ppm	0.005		100	0900	09/03/90	GDG
171232	Spike		ppm		0.100	90	0900	09/03/90	GDG

C. H. Whiteside

C. H. Whiteside, Ph.D., President

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ANALYTICAL REPORTS



2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 214/984-0551

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09/05/90

833 CSG/DE
 MRK: 90MV156
 Bldg. 55
 Holloman AFB, NM 88330
 Attention: Ron Schotter

833 CSG/DE
 MRK: 90MV156
 Bldg. 55
 Holloman AFB, NM 88330
 Attention: Ron Schotter

Sample Identification: Drum 90-10
 Collected By: CHW
 Date & Time Taken: 08/20/90 1110
 On Site Data: Building 856 Dyncorp

Lab Sample Number: 171239 Received: 08/22/90 Client: HAFB

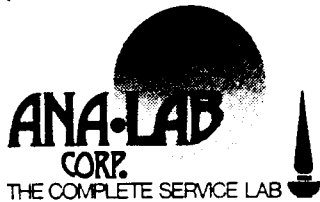
PARAMETER	RESULTS	UNITS	TIME	DATE	METHOD	BY
Liquid TCLP Extraction	0% solids		1200	09/03/90	40 CFR	LW
Solid TCLP Extraction	100-100	ml-ml	1200	09/03/90	40 CFR	LW
Flash Point	< 56	Degrees F	1500	08/27/90	EPA Method 1010	DE
Metal Digestion	COMPLETED		1600	08/31/90	EPA Method 3010	JT
Metals digestion/flame analysis	COMPLETED		0800	09/01/90	SW 846 3050	BG
Metal digestion/Graphite furnace	COMPLETED		0800	09/01/90	SW 846 3050	BG
Arsenic Digestion and Analysis	COMPLETED		1200	09/01/90	SW 846 7060	BG
Mercury Digestion and Analysis	COMPLETED		1600	08/31/90	SW 846 7470	JT
Mercury Digestion and Analysis	COMPLETED		1600	08/31/90	SW 846 7471	JT
Selenium Digestion and Analysis	COMPLETED		1200	09/01/90	SW 846 7740	BG
Silver Digestion and Analysis	COMPLETED		1600	09/01/90	SW 846 7760	BG
Polychlorinated biphenyls	<10	ppm	1251	09/04/90	EPA SW-846	PM
Benzene	<.5	ppm	0217	09/04/90	EPA Method 8240	PM
Gamma-BHC	<.4	ppm	1251	09/04/90	EPA Method 8270	PM
Carbon Tetrachloride	<.5	ppm	0217	09/04/90	EPA Method 8240	PM
Chlordane	<.03	ppm	1251	09/04/90	EPA Method 8270	PM

Continued



PARAMETER	RESULTS	UNITS	TIME	DATE	METHOD	BY
Chlorobenzene	134	ppm	0217	09/04/90	EPA Method 8240	PM
Chloroform	(6	ppm	0217	09/04/90	EPA Method 8240	PM
1,4-Dichlorobenzene	(7.5	ppm	1251	09/04/90	EPA Method 8270	PM
1,2-Dichloroethane	(.5	ppm	0217	09/04/90	EPA Method 8240	PM
1,1-Dichloroethene	(.7	ppm	0217	09/04/90	EPA Method 8240	PM
2,4-Dinitrotoluene	(.13	ppm	1251	09/04/90	EPA Method 8270	PM
Endrin	(.02	ppm	1251	09/04/90	EPA Method 8270	PM
Heptachlor	(8	ppb	1251	09/04/90	EPA Method 8270	PM
Heptachlor epoxide	(8	ppb	1251	09/04/90	EPA Method 8270	PM
Hexachlorobenzene	(.13	ppm	1251	09/04/90	EPA Method 8270	PM
Hexachlorobutadiene	(.5	ppm	1251	09/04/90	EPA Method 8270	PM
Hexachloroethane	(3	ppm	1251	09/04/90	EPA Method 8270	PM
Nitrobenzene	(2	ppm	1251	09/04/90	EPA Method 8270	PM
Pentachlorophenol	(100	ppm	1251	09/04/90	EPA Method 8270	PM
Tetrachloroethene	(.7	ppm	0217	09/04/90	EPA Method 8240	PM
Toxaphene	(.5	ppm	1251	09/04/90	EPA Method 8270	PM
Trichloroethene	(.5	ppm	0217	09/04/90	EPA Method 8240	PM
2,4,6-Trichlorophenol	(2	ppm	1251	09/04/90	EPA Method 8270	PM
Vinyl Chloride	(.2	ppm	0217	09/04/90	EPA Method 8240	PM
2,4 Dichlorophenoxyacetic acid	(10	ppm	1251	09/04/90	EPA Method 8150	PM
2,4,5-Trichlorophenol	(400	ppm	1251	09/04/90	EPA Method 8270	PM

Continued



PARAMETER	RESULTS	UNITS	TIME	DATE	METHOD	BY
Cresols	(200	ppm	1251	09/04/90	EPA Method 8270	PM
Methyl Ethyl Ketone	(200	ppm	0217	09/04/90	EPA Method 8240	PM
Methoxychlor	(10	ppm	1251	09/04/90	EPA Method 8270	PM
Pyridine	(5	ppm	1251	09/04/90	EPA Method 8270	PM
2,4,5-TP (Silvex)	(1	ppm	1251	09/04/90	EPA Method 8150	PM

THE FOLLOWING ANALYSES WERE PERFORMED ON THE EXTRACT OBTAINED USING THE NEW TCLP EP TOXICITY EXTRACTION PROCEDURE.

Silver	(.4	ppm	1500	09/02/90	EPA Method 7760	GDG
Arsenic	(.06	ppm	0200	09/03/90	EPA Method 7060	GK
Barium	(6	ppm	2345	09/02/90	EPA Method 7080	GK
Cadmium	(.1	ppm	1520	09/02/90	EPA Method 7130	GDG
Chromium	14	ppm	2000	09/02/90	EPA Method 7190	GK
Mercury	(.05	ppm	0900	09/01/90	EPA Method 7470	GDG
Lead	52	ppm	2215	09/02/90	EPA Method 7420	GK
Selenium	(.06	ppm	0900	09/03/90	EPA Method 7740	GDG

Quality Assurance for the SET with Sample 171239

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
Flash Point									
171231	Standard	88	Degrees F	100		113	1500	08/27/90	DG
	Duplicate	(74	Degrees F	(73		100	1500	08/27/90	DG
Silver									
171237	Blank	(.4	ppm				1500	09/02/90	GDG
	Standard	.22	ppm	.20		110	1500	09/02/90	GDG
	Standard	.55	ppm	.50		110	1500	09/02/90	GDG
	Spike		ppm		.46	109	1500	09/02/90	GDG
Arsenic									
	Blank	(.005	ppm				0200	09/03/90	GK



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Quality Assurance for the SET with Sample 171239

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
	Blank	.06	ppm				0200	09/03/90	GK
	Standard	.092	ppm	.100		100	0200	09/03/90	GK
171390	Duplicate	(.005	ppm	(.005		100	0200	09/03/90	GK
171232	Duplicate	(.005	ppm	(.005		100	0200	09/03/90	GK
171390	Spike		ppm		.100	83	0200	09/03/90	GK
Barium									
	Blank	.6	ppm				2345	09/02/90	GK
	Blank	.5	ppm				2345	09/02/90	GK
	Standard	5.2	ppm	5.0		104	2345	09/02/90	GK
171232	Duplicate	.6	ppm	.6		100	2345	09/02/90	GK
171386	Duplicate	.7	ppm	.7		100	2345	09/02/90	GK
171232	Spike		ppm		.72	97	2345	09/02/90	GK
171386	Spike		ppm		4.0	98	2345	09/02/90	GK
Cadmium									
	Blank	.01	ppm				1520	09/02/90	GDE
	Blank	.4	ppm				1520	09/02/90	GDE
	Standard	.17	ppm	.17		100	1520	09/02/90	GDE
	Standard	.01	ppm	.01		100	1520	09/02/90	GDE
	Standard	1.00	ppm	1.00		100	1520	09/02/90	GDE
171386	Duplicate	(.01	ppm	(.01		100	1520	09/02/90	GDE
171232	Duplicate	(.1	mg/l	(.1		100	1520	09/02/90	GDE
171386	Spike		ppm		.40	105	1520	09/02/90	GDE
171232	Spike		mg/l		.72	93	1520	09/02/90	GDE
Chromium									
	Blank	(.05	ppm				2000	09/02/90	GK
	Blank	(.6	ppm				2000	09/02/90	GK
	Standard	.52	ppm	.50		104	2000	09/02/90	GK
171386	Duplicate	(.05	ppm	(.05		100	2000	09/02/90	GK
171232	Duplicate	.75	mg/l	.62		119	2000	09/02/90	GK
171232	Duplicate	12	mg/l	12		100	2000	09/02/90	GK
171386	Spike		ppm		.80	116	2000	09/02/90	GK
171232	Spike		mg/l		.46	109	2000	09/02/90	GK
Mercury									
	Blank	.05	ppm				0900	09/01/90	GDE
	Blank	.001	ppm				0900	09/01/90	GDE
	Standard	.011	ppm	.010		110	0900	09/01/90	GDE
171216	Duplicate	(.05	ppm	(.05		100	0900	09/01/90	GDE
171382	Duplicate	(.001	ppm	(.001		100	0900	09/01/90	GDE
171216	Spike		ppm		.024	109	0900	09/01/90	GDE
171382	Spike		ppm		.010	110	0900	09/01/90	GDE
171390	Spike		mg/l		.010	91	0900	09/01/90	GDE
171477	Spike		mg/l		.010	82	0900	09/01/90	GDE

Lead



2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 214/984-0551

Analytical Chemistry • Waste Treatment & Disposal • Equipment Sales

Quality Assurance for the SET with Sample 171239

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
	Blank	4	ppm				2215	09/02/90	GK
	Blank	1.2	ppm				2215	09/02/90	GK
	Standard	1.1	ppm	1.0		110	2215	09/02/90	GK
	Standard	2.9	ppm	2.8		104	2215	09/02/90	GK
171232	Duplicate	(2	ppm	2		300	2215	09/02/90	GK
171386	Duplicate	(.2	ppm	(.2		100	2215	09/02/90	GK
171232	Spike		mg/l		2.0	105	2215	09/02/90	GK
171386	Spike		mg/l		2.0	110	2215	09/02/90	GK
Selenium									
	Blank	(.005	ppm				0900	09/03/90	GD6
	Blank	(.06	ppm				0900	09/03/90	GD6
	Standard	.096	ppm	.100		104	0900	09/03/90	GD6
171232	Duplicate	(.005	ppm	(.005		100	0900	09/03/90	GD6
171232	Spike		ppm		.100	90	0900	09/03/90	GD6

C. H. Whiteside

C. H. Whiteside, Ph.D., President