ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971344

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-31	12-JUN-97	EP-70RG	CU	14	PPM	LCS	01-JUL-97		EDXRF
			FE	2.1	%	LCS	01-JUL-97		EDXRF
			PB	20	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	53	PPM	LCS	01-JUL-97		EDXRF
L971344-32	12-JUN-97	EP-70RH	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	77	PPM	LCS	01-JUL-97		EDXRF
			CU	68	PPM	LCS	01-JUL-97		EDXRF
			FE	2.9	%	LCS	01-JUL-97		EDXRF
			PB	45	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	110	PPM	LCS	01-JUL-97		EDXRF
L971344-33	12-JUN-97	EP-70RI	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	110	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.6	%	LCS	01-JUL-97		EDXRF
			PB	12	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	53	PPM	LCS	01-JUL-97		EDXRF
L971344-34	12-JUN-97	EP-70RJ	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.7	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	65	PPM	LCS	01-JUL-97		EDXRF
L971344-35	12-JUN-97	EP-70RK	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	150	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.7	%	LCS	01-JUL-97		EDXRF
			PB	16	PPM	LCS	01-JUL-97		EDXRF

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L971344

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-35	12-JUN-97	EP-70RK	SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	26	PPM	LCS	01-JUL-97		EDXRF
L971344-36	12-JUN-97	EP-70RL	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.7	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	55	PPM	LCS	01-JUL-97		EDXRF
L971344-37	12-JUN-97	EP-70RM	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.7	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	33	PPM	LCS	01-JUL-97		EDXRF
L971344-38	12-JUN-97	EP-71RF	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	2.3	%	LCS	01-JUL-97		EDXRF
			PB	19	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	61	PPM	LCS	01-JUL-97		EDXRF
L971344-39	12-JUN-97	EP-71RG	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	150	PPM	LCS	01-JUL-97		EDXRF
			CU	25	PPM	LCS	01-JUL-97		EDXRF
			FE	2.0	%	LCS	01-JUL-97		EDXRF
			PB	29	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	63	PPM	LCS	01-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L971344-40	12-JUN-97	EP-71RH	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	35	PPM	LCS	01-JUL-97		EDXRF
			FE	1.9	%	LCS	01-JUL-97		EDXRF
			PB	13	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	31	PPM	LCS	01-JUL-97		EDXRF
L971344-41	12-JUN-97	EP-71RI	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	57	PPM	LCS	01-JUL-97		EDXRF
			CU	37	PPM	LCS	01-JUL-97		EDXRF
			FE	1.6	%	LCS	01-JUL-97		EDXRF
			PB	11	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	38	PPM	LCS	01-JUL-97		EDXRF
L971344-42	12-JUN-97	EP-71RJ	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	200	PPM	LCS	01-JUL-97		EDXRF
			CU	21	PPM	LCS	01-JUL-97		EDXRF
			FE	1.9	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	50	PPM	LCS	01-JUL-97		EDXRF
L971344-43	12-JUN-97	EP-71RK	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	81	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.8	%	LCS	01-JUL-97		EDXRF
			PB	13	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	46	PPM	LCS	01-JUL-97		EDXRF
L971344-44	12-JUN-97	EP-71RL	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	46	PPM	LCS	01-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-44	12-JUN-97	EP-71RL	CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.7	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	50	PPM	LCS	01-JUL-97		EDXRF
L971344-45	12-JUN-97	EP-71RL2	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.7	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	51	PPM	LCS	01-JUL-97		EDXRF
L971344-46	11-JUN-97	EP-71RD	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.8	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	31	PPM	LCS	01-JUL-97		EDXRF
L971344-47	11-JUN-97	EP-71RE	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	39	PPM	LCS	01-JUL-97		EDXRF
			CU	25	PPM	LCS	01-JUL-97		EDXRF
			FE	1.9	%	LCS	01-JUL-97		EDXRF
			PB	20	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	38	PPM	LCS	01-JUL-97		EDXRF

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L971344

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD

Approved

Reviewer

ASARCO

RECEIVED
JUL 14 1997
HYDROMETRICS, INC.

July 8, 1997

Mr. Lairy Johnson
Hydrometrics
El Paso

Please find attached the X-ray result for your El Paso soil samples received on the 20th of June 1997. Also attached are the Q C results for this set.

If you have any questions pertaining to the data please feel free to call.

Lee Stone
Senior Analytical
Chemist

cc: CRStanga (w\attach)
JVanek "

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

Q C FOR ELPASO SOILS L971402

CCV 30651-58

	PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
GIVEN		12	420		18	8062		27400
FOUND	424	21	278	951	15	7514	12	28505
	450	<10	386	1129	15	7453	19	28429
	515	11	340	1070	15	7357	13	28629
	375	11	443	943	15	7472	16	28390
	588	19	322	956	15	7429	27	28504

LCS BRS2704

GIVEN	23.4	3.45	135	98.6	4.4	161		438
FOUND	<20	<10	115	117	4.4	188	<10	494
	<20	<10	115	140	4.5	200	<10	499

LCS SO-1

GIVEN			160	61	6	21		146
FOUND	<20	<10	77	47	6	47	<10	176

DUPLICATES

L971402-20	<20	<10	<30	41	1.4	55	<10	68
DUP402-20	<20	<10	46	44	1.4	59	<10	55
%DIFF			88	7	0	7		21
L971402-40	<20	<10	43	<20	1.1	<10	<10	42
DUP402-40	<20	<10	91	<20	1.0	<10	<10	23
%DIFF			72		10			58

CCV 30651-58

	As	Cd	Cr	CU	Fe	Pb	Se	Zn
Given		12PPM	420PPM		18%	8062PPM		27400PPM
% Recov.		175	66		83	93		104
		75	92		83	92		104
		92	81		83	91		104
		92	105		83	93		104
		158	77		83	92		104

LCS BRS2704

GIVEN	23.4PPM	3.45PPM	135PPM	98.6PPM	4.40%	161PPM		438PPM
% RECOV			85	119	100	117		113
			85	142	102	124		114

LCS SO-1

GIVEN			160PPM	61PPM	6%	21PPM		146PPM
% RECOV			48	77	100	224		121

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Batch No: L971402

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-1	12-JUN-97	EP-85A	AS	59	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	58	PPM	LCS	07-JUL-97		EDXRF
			FE	2.0	%	LCS	07-JUL-97		EDXRF
			PB	150	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	180	PPM	LCS	07-JUL-97		EDXRF
L971402-2	12-JUN-97	EP-85B	AS	27	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	78	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.5	%	LCS	07-JUL-97		EDXRF
			PB	15	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	35	PPM	LCS	07-JUL-97		EDXRF
L971402-3	12-JUN-97	EP-85C	AS	22	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	63	PPM	LCS	07-JUL-97		EDXRF
			CU	41	PPM	LCS	07-JUL-97		EDXRF
			FE	1.7	%	LCS	07-JUL-97		EDXRF
			PB	27	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	26	PPM	LCS	07-JUL-97		EDXRF
L971402-4	12-JUN-97	EP-85D	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.8	%	LCS	07-JUL-97		EDXRF
			PB	32	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	99	PPM	LCS	07-JUL-97		EDXRF
L971402-5	13-JUN-97	EP-86A	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-5	13-JUN-97	EP-86A	CU	76	PPM	LCS	07-JUL-97		EDXRF
			FE	1.9	%	LCS	07-JUL-97		EDXRF
			PB	87	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	100	PPM	LCS	07-JUL-97		EDXRF
L971402-6	13-JUN-97	EP-86B	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.5	%	LCS	07-JUL-97		EDXRF
			PB	33	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	100	PPM	LCS	07-JUL-97		EDXRF
L971402-7	13-JUN-97	EP-86C	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	31	PPM	LCS	07-JUL-97		EDXRF
			FE	2.1	%	LCS	07-JUL-97		EDXRF
			PB	16	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	57	PPM	LCS	07-JUL-97		EDXRF
L971402-8	13-JUN-97	EP-86D	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	42	PPM	LCS	07-JUL-97		EDXRF
			FE	2.2	%	LCS	07-JUL-97		EDXRF
			PB	48	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	85	PPM	LCS	07-JUL-97		EDXRF
L971402-9	13-JUN-97	EP-86E	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	39	PPM	LCS	07-JUL-97		EDXRF
			CU	30	PPM	LCS	07-JUL-97		EDXRF
			FE	1.6	%	LCS	07-JUL-97		EDXRF
			PB	39	PPM	LCS	07-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-9	13-JUN-97	EP-86E	SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	63	PPM	LCS	07-JUL-97		EDXRF
L971402-10	13-JUN-97	EP-86F	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	30	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.3	%	LCS	07-JUL-97		EDXRF
			PB	26	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	52	PPM	LCS	07-JUL-97		EDXRF
L971402-11	13-JUN-97	EP-86G	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	100	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	0.9	%	LCS	07-JUL-97		EDXRF
			PB	25	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	42	PPM	LCS	07-JUL-97		EDXRF
L971402-12	13-JUN-97	EP-86H	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	22	PPM	LCS	07-JUL-97		EDXRF
			FE	0.9	%	LCS	07-JUL-97		EDXRF
			PB	14	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	33	PPM	LCS	07-JUL-97		EDXRF
L971402-13	13-JUN-97	EP-86I	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	30	PPM	LCS	07-JUL-97		EDXRF
			FE	1.2	%	LCS	07-JUL-97		EDXRF
			PB	16	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	23	PPM	LCS	07-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-14	13-JUN-97	EP-86J	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	35	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.4	%	LCS	07-JUL-97		EDXRF
			PB	17	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	25	PPM	LCS	07-JUL-97		EDXRF
L971402-15	13-JUN-97	EP-86K	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	0.7	%	LCS	07-JUL-97		EDXRF
			PB	14	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	19	PPM	LCS	07-JUL-97		EDXRF
L971402-16	13-JUN-97	EP-86L	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	25	PPM	LCS	07-JUL-97		EDXRF
			FE	1.8	%	LCS	07-JUL-97		EDXRF
			PB	<10	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	41	PPM	LCS	07-JUL-97		EDXRF
L971402-17	13-JUN-97	EP-86M	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	55	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.3	%	LCS	07-JUL-97		EDXRF
			PB	<10	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	36	PPM	LCS	07-JUL-97		EDXRF
L971402-18	13-JUN-97	EP-86M2	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-18	13-JUN-97	EP-86M2	CU	30	PPM	LCS	07-JUL-97		EDXRF
			FE	1.5	%	LCS	07-JUL-97		EDXRF
			PB	<10	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	18	PPM	LCS	07-JUL-97		EDXRF
L971402-19	16-JUN-97	EP-87A	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	86	PPM	LCS	07-JUL-97		EDXRF
			CU	20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.4	%	LCS	07-JUL-97		EDXRF
			PB	14	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	42	PPM	LCS	07-JUL-97		EDXRF
L971402-20	16-JUN-97	EP-87B	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	41	PPM	LCS	07-JUL-97		EDXRF
			FE	1.4	%	LCS	07-JUL-97		EDXRF
			PB	54	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	68	PPM	LCS	07-JUL-97		EDXRF
L971402-21	16-JUN-97	EP-87C	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.2	%	LCS	07-JUL-97		EDXRF
			PB	11	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	19	PPM	LCS	07-JUL-97		EDXRF
L971402-22	16-JUN-97	EP-88A	AS	550	PPM	LCS	07-JUL-97		EDXRF
			CD	150	PPM	LCS	07-JUL-97		EDXRF
			CR	200	PPM	LCS	07-JUL-97		EDXRF
			CU	5600	PPM	LCS	07-JUL-97		EDXRF
			FE	2.1	%	LCS	07-JUL-97		EDXRF
			PB	3600	PPM	LCS	07-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-22	16-JUN-97	EP-88A	SE	23	PPM	LCS	07-JUL-97		EDXRF
			ZN	3100	PPM	LCS	07-JUL-97		EDXRF
L971402-23	16-JUN-97	EP-88B	AS	50	PPM	LCS	07-JUL-97		EDXRF
			CD	120	PPM	LCS	07-JUL-97		EDXRF
			CR	120	PPM	LCS	07-JUL-97		EDXRF
			CU	2200	PPM	LCS	07-JUL-97		EDXRF
			FE	3.3	%	LCS	07-JUL-97		EDXRF
			PB	2700	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	3200	PPM	LCS	07-JUL-97		EDXRF
L971402-24	16-JUN-97	EP-88C	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	59	PPM	LCS	07-JUL-97		EDXRF
			CU	38	PPM	LCS	07-JUL-97		EDXRF
			FE	2.4	%	LCS	07-JUL-97		EDXRF
			PB	35	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	54	PPM	LCS	07-JUL-97		EDXRF
L971402-25	16-JUN-97	EP-88C2	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	33	PPM	LCS	07-JUL-97		EDXRF
			FE	2.3	%	LCS	07-JUL-97		EDXRF
			PB	19	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	61	PPM	LCS	07-JUL-97		EDXRF
L971402-26	16-JUN-97	EP-88D	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	55	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	3.0	%	LCS	07-JUL-97		EDXRF
			PB	35	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	95	PPM	LCS	07-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-27	16-JUN-97	EP-88E	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	76	PPM	LCS	07-JUL-97		EDXRF
			FE	1.8	%	LCS	07-JUL-97		EDXRF
			PB	58	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	55	PPM	LCS	07-JUL-97		EDXRF
L971402-28	16-JUN-97	EP-88F	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	36	PPM	LCS	07-JUL-97		EDXRF
			FE	2.8	%	LCS	07-JUL-97		EDXRF
			PB	19	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	49	PPM	LCS	07-JUL-97		EDXRF
L971402-29	16-JUN-97	EP-88G	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	100	PPM	LCS	07-JUL-97		EDXRF
			CU	30	PPM	LCS	07-JUL-97		EDXRF
			FE	2.7	%	LCS	07-JUL-97		EDXRF
			PB	18	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	68	PPM	LCS	07-JUL-97		EDXRF
L971402-30	16-JUN-97	EP-88H	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	70	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.8	%	LCS	07-JUL-97		EDXRF
			PB	<10	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	42	PPM	LCS	07-JUL-97		EDXRF
L971402-31	18-JUN-97	EP-89A	AS	34	PPM	LCS	07-JUL-97		EDXRF
			CD	110	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-31	18-JUN-97	EP-89A	CU	4900	PPM	LCS	07-JUL-97		EDXRF
			FE	2.7	%	LCS	07-JUL-97		EDXRF
			PB	9600	PPM	LCS	07-JUL-97		EDXRF
			SE	20	PPM	LCS	07-JUL-97		EDXRF
			ZN	4100	PPM	LCS	07-JUL-97		EDXRF
L971402-32	18-JUN-97	EP-89B	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	48	PPM	LCS	07-JUL-97		EDXRF
			CU	25	PPM	LCS	07-JUL-97		EDXRF
			FE	2.3	%	LCS	07-JUL-97		EDXRF
			PB	42	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	78	PPM	LCS	07-JUL-97		EDXRF
L971402-33	18-JUN-97	EP-89C	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	160	PPM	LCS	07-JUL-97		EDXRF
			FE	3.2	%	LCS	07-JUL-97		EDXRF
			PB	180	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	200	PPM	LCS	07-JUL-97		EDXRF
L971402-34	18-JUN-97	EP-89D	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	75	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	2.5	%	LCS	07-JUL-97		EDXRF
			PB	22	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	56	PPM	LCS	07-JUL-97		EDXRF
L971402-35	18-JUN-97	EP-89E	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	54	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.9	%	LCS	07-JUL-97		EDXRF
			PB	39	PPM	LCS	07-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-35	18-JUN-97	EP-89E	SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	72	PPM	LCS	07-JUL-97		EDXRF
L971402-36	18-JUN-97	EP-89F	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	38	PPM	LCS	07-JUL-97		EDXRF
			FE	2.0	%	LCS	07-JUL-97		EDXRF
			PB	92	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	180	PPM	LCS	07-JUL-97		EDXRF
L971402-37	18-JUN-97	EP-89G	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	91	PPM	LCS	07-JUL-97		EDXRF
			CU	30	PPM	LCS	07-JUL-97		EDXRF
			FE	1.7	%	LCS	07-JUL-97		EDXRF
			PB	14	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	61	PPM	LCS	07-JUL-97		EDXRF
L971402-38	18-JUN-97	EP-89H	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	46	PPM	LCS	07-JUL-97		EDXRF
			CU	33	PPM	LCS	07-JUL-97		EDXRF
			FE	1.3	%	LCS	07-JUL-97		EDXRF
			PB	44	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	65	PPM	LCS	07-JUL-97		EDXRF
L971402-39	18-JUN-97	EP-89I	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	88	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.2	%	LCS	07-JUL-97		EDXRF
			PB	14	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	32	PPM	LCS	07-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-40	18-JUN-97	EP-73F	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	43	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.1	%	LCS	07-JUL-97		EDXRF
			PB	<10	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	42	PPM	LCS	07-JUL-97		EDXRF

Approved

Reviewer

ASARCO Confirmation Samples

July 15, 1997

RECEIVED
JUL 18 1997
HYDROMETRICS, INC.

Ms. Jenny Vanek
HYDROMETRICS INC.
2727 Airport Road
Helena, MT 59601

Attached are the analytical results for twenty, (20) XRF Confirmation soil samples from the **El Paso**, selected and analyzed upon your request.

If you need further information, please call me at (801) 263-5266.

Sincerely,

Adil Harami
Senior Chemist

AKH/jh
Attach.

cc: Lairy Johnson (w/attach.)
Lee Stone "
GRStanga "

1 in 20.
Wet Chemistry
Confirmation

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971526

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971526-1	11-JUN-97	EP-71RA	(L971344-1)	AS	984	ppm	JJT	11-JUL-97		6010
				CD	85	ppm	JJT	11-JUL-97		6010
				CR	26	ppm	JJT	11-JUL-97		6010
				CU	22970	ppm	JJT	11-JUL-97		6010
				FE	40150	ppm	JJT	11-JUL-97		6010
				PB	5793	ppm	JJT	11-JUL-97		6010
				SE	33	ppm	JJT	11-JUL-97		6010
				ZN	3049	ppm	JJT	11-JUL-97		6010
L971526-2	28-MAY-97	EP-67A	L971239-1)	AS	1035	ppm	JJT	11-JUL-97		6010
				CD	292	ppm	JJT	11-JUL-97		6010
				CR	25	ppm	JJT	11-JUL-97		6010
				CU	15910	ppm	JJT	11-JUL-97		6010
				FE	19290	ppm	JJT	11-JUL-97		6010
				PB	8051	ppm	JJT	11-JUL-97		6010
				SE	26	ppm	JJT	11-JUL-97		6010
				ZN	3176	ppm	JJT	11-JUL-97		6010
L971526-3	28-MAY-97	EP-67B	(L971239-2)	AS	197	ppm	JJT	11-JUL-97		6010
				CD	137	ppm	JJT	11-JUL-97		6010
				CR	22	ppm	JJT	11-JUL-97		6010
				CU	1254	ppm	JJT	11-JUL-97		6010
				FE	15250	ppm	JJT	11-JUL-97		6010
				PB	392	ppm	JJT	11-JUL-97		6010
				SE	<10	ppm	JJT	11-JUL-97		6010
				ZN	438	ppm	JJT	11-JUL-97		6010
L971526-4	28-MAY-97	EP-67C	(L971239-3)	AS	170	ppm	JJT	11-JUL-97		6010
				CD	42	ppm	JJT	11-JUL-97		6010
				CR	21	ppm	JJT	11-JUL-97		6010
				CU	161	ppm	JJT	11-JUL-97		6010
				FE	14620	ppm	JJT	11-JUL-97		6010
				PB	15	ppm	JJT	11-JUL-97		6010
				SE	<10	ppm	JJT	11-JUL-97		6010
				ZN	31	ppm	JJT	11-JUL-97		6010
L971526-5	03-JUN-97	EP-76B	(L971325-5)	AS	530	ppm	KPB	14-JUL-97		6020
				CD	<10	ppm	KPB	14-JUL-97		6020
				CR	132	ppm	JJT	11-JUL-97		6010

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Batch No: L971526

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971526-5	03-JUN-97	EP-76B	(L971325-5)	CU	4699	ppm	JJT	11-JUL-97		6010
				FE	207300	ppm	JJT	11-JUL-97		6010
				PB	4897	ppm	JJT	11-JUL-97		6010
				SE	96	ppm	KPB	14-JUL-97		6020
				ZN	118100	ppm	JJT	11-JUL-97		6010
L971526-6	13-JUN-97	EP-86D	(L971402-8)	AS	<10	ppm	JJT	11-JUL-97		6010
				CD	<10	ppm	JJT	11-JUL-97		6010
				CR	12	ppm	JJT	11-JUL-97		6010
				CU	31	ppm	JJT	11-JUL-97		6010
				FE	13810	ppm	JJT	11-JUL-97		6010
				PB	35	ppm	JJT	11-JUL-97		6010
				SE	<10	ppm	JJT	11-JUL-97		6010
				ZN	139	ppm	JJT	11-JUL-97		6010
L971526-7	04-JUN-97	EP-77A	(L971325-10)	AS	240	ppm	JJT	11-JUL-97		6010
				CD	11	ppm	JJT	11-JUL-97		6010
				CR	14	ppm	JJT	11-JUL-97		6010
				CU	1583	ppm	JJT	11-JUL-97		6010
				FE	84180	ppm	JJT	11-JUL-97		6010
				PB	1902	ppm	JJT	11-JUL-97		6010
				SE	<10	ppm	JJT	11-JUL-97		6010
				ZN	799	ppm	JJT	11-JUL-97		6010
L971526-8	04-JUN-97	EP-77B	(L971325-11)	AS	69	ppm	JJT	11-JUL-97		6010
				CD	35	ppm	JJT	11-JUL-97		6010
				CR	18	ppm	JJT	11-JUL-97		6010
				CU	208	ppm	JJT	11-JUL-97		6010
				FE	20220	ppm	JJT	11-JUL-97		6010
				PB	648	ppm	JJT	11-JUL-97		6010
				SE	<10	ppm	JJT	11-JUL-97		6010
				ZN	723	ppm	JJT	11-JUL-97		6010
L971526-9	11-JUN-97	EP-84C	(L971344-15)	AS	<10	ppm	JJT	11-JUL-97		6010
				CD	<10	ppm	JJT	11-JUL-97		6010
				CR	<10	ppm	JJT	11-JUL-97		6010
				CU	45	ppm	JJT	11-JUL-97		6010
				FE	17650	ppm	JJT	11-JUL-97		6010
				PB	35	ppm	JJT	11-JUL-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971526

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971526-9	11-JUN-97	EP-84C	(L971344-15)	SE	<10	ppm	JJT	11-JUL-97		6010
				ZN	80	ppm	JJT	11-JUL-97		6010
L971526-10	11-JUN-97	EP-84D	(L971344-16)	AS	<10	ppm	JJT	11-JUL-97		6010
				CD	<10	ppm	JJT	11-JUL-97		6010
				CR	<10	ppm	JJT	11-JUL-97		6010
				CU	35	ppm	JJT	11-JUL-97		6010
				FE	16050	ppm	JJT	11-JUL-97		6010
				PB	20	ppm	JJT	11-JUL-97		6010
				SE	<10	ppm	JJT	11-JUL-97		6010
				ZN	80	ppm	JJT	11-JUL-97		6010
L971526-11	04-JUN-97	EP-78A	(L971325-18)	AS	524	ppm	JJT	11-JUL-97		6010
				CD	32	ppm	JJT	11-JUL-97		6010
				CR	15	ppm	JJT	11-JUL-97		6010
				CU	526	ppm	JJT	11-JUL-97		6010
				FE	24770	ppm	JJT	11-JUL-97		6010
				PB	359	ppm	JJT	11-JUL-97		6010
				SE	<10	ppm	JJT	11-JUL-97		6010
				ZN	1928	ppm	JJT	11-JUL-97		6010
L971526-12	16-JUN-97	EP-88A	(L971402-22)	AS	420	ppm	JJT	11-JUL-97		6010
				CD	96	ppm	JJT	11-JUL-97		6010
				CR	16	ppm	JJT	11-JUL-97		6010
				CU	3756	ppm	JJT	11-JUL-97		6010
				FE	13090	ppm	JJT	11-JUL-97		6010
				PB	2508	ppm	JJT	11-JUL-97		6010
				SE	18	ppm	JJT	11-JUL-97		6010
				ZN	2062	ppm	JJT	11-JUL-97		6010
L971526-13	18-JUN-97	EP-89A	(L971402-31)	AS	275	ppm	JJT	11-JUL-97		6010
				CD	70	ppm	JJT	11-JUL-97		6010
				CR	16	ppm	JJT	11-JUL-97		6010
				CU	3695	ppm	JJT	11-JUL-97		6010
				FE	20380	ppm	JJT	11-JUL-97		6010
				PB	8968	ppm	JJT	11-JUL-97		6010
				SE	11	ppm	JJT	11-JUL-97		6010
				ZN	2880	ppm	JJT	11-JUL-97		6010

ASARCO TECHNIL ERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971526

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971526-14	18-JUN-97	EP-89B	(L971402-32)	AS	<10	ppm	JJT	11-JUL-97		6010
				CD	<10	ppm	JJT	11-JUL-97		6010
				CR	10	ppm	JJT	11-JUL-97		6010
				CU	39	ppm	JJT	11-JUL-97		6010
				FE	14870	ppm	JJT	11-JUL-97		6010
				PB	38	ppm	JJT	11-JUL-97		6010
				SE	<10	ppm	JJT	11-JUL-97		6010
				ZN	53	ppm	JJT	11-JUL-97		6010
L971526-15	31-MAY-97	EP-70E	(L971239-32)	AS	213	ppm	JJT	11-JUL-97		6010
				CD	40	ppm	JJT	11-JUL-97		6010
				CR	16	ppm	JJT	11-JUL-97		6010
				CU	28	ppm	JJT	11-JUL-97		6010
				FE	15050	ppm	JJT	11-JUL-97		6010
				PB	17	ppm	JJT	11-JUL-97		6010
				SE	<10	ppm	JJT	11-JUL-97		6010
				ZN	561	ppm	JJT	11-JUL-97		6010
L971526-16	12-JUN-97	EP-70RJ	(L971344-34)	AS	<10	ppm	JJT	11-JUL-97		6010
				CD	<10	ppm	JJT	11-JUL-97		6010
				CR	15	ppm	JJT	11-JUL-97		6010
				CU	19	ppm	JJT	11-JUL-97		6010
				FE	10370	ppm	JJT	11-JUL-97		6010
				PB	14	ppm	JJT	11-JUL-97		6010
				SE	<10	ppm	JJT	11-JUL-97		6010
				ZN	183	ppm	JJT	11-JUL-97		6010
L971526-17	11-JUN-97	EP-71RE	(L971344-47)	AS	<10	ppm	JJT	11-JUL-97		6010
				CD	<10	ppm	JJT	11-JUL-97		6010
				CR	20	ppm	JJT	11-JUL-97		6010
				CU	14	ppm	JJT	11-JUL-97		6010
				FE	11620	ppm	JJT	11-JUL-97		6010
				PB	21	ppm	JJT	11-JUL-97		6010
				SE	<10	ppm	JJT	11-JUL-97		6010
				ZN	115	ppm	JJT	11-JUL-97		6010
L971526-18	02-JUN-97	EP-74H	(L971239-58)	AS	<10	ppm	JJT	11-JUL-97		6010
				CD	<10	ppm	JJT	11-JUL-97		6010
				CR	18	ppm	JJT	11-JUL-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971526

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971526-18	02-JUN-97	EP-74H	(L971239-58)	CU	13	ppm	JJT	11-JUL-97		6010
				FE	13530	ppm	JJT	11-JUL-97		6010
				PB	11	ppm	JJT	11-JUL-97		6010
				SE	<10	ppm	JJT	11-JUL-97		6010
				ZN	36	ppm	JJT	11-JUL-97		6010
L971526-19	02-JUN-97	EP-74I	(L971239-59)	AS	<10	ppm	JJT	11-JUL-97		6010
				CD	<10	ppm	JJT	11-JUL-97		6010
				CR	35	ppm	JJT	11-JUL-97		6010
				CU	14	ppm	JJT	11-JUL-97		6010
				FE	15470	ppm	JJT	11-JUL-97		6010
				PB	11	ppm	JJT	11-JUL-97		6010
				SE	<10	ppm	JJT	11-JUL-97		6010
				ZN	40	ppm	JJT	11-JUL-97		6010
L971526-20	02-JUN-97	EP-74K	(L971239-61)	AS	16	ppm	JJT	11-JUL-97		6010
				CD	<10	ppm	JJT	11-JUL-97		6010
				CR	37	ppm	JJT	11-JUL-97		6010
				CU	13	ppm	JJT	11-JUL-97		6010
				FE	20190	ppm	JJT	11-JUL-97		6010
				PB	15	ppm	JJT	11-JUL-97		6010
				SE	<10	ppm	JJT	11-JUL-97		6010
				ZN	38	ppm	JJT	11-JUL-97		6010

Approved

Reviewer

ASARCO TECHNI[illegible] ERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971038

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971038-1		Matrix Spike	AS	78	% RECOVERY	JJT	11-JUL-97		6010
			CD	88	% RECOVERY	JJT	11-JUL-97		6010
			CR	108	% RECOVERY	JJT	11-JUL-97		6010
			CU	88	% RECOVERY	JJT	11-JUL-97		6010
			FE	SR>4xSA	% RECOVERY	JJT	11-JUL-97		6010
			PB	85	% RECOVERY	JJT	11-JUL-97		6010
			SE	85	% RECOVERY	JJT	11-JUL-97		6010
			ZN	83	% RECOVERY	JJT	11-JUL-97		6010
WG971038-2		Prep Blank	AS	<10	ppm	JJT	11-JUL-97		6010
			CD	<10	ppm	JJT	11-JUL-97		6010
			CR	<10	ppm	JJT	11-JUL-97		6010
			CU	<10	ppm	JJT	11-JUL-97		6010
			FE	<10	ppm	JJT	11-JUL-97		6010
			PB	<10	ppm	JJT	11-JUL-97		6010
			SE	<10	ppm	JJT	11-JUL-97		6010
			ZN	<10	ppm	JJT	11-JUL-97		6010
WG971038-3		Laboratory Control	AS	79	% RECOVERY	JJT	11-JUL-97		6010
			CD	88	% RECOVERY	JJT	11-JUL-97		6010
			CR	89	% RECOVERY	JJT	11-JUL-97		6010
			CU	86	% RECOVERY	JJT	11-JUL-97		6010
			FE	116	% RECOVERY	JJT	11-JUL-97		6010
			PB	84	% RECOVERY	JJT	11-JUL-97		6010
			SE	88	% RECOVERY	JJT	11-JUL-97		6010
			ZN	83	% RECOVERY	JJT	11-JUL-97		6010
WG971038-4		Duplicate	AS	3	% RPD	JJT	11-JUL-97		6010
			CD	2	% RPD	JJT	11-JUL-97		6010
			CR	12	% RPD	JJT	11-JUL-97		6010
			CU	2	% RPD	JJT	11-JUL-97		6010
			FE	5	% RPD	JJT	11-JUL-97		6010
			PB	3	% RPD	JJT	11-JUL-97		6010
			SE	14	% RPD	JJT	11-JUL-97		6010
			ZN	6	% RPD	JJT	11-JUL-97		6010
WG971038-5		Detection Limit	AS	<10	ppm				6010
			CD	<10	ppm				6010
			CR	<10	ppm				6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971038

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971038-5		Detection Limit	CU	<10	ppm				6010
			FE	<10	ppm				6010
			PB	<10	ppm				6010
			SE	<10	ppm				6010
			ZN	<10	ppm				6010
WG971038-6		Matrix Spike	AS	100	% RECOVERY	KPB	14-JUL-97		6020
			CD	109	% RECOVERY	KPB	14-JUL-97		6020
			SE	92	% RECOVERY	KPB	14-JUL-97		6020
WG971038-7		Prep Blank	AS	<10	ppm	KPB	14-JUL-97		6020
			CD	<10	ppm	KPB	14-JUL-97		6020
			SE	<10	ppm	KPB	14-JUL-97		6020
WG971038-8		Laboratory Control Samples	AS	100	% RECOVERY	KPB	14-JUL-97		6020
			CD	99	% RECOVERY	KPB	14-JUL-97		6020
			SE	96	% RECOVERY	KPB	14-JUL-97		6020
WG971038-9		Duplicate	AS	3	% RPD	KPB	14-JUL-97		6020
			CD	4	% RPD	KPB	14-JUL-97		6020
			SE	3	% RPD	KPB	14-JUL-97		6020

Approved

Reviewer

ASARCO

July 25, 1997

Mr. Lairy Johnson
Hydrometrics
EL PASO

Please find attached the following analytical results:

1). pH results for our laboratory sample numbers L971325-1 through L971325-39 inclusive, L971344-1 through L971344-47 inclusive, L971402-1 through L971402-40 inclusive. These pH results are for El Paso soil samples that were previously reported with metals results only. The samples were collected June 03, 1997 through June 18, 1997.

2). XRF metals and pH results for thirty eight soil samples collected June 19, through July 01, 1997. These samples were received by the laboratory on July 03, 1997.

3). XRF metals and pH results for twenty nine soil samples collected July 07, through July 08, 1997. These samples were received by the laboratory on July 14, 1997.

Associated quality control data is also attached.

RECEIVED
AUG 0 1 1997
HYDROMETRICS, INC.

Sincerely,

Vince Keller
Environmental Laboratory
Coordinator

VK/mo
Attach.

cc: JVanek (w/attach.)
GRStanga "

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971325

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971325-1	03-JUN-97	EP-75E	AS	91	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	130	PPM	LCS	27-JUN-97		EDXRF
			CU	450	PPM	LCS	27-JUN-97		EDXRF
			FE	3.1	%	LCS	27-JUN-97		EDXRF
			PB	760	PPM	LCS	27-JUN-97		EDXRF
			PH	8.6	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	7300	PPM	LCS	27-JUN-97		EDXRF
L971325-2	03-JUN-97	EP-75F	AS	73	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	40	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	2.3	%	LCS	27-JUN-97		EDXRF
			PB	17	PPM	LCS	27-JUN-97		EDXRF
			PH	8.9	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	50	PPM	LCS	27-JUN-97		EDXRF
L971325-3	03-JUN-97	EP-75G	AS	36	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	22	PPM	LCS	27-JUN-97		EDXRF
			FE	2.1	%	LCS	27-JUN-97		EDXRF
			PB	12	PPM	LCS	27-JUN-97		EDXRF
			PH	8.8	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	100	PPM	LCS	27-JUN-97		EDXRF
L971325-4	03-JUN-97	EP-76A	AS	1800	PPM	LCS	27-JUN-97		EDXRF
			CD	420	PPM	LCS	27-JUN-97		EDXRF
			CR	200	PPM	LCS	27-JUN-97		EDXRF
			CU	12000	PPM	LCS	27-JUN-97		EDXRF
			FE	12	%	LCS	27-JUN-97		EDXRF
			PB	9500	PPM	LCS	27-JUN-97		EDXRF
			PH	7.8	pH	DK	15-JUL-97		9045
			SE	82	PPM	LCS	27-JUN-97		EDXRF
			ZN	12000	PPM	LCS	27-JUN-97		EDXRF

ASARCO TECH SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971325

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971325-5	03-JUN-97	EP-76B	AS	420	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	310	PPM	LCS	27-JUN-97		EDXRF
			CU	4800	PPM	LCS	27-JUN-97		EDXRF
			FE	15	%	LCS	27-JUN-97		EDXRF
			PB	3400	PPM	DK	15-JUL-97		9045
			PH	10.2	pH	LCS	27-JUN-97		EDXRF
			SE	80	PPM	LCS	27-JUN-97		EDXRF
			ZN	11	%				
L971325-6	03-JUN-97	EP-76C	AS	78	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	82	PPM	LCS	27-JUN-97		EDXRF
			CU	35	PPM	LCS	27-JUN-97		EDXRF
			FE	2.0	%	LCS	27-JUN-97		EDXRF
			PB	28	PPM	DK	15-JUL-97		9045
			PH	8.9	pH	LCS	27-JUN-97		EDXRF
			SE	14	PPM	LCS	27-JUN-97		EDXRF
			ZN	190	PPM				
L971325-7	03-JUN-97	EP-76D	AS	29	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	52	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	1.8	%	LCS	27-JUN-97		EDXRF
			PB	20	PPM	DK	15-JUL-97		9045
			PH	9.7	pH	LCS	27-JUN-97		EDXRF
			SE	13	PPM	LCS	27-JUN-97		EDXRF
			ZN	80	PPM				
L971325-8	03-JUN-97	EP-76E	AS	110	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	500	PPM	LCS	27-JUN-97		EDXRF
			FE	2.9	%	LCS	27-JUN-97		EDXRF
			PB	650	PPM	DK	15-JUL-97		9045
			PH	9.4	pH	LCS	27-JUN-97		EDXRF
			SE	20	PPM	LCS	27-JUN-97		EDXRF
			ZN	6600	PPM				

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971325

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971325-9	03-JUN-97	EP-76F	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	140	PPM	LCS	27-JUN-97		EDXRF
			CU	25	PPM	LCS	27-JUN-97		EDXRF
			FE	1.9	%	LCS	27-JUN-97		EDXRF
			PB	37	PPM	LCS	27-JUN-97		EDXRF
			PH	9.3	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	260	PPM	LCS	27-JUN-97		EDXRF
L971325-10	04-JUN-97	EP-77A	AS	200	PPM	LCS	27-JUN-97		EDXRF
			CD	11	PPM	LCS	27-JUN-97		EDXRF
			CR	210	PPM	LCS	27-JUN-97		EDXRF
			CU	2500	PPM	LCS	27-JUN-97		EDXRF
			FE	10	%	LCS	27-JUN-97		EDXRF
			PB	2600	PPM	LCS	27-JUN-97		EDXRF
			PH	7.9	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	1100	PPM	LCS	27-JUN-97		EDXRF
L971325-11	04-JUN-97	EP-77B	AS	140	PPM	LCS	27-JUN-97		EDXRF
			CD	43	PPM	LCS	27-JUN-97		EDXRF
			CR	84	PPM	LCS	27-JUN-97		EDXRF
			CU	350	PPM	LCS	27-JUN-97		EDXRF
			FE	3.9	%	LCS	27-JUN-97		EDXRF
			PB	950	PPM	LCS	27-JUN-97		EDXRF
			PH	8.0	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	850	PPM	LCS	27-JUN-97		EDXRF
L971325-12	04-JUN-97	EP-77C	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	94	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	2.0	%	LCS	27-JUN-97		EDXRF
			PB	90	PPM	LCS	27-JUN-97		EDXRF
			PH	8.8	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	100	PPM	LCS	27-JUN-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971325-13	04-JUN-97	EP-77D	AS	33	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	1.8	%	LCS	27-JUN-97		EDXRF
			PB	36	PPM	LCS	27-JUN-97		EDXRF
			PH	8.7	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	57	PPM	LCS	27-JUN-97		EDXRF
L971325-14	04-JUN-97	EP-77E	AS	28	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	23	PPM	LCS	27-JUN-97		EDXRF
			FE	1.7	%	LCS	27-JUN-97		EDXRF
			PB	37	PPM	LCS	27-JUN-97		EDXRF
			PH	8.8	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	57	PPM	LCS	27-JUN-97		EDXRF
L971325-15	04-JUN-97	EP-77F	AS	73	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	78	PPM	LCS	27-JUN-97		EDXRF
			CU	32	PPM	LCS	27-JUN-97		EDXRF
			FE	2.7	%	LCS	27-JUN-97		EDXRF
			PB	22	PPM	LCS	27-JUN-97		EDXRF
			PH	9.3	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	55	PPM	LCS	27-JUN-97		EDXRF
L971325-16	04-JUN-97	EP-77G	AS	49	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	2.6	%	LCS	27-JUN-97		EDXRF
			PB	25	PPM	LCS	27-JUN-97		EDXRF
			PH	9.3	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	52	PPM	LCS	27-JUN-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971325-17	04-JUN-97	EP-77H	AS	20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	2.9	%	LCS	27-JUN-97		EDXRF
			PB	20	PPM	LCS	27-JUN-97		EDXRF
			PH	8.8	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	42	PPM	LCS	27-JUN-97		EDXRF
L971325-18	04-JUN-97	EP-78A	AS	990	PPM	LCS	27-JUN-97		EDXRF
			CD	46	PPM	LCS	27-JUN-97		EDXRF
			CR	47	PPM	LCS	27-JUN-97		EDXRF
			CU	700	PPM	LCS	27-JUN-97		EDXRF
			FE	3.2	%	LCS	27-JUN-97		EDXRF
			PB	530	PPM	LCS	27-JUN-97		EDXRF
			PH	8.2	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	2300	PPM	LCS	27-JUN-97		EDXRF
L971325-19	04-JUN-97	EP-78B	AS	87	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	78	PPM	LCS	27-JUN-97		EDXRF
			CU	64	PPM	LCS	27-JUN-97		EDXRF
			FE	1.1	%	LCS	27-JUN-97		EDXRF
			PB	33	PPM	LCS	27-JUN-97		EDXRF
			PH	8.8	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	170	PPM	LCS	27-JUN-97		EDXRF
L971325-20	04-JUN-97	EP-78C	AS	82	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	51	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	2.6	%	LCS	27-JUN-97		EDXRF
			PB	34	PPM	LCS	27-JUN-97		EDXRF
			PH	9.4	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	120	PPM	LCS	27-JUN-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971325-21	04-JUN-97	EP-78D	AS	50	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	86	PPM	LCS	27-JUN-97		EDXRF
			CU	62	PPM	LCS	27-JUN-97		EDXRF
			FE	1.5	%	LCS	27-JUN-97		EDXRF
			PB	46	PPM	LCS	27-JUN-97		EDXRF
			PH	9.6	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	240	PPM	LCS	27-JUN-97		EDXRF
L971325-22	05-JUN-97	EP-79A	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	45	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	2.4	%	LCS	27-JUN-97		EDXRF
			PB	17	PPM	LCS	27-JUN-97		EDXRF
			PH	9.0	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	67	PPM	LCS	27-JUN-97		EDXRF
L971325-23	05-JUN-97	EP-79B	AS	32	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	60	PPM	LCS	27-JUN-97		EDXRF
			CU	86	PPM	LCS	27-JUN-97		EDXRF
			FE	2.8	%	LCS	27-JUN-97		EDXRF
			PB	30	PPM	LCS	27-JUN-97		EDXRF
			PH	9.0	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	180	PPM	LCS	27-JUN-97		EDXRF
L971325-24	05-JUN-97	EP-79C	AS	28	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	57	PPM	LCS	27-JUN-97		EDXRF
			CU	120	PPM	LCS	27-JUN-97		EDXRF
			FE	3.4	%	LCS	27-JUN-97		EDXRF
			PB	110	PPM	LCS	27-JUN-97		EDXRF
			PH	9.2	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	440	PPM	LCS	27-JUN-97		EDXRF

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L971325-25	05-JUN-97	EP-79D	AS	210	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	95	PPM	LCS	27-JUN-97		EDXRF
			CU	300	PPM	LCS	27-JUN-97		EDXRF
			FE	4.7	%	LCS	27-JUN-97		EDXRF
			PB	240	PPM	LCS	27-JUN-97		EDXRF
			PH	IS	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	1400	PPM	LCS	27-JUN-97		EDXRF
L971325-26	05-JUN-97	EP-79E	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	59	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	1.6	%	LCS	27-JUN-97		EDXRF
			PB	<10	PPM	LCS	27-JUN-97		EDXRF
			PH	9.3	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	34	PPM	LCS	27-JUN-97		EDXRF
L971325-27	05-JUN-97	EP-79F	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	83	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	0.9	%	LCS	27-JUN-97		EDXRF
			PB	12	PPM	LCS	27-JUN-97		EDXRF
			PH	9.4	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	20	PPM	LCS	27-JUN-97		EDXRF
L971325-28	05-JUN-97	EP-79G	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	0.5	%	LCS	27-JUN-97		EDXRF
			PB	10	PPM	LCS	27-JUN-97		EDXRF
			PH	9.3	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	20	PPM	LCS	27-JUN-97		EDXRF

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L971325-29	06-JUN-97	EP-80A	AS	26	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	41	PPM	LCS	27-JUN-97		EDXRF
			CU	160	PPM	LCS	27-JUN-97		EDXRF
			FE	1.4	%	LCS	27-JUN-97		EDXRF
			PB	95	PPM	LCS	27-JUN-97		EDXRF
			PH	8.4	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	200	PPM	LCS	27-JUN-97		EDXRF
L971325-30	06-JUN-97	EP-80B	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	34	PPM	LCS	27-JUN-97		EDXRF
			FE	1.6	%	LCS	27-JUN-97		EDXRF
			PB	46	PPM	LCS	27-JUN-97		EDXRF
			PH	8.5	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	79	PPM	LCS	27-JUN-97		EDXRF
L971325-31	06-JUN-97	EP-80C	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	1.8	%	LCS	27-JUN-97		EDXRF
			PB	32	PPM	LCS	27-JUN-97		EDXRF
			PH	9.0	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	29	PPM	LCS	27-JUN-97		EDXRF
L971325-32	06-JUN-97	EP-80D	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	49	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	1.8	%	LCS	27-JUN-97		EDXRF
			PB	10	PPM	LCS	27-JUN-97		EDXRF
			PH	9.0	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	31	PPM	LCS	27-JUN-97		EDXRF

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L971325-33	06-JUN-97	EP-80E	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	79	PPM	LCS	27-JUN-97		EDXRF
			CU	34	PPM	LCS	27-JUN-97		EDXRF
			FE	1.3	%	LCS	27-JUN-97		EDXRF
			PB	23	PPM	LCS	27-JUN-97		EDXRF
			PH	9.1	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	36	PPM	LCS	27-JUN-97		EDXRF
L971325-34	06-JUN-97	EP-80F	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	1.4	%	LCS	27-JUN-97		EDXRF
			PB	15	PPM	LCS	27-JUN-97		EDXRF
			PH	9.0	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	30	PPM	LCS	27-JUN-97		EDXRF
L971325-35	06-JUN-97	EP-81A	AS	150	PPM	LCS	27-JUN-97		EDXRF
			CD	15	PPM	LCS	27-JUN-97		EDXRF
			CR	80	PPM	LCS	27-JUN-97		EDXRF
			CU	1100	PPM	LCS	27-JUN-97		EDXRF
			FE	4.0	%	LCS	27-JUN-97		EDXRF
			PB	790	PPM	LCS	27-JUN-97		EDXRF
			PH	8.3	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	2600	PPM	LCS	27-JUN-97		EDXRF
L971325-36	06-JUN-97	EP-81B	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	38	PPM	LCS	27-JUN-97		EDXRF
			CU	190	PPM	LCS	27-JUN-97		EDXRF
			FE	2.2	%	LCS	27-JUN-97		EDXRF
			PB	140	PPM	LCS	27-JUN-97		EDXRF
			PH	8.5	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	360	PPM	LCS	27-JUN-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971325-37	06-JUN-97	EP-81C	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	1.8	%	LCS	27-JUN-97		EDXRF
			PB	14	PPM	LCS	27-JUN-97		EDXRF
			PH	9.0	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	46	PPM	LCS	27-JUN-97		EDXRF
L971325-38	06-JUN-97	EP-81D	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	1.7	%	LCS	27-JUN-97		EDXRF
			PB	12	PPM	LCS	27-JUN-97		EDXRF
			PH	8.7	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	34	PPM	LCS	27-JUN-97		EDXRF
L971325-39	06-JUN-97	EP-81E	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	1.8	%	LCS	27-JUN-97		EDXRF
			PB	11	PPM	LCS	27-JUN-97		EDXRF
			PH	8.6	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	29	PPM	LCS	27-JUN-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD

IS=INSUFFICIENT SAMPLE

Approved

Reviewer

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Batch No: L971344

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-1	11-JUN-97	EP-71RA	AS	1300	PPM	LCS	01-JUL-97		EDXRF
			CD	120	PPM	LCS	01-JUL-97		EDXRF
			CR	91	PPM	LCS	01-JUL-97		EDXRF
			CU	31000	PPM	LCS	01-JUL-97		EDXRF
			FE	4.5	%	LCS	01-JUL-97		EDXRF
			PB	7200	PPM	LCS	01-JUL-97		EDXRF
			PH	6.7	pH	DK	16-JUL-97		9045
			SE	33	PPM	LCS	01-JUL-97		EDXRF
			ZN	3900	PPM	LCS	01-JUL-97		EDXRF
L971344-2	11-JUN-97	EP-71RB	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	51	PPM	LCS	01-JUL-97		EDXRF
			CU	340	PPM	LCS	01-JUL-97		EDXRF
			FE	1.4	%	LCS	01-JUL-97		EDXRF
			PB	90	PPM	LCS	01-JUL-97		EDXRF
			PH	10.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	56	PPM	LCS	01-JUL-97		EDXRF
L971344-3	11-JUN-97	EP-71RC	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	38	PPM	LCS	01-JUL-97		EDXRF
			CU	170	PPM	LCS	01-JUL-97		EDXRF
			FE	1.1	%	LCS	01-JUL-97		EDXRF
			PB	54	PPM	LCS	01-JUL-97		EDXRF
			PH	9.7	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	12	PPM	LCS	01-JUL-97		EDXRF
L971344-4	11-JUN-97	EP-83A	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	55	PPM	LCS	01-JUL-97		EDXRF
			CU	70	PPM	LCS	01-JUL-97		EDXRF
			FE	2.0	%	LCS	01-JUL-97		EDXRF
			PB	20	PPM	LCS	01-JUL-97		EDXRF
			PH	9.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	100	PPM	LCS	01-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971344

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-5	11-JUN-97	EP-83B	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	70	PPM	LCS	01-JUL-97		EDXRF
			CU	54	PPM	LCS	01-JUL-97		EDXRF
			FE	2.8	%	LCS	01-JUL-97		EDXRF
			PB	18	PPM	LCS	01-JUL-97		EDXRF
			PH	9.9	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	110	PPM	LCS	01-JUL-97		EDXRF
L971344-6	11-JUN-97	EP-83C	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	99	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.9	%	LCS	01-JUL-97		EDXRF
			PB	21	PPM	LCS	01-JUL-97		EDXRF
			PH	9.8	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	75	PPM	LCS	01-JUL-97		EDXRF
L971344-7	11-JUN-97	EP-83D	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	70	PPM	LCS	01-JUL-97		EDXRF
			CU	23	PPM	LCS	01-JUL-97		EDXRF
			FE	1.2	%	LCS	01-JUL-97		EDXRF
			PB	20	PPM	LCS	01-JUL-97		EDXRF
			PH	9.9	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	33	PPM	LCS	01-JUL-97		EDXRF
L971344-8	11-JUN-97	EP-83E	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	90	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	0.8	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.5	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	18	PPM	LCS	01-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-9	11-JUN-97	EP-83F	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	0.6	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.5	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	21	PPM	LCS	01-JUL-97		EDXRF
L971344-10	11-JUN-97	EP-83F2	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	48	PPM	LCS	01-JUL-97		EDXRF
			CU	21	PPM	LCS	01-JUL-97		EDXRF
			FE	0.6	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	49	PPM	LCS	01-JUL-97		EDXRF
L971344-11	11-JUN-97	EP-83G	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.2	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.5	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	32	PPM	LCS	01-JUL-97		EDXRF
L971344-12	11-JUN-97	EP-83H	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	2.7	%	LCS	01-JUL-97		EDXRF
			PB	27	PPM	LCS	01-JUL-97		EDXRF
			PH	8.5	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	110	PPM	LCS	01-JUL-97		EDXRF

Q C FOR ELPASO SOILS L971545

CCV 30651-58

	PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
GIVEN		12	420		18	8062		27400
FOUND	420	27	324	985	15	7477	13	28599
	445	26	355	1034	15	7605	11	28335
	478	18	381	1035	15	7412	42	28206
	446	13	414	914	15	7528	11	28505

LCS BRS2704

GIVEN	23.4	3.45	135	98.6	4.4	161		438
FOUND	<20	<10	73	129	4.4	190	<10	494

LCS SO-1

GIVEN			160	61	6	21		146
FOUND	<20	<10	140	89	6.2	21	<10	161

DUPLICATES

L971545-20	<20	<10	59	<20	1.7	19	<10	25
DUP545-20	<20	<10	<30	<20	1.6	11	<10	42
%DIFF					6	53		51

L971545-38	<20	<10	72	<20	1.7	21	<10	25
DUP545-38	<20	<10	52	<20	1.6	10	<10	25
%DIFF			32		6			0

CCV 30651-58

	As	Cd	Cr	CU	Fe	Pb	Se	Zn
Given		12PPM	420PPM		18%	8062PPM		27400PPM
% Recov.		225	77		83	93		104
		75	85		83	94		103
		150	91		83	92		103
		108	99		83	93		104

LCS BRS2704

GIVEN	23.4PPM	3.45PPM	135PPM	98.6PPM	4.40%	161PPM		438PPM
% RECOV			54	130	100	118		113

LCS SO-1

GIVEN			160PPM	61PPM	6%	21PPM		146PPM
% RECOV			88	146	103	100		110

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971637

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971637-1	07-JUL-97	SS1A5-1A	AS	240	PPM	LV	23-JUL-97		EDXRF
			CD	130	PPM	LV	23-JUL-97		EDXRF
			CR	46	PPM	LV	23-JUL-97		EDXRF
			CU	6600	PPM	LV	23-JUL-97		EDXRF
			FE	2.1	%	LV	23-JUL-97		EDXRF
			PB	4200	PPM	LV	23-JUL-97		EDXRF
			PH	8.2	pH	DK	17-JUL-97		9045
			SE	30	PPM	LV	23-JUL-97		EDXRF
			ZN	2400	PPM	LV	23-JUL-97		EDXRF
L971637-2	08-JUL-97	SS1A5-1B	AS	28	PPM	LV	23-JUL-97		EDXRF
			CD	17	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	400	PPM	LV	23-JUL-97		EDXRF
			FE	1.9	%	LV	23-JUL-97		EDXRF
			PB	420	PPM	LV	23-JUL-97		EDXRF
			PH	8.4	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	200	PPM	LV	23-JUL-97		EDXRF
L971637-3	08-JUL-97	SS1A5-2A	AS	71	PPM	LV	23-JUL-97		EDXRF
			CD	66	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	1100	PPM	LV	23-JUL-97		EDXRF
			FE	2.0	%	LV	23-JUL-97		EDXRF
			PB	580	PPM	LV	23-JUL-97		EDXRF
			PH	8.0	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	410	PPM	LV	23-JUL-97		EDXRF
L971637-4	08-JUL-97	SS1A5-2B	AS	22	PPM	LV	23-JUL-97		EDXRF
			CD	<10	PPM	LV	23-JUL-97		EDXRF
			CR	82	PPM	LV	23-JUL-97		EDXRF
			CU	42	PPM	LV	23-JUL-97		EDXRF
			FE	1.9	%	LV	23-JUL-97		EDXRF
			PB	44	PPM	LV	23-JUL-97		EDXRF
			PH	9.0	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	28	PPM	LV	23-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971637

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971637-5	08-JUL-97	SS1A5-3A	AS	130	PPM	LV	23-JUL-97		EDXRF
			CD	110	PPM	LV	23-JUL-97		EDXRF
			CR	170	PPM	LV	23-JUL-97		EDXRF
			CU	7200	PPM	LV	23-JUL-97		EDXRF
			FE	2.5	%	LV	23-JUL-97		EDXRF
			PB	2700	PPM	LV	23-JUL-97		EDXRF
			PH	7.6	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	2000	PPM	LV	23-JUL-97		EDXRF
L971637-6	08-JUL-97	SS1A5-3B	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	16	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	1200	PPM	LV	23-JUL-97		EDXRF
			FE	1.9	%	LV	23-JUL-97		EDXRF
			PB	850	PPM	LV	23-JUL-97		EDXRF
			PH	8.1	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	590	PPM	LV	23-JUL-97		EDXRF
L971637-7	08-JUL-97	SS1A5-4A	AS	37	PPM	LV	23-JUL-97		EDXRF
			CD	41	PPM	LV	23-JUL-97		EDXRF
			CR	30	PPM	LV	23-JUL-97		EDXRF
			CU	1800	PPM	LV	23-JUL-97		EDXRF
			FE	2.1	%	LV	23-JUL-97		EDXRF
			PB	1100	PPM	LV	23-JUL-97		EDXRF
			PH	7.7	pH	DK	17-JUL-97		9045
			SE	11	PPM	LV	23-JUL-97		EDXRF
			ZN	770	PPM	LV	23-JUL-97		EDXRF
L971637-8	08-JUL-97	SS1A5-4B	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	44	PPM	LV	23-JUL-97		EDXRF
			CR	37	PPM	LV	23-JUL-97		EDXRF
			CU	1600	PPM	LV	23-JUL-97		EDXRF
			FE	2.3	%	LV	23-JUL-97		EDXRF
			PB	1800	PPM	LV	23-JUL-97		EDXRF
			PH	7.7	pH	DK	17-JUL-97		9045
			SE	12	PPM	LV	23-JUL-97		EDXRF
			ZN	1100	PPM	LV	23-JUL-97		EDXRF

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Batch No: L971637

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971637-9	08-JUL-97	SS1A5-5A	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	36	PPM	LV	23-JUL-97		EDXRF
			CR	30	PPM	LV	23-JUL-97		EDXRF
			CU	1100	PPM	LV	23-JUL-97		EDXRF
			FE	2.0	%	LV	23-JUL-97		EDXRF
			PB	1200	PPM	LV	23-JUL-97		EDXRF
			PH	8.0	pH	DK	17-JUL-97		9045
			SE	20	PPM	LV	23-JUL-97		EDXRF
			ZN	740	PPM	LV	23-JUL-97		EDXRF
L971637-10	08-JUL-97	SS1A5-5B	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	<10	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	130	PPM	LV	23-JUL-97		EDXRF
			FE	2.1	%	LV	23-JUL-97		EDXRF
			PB	210	PPM	LV	23-JUL-97		EDXRF
			PH	8.4	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	130	PPM	LV	23-JUL-97		EDXRF
L971637-11	08-JUL-97	SS1A5-6A	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	14	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	650	PPM	LV	23-JUL-97		EDXRF
			FE	2.0	%	LV	23-JUL-97		EDXRF
			PB	370	PPM	LV	23-JUL-97		EDXRF
			PH	8.2	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	280	PPM	LV	23-JUL-97		EDXRF
L971637-12	08-JUL-97	SS1A5-6B	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	10	PPM	LV	23-JUL-97		EDXRF
			CR	97	PPM	LV	23-JUL-97		EDXRF
			CU	310	PPM	LV	23-JUL-97		EDXRF
			FE	2.1	%	LV	23-JUL-97		EDXRF
			PB	370	PPM	LV	23-JUL-97		EDXRF
			PH	8.2	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	210	PPM	LV	23-JUL-97		EDXRF

Q C FOR ELPASO SOILS L971637

CCV 30651-58

	PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
GIVEN		12	420		18	8062		27400
FOUND	501	21	381	977	15	7372	25	28021
	529	16	391	1053	15	7442	11	28303
	507	14	394	1003	15	7572	<10	28547

LCS BRS2704

GIVEN	23.4	3.45	135	98.6	4.4	161		438
FOUND	<20	<10	146	153	4.3	200	<10	498

LCS SO-1

GIVEN			160	61	6	21		146
FOUND	<20	<10	154	95	6.2	15	<10	140

DUPLICATES

L971637-20	134	109	34	3947	1.9	2753	12	2476
DUP637-20	146	121	<30	3956	1.9	2800	14	2497
%DIFF	9	10		0	0	2	15	1
L971637-29	<20	<10	<30	115	1.9	127	<10	54
DUP637-29	<20	<10	<30	130	1.9	119	<10	58
%DIFF				12	0	7		7

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971637-13	08-JUL-97	SS1A5-7A	AS	110	PPM	LV	23-JUL-97		EDXRF
			CD	56	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	3800	PPM	LV	23-JUL-97		EDXRF
			FE	2.4	%	LV	23-JUL-97		EDXRF
			PB	1700	PPM	LV	23-JUL-97		EDXRF
			PH	7.9	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	1300	PPM	LV	23-JUL-97		EDXRF
L971637-14	08-JUL-97	SS1A5-7B (SAMPLE I)	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	<10	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	59	PPM	LV	23-JUL-97		EDXRF
			FE	1.7	%	LV	23-JUL-97		EDXRF
			PB	68	PPM	LV	23-JUL-97		EDXRF
			PH	8.8	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	52	PPM	LV	23-JUL-97		EDXRF
L971637-15	08-JUL-97	SS1A5-7B (SAMPLE II)	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	<10	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	24	PPM	LV	23-JUL-97		EDXRF
			FE	2.0	%	LV	23-JUL-97		EDXRF
			PB	<10	PPM	LV	23-JUL-97		EDXRF
			PH	IS	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	52	PPM	LV	23-JUL-97		EDXRF
L971637-16	08-JUL-97	SS1A5-8A	AS	31	PPM	LV	23-JUL-97		EDXRF
			CD	42	PPM	LV	23-JUL-97		EDXRF
			CR	47	PPM	LV	23-JUL-97		EDXRF
			CU	2800	PPM	LV	23-JUL-97		EDXRF
			FE	2.1	%	LV	23-JUL-97		EDXRF
			PB	1200	PPM	LV	23-JUL-97		EDXRF
			PH	7.7	pH	DK	17-JUL-97		9045
			SE	16	PPM	LV	23-JUL-97		EDXRF
			ZN	990	PPM	LV	23-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971637-17	08-JUL-97	SS1A5-8B	AS	32	PPM	LV	23-JUL-97		EDXRF
			CD	<10	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	<20	PPM	LV	23-JUL-97		EDXRF
			FE	1.6	%	LV	23-JUL-97		EDXRF
			PB	30	PPM	LV	23-JUL-97		EDXRF
			PH	8.9	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	28	PPM	LV	23-JUL-97		EDXRF
L971637-18	08-JUL-97	SS1A5-9A	AS	90	PPM	LV	23-JUL-97		EDXRF
			CD	39	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	2800	PPM	LV	23-JUL-97		EDXRF
			FE	2.3	%	LV	23-JUL-97		EDXRF
			PB	800	PPM	LV	23-JUL-97		EDXRF
			PH	7.4	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	850	PPM	LV	23-JUL-97		EDXRF
L971637-19	08-JUL-97	SS1A5-9B	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	<10	PPM	LV	23-JUL-97		EDXRF
			CR	68	PPM	LV	23-JUL-97		EDXRF
			CU	260	PPM	LV	23-JUL-97		EDXRF
			FE	1.7	%	LV	23-JUL-97		EDXRF
			PB	110	PPM	LV	23-JUL-97		EDXRF
			PH	8.1	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	83	PPM	LV	23-JUL-97		EDXRF
L971637-20	08-JUL-97	SS1A5-10A	AS	130	PPM	LV	23-JUL-97		EDXRF
			CD	110	PPM	LV	23-JUL-97		EDXRF
			CR	34	PPM	LV	23-JUL-97		EDXRF
			CU	3900	PPM	LV	23-JUL-97		EDXRF
			FE	1.9	%	LV	23-JUL-97		EDXRF
			PB	2800	PPM	LV	23-JUL-97		EDXRF
			PH	7.7	pH	DK	17-JUL-97		9045
			SE	12	PPM	LV	23-JUL-97		EDXRF
			ZN	2500	PPM	LV	23-JUL-97		EDXRF

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L971637-21	08-JUL-97	SS1A5-10B	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	<10	PPM	LV	23-JUL-97		EDXRF
			CR	30	PPM	LV	23-JUL-97		EDXRF
			CU	320	PPM	LV	23-JUL-97		EDXRF
			FE	1.7	%	LV	23-JUL-97		EDXRF
			PB	250	PPM	LV	23-JUL-97		EDXRF
			PH	8.4	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	200	PPM	LV	23-JUL-97		EDXRF
L971637-22	08-JUL-97	SS1A5-11A	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	22	PPM	LV	23-JUL-97		EDXRF
			CR	36	PPM	LV	23-JUL-97		EDXRF
			CU	1100	PPM	LV	23-JUL-97		EDXRF
			FE	2.1	%	LV	23-JUL-97		EDXRF
			PB	740	PPM	LV	23-JUL-97		EDXRF
			PH	8.0	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	630	PPM	LV	23-JUL-97		EDXRF
L971637-23	08-JUL-97	SS1A5-11B	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	23	PPM	LV	23-JUL-97		EDXRF
			CR	66	PPM	LV	23-JUL-97		EDXRF
			CU	570	PPM	LV	23-JUL-97		EDXRF
			FE	1.9	%	LV	23-JUL-97		EDXRF
			PB	470	PPM	LV	23-JUL-97		EDXRF
			PH	8.1	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	360	PPM	LV	23-JUL-97		EDXRF
L971637-24	08-JUL-97	SS1A5-12A	AS	21	PPM	LV	23-JUL-97		EDXRF
			CD	19	PPM	LV	23-JUL-97		EDXRF
			CR	41	PPM	LV	23-JUL-97		EDXRF
			CU	810	PPM	LV	23-JUL-97		EDXRF
			FE	2.1	%	LV	23-JUL-97		EDXRF
			PB	540	PPM	LV	23-JUL-97		EDXRF
			PH	7.8	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	440	PPM	LV	23-JUL-97		EDXRF

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L971637-25	08-JUL-97	SS1A5-12B	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	11	PPM	LV	23-JUL-97		EDXRF
			CR	100	PPM	LV	23-JUL-97		EDXRF
			CU	430	PPM	LV	23-JUL-97		EDXRF
			FE	2.0	%	LV	23-JUL-97		EDXRF
			PB	440	PPM	LV	23-JUL-97		EDXRF
			PH	7.8	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	340	PPM	LV	23-JUL-97		EDXRF
L971637-26	08-JUL-97	SS1A5-13A	AS	87	PPM	LV	23-JUL-97		EDXRF
			CD	36	PPM	LV	23-JUL-97		EDXRF
			CR	69	PPM	LV	23-JUL-97		EDXRF
			CU	2200	PPM	LV	23-JUL-97		EDXRF
			FE	1.7	%	LV	23-JUL-97		EDXRF
			PB	830	PPM	LV	23-JUL-97		EDXRF
			PH	7.8	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	850	PPM	LV	23-JUL-97		EDXRF
L971637-27	08-JUL-97	SS1A5-13B	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	<10	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	100	PPM	LV	23-JUL-97		EDXRF
			FE	1.8	%	LV	23-JUL-97		EDXRF
			PB	110	PPM	LV	23-JUL-97		EDXRF
			PH	8.0	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	100	PPM	LV	23-JUL-97		EDXRF
L971637-28	08-JUL-97	SS1A5-14A	AS	78	PPM	LV	23-JUL-97		EDXRF
			CD	<10	PPM	LV	23-JUL-97		EDXRF
			CR	60	PPM	LV	23-JUL-97		EDXRF
			CU	1300	PPM	LV	23-JUL-97		EDXRF
			FE	1.4	%	LV	23-JUL-97		EDXRF
			PB	170	PPM	LV	23-JUL-97		EDXRF
			PH	8.0	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	220	PPM	LV	23-JUL-97		EDXRF

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L971637-29	08-JUL-97	SS1A5-14B	AS	10	PPM	LV	23-JUL-97		EDXRF
			CD	<10	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	120	PPM	LV	23-JUL-97		EDXRF
			FE	1.9	%	LV	23-JUL-97		EDXRF
			PB	130	PPM	LV	23-JUL-97		EDXRF
			PH	8.2	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	54	PPM	LV	23-JUL-97		EDXRF

IS=INSUFFICIENT SAMPLE

Approved

Reviewer

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-17	10-JUN-97	EP-82A	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	70	PPM	LCS	01-JUL-97		EDXRF
			CU	200	PPM	LCS	01-JUL-97		EDXRF
			FE	1.8	%	LCS	01-JUL-97		EDXRF
			PB	60	PPM	LCS	01-JUL-97		EDXRF
			PH	9.1	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	150	PPM	LCS	01-JUL-97		EDXRF
L971344-18	10-JUN-97	EP-82B	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	70	PPM	LCS	01-JUL-97		EDXRF
			CU	34	PPM	LCS	01-JUL-97		EDXRF
			FE	1.9	%	LCS	01-JUL-97		EDXRF
			PB	23	PPM	LCS	01-JUL-97		EDXRF
			PH	IS	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	57	PPM	LCS	01-JUL-97		EDXRF
L971344-19	10-JUN-97	EP-82C	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	38	PPM	LCS	01-JUL-97		EDXRF
			FE	1.2	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.7	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	22	PPM	LCS	01-JUL-97		EDXRF
L971344-20	10-JUN-97	EP-82D	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	100	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	0.8	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	14	PPM	LCS	01-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-21	10-JUN-97	EP-82E	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.1	%	LCS	01-JUL-97		EDXRF
			PB	14	PPM	LCS	01-JUL-97		EDXRF
			PH	9.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	50	PPM	LCS	01-JUL-97		EDXRF
L971344-22	10-JUN-97	EP-82F	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.2	%	LCS	01-JUL-97		EDXRF
			PB	15	PPM	LCS	01-JUL-97		EDXRF
			PH	9.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	24	PPM	LCS	01-JUL-97		EDXRF
L971344-23	10-JUN-97	EP-82G	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	38	PPM	LCS	01-JUL-97		EDXRF
			FE	1.1	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.4	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	15	PPM	LCS	01-JUL-97		EDXRF
L971344-24	12-JUN-97	EP-70RA	AS	36	PPM	LCS	01-JUL-97		EDXRF
			CD	27	PPM	LCS	01-JUL-97		EDXRF
			CR	110	PPM	LCS	01-JUL-97		EDXRF
			CU	230	PPM	LCS	01-JUL-97		EDXRF
			FE	2.0	%	LCS	01-JUL-97		EDXRF
			PB	41	PPM	LCS	01-JUL-97		EDXRF
			PH	7.9	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	470	PPM	LCS	01-JUL-97		EDXRF

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L971344-13	11-JUN-97	EP-84A	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	14	PPM	LCS	01-JUL-97		EDXRF
			CR	47	PPM	LCS	01-JUL-97		EDXRF
			CU	490	PPM	LCS	01-JUL-97		EDXRF
			FE	2.2	%	LCS	01-JUL-97		EDXRF
			PB	500	PPM	LCS	01-JUL-97		EDXRF
			PH	8.9	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	390	PPM	LCS	01-JUL-97		EDXRF
L971344-14	11-JUN-97	EP-84B	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	16	PPM	LCS	01-JUL-97		EDXRF
			CR	65	PPM	LCS	01-JUL-97		EDXRF
			CU	490	PPM	LCS	01-JUL-97		EDXRF
			FE	2.3	%	LCS	01-JUL-97		EDXRF
			PB	500	PPM	LCS	01-JUL-97		EDXRF
			PH	9.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	380	PPM	LCS	01-JUL-97		EDXRF
L971344-15	11-JUN-97	EP-84C	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	29	PPM	LCS	01-JUL-97		EDXRF
			CU	47	PPM	LCS	01-JUL-97		EDXRF
			FE	2.4	%	LCS	01-JUL-97		EDXRF
			PB	61	PPM	LCS	01-JUL-97		EDXRF
			PH	8.8	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	98	PPM	LCS	01-JUL-97		EDXRF
L971344-16	11-JUN-97	EP-84D	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	48	PPM	LCS	01-JUL-97		EDXRF
			CU	33	PPM	LCS	01-JUL-97		EDXRF
			FE	2.2	%	LCS	01-JUL-97		EDXRF
			PB	33	PPM	LCS	01-JUL-97		EDXRF
			PH	8.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	110	PPM	LCS	01-JUL-97		EDXRF

CCV 30651-58

	As	Cd	Cr	CU	Fe	Pb	Se	Zn
Given		12PPM	420PPM		18%	8062PPM		27400PPM
% Recov.		175	91		83	91		102
		133	93		83	92		103
		117	94		83	94		104

LCS BRS2704

GIVEN	23.4PPM	3.45PPM	135PPM	98.6PPM	4.40%	161PPM		438PPM
% RECOV			108	155	98	124		114

LCS SO-1

GIVEN			160PPM	61PPM	6%	21PPM		146PPM
% RECOV			96	156	103	71		96

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L971344-25	12-JUN-97	EP-70RB	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.0	%	LCS	01-JUL-97		EDXRF
			PB	16	PPM	LCS	01-JUL-97		EDXRF
			PH	9.1	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	17	PPM	LCS	01-JUL-97		EDXRF
L971344-26	12-JUN-97	EP-70RB2	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	66	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	0.9	%	LCS	01-JUL-97		EDXRF
			PB	19	PPM	LCS	01-JUL-97		EDXRF
			PH	9.3	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	18	PPM	LCS	01-JUL-97		EDXRF
L971344-27	12-JUN-97	EP-70RC	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	21	PPM	LCS	01-JUL-97		EDXRF
			FE	1.6	%	LCS	01-JUL-97		EDXRF
			PB	25	PPM	LCS	01-JUL-97		EDXRF
			PH	9.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	29	PPM	LCS	01-JUL-97		EDXRF
L971344-28	12-JUN-97	EP-70RD	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	42	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.2	%	LCS	01-JUL-97		EDXRF
			PB	22	PPM	LCS	01-JUL-97		EDXRF
			PH	9.4	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	<10	PPM	LCS	01-JUL-97		EDXRF

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Batch No: L971344

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-29	12-JUN-97	EP-70RE	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	22	PPM	LCS	01-JUL-97		EDXRF
			FE	0.9	%	LCS	01-JUL-97		EDXRF
			PB	16	PPM	LCS	01-JUL-97		EDXRF
			PH	9.1	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	<10	PPM	LCS	01-JUL-97		EDXRF
L971344-30	12-JUN-97	EP-70RF	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	67	PPM	LCS	01-JUL-97		EDXRF
			CU	13	PPM	LCS	01-JUL-97		EDXRF
			FE	2.3	%	LCS	01-JUL-97		EDXRF
			PB	27	PPM	LCS	01-JUL-97		EDXRF
			PH	8.9	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	56	PPM	LCS	01-JUL-97		EDXRF
L971344-31	12-JUN-97	EP-70RG	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	52	PPM	LCS	01-JUL-97		EDXRF
			CU	14	PPM	LCS	01-JUL-97		EDXRF
			FE	2.1	%	LCS	01-JUL-97		EDXRF
			PB	20	PPM	LCS	01-JUL-97		EDXRF
			PH	9.2	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	53	PPM	LCS	01-JUL-97		EDXRF
L971344-32	12-JUN-97	EP-70RH	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	77	PPM	LCS	01-JUL-97		EDXRF
			CU	68	PPM	LCS	01-JUL-97		EDXRF
			FE	2.9	%	LCS	01-JUL-97		EDXRF
			PB	45	PPM	LCS	01-JUL-97		EDXRF
			PH	9.1	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	110	PPM	LCS	01-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-33	12-JUN-97	EP-70RI	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	110	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.6	%	LCS	01-JUL-97		EDXRF
			PB	12	PPM	LCS	01-JUL-97		EDXRF
			PH	9.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	53	PPM	LCS	01-JUL-97		EDXRF
L971344-34	12-JUN-97	EP-70RJ	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.7	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.7	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	65	PPM	LCS	01-JUL-97		EDXRF
L971344-35	12-JUN-97	EP-70RK	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	150	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.7	%	LCS	01-JUL-97		EDXRF
			PB	16	PPM	LCS	01-JUL-97		EDXRF
			PH	9.5	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	26	PPM	LCS	01-JUL-97		EDXRF
L971344-36	12-JUN-97	EP-70RL	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.7	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.5	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	55	PPM	LCS	01-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-37	12-JUN-97	EP-70RM	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.7	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.4	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	33	PPM	LCS	01-JUL-97		EDXRF
L971344-38	12-JUN-97	EP-71RF	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	2.3	%	LCS	01-JUL-97		EDXRF
			PB	19	PPM	LCS	01-JUL-97		EDXRF
			PH	9.4	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	61	PPM	LCS	01-JUL-97		EDXRF
L971344-39	12-JUN-97	EP-71RG	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	150	PPM	LCS	01-JUL-97		EDXRF
			CU	25	PPM	LCS	01-JUL-97		EDXRF
			FE	2.0	%	LCS	01-JUL-97		EDXRF
			PB	29	PPM	LCS	01-JUL-97		EDXRF
			PH	9.5	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	63	PPM	LCS	01-JUL-97		EDXRF
L971344-40	12-JUN-97	EP-71RH	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	35	PPM	LCS	01-JUL-97		EDXRF
			FE	1.9	%	LCS	01-JUL-97		EDXRF
			PB	13	PPM	LCS	01-JUL-97		EDXRF
			PH	9.3	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	31	PPM	LCS	01-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-41	12-JUN-97	EP-71RI	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	57	PPM	LCS	01-JUL-97		EDXRF
			CU	37	PPM	LCS	01-JUL-97		EDXRF
			FE	1.6	%	LCS	01-JUL-97		EDXRF
			PB	11	PPM	LCS	01-JUL-97		EDXRF
			PH	8.9	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	38	PPM	LCS	01-JUL-97		EDXRF
L971344-42	12-JUN-97	EP-71RJ	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	200	PPM	LCS	01-JUL-97		EDXRF
			CU	21	PPM	LCS	01-JUL-97		EDXRF
			FE	1.9	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.2	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	50	PPM	LCS	01-JUL-97		EDXRF
L971344-43	12-JUN-97	EP-71RK	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	81	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.8	%	LCS	01-JUL-97		EDXRF
			PB	13	PPM	LCS	01-JUL-97		EDXRF
			PH	9.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	46	PPM	LCS	01-JUL-97		EDXRF
L971344-44	12-JUN-97	EP-71RL	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	46	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.7	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	50	PPM	LCS	01-JUL-97		EDXRF

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Batch No: L971344

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-45	12-JUN-97	EP-71RL2	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.7	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.7	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	51	PPM	LCS	01-JUL-97		EDXRF
L971344-46	11-JUN-97	EP-71RD	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.8	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.3	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	31	PPM	LCS	01-JUL-97		EDXRF
L971344-47	11-JUN-97	EP-71RE	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	39	PPM	LCS	01-JUL-97		EDXRF
			CU	25	PPM	LCS	01-JUL-97		EDXRF
			FE	1.9	%	LCS	01-JUL-97		EDXRF
			PB	20	PPM	LCS	01-JUL-97		EDXRF
			PH	9.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	38	PPM	LCS	01-JUL-97		EDXRF

Approved

Reviewer

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Batch No: L971402

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-1	12-JUN-97	EP-85A	AS	59	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	58	PPM	LCS	07-JUL-97		EDXRF
			FE	2.0	%	LCS	07-JUL-97		EDXRF
			PB	150	PPM	LCS	07-JUL-97		EDXRF
			PH	9.3	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	180	PPM	LCS	07-JUL-97		EDXRF
L971402-2	12-JUN-97	EP-85B	AS	27	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	78	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.5	%	LCS	07-JUL-97		EDXRF
			PB	15	PPM	LCS	07-JUL-97		EDXRF
			PH	8.9	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	35	PPM	LCS	07-JUL-97		EDXRF
L971402-3	12-JUN-97	EP-85C	AS	22	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	63	PPM	LCS	07-JUL-97		EDXRF
			CU	41	PPM	LCS	07-JUL-97		EDXRF
			FE	1.7	%	LCS	07-JUL-97		EDXRF
			PB	27	PPM	LCS	07-JUL-97		EDXRF
			PH	9.3	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	26	PPM	LCS	07-JUL-97		EDXRF
L971402-4	12-JUN-97	EP-85D	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.8	%	LCS	07-JUL-97		EDXRF
			PB	32	PPM	LCS	07-JUL-97		EDXRF
			PH	9.4	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	99	PPM	LCS	07-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-5	13-JUN-97	EP-86A	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	76	PPM	LCS	07-JUL-97		EDXRF
			FE	1.9	%	LCS	07-JUL-97		EDXRF
			PB	87	PPM	LCS	07-JUL-97		EDXRF
			PH	8.4	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	100	PPM	LCS	07-JUL-97		EDXRF
L971402-6	13-JUN-97	EP-86B	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.5	%	LCS	07-JUL-97		EDXRF
			PB	33	PPM	LCS	07-JUL-97		EDXRF
			PH	9.3	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	100	PPM	LCS	07-JUL-97		EDXRF
L971402-7	13-JUN-97	EP-86C	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	31	PPM	LCS	07-JUL-97		EDXRF
			FE	2.1	%	LCS	07-JUL-97		EDXRF
			PB	16	PPM	LCS	07-JUL-97		EDXRF
			PH	9.3	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	57	PPM	LCS	07-JUL-97		EDXRF
L971402-8	13-JUN-97	EP-86D	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	42	PPM	LCS	07-JUL-97		EDXRF
			FE	2.2	%	LCS	07-JUL-97		EDXRF
			PB	48	PPM	LCS	07-JUL-97		EDXRF
			PH	9.7	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	85	PPM	LCS	07-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-9	13-JUN-97	EP-86E	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	39	PPM	LCS	07-JUL-97		EDXRF
			CU	30	PPM	LCS	07-JUL-97		EDXRF
			FE	1.6	%	LCS	07-JUL-97		EDXRF
			PB	39	PPM	LCS	07-JUL-97		EDXRF
			PH	9.8	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	63	PPM	LCS	07-JUL-97		EDXRF
L971402-10	13-JUN-97	EP-86F	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	30	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.3	%	LCS	07-JUL-97		EDXRF
			PB	26	PPM	LCS	07-JUL-97		EDXRF
			PH	9.8	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	52	PPM	LCS	07-JUL-97		EDXRF
L971402-11	13-JUN-97	EP-86G	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	100	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	0.9	%	LCS	07-JUL-97		EDXRF
			PB	25	PPM	LCS	07-JUL-97		EDXRF
			PH	9.8	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	42	PPM	LCS	07-JUL-97		EDXRF
L971402-12	13-JUN-97	EP-86H	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	22	PPM	LCS	07-JUL-97		EDXRF
			FE	0.9	%	LCS	07-JUL-97		EDXRF
			PB	14	PPM	LCS	07-JUL-97		EDXRF
			PH	9.9	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	33	PPM	LCS	07-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

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Technical Services (Project 3201)

Batch No: L971402

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-13	13-JUN-97	EP-86I	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	30	PPM	LCS	07-JUL-97		EDXRF
			FE	1.2	%	LCS	07-JUL-97		EDXRF
			PB	16	PPM	LCS	07-JUL-97		EDXRF
			PH	9.8	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	23	PPM	LCS	07-JUL-97		EDXRF
L971402-14	13-JUN-97	EP-86J	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	35	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.4	%	LCS	07-JUL-97		EDXRF
			PB	17	PPM	LCS	07-JUL-97		EDXRF
			PH	10.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	25	PPM	LCS	07-JUL-97		EDXRF
L971402-15	13-JUN-97	EP-86K	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	0.7	%	LCS	07-JUL-97		EDXRF
			PB	14	PPM	LCS	07-JUL-97		EDXRF
			PH	9.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	19	PPM	LCS	07-JUL-97		EDXRF
L971402-16	13-JUN-97	EP-86L	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	25	PPM	LCS	07-JUL-97		EDXRF
			FE	1.8	%	LCS	07-JUL-97		EDXRF
			PB	<10	PPM	LCS	07-JUL-97		EDXRF
			PH	9.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	41	PPM	LCS	07-JUL-97		EDXRF

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Batch No: L971402

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-17	13-JUN-97	EP-86M	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	55	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.3	%	LCS	07-JUL-97		EDXRF
			PB	<10	PPM	LCS	07-JUL-97		EDXRF
			PH	9.7	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	36	PPM	LCS	07-JUL-97		EDXRF
L971402-18	13-JUN-97	EP-86M2	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	30	PPM	LCS	07-JUL-97		EDXRF
			FE	1.5	%	LCS	07-JUL-97		EDXRF
			PB	<10	PPM	LCS	07-JUL-97		EDXRF
			PH	9.8	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	18	PPM	LCS	07-JUL-97		EDXRF
L971402-19	16-JUN-97	EP-87A	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	86	PPM	LCS	07-JUL-97		EDXRF
			CU	20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.4	%	LCS	07-JUL-97		EDXRF
			PB	14	PPM	LCS	07-JUL-97		EDXRF
			PH	8.9	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	42	PPM	LCS	07-JUL-97		EDXRF
L971402-20	16-JUN-97	EP-87B	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	41	PPM	LCS	07-JUL-97		EDXRF
			FE	1.4	%	LCS	07-JUL-97		EDXRF
			PB	54	PPM	LCS	07-JUL-97		EDXRF
			PH	9.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	68	PPM	LCS	07-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971402

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-21	16-JUN-97	EP-87C	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.2	%	LCS	07-JUL-97		EDXRF
			PB	11	PPM	LCS	07-JUL-97		EDXRF
			PH	8.9	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	19	PPM	LCS	07-JUL-97		EDXRF
L971402-22	16-JUN-97	EP-88A	AS	550	PPM	LCS	07-JUL-97		EDXRF
			CD	150	PPM	LCS	07-JUL-97		EDXRF
			CR	200	PPM	LCS	07-JUL-97		EDXRF
			CU	5600	PPM	LCS	07-JUL-97		EDXRF
			FE	2.1	%	LCS	07-JUL-97		EDXRF
			PB	3600	PPM	LCS	07-JUL-97		EDXRF
			PH	8.3	pH	DK	16-JUL-97		9045
			SE	23	PPM	LCS	07-JUL-97		EDXRF
			ZN	3100	PPM	LCS	07-JUL-97		EDXRF
L971402-23	16-JUN-97	EP-88B	AS	50	PPM	LCS	07-JUL-97		EDXRF
			CD	120	PPM	LCS	07-JUL-97		EDXRF
			CR	120	PPM	LCS	07-JUL-97		EDXRF
			CU	2200	PPM	LCS	07-JUL-97		EDXRF
			FE	3.3	%	LCS	07-JUL-97		EDXRF
			PB	2700	PPM	LCS	07-JUL-97		EDXRF
			PH	8.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	3200	PPM	LCS	07-JUL-97		EDXRF
L971402-24	16-JUN-97	EP-88C	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	59	PPM	LCS	07-JUL-97		EDXRF
			CU	38	PPM	LCS	07-JUL-97		EDXRF
			FE	2.4	%	LCS	07-JUL-97		EDXRF
			PB	35	PPM	LCS	07-JUL-97		EDXRF
			PH	9.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	54	PPM	LCS	07-JUL-97		EDXRF

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Batch No: L971402

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-25	16-JUN-97	EP-88C2	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	33	PPM	LCS	07-JUL-97		EDXRF
			FE	2.3	%	LCS	07-JUL-97		EDXRF
			PB	19	PPM	LCS	07-JUL-97		EDXRF
			PH	9.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	61	PPM	LCS	07-JUL-97		EDXRF
L971402-26	16-JUN-97	EP-88D	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	55	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	3.0	%	LCS	07-JUL-97		EDXRF
			PB	35	PPM	LCS	07-JUL-97		EDXRF
			PH	9.3	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	95	PPM	LCS	07-JUL-97		EDXRF
L971402-27	16-JUN-97	EP-88E	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	76	PPM	LCS	07-JUL-97		EDXRF
			FE	1.8	%	LCS	07-JUL-97		EDXRF
			PB	58	PPM	LCS	07-JUL-97		EDXRF
			PH	9.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	55	PPM	LCS	07-JUL-97		EDXRF
L971402-28	16-JUN-97	EP-88F	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	36	PPM	LCS	07-JUL-97		EDXRF
			FE	2.8	%	LCS	07-JUL-97		EDXRF
			PB	19	PPM	LCS	07-JUL-97		EDXRF
			PH	9.7	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	49	PPM	LCS	07-JUL-97		EDXRF

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Batch No: L971402

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-29	16-JUN-97	EP-88G	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	100	PPM	LCS	07-JUL-97		EDXRF
			CU	30	PPM	LCS	07-JUL-97		EDXRF
			FE	2.7	%	LCS	07-JUL-97		EDXRF
			PB	18	PPM	LCS	07-JUL-97		EDXRF
			PH	9.7	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	68	PPM	LCS	07-JUL-97		EDXRF
L971402-30	16-JUN-97	EP-88H	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	70	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.8	%	LCS	07-JUL-97		EDXRF
			PB	<10	PPM	LCS	07-JUL-97		EDXRF
			PH	9.5	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	42	PPM	LCS	07-JUL-97		EDXRF
L971402-31	18-JUN-97	EP-89A	AS	34	PPM	LCS	07-JUL-97		EDXRF
			CD	110	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	4900	PPM	LCS	07-JUL-97		EDXRF
			FE	2.7	%	LCS	07-JUL-97		EDXRF
			PB	9600	PPM	LCS	07-JUL-97		EDXRF
			PH	7.8	pH	DK	16-JUL-97		9045
			SE	20	PPM	LCS	07-JUL-97		EDXRF
			ZN	4100	PPM	LCS	07-JUL-97		EDXRF
L971402-32	18-JUN-97	EP-89B	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	48	PPM	LCS	07-JUL-97		EDXRF
			CU	25	PPM	LCS	07-JUL-97		EDXRF
			FE	2.3	%	LCS	07-JUL-97		EDXRF
			PB	42	PPM	LCS	07-JUL-97		EDXRF
			PH	8.4	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	78	PPM	LCS	07-JUL-97		EDXRF

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Batch No: L971402

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-33	18-JUN-97	EP-89C	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	160	PPM	LCS	07-JUL-97		EDXRF
			FE	3.2	%	LCS	07-JUL-97		EDXRF
			PB	180	PPM	LCS	07-JUL-97		EDXRF
			PH	IS	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	200	PPM	LCS	07-JUL-97		EDXRF
L971402-34	18-JUN-97	EP-89D	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	75	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	2.5	%	LCS	07-JUL-97		EDXRF
			PB	22	PPM	LCS	07-JUL-97		EDXRF
			PH	IS	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	56	PPM	LCS	07-JUL-97		EDXRF
L971402-35	18-JUN-97	EP-89E	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	54	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.9	%	LCS	07-JUL-97		EDXRF
			PB	39	PPM	LCS	07-JUL-97		EDXRF
			PH	9.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	72	PPM	LCS	07-JUL-97		EDXRF
L971402-36	18-JUN-97	EP-89F	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	38	PPM	LCS	07-JUL-97		EDXRF
			FE	2.0	%	LCS	07-JUL-97		EDXRF
			PB	92	PPM	LCS	07-JUL-97		EDXRF
			PH	8.9	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	180	PPM	LCS	07-JUL-97		EDXRF

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El Paso

Technical Services (Project 3201)

Batch No: L971402

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-37	18-JUN-97	EP-89G	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	91	PPM	LCS	07-JUL-97		EDXRF
			CU	30	PPM	LCS	07-JUL-97		EDXRF
			FE	1.7	%	LCS	07-JUL-97		EDXRF
			PB	14	PPM	LCS	07-JUL-97		EDXRF
			PH	9.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	61	PPM	LCS	07-JUL-97		EDXRF
L971402-38	18-JUN-97	EP-89H	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	46	PPM	LCS	07-JUL-97		EDXRF
			CU	33	PPM	LCS	07-JUL-97		EDXRF
			FE	1.3	%	LCS	07-JUL-97		EDXRF
			PB	44	PPM	LCS	07-JUL-97		EDXRF
			PH	9.1	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	65	PPM	LCS	07-JUL-97		EDXRF
L971402-39	18-JUN-97	EP-89I	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	88	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.2	%	LCS	07-JUL-97		EDXRF
			PB	14	PPM	LCS	07-JUL-97		EDXRF
			PH	9.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	32	PPM	LCS	07-JUL-97		EDXRF
L971402-40	18-JUN-97	EP-73F	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	43	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.1	%	LCS	07-JUL-97		EDXRF
			PB	<10	PPM	LCS	07-JUL-97		EDXRF
			PH	9.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	42	PPM	LCS	07-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971402

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD

IS=INSUFFICIENT SAMPLE

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971096

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971096-3		Laboratory Control	ERA 9973	PH	100	% RECOVERY	DK	16-JUL-97		9045
WG971096-4		Duplicate	L971402-1	PH	1	% RPD	DK	16-JUL-97		9045
WG971096-9		Duplicate	L971402-20	PH	<1	% RPD	DK	16-JUL-97		9045
WG971096-11		Duplicate	L971402-40	PH	2	% RPD	DK	16-JUL-97		9045

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971099

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971099-3		Laboratory Control	LCS 9973	PH	100	% RECOVERY	MM	22-JUL-97		9045
WG971099-4		Duplicate	L971545-1	PH	<1	% RPD	MM	22-JUL-97		9045
WG971099-8		Laboratory Control	LCS 9973	PH	100	% RECOVERY	MM	22-JUL-97		9045
WG971099-9		Duplicate	L971545-21	PH	<1	% RPD	MM	22-JUL-97		9045

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ASARCO TECHNICAL SERVICES CENTER

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El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971095

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971095-3		Laboratory Control	ERA 9973	PH	100	% RECOVERY	DK	15-JUL-97		9045
WG971095-4		Duplicate	L971325-20	PH	1	% RPD	DK	15-JUL-97		9045

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El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971098

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971098-3		Laboratory Control	ERA 9973	PH	100	% RECOVERY	DK	17-JUL-97		9045
WG971098-4		Duplicate	L971637-1	PH	1	% RPD	DK	17-JUL-97		9045
WG971098-9		Duplicate	L971637-20	PH	<1	% RPD	DK	17-JUL-97		9045

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ASARCO TECHNICAL SERVICES CENTER

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Water and Solid Waste (Project 3220)

Batch No: WG971097

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971097-3		Laboratory Control	ERA 9973	PH	99	% RECOVERY	DK	16-JUL-97		9045
WG971097-4		Duplicate	L971344-1	PH	1	% RPD	DK	16-JUL-97		9045
WG971097-9		Duplicate	L971344-22	PH	<1	% RPD	DK	16-JUL-97		9045
WG971097-14		Duplicate	L971344-40	PH	1	% RPD	DK	16-JUL-97		9045

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L971545

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971545-1	19-JUN-97	RIBH-1A	AS	4400	PPM	LCS	17-JUL-97		EDXRF
			CD	2100	PPM	LCS	17-JUL-97		EDXRF
			CR	190	PPM	LCS	17-JUL-97		EDXRF
			CU	4000	PPM	LCS	17-JUL-97		EDXRF
			FE	13	%	LCS	17-JUL-97		EDXRF
			PB	11000	PPM	LCS	17-JUL-97		EDXRF
			PH	7.9	pH	MM	22-JUL-97		9045
			SE	20	PPM	LCS	17-JUL-97		EDXRF
			ZN	16000	PPM	LCS	17-JUL-97		EDXRF
L971545-2	19-JUN-97	RIBH-1B	AS	1400	PPM	LCS	17-JUL-97		EDXRF
			CD	660	PPM	LCS	17-JUL-97		EDXRF
			CR	170	PPM	LCS	17-JUL-97		EDXRF
			CU	1200	PPM	LCS	17-JUL-97		EDXRF
			FE	4.1	%	LCS	17-JUL-97		EDXRF
			PB	2200	PPM	LCS	17-JUL-97		EDXRF
			PH	IS	pH	MM	22-JUL-97		9045
			SE	13	PPM	LCS	17-JUL-97		EDXRF
			ZN	4200	PPM	LCS	17-JUL-97		EDXRF
L971545-3	19-JUN-97	RIBH-1C	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	11	PPM	LCS	17-JUL-97		EDXRF
			CR	89	PPM	LCS	17-JUL-97		EDXRF
			CU	<20	PPM	LCS	17-JUL-97		EDXRF
			FE	1.9	%	LCS	17-JUL-97		EDXRF
			PB	36	PPM	LCS	17-JUL-97		EDXRF
			PH	8.5	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	83	PPM	LCS	17-JUL-97		EDXRF
L971545-4	19-JUN-97	RIBH-1D	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	92	PPM	LCS	17-JUL-97		EDXRF
			CU	26	PPM	LCS	17-JUL-97		EDXRF
			FE	1.1	%	LCS	17-JUL-97		EDXRF
			PB	67	PPM	LCS	17-JUL-97		EDXRF
			PH	9.0	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	110	PPM	LCS	17-JUL-97		EDXRF

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Batch No: L971545

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971545-5	19-JUN-97	RIBH-1E	AS	23	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	52	PPM	LCS	17-JUL-97		EDXRF
			CU	39	PPM	LCS	17-JUL-97		EDXRF
			FE	1.2	%	LCS	17-JUL-97		EDXRF
			PB	20	PPM	LCS	17-JUL-97		EDXRF
			PH	9.2	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	64	PPM	LCS	17-JUL-97		EDXRF
L971545-6	19-JUN-97	RIBH-1E2	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	33	PPM	LCS	17-JUL-97		EDXRF
			CU	24	PPM	LCS	17-JUL-97		EDXRF
			FE	1.2	%	LCS	17-JUL-97		EDXRF
			PB	24	PPM	LCS	17-JUL-97		EDXRF
			PH	9.3	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	140	PPM	LCS	17-JUL-97		EDXRF
L971545-7	19-JUN-97	RIBH-1F	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	51	PPM	LCS	17-JUL-97		EDXRF
			CU	130	PPM	LCS	17-JUL-97		EDXRF
			FE	2.0	%	LCS	17-JUL-97		EDXRF
			PB	320	PPM	LCS	17-JUL-97		EDXRF
			PH	9.5	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	310	PPM	LCS	17-JUL-97		EDXRF
L971545-8	30-JUN-97	RIBH-2A	AS	82	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	100	PPM	LCS	17-JUL-97		EDXRF
			CU	44	PPM	LCS	17-JUL-97		EDXRF
			FE	5.0	%	LCS	17-JUL-97		EDXRF
			PB	39	PPM	LCS	17-JUL-97		EDXRF
			PH	IS	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	280	PPM	LCS	17-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971545-9	30-JUN-97	RIBH-2B	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	37	PPM	LCS	17-JUL-97		EDXRF
			CU	<20	PPM	LCS	17-JUL-97		EDXRF
			FE	1.4	%	LCS	17-JUL-97		EDXRF
			PB	29	PPM	LCS	17-JUL-97		EDXRF
			PH	IS	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	35	PPM	LCS	17-JUL-97		EDXRF
L971545-10	30-JUN-97	RIBH-2C	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	31	PPM	LCS	17-JUL-97		EDXRF
			FE	1.6	%	LCS	17-JUL-97		EDXRF
			PB	26	PPM	LCS	17-JUL-97		EDXRF
			PH	IS	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	85	PPM	LCS	17-JUL-97		EDXRF
L971545-11	30-JUN-97	RIBH-3A	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	120	PPM	LCS	17-JUL-97		EDXRF
			FE	3.3	%	LCS	17-JUL-97		EDXRF
			PB	800	PPM	LCS	17-JUL-97		EDXRF
			PH	8.8	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	1200	PPM	LCS	17-JUL-97		EDXRF
L971545-12	30-JUN-97	RIBH-3A2	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	150	PPM	LCS	17-JUL-97		EDXRF
			FE	2.6	%	LCS	17-JUL-97		EDXRF
			PB	800	PPM	LCS	17-JUL-97		EDXRF
			PH	8.9	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	1300	PPM	LCS	17-JUL-97		EDXRF

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Batch No: L971545

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971545-13	30-JUN-97	RIBH-3B	AS	25	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	33	PPM	LCS	17-JUL-97		EDXRF
			FE	1.7	%	LCS	17-JUL-97		EDXRF
			PB	20	PPM	LCS	17-JUL-97		EDXRF
			PH	9.2	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	75	PPM	LCS	17-JUL-97		EDXRF
L971545-14	30-JUN-97	RIBH-3C	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	64	PPM	LCS	17-JUL-97		EDXRF
			FE	2.4	%	LCS	17-JUL-97		EDXRF
			PB	44	PPM	LCS	17-JUL-97		EDXRF
			PH	IS	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	90	PPM	LCS	17-JUL-97		EDXRF
L971545-15	30-JUN-97	RIBH-4A	AS	280	PPM	LCS	17-JUL-97		EDXRF
			CD	24	PPM	LCS	17-JUL-97		EDXRF
			CR	120	PPM	LCS	17-JUL-97		EDXRF
			CU	2100	PPM	LCS	17-JUL-97		EDXRF
			FE	6.0	%	LCS	17-JUL-97		EDXRF
			PB	970	PPM	LCS	17-JUL-97		EDXRF
			PH	IS	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	4700	PPM	LCS	17-JUL-97		EDXRF
L971545-16	30-JUN-97	RIBH-4B	AS	29	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	91	PPM	LCS	17-JUL-97		EDXRF
			CU	54	PPM	LCS	17-JUL-97		EDXRF
			FE	2.1	%	LCS	17-JUL-97		EDXRF
			PB	140	PPM	LCS	17-JUL-97		EDXRF
			PH	IS	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	540	PPM	LCS	17-JUL-97		EDXRF

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Batch No: L971545

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971545-17	30-JUN-97	RIBH-4C	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	23	PPM	LCS	17-JUL-97		EDXRF
			FE	1.7	%	LCS	17-JUL-97		EDXRF
			PB	25	PPM	LCS	17-JUL-97		EDXRF
			PH	9.3	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	27	PPM	LCS	17-JUL-97		EDXRF
L971545-18	30-JUN-97	RIBH-5A	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	46	PPM	LCS	17-JUL-97		EDXRF
			CU	310	PPM	LCS	17-JUL-97		EDXRF
			FE	2.7	%	LCS	17-JUL-97		EDXRF
			PB	210	PPM	LCS	17-JUL-97		EDXRF
			PH	8.8	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	1600	PPM	LCS	17-JUL-97		EDXRF
L971545-19	30-JUN-97	RIBH-5B	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	82	PPM	LCS	17-JUL-97		EDXRF
			CU	24	PPM	LCS	17-JUL-97		EDXRF
			FE	1.6	%	LCS	17-JUL-97		EDXRF
			PB	17	PPM	LCS	17-JUL-97		EDXRF
			PH	9.4	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	36	PPM	LCS	17-JUL-97		EDXRF
L971545-20	30-JUN-97	RIBH-5B2	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	59	PPM	LCS	17-JUL-97		EDXRF
			CU	<20	PPM	LCS	17-JUL-97		EDXRF
			FE	1.7	%	LCS	17-JUL-97		EDXRF
			PB	19	PPM	LCS	17-JUL-97		EDXRF
			PH	9.4	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	25	PPM	LCS	17-JUL-97		EDXRF

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Batch No: L971545

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971545-21	30-JUN-97	RIBH-5C	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	32	PPM	LCS	17-JUL-97		EDXRF
			CU	25	PPM	LCS	17-JUL-97		EDXRF
			FE	1.8	%	LCS	17-JUL-97		EDXRF
			PB	30	PPM	LCS	17-JUL-97		EDXRF
			PH	9.2	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	42	PPM	LCS	17-JUL-97		EDXRF
L971545-22	30-JUN-97	RIBH-5D	AS	34	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	17	PPM	LCS	17-JUL-97		EDXRF
			FE	1.9	%	LCS	17-JUL-97		EDXRF
			PB	22	PPM	LCS	17-JUL-97		EDXRF
			PH	9.3	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	59	PPM	LCS	17-JUL-97		EDXRF
L971545-23	30-JUN-97	RIBH-5E	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	48	PPM	LCS	17-JUL-97		EDXRF
			CU	<20	PPM	LCS	17-JUL-97		EDXRF
			FE	1.8	%	LCS	17-JUL-97		EDXRF
			PB	33	PPM	LCS	17-JUL-97		EDXRF
			PH	8.9	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	54	PPM	LCS	17-JUL-97		EDXRF
L971545-24	30-JUN-97	RIBH-6A	AS	270	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	150	PPM	LCS	17-JUL-97		EDXRF
			CU	1800	PPM	LCS	17-JUL-97		EDXRF
			FE	9.6	%	LCS	17-JUL-97		EDXRF
			PB	830	PPM	LCS	17-JUL-97		EDXRF
			PH	9.7	pH	MM	22-JUL-97		9045
			SE	15	PPM	LCS	17-JUL-97		EDXRF
			ZN	6500	PPM	LCS	17-JUL-97		EDXRF

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Batch No: L971545

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971545-25	01-JUL-97	RIBH-7A	AS	53	PPM	LCS	17-JUL-97		EDXRF
			CD	28	PPM	LCS	17-JUL-97		EDXRF
			CR	130	PPM	LCS	17-JUL-97		EDXRF
			CU	1500	PPM	LCS	17-JUL-97		EDXRF
			FE	2.1	%	LCS	17-JUL-97		EDXRF
			PB	1000	PPM	LCS	17-JUL-97		EDXRF
			PH	8.0	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	780	PPM	LCS	17-JUL-97		EDXRF
L971545-26	01-JUL-97	RIBH-7B	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	89	PPM	LCS	17-JUL-97		EDXRF
			CU	55	PPM	LCS	17-JUL-97		EDXRF
			FE	1.9	%	LCS	17-JUL-97		EDXRF
			PB	19	PPM	LCS	17-JUL-97		EDXRF
			PH	8.9	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	47	PPM	LCS	17-JUL-97		EDXRF
L971545-27	01-JUL-97	RIBH-7C	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	74	PPM	LCS	17-JUL-97		EDXRF
			CU	31	PPM	LCS	17-JUL-97		EDXRF
			FE	2.3	%	LCS	17-JUL-97		EDXRF
			PB	24	PPM	LCS	17-JUL-97		EDXRF
			PH	8.3	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	71	PPM	LCS	17-JUL-97		EDXRF
L971545-28	01-JUL-97	RIBH-8A	AS	120	PPM	LCS	17-JUL-97		EDXRF
			CD	120	PPM	LCS	17-JUL-97		EDXRF
			CR	63	PPM	LCS	17-JUL-97		EDXRF
			CU	3800	PPM	LCS	17-JUL-97		EDXRF
			FE	2.2	%	LCS	17-JUL-97		EDXRF
			PB	3300	PPM	LCS	17-JUL-97		EDXRF
			PH	7.5	pH	MM	22-JUL-97		9045
			SE	14	PPM	LCS	17-JUL-97		EDXRF
			ZN	3100	PPM	LCS	17-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971545

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971545-29	01-JUL-97	RIBH-8B	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	31	PPM	LCS	17-JUL-97		EDXRF
			CU	22	PPM	LCS	17-JUL-97		EDXRF
			FE	1.6	%	LCS	17-JUL-97		EDXRF
			PB	29	PPM	LCS	17-JUL-97		EDXRF
			PH	9.3	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	35	PPM	LCS	17-JUL-97		EDXRF
L971545-30	01-JUL-97	RIBH-8C	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	64	PPM	LCS	17-JUL-97		EDXRF
			CU	27	PPM	LCS	17-JUL-97		EDXRF
			FE	2.0	%	LCS	17-JUL-97		EDXRF
			PB	17	PPM	LCS	17-JUL-97		EDXRF
			PH	9.2	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	48	PPM	LCS	17-JUL-97		EDXRF
L971545-31	01-JUL-97	RIBH-8C2	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	32	PPM	LCS	17-JUL-97		EDXRF
			CU	29	PPM	LCS	17-JUL-97		EDXRF
			FE	1.9	%	LCS	17-JUL-97		EDXRF
			PB	16	PPM	LCS	17-JUL-97		EDXRF
			PH	9.1	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	53	PPM	LCS	17-JUL-97		EDXRF
L971545-32	01-JUL-97	RIBH-9A	AS	63	PPM	LCS	17-JUL-97		EDXRF
			CD	46	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	1600	PPM	LCS	17-JUL-97		EDXRF
			FE	2.3	%	LCS	17-JUL-97		EDXRF
			PB	1100	PPM	LCS	17-JUL-97		EDXRF
			PH	7.8	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	1500	PPM	LCS	17-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971545

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971545-33	01-JUL-97	RIBH-9B	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	80	PPM	LCS	17-JUL-97		EDXRF
			CU	22	PPM	LCS	17-JUL-97		EDXRF
			FE	1.5	%	LCS	17-JUL-97		EDXRF
			PB	11	PPM	LCS	17-JUL-97		EDXRF
			PH	8.9	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	30	PPM	LCS	17-JUL-97		EDXRF
L971545-34	01-JUL-97	RIBH-9C	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	31	PPM	LCS	17-JUL-97		EDXRF
			FE	1.8	%	LCS	17-JUL-97		EDXRF
			PB	33	PPM	LCS	17-JUL-97		EDXRF
			PH	8.2	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	31	PPM	LCS	17-JUL-97		EDXRF
L971545-35	01-JUL-97	RIBH-10A	AS	46	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	760	PPM	LCS	17-JUL-97		EDXRF
			FE	1.8	%	LCS	17-JUL-97		EDXRF
			PB	400	PPM	LCS	17-JUL-97		EDXRF
			PH	8.2	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	360	PPM	LCS	17-JUL-97		EDXRF
L971545-36	01-JUL-97	RIBH-10A2	AS	28	PPM	LCS	17-JUL-97		EDXRF
			CD	20	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	690	PPM	LCS	17-JUL-97		EDXRF
			FE	1.8	%	LCS	17-JUL-97		EDXRF
			PB	340	PPM	LCS	17-JUL-97		EDXRF
			PH	8.3	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	310	PPM	LCS	17-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971545

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971545-37	01-JUL-97	RIBH-10B	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	85	PPM	LCS	17-JUL-97		EDXRF
			FE	1.7	%	LCS	17-JUL-97		EDXRF
			PB	40	PPM	LCS	17-JUL-97		EDXRF
			PH	IS	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	61	PPM	LCS	17-JUL-97		EDXRF
L971545-38	01-JUL-97	RIBH-10C	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	72	PPM	LCS	17-JUL-97		EDXRF
			CU	<20	PPM	LCS	17-JUL-97		EDXRF
			FE	1.7	%	LCS	17-JUL-97		EDXRF
			PB	21	PPM	LCS	17-JUL-97		EDXRF
			PH	8.8	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	25	PPM	LCS	17-JUL-97		EDXRF

IS=INSUFFICIENT SAMPLE

Approved

Reviewer

ASARCO

HYDROMETRICS, INC.
AUG 13 1997
RECEIVED

August 8, 1997

Mr. Lairy Johnson
HYDROMETRICS
El Paso

Please find attached the analytical results for seven samples collected on June 19 through July 08, 1997 from the ASARCO El Paso Plant Site.

The samples were digested according to EPA method SW 846, method 3050 and results are reported on a dry weight basis.

The samples were received by the laboratory on July 25, 1997.

Sincerely,

Milan Mraz
Chemist

VPK/mo
Attach.

cc: JVanek (w/attach.)
GRStanga "

134.502.100

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971749

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971749-1	19-JUN-97	RIBH-1A	Resub.(L971545-1)	AS	2310.	ppm	MM	01-AUG-97		6010
				CD	1462.	ppm	MM	01-AUG-97		6010
				CR	62.	ppm	MM	01-AUG-97		6010
				CU	2911.	ppm	MM	01-AUG-97		6010
				FE	75130.	ppm	MM	01-AUG-97		6010
				PB	7809.	ppm	MM	01-AUG-97		6010
				SE	33.	ppm	MM	01-AUG-97		6010
				ZN	10800.	ppm	MM	01-AUG-97		7950
L971749-2	30-JUN-97	RIBH-3A	Resub.(L971545-11)	AS	38.	ppm	MM	01-AUG-97		6010
				CD	<5.0	ppm	MM	01-AUG-97		6010
				CR	16.	ppm	MM	01-AUG-97		6010
				CU	148.	ppm	MM	01-AUG-97		6010
				FE	24450.	ppm	MM	01-AUG-97		6010
				PB	769.	ppm	MM	01-AUG-97		6010
				SE	<10.	ppm	MM	01-AUG-97		6010
				ZN	1410.	ppm	MM	01-AUG-97		7950
L971749-3	30-JUN-97	RIBH-5A	Resub.(L971545-18)	AS	<10.	ppm	MM	01-AUG-97		6010
				CD	5.5	ppm	MM	01-AUG-97		6010
				CR	15.	ppm	MM	01-AUG-97		6010
				CU	298.	ppm	MM	01-AUG-97		6010
				FE	19430.	ppm	MM	01-AUG-97		6010
				PB	210.	ppm	MM	01-AUG-97		6010
				SE	<10.	ppm	MM	01-AUG-97		6010
				ZN	2140.	ppm	MM	01-AUG-97		7950
L971749-4	01-JUL-97	RIBH-10C	Resub.(L971545-38)	AS	<10.	ppm	MM	01-AUG-97		6010
				CD	<5.0	ppm	MM	01-AUG-97		6010
				CR	<10.	ppm	MM	01-AUG-97		6010
				CU	20.	ppm	MM	01-AUG-97		6010
				FE	8455.	ppm	MM	01-AUG-97		6010
				PB	<10.	ppm	MM	01-AUG-97		6010
				SE	<10.	ppm	MM	01-AUG-97		6010
				ZN	18.	ppm	MM	01-AUG-97		7950
L971749-5	08-JUL-97	SS1A5-98	Resub.(L971637-19)	AS	<10.	ppm	MM	01-AUG-97		6010
				CD	<5.0	ppm	MM	01-AUG-97		6010
				CR	12.	ppm	MM	01-AUG-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971749

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971749-5	08-JUL-97	SS1A5-9B	Resub.(L971637-19)	CU	190.	ppm	MM	01-AUG-97		6010
				FE	9766.	ppm	MM	01-AUG-97		6010
				PB	66.	ppm	MM	01-AUG-97		6010
				SE	<10.	ppm	MM	01-AUG-97		6010
				ZN	61.	ppm	MM	01-AUG-97		7950
L971749-6	08-JUL-97	SS1A5-3B	Resub.(L971637-6)	AS	54.	ppm	MM	01-AUG-97		6010
				CD	15.	ppm	MM	01-AUG-97		6010
				CR	14.	ppm	MM	01-AUG-97		6010
				CU	1058.	ppm	MM	01-AUG-97		6010
				FE	11980.	ppm	MM	01-AUG-97		6010
				PB	667.	ppm	MM	01-AUG-97		6010
				SE	<10.	ppm	MM	01-AUG-97		6010
				ZN	470.	ppm	MM	01-AUG-97		7950
L971749-7	08-JUL-97	SS1A5-9A	Resub.(L971637-18)	AS	75.	ppm	MM	01-AUG-97		6010
				CD	23.	ppm	MM	01-AUG-97		6010
				CR	13.	ppm	MM	01-AUG-97		6010
				CU	2225.	ppm	MM	01-AUG-97		6010
				FE	13770.	ppm	MM	01-AUG-97		6010
				PB	587.	ppm	MM	01-AUG-97		6010
				SE	<10.	ppm	MM	01-AUG-97		6010
				ZN	580.	ppm	MM	01-AUG-97		7950

Approved

Reviewed

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971187

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971187-5		Detection Limit	AS	10.	ppm				6010
			CD	5.0	ppm				6010
			CR	10.	ppm				6010
			CU	10.	ppm				6010
			FE	10.	ppm				6010
			PB	10.	ppm				6010
			SE	10.	ppm				6010
			ZN	5.0	ppm				7950

Approved

Reviewer

ASARCO TECHNIC.. SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971187

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971187-1		Matrix Spike	AS	91.	% RECOVERY	MM	01-AUG-97		6010
			CD	88.	% RECOVERY	MM	01-AUG-97		6010
			CR	100.	% RECOVERY	MM	01-AUG-97		6010
			CU	98.	% RECOVERY	MM	01-AUG-97		6010
			FE	SR>4XSA	% RECOVERY	MM	01-AUG-97		6010
			PB	92.	% RECOVERY	MM	01-AUG-97		6010
			SE	97.	% RECOVERY	MM	01-AUG-97		6010
			ZN	95.	% RECOVERY	MM	01-AUG-97		7950
WG971187-2		Prep Blank	AS	<10.	ppm	MM	01-AUG-97		6010
			CD	<5.0	ppm	MM	01-AUG-97		6010
			CR	<10.	ppm	MM	01-AUG-97		6010
			CU	<10.	ppm	MM	01-AUG-97		6010
			FE	<10.	ppm	MM	01-AUG-97		6010
			PB	<10.	ppm	MM	01-AUG-97		6010
			SE	<10.	ppm	MM	01-AUG-97		6010
			ZN	<5.0	ppm	MM	01-AUG-97		7950
WG971187-3		Laboratory Control	AS	80.	% RECOVERY	MM	01-AUG-97		6010
			CD	74.	% RECOVERY	MM	01-AUG-97		6010
			CR	92.	% RECOVERY	MM	01-AUG-97		6010
			CU	113.	% RECOVERY	MM	01-AUG-97		6010
			FE	112.	% RECOVERY	MM	01-AUG-97		6010
			PB	79.	% RECOVERY	MM	01-AUG-97		6010
			SE	91.	% RECOVERY	MM	01-AUG-97		6010
			ZN	91.	% RECOVERY	MM	01-AUG-97		7950
WG971187-4		Duplicate	AS	<1.0	% RPD	MM	01-AUG-97		6010
			CD	2.8	% RPD	MM	01-AUG-97		6010
			CR	-5.8	% RPD	MM	01-AUG-97		6010
			CU	-1.9	% RPD	MM	01-AUG-97		6010
			FE	<1.0	% RPD	MM	01-AUG-97		6010
			PB	2.0	% RPD	MM	01-AUG-97		6010
			SE	2.1	% RPD	MM	01-AUG-97		6010
			ZN	3.5	% RPD	MM	01-AUG-97		7950
WG971187-5		Detection Limit	AS	10.	ppm				6010
			CD	5.0	ppm				6010
			CR	10.	ppm				6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971187

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971187-5		Detection Limit	CU	10.	ppm				6010
			FE	10.	ppm				6010
			PB	10.	ppm				6010
			SE	10.	ppm				6010
			ZN	5.0	ppm				7950

Approved

Reviewer

ASARCO

Aug. 18, 1997

Mr. Lairy Johnson
Hydrometrics
El Paso

Please find attached the X-ray results for your El Paso soil samples received on the 27th of June and on the 18th of July 1997. Also attached are the Q C results for this set . An amended report will follow containing pH values.

If you have any questions pertaining to the data please feel free to call.

Lee Stone

Lee Stone
Senior Analytical
Chemist

cc: CRStanga (w\attach)
JVanek "

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

Q C FOR ELPASO SOILS L971680

CCV 30651-58

	PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
GIVEN		12	420		18	8062		27400
FOUND	505	11	223	981	15	7443	23	28664
	517	15	322	1155	15	7516	17	28317
	436	21	404	997	15	7452	16	28672
	543	18	385	1066	15	7440	14	28148
	426	10	314	1051	15	7418	<10	28187
	480	21	350	980	15	7429	<10	28488
	464	15	303	1061	15	7432	<10	28028
	406	15	336	1061	15	7449	11	28370
	476	21	433	925	15	7520	13	28402

LCS BRS2704

GIVEN	23.4	3.45	135	98.6	4.4	161		438
FOUND	<20	<10	113	120	4.5	207	<10	501
	<20	<10	84	137	4.4	192	<10	500

LCS SO-1

GIVEN			160	61	6	21		146
FOUND	<20	<10	109	69	6.3	15	<10	160
	<20	<10	116	95	6.2	18	<10	141

DUPLICATES

	PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
L971680-25	952	251	285	8401	8.8	4785	14	8934
DUP680-25	1032	270	256	8250	8.7	4663	21	8645
%DIFF	8	7	11	2	1	3	40	3
L971680-40	<20	<10	32	39	1.7	34	<10	59
DUP680-40	<20	<10	<30	31	1.7	36	<10	39
%DIFF				23	0	6		41
L971680-80	<20	12	90	303	2.2	277	<10	179
DUP680-80	<20	<10	<30	325	2.1	296	<10	178
%DIFF				7	5	7		1
L971680-88	710	254	26	1401	2.0	1329	12	908
DUP680-88	741	253	<30	1338	2.0	1268	11	935
%DIFF	4	0		5	0	5	9	3

CCV 30651-58

	As	Cd	Cr	CU	Fe	Pb	Se	Zn
Given		12PPM	420PPM		18%	8062PPM		27400PPM
% Recov.		92	53		83	92		105
		125	77		83	93		103
		175	96		83	92		105
		150	92		83	92		103
		83	75		83	92		103
		175	83		83	92		104
		125	72		83	92		102
		125	80		83	92		104
		175	103		83	93		104

LCS BRS2704

GIVEN	23.4PPM	3.45PPM	135PPM	98.6PPM	4.40%	161PPM		438PPM
% RECOV			84	122	102	129		114
			62	139	100	119		114

LCS SO-1

GIVEN			160PPM	61PPM	6%	21PPM		146PPM
% RECOV			68	113	105	71		110
			73	156	103	86		97

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971680

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-1	15-JUL-97	SS1A1-1A	AS	3200	PPM	LCS	13-AUG-97		EDXRF
			CD	1900	PPM	LCS	13-AUG-97		EDXRF
			CR	62	PPM	LCS	13-AUG-97		EDXRF
			CU	13000	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	11000	PPM	LCS	13-AUG-97		EDXRF
			SE	190	PPM	LCS	13-AUG-97		EDXRF
			ZN	7000	PPM	LCS	13-AUG-97		EDXRF
L971680-2	15-JUL-97	SS1A1-1B	AS	2300	PPM	LCS	13-AUG-97		EDXRF
			CD	91	PPM	LCS	13-AUG-97		EDXRF
			CR	330	PPM	LCS	13-AUG-97		EDXRF
			CU	7600	PPM	LCS	13-AUG-97		EDXRF
			FE	15	%	LCS	13-AUG-97		EDXRF
			PB	5000	PPM	LCS	13-AUG-97		EDXRF
			SE	13	PPM	LCS	13-AUG-97		EDXRF
			ZN	13000	PPM	LCS	13-AUG-97		EDXRF
L971680-3	15-JUL-97	SS1A1-2A	AS	21000	PPM	LCS	13-AUG-97		EDXRF
			CD	1100	PPM	LCS	13-AUG-97		EDXRF
			CR	60	PPM	LCS	13-AUG-97		EDXRF
			CU	11000	PPM	LCS	13-AUG-97		EDXRF
			FE	3.0	%	LCS	13-AUG-97		EDXRF
			PB	15	%	LCS	13-AUG-97		EDXRF
			SE	1300	PPM	LCS	13-AUG-97		EDXRF
			ZN	2600	PPM	LCS	13-AUG-97		EDXRF
L971680-4	15-JUL-97	SS1A1-2B	AS	22000	PPM	LCS	13-AUG-97		EDXRF
			CD	1600	PPM	LCS	13-AUG-97		EDXRF
			CR	110	PPM	LCS	13-AUG-97		EDXRF
			CU	28000	PPM	LCS	13-AUG-97		EDXRF
			FE	4.6	%	LCS	13-AUG-97		EDXRF
			PB	5400	PPM	LCS	13-AUG-97		EDXRF
			SE	200	PPM	LCS	13-AUG-97		EDXRF
			ZN	4900	PPM	LCS	13-AUG-97		EDXRF
L971680-5	15-JUL-97	SS1A1-3A	AS	2000	PPM	LCS	13-AUG-97		EDXRF
			CD	320	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF

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L971680-5	15-JUL-97	SS1A1-3A	CU	4000	PPM	LCS	13-AUG-97		EDXRF
			FE	1.2	%	LCS	13-AUG-97		EDXRF
			PB	4100	PPM	LCS	13-AUG-97		EDXRF
			SE	41	PPM	LCS	13-AUG-97		EDXRF
			ZN	2200	PPM	LCS	13-AUG-97		EDXRF
L971680-6	15-JUL-97	SS1A1-3B	AS	4900	PPM	LCS	13-AUG-97		EDXRF
			CD	110	PPM	LCS	13-AUG-97		EDXRF
			CR	97	PPM	LCS	13-AUG-97		EDXRF
			CU	37000	PPM	LCS	13-AUG-97		EDXRF
			FE	4.4	%	LCS	13-AUG-97		EDXRF
			PB	5800	PPM	LCS	13-AUG-97		EDXRF
			SE	36	PPM	LCS	13-AUG-97		EDXRF
			ZN	7200	PPM	LCS	13-AUG-97		EDXRF
L971680-7	15-JUL-97	SS1A1-4A	AS	410	PPM	LCS	13-AUG-97		EDXRF
			CD	88	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	1800	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	690	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1500	PPM	LCS	13-AUG-97		EDXRF
L971680-8	15-JUL-97	SS1A1-4B	AS	570	PPM	LCS	13-AUG-97		EDXRF
			CD	160	PPM	LCS	13-AUG-97		EDXRF
			CR	110	PPM	LCS	13-AUG-97		EDXRF
			CU	11000	PPM	LCS	13-AUG-97		EDXRF
			FE	4.4	%	LCS	13-AUG-97		EDXRF
			PB	6200	PPM	LCS	13-AUG-97		EDXRF
			SE	25	PPM	LCS	13-AUG-97		EDXRF
			ZN	7500	PPM	LCS	13-AUG-97		EDXRF
L971680-9	15-JUL-97	SS1A1-5A1	AS	1800	PPM	LCS	13-AUG-97		EDXRF
			CD	120	PPM	LCS	13-AUG-97		EDXRF
			CR	39	PPM	LCS	13-AUG-97		EDXRF
			CU	2500	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	1200	PPM	LCS	13-AUG-97		EDXRF

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L971680-9	15-JUL-97	SS1A1-5A1	SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	2300	PPM	LCS	13-AUG-97		EDXRF
L971680-10	15-JUL-97	SS1A1-5A2	AS	1600	PPM	LCS	13-AUG-97		EDXRF
			CD	110	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	2500	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	1100	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	2100	PPM	LCS	13-AUG-97		EDXRF
L971680-11	15-JUL-97	SS1A1-5B	AS	220	PPM	LCS	13-AUG-97		EDXRF
			CD	20	PPM	LCS	13-AUG-97		EDXRF
			CR	170	PPM	LCS	13-AUG-97		EDXRF
			CU	3500	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	830	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	550	PPM	LCS	13-AUG-97		EDXRF
L971680-12	14-JUL-97	SS1A2-1A	AS	400	PPM	LCS	13-AUG-97		EDXRF
			CD	14	PPM	LCS	13-AUG-97		EDXRF
			CR	120	PPM	LCS	13-AUG-97		EDXRF
			CU	7200	PPM	LCS	13-AUG-97		EDXRF
			FE	13	%	LCS	13-AUG-97		EDXRF
			PB	1500	PPM	LCS	13-AUG-97		EDXRF
			SE	12	PPM	LCS	13-AUG-97		EDXRF
			ZN	10000	PPM	LCS	13-AUG-97		EDXRF
L971680-13	14-JUL-97	SS1A2-1B	AS	1200	PPM	LCS	13-AUG-97		EDXRF
			CD	56	PPM	LCS	13-AUG-97		EDXRF
			CR	340	PPM	LCS	13-AUG-97		EDXRF
			CU	5400	PPM	LCS	13-AUG-97		EDXRF
			FE	19	%	LCS	13-AUG-97		EDXRF
			PB	180	PPM	LCS	13-AUG-97		EDXRF
			SE	72	PPM	LCS	13-AUG-97		EDXRF
			ZN	16000	PPM	LCS	13-AUG-97		EDXRF

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L971680-14	14-JUL-97	SS1A2-2A	AS	840	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	230	PPM	LCS	13-AUG-97		EDXRF
			CU	8800	PPM	LCS	13-AUG-97		EDXRF
			FE	8.5	%	LCS	13-AUG-97		EDXRF
			PB	2700	PPM	LCS	13-AUG-97		EDXRF
			SE	21	PPM	LCS	13-AUG-97		EDXRF
			ZN	5300	PPM	LCS	13-AUG-97		EDXRF
L971680-15	14-JUL-97	SS1A2-2A2	AS	950	PPM	LCS	13-AUG-97		EDXRF
			CD	120	PPM	LCS	13-AUG-97		EDXRF
			CR	220	PPM	LCS	13-AUG-97		EDXRF
			CU	8400	PPM	LCS	13-AUG-97		EDXRF
			FE	8.3	%	LCS	13-AUG-97		EDXRF
			PB	2500	PPM	LCS	13-AUG-97		EDXRF
			SE	23	PPM	LCS	13-AUG-97		EDXRF
			ZN	5300	PPM	LCS	13-AUG-97		EDXRF
L971680-16	14-JUL-97	SS1A3-1A	AS	1900	PPM	LCS	13-AUG-97		EDXRF
			CD	510	PPM	LCS	13-AUG-97		EDXRF
			CR	240	PPM	LCS	13-AUG-97		EDXRF
			CU	27000	PPM	LCS	13-AUG-97		EDXRF
			FE	6.6	%	LCS	13-AUG-97		EDXRF
			PB	7400	PPM	LCS	13-AUG-97		EDXRF
			SE	56	PPM	LCS	13-AUG-97		EDXRF
			ZN	7600	PPM	LCS	13-AUG-97		EDXRF
L971680-17	14-JUL-97	SS1A3-1B	AS	650	PPM	LCS	13-AUG-97		EDXRF
			CD	120	PPM	LCS	13-AUG-97		EDXRF
			CR	73	PPM	LCS	13-AUG-97		EDXRF
			CU	4000	PPM	LCS	13-AUG-97		EDXRF
			FE	12	%	LCS	13-AUG-97		EDXRF
			PB	6900	PPM	LCS	13-AUG-97		EDXRF
			SE	13	PPM	LCS	13-AUG-97		EDXRF
			ZN	17000	PPM	LCS	13-AUG-97		EDXRF
L971680-18	14-JUL-97	SS1A3-2A	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	25	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF

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L971680-18	14-JUL-97	SS1A3-2A	CU	360	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	220	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	220	PPM	LCS	13-AUG-97		EDXRF
L971680-19	14-JUL-97	SS1A3-2B	AS	35	PPM	LCS	13-AUG-97		EDXRF
			CD	19	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	430	PPM	LCS	13-AUG-97		EDXRF
			FE	2.1	%	LCS	13-AUG-97		EDXRF
			PB	550	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	2000	PPM	LCS	13-AUG-97		EDXRF
L971680-20	14-JUL-97	SS1A3-3A	AS	480	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	41	PPM	LCS	13-AUG-97		EDXRF
			CU	3600	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	2000	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1900	PPM	LCS	13-AUG-97		EDXRF
L971680-21	14-JUL-97	SS1A3-3B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	100	PPM	LCS	13-AUG-97		EDXRF
			CU	72	PPM	LCS	13-AUG-97		EDXRF
			FE	0.6	%	LCS	13-AUG-97		EDXRF
			PB	37	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	100	PPM	LCS	13-AUG-97		EDXRF
L971680-22	14-JUL-97	SS1A3-4A	AS	7800	PPM	LCS	13-AUG-97		EDXRF
			CD	1600	PPM	LCS	13-AUG-97		EDXRF
			CR	140	PPM	LCS	13-AUG-97		EDXRF
			CU	7400	PPM	LCS	13-AUG-97		EDXRF
			FE	5.5	%	LCS	13-AUG-97		EDXRF
			PB	7300	PPM	LCS	13-AUG-97		EDXRF

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L971680-22	14-JUL-97	SS1A3-4A	SE	53	PPM	LCS	13-AUG-97		EDXRF
			ZN	9800	PPM	LCS	13-AUG-97		EDXRF
L971680-23	14-JUL-97	SS1A3-4B	AS	3000	PPM	LCS	13-AUG-97		EDXRF
			CD	330	PPM	LCS	13-AUG-97		EDXRF
			CR	300	PPM	LCS	13-AUG-97		EDXRF
			CU	4400	PPM	LCS	13-AUG-97		EDXRF
			FE	15	%	LCS	13-AUG-97		EDXRF
			PB	5600	PPM	LCS	13-AUG-97		EDXRF
			SE	35	PPM	LCS	13-AUG-97		EDXRF
			ZN	16000	PPM	LCS	13-AUG-97		EDXRF
L971680-24	15-JUL-97	SS1A3-5A	AS	1000	PPM	LCS	13-AUG-97		EDXRF
			CD	280	PPM	LCS	13-AUG-97		EDXRF
			CR	240	PPM	LCS	13-AUG-97		EDXRF
			CU	9000	PPM	LCS	13-AUG-97		EDXRF
			FE	9.2	%	LCS	13-AUG-97		EDXRF
			PB	5200	PPM	LCS	13-AUG-97		EDXRF
			SE	22	PPM	LCS	13-AUG-97		EDXRF
			ZN	9200	PPM	LCS	13-AUG-97		EDXRF
L971680-25	15-JUL-97	SS1A3-5A2	AS	950	PPM	LCS	13-AUG-97		EDXRF
			CD	250	PPM	LCS	13-AUG-97		EDXRF
			CR	290	PPM	LCS	13-AUG-97		EDXRF
			CU	8400	PPM	LCS	13-AUG-97		EDXRF
			FE	8.8	%	LCS	13-AUG-97		EDXRF
			PB	4800	PPM	LCS	13-AUG-97		EDXRF
			SE	14	PPM	LCS	13-AUG-97		EDXRF
			ZN	8900	PPM	LCS	13-AUG-97		EDXRF
L971680-26	15-JUL-97	SS1A3-5B	AS	560	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	80	PPM	LCS	13-AUG-97		EDXRF
			CU	3700	PPM	LCS	13-AUG-97		EDXRF
			FE	6.3	%	LCS	13-AUG-97		EDXRF
			PB	3300	PPM	LCS	13-AUG-97		EDXRF
			SE	16	PPM	LCS	13-AUG-97		EDXRF
			ZN	7300	PPM	LCS	13-AUG-97		EDXRF

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L971680-27	15-JUL-97	SS1A3-6A	AS	2900	PPM	LCS	13-AUG-97		EDXRF
			CD	790	PPM	LCS	13-AUG-97		EDXRF
			CR	260	PPM	LCS	13-AUG-97		EDXRF
			CU	11000	PPM	LCS	13-AUG-97		EDXRF
			FE	3.0	%	LCS	13-AUG-97		EDXRF
			PB	11000	PPM	LCS	13-AUG-97		EDXRF
			SE	60	PPM	LCS	13-AUG-97		EDXRF
			ZN	14000	PPM	LCS	13-AUG-97		EDXRF
L971680-28	15-JUL-97	SS1A3-6B	AS	230	PPM	LCS	13-AUG-97		EDXRF
			CD	67	PPM	LCS	13-AUG-97		EDXRF
			CR	60	PPM	LCS	13-AUG-97		EDXRF
			CU	1000	PPM	LCS	13-AUG-97		EDXRF
			FE	1.6	%	LCS	13-AUG-97		EDXRF
			PB	1000	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1300	PPM	LCS	13-AUG-97		EDXRF
L971680-29	15-JUL-97	SS1A3-7A	AS	820	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	120	PPM	LCS	13-AUG-97		EDXRF
			CU	1900	PPM	LCS	13-AUG-97		EDXRF
			FE	1.2	%	LCS	13-AUG-97		EDXRF
			PB	2200	PPM	LCS	13-AUG-97		EDXRF
			SE	22	PPM	LCS	13-AUG-97		EDXRF
			ZN	2200	PPM	LCS	13-AUG-97		EDXRF
L971680-30	15-JUL-97	SS1A3-7B	AS	2700	PPM	LCS	13-AUG-97		EDXRF
			CD	440	PPM	LCS	13-AUG-97		EDXRF
			CR	1400	PPM	LCS	13-AUG-97		EDXRF
			CU	3900	PPM	LCS	13-AUG-97		EDXRF
			FE	4.5	%	LCS	13-AUG-97		EDXRF
			PB	3700	PPM	LCS	13-AUG-97		EDXRF
			SE	94	PPM	LCS	13-AUG-97		EDXRF
			ZN	14000	PPM	LCS	13-AUG-97		EDXRF
L971680-31	15-JUL-97	SS1A3-8A	AS	3200	PPM	LCS	13-AUG-97		EDXRF
			CD	1100	PPM	LCS	13-AUG-97		EDXRF
			CR	290	PPM	LCS	13-AUG-97		EDXRF

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L971680-31	15-JUL-97	SS1A3-8A	CU	20000	PPM	LCS	13-AUG-97		EDXRF
			FE	6.0	%	LCS	13-AUG-97		EDXRF
			PB	8100	PPM	LCS	13-AUG-97		EDXRF
			SE	60	PPM	LCS	13-AUG-97		EDXRF
			ZN	9900	PPM	LCS	13-AUG-97		EDXRF
L971680-32	15-JUL-97	SS1A3-8B	AS	740	PPM	LCS	13-AUG-97		EDXRF
			CD	170	PPM	LCS	13-AUG-97		EDXRF
			CR	110	PPM	LCS	13-AUG-97		EDXRF
			CU	3300	PPM	LCS	13-AUG-97		EDXRF
			FE	1.9	%	LCS	13-AUG-97		EDXRF
			PB	1600	PPM	LCS	13-AUG-97		EDXRF
			SE	14	PPM	LCS	13-AUG-97		EDXRF
			ZN	1900	PPM	LCS	13-AUG-97		EDXRF
L971680-33	15-JUL-97	SS1A3-9A	AS	1900	PPM	LCS	13-AUG-97		EDXRF
			CD	1400	PPM	LCS	13-AUG-97		EDXRF
			CR	53	PPM	LCS	13-AUG-97		EDXRF
			CU	8500	PPM	LCS	13-AUG-97		EDXRF
			FE	3.4	%	LCS	13-AUG-97		EDXRF
			PB	4500	PPM	LCS	13-AUG-97		EDXRF
			SE	33	PPM	LCS	13-AUG-97		EDXRF
			ZN	5500	PPM	LCS	13-AUG-97		EDXRF
L971680-34	15-JUL-97	SS1A3-9B	AS	570	PPM	LCS	13-AUG-97		EDXRF
			CD	340	PPM	LCS	13-AUG-97		EDXRF
			CR	52	PPM	LCS	13-AUG-97		EDXRF
			CU	2700	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	2700	PPM	LCS	13-AUG-97		EDXRF
			SE	26	PPM	LCS	13-AUG-97		EDXRF
			ZN	2600	PPM	LCS	13-AUG-97		EDXRF
L971680-35	15-JUL-97	SS1A3-10A	AS	2800	PPM	LCS	13-AUG-97		EDXRF
			CD	360	PPM	LCS	13-AUG-97		EDXRF
			CR	95	PPM	LCS	13-AUG-97		EDXRF
			CU	7900	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	19000	PPM	LCS	13-AUG-97		EDXRF

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L971680-35	15-JUL-97	SS1A3-10A	SE	77	PPM	LCS	13-AUG-97		EDXRF
			ZN	4100	PPM	LCS	13-AUG-97		EDXRF
L971680-36	15-JUL-97	SS1A3-10A2	AS	3300	PPM	LCS	13-AUG-97		EDXRF
			CD	410	PPM	LCS	13-AUG-97		EDXRF
			CR	57	PPM	LCS	13-AUG-97		EDXRF
			CU	8900	PPM	LCS	13-AUG-97		EDXRF
			FE	1.6	%	LCS	13-AUG-97		EDXRF
			PB	22000	PPM	LCS	13-AUG-97		EDXRF
			SE	75	PPM	LCS	13-AUG-97		EDXRF
			ZN	4400	PPM	LCS	13-AUG-97		EDXRF
L971680-37	15-JUL-97	SS1A3-10B	AS	980	PPM	LCS	13-AUG-97		EDXRF
			CD	680	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	4700	PPM	LCS	13-AUG-97		EDXRF
			FE	12	%	LCS	13-AUG-97		EDXRF
			PB	25000	PPM	LCS	13-AUG-97		EDXRF
			SE	46	PPM	LCS	13-AUG-97		EDXRF
			ZN	15000	PPM	LCS	13-AUG-97		EDXRF
L971680-38	14-JUL-97	SS1H5-15A	AS	86	PPM	LCS	13-AUG-97		EDXRF
			CD	20	PPM	LCS	13-AUG-97		EDXRF
			CR	74	PPM	LCS	13-AUG-97		EDXRF
			CU	2800	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	420	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	900	PPM	LCS	13-AUG-97		EDXRF
L971680-39	14-JUL-97	SS1H5-15A2	AS	70	PPM	LCS	13-AUG-97		EDXRF
			CD	19	PPM	LCS	13-AUG-97		EDXRF
			CR	64	PPM	LCS	13-AUG-97		EDXRF
			CU	2400	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	420	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	760	PPM	LCS	13-AUG-97		EDXRF

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L971680-40	14-JUL-97	SS1H5-15B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	32	PPM	LCS	13-AUG-97		EDXRF
			CU	39	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	34	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	59	PPM	LCS	13-AUG-97		EDXRF
L971680-41	14-JUL-97	SS1H5-15B2	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	100	PPM	LCS	13-AUG-97		EDXRF
			CU	20	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	38	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	27	PPM	LCS	13-AUG-97		EDXRF
L971680-42	14-JUL-97	SS1A5-16A	AS	27	PPM	LCS	13-AUG-97		EDXRF
			CD	24	PPM	LCS	13-AUG-97		EDXRF
			CR	89	PPM	LCS	13-AUG-97		EDXRF
			CU	1000	PPM	LCS	13-AUG-97		EDXRF
			FE	3.2	%	LCS	13-AUG-97		EDXRF
			PB	610	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	650	PPM	LCS	13-AUG-97		EDXRF
L971680-43	14-JUL-97	SS1A5-16A2	AS	68	PPM	LCS	13-AUG-97		EDXRF
			CD	40	PPM	LCS	13-AUG-97		EDXRF
			CR	74	PPM	LCS	13-AUG-97		EDXRF
			CU	1400	PPM	LCS	13-AUG-97		EDXRF
			FE	3.3	%	LCS	13-AUG-97		EDXRF
			PB	830	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1000	PPM	LCS	13-AUG-97		EDXRF
L971680-44	14-JUL-97	SS1A5-16B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF

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L971680-44	14-JUL-97	SS1A5-16B	CU	200	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	150	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	190	PPM	LCS	13-AUG-97		EDXRF
L971680-45	14-JUL-97	SS1A5-16B2	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	51	PPM	LCS	13-AUG-97		EDXRF
			CU	140	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	140	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	140	PPM	LCS	13-AUG-97		EDXRF
L971680-46	14-JUL-97	SS1A5-17A	AS	83	PPM	LCS	13-AUG-97		EDXRF
			CD	85	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	1800	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	1100	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1400	PPM	LCS	13-AUG-97		EDXRF
L971680-47	14-JUL-97	SS1A5-17B	AS	24	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	150	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	140	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	150	PPM	LCS	13-AUG-97		EDXRF
L971680-48	14-JUL-97	SS1A5-18A	AS	26	PPM	LCS	13-AUG-97		EDXRF
			CD	11	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	1200	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	200	PPM	LCS	13-AUG-97		EDXRF

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L971680-48	14-JUL-97	SS1A5-18A	SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	430	PPM	LCS	13-AUG-97		EDXRF
L971680-49	14-JUL-97	SS1A5-18B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	27	PPM	LCS	13-AUG-97		EDXRF
			FE	1.6	%	LCS	13-AUG-97		EDXRF
			PB	15	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	28	PPM	LCS	13-AUG-97		EDXRF
L971680-50	14-JUL-97	SS1A5-19A	AS	160	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	39	PPM	LCS	13-AUG-97		EDXRF
			CU	3400	PPM	LCS	13-AUG-97		EDXRF
			FE	2.8	%	LCS	13-AUG-97		EDXRF
			PB	2400	PPM	LCS	13-AUG-97		EDXRF
			SE	18	PPM	LCS	13-AUG-97		EDXRF
			ZN	3300	PPM	LCS	13-AUG-97		EDXRF
L971680-51	14-JUL-97	SS1A5-19B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	29	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	370	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	310	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	430	PPM	LCS	13-AUG-97		EDXRF
L971680-52	16-JUL-97	SS1A8-1A	AS	240	PPM	LCS	13-AUG-97		EDXRF
			CD	33	PPM	LCS	13-AUG-97		EDXRF
			CR	58	PPM	LCS	13-AUG-97		EDXRF
			CU	140	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	44	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	470	PPM	LCS	13-AUG-97		EDXRF

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L971680-53	16-JUL-97	SS1A8-1B	AS	2100	PPM	LCS	13-AUG-97		EDXRF
			CD	400	PPM	LCS	13-AUG-97		EDXRF
			CR	120	PPM	LCS	13-AUG-97		EDXRF
			CU	4300	PPM	LCS	13-AUG-97		EDXRF
			FE	8.6	%	LCS	13-AUG-97		EDXRF
			PB	1500	PPM	LCS	13-AUG-97		EDXRF
			SE	26	PPM	LCS	13-AUG-97		EDXRF
			ZN	8100	PPM	LCS	13-AUG-97		EDXRF
L971680-54	16-JUL-97	SS1A8-2A	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	35	PPM	LCS	13-AUG-97		EDXRF
			CR	58	PPM	LCS	13-AUG-97		EDXRF
			CU	440	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	240	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	510	PPM	LCS	13-AUG-97		EDXRF
L971680-55	16-JUL-97	SS1A8-2B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	11	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	530	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	500	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	340	PPM	LCS	13-AUG-97		EDXRF
L971680-56	16-JUL-97	SS1A8-3A	AS	2700	PPM	LCS	13-AUG-97		EDXRF
			CD	660	PPM	LCS	13-AUG-97		EDXRF
			CR	130	PPM	LCS	13-AUG-97		EDXRF
			CU	1400	PPM	LCS	13-AUG-97		EDXRF
			FE	3.4	%	LCS	13-AUG-97		EDXRF
			PB	420	PPM	LCS	13-AUG-97		EDXRF
			SE	66	PPM	LCS	13-AUG-97		EDXRF
			ZN	4600	PPM	LCS	13-AUG-97		EDXRF
L971680-57	16-JUL-97	SS1A8-3B	AS	170	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	56	PPM	LCS	13-AUG-97		EDXRF

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L971680-57	16-JUL-97	SS1A8-3B	CU	1100	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	1000	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1800	PPM	LCS	13-AUG-97		EDXRF
L971680-58	16-JUL-97	SS1A8-4A	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	660	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	120	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	150	PPM	LCS	13-AUG-97		EDXRF
L971680-59	16-JUL-97	SS1A8-4B	AS	3700	PPM	LCS	13-AUG-97		EDXRF
			CD	980	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	20000	PPM	LCS	13-AUG-97		EDXRF
			FE	6.1	%	LCS	13-AUG-97		EDXRF
			PB	43000	PPM	LCS	13-AUG-97		EDXRF
			SE	57	PPM	LCS	13-AUG-97		EDXRF
			ZN	21000	PPM	LCS	13-AUG-97		EDXRF
L971680-60	16-JUL-97	SS1A8-5A	AS	53	PPM	LCS	13-AUG-97		EDXRF
			CD	130	PPM	LCS	13-AUG-97		EDXRF
			CR	110	PPM	LCS	13-AUG-97		EDXRF
			CU	1500	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	180	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	2300	PPM	LCS	13-AUG-97		EDXRF
L971680-61	16-JUL-97	SS1A8-5B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	170	PPM	LCS	13-AUG-97		EDXRF
			FE	1.6	%	LCS	13-AUG-97		EDXRF
			PB	130	PPM	LCS	13-AUG-97		EDXRF

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L971680-61	16-JUL-97	SS1A8-5B	SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	350	PPM	LCS	13-AUG-97		EDXRF
L971680-62	16-JUL-97	SS1A8-6A	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	23	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	400	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	690	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	370	PPM	LCS	13-AUG-97		EDXRF
L971680-63	16-JUL-97	SS1A8-6A2	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	13	PPM	LCS	13-AUG-97		EDXRF
			CR	140	PPM	LCS	13-AUG-97		EDXRF
			CU	390	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	680	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	330	PPM	LCS	13-AUG-97		EDXRF
L971680-64	16-JUL-97	SS1A8-6B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	47	PPM	LCS	13-AUG-97		EDXRF
			CR	94	PPM	LCS	13-AUG-97		EDXRF
			CU	520	PPM	LCS	13-AUG-97		EDXRF
			FE	1.9	%	LCS	13-AUG-97		EDXRF
			PB	1000	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	470	PPM	LCS	13-AUG-97		EDXRF
L971680-65	16-JUL-97	SS1A8-7A	AS	51	PPM	LCS	13-AUG-97		EDXRF
			CD	96	PPM	LCS	13-AUG-97		EDXRF
			CR	59	PPM	LCS	13-AUG-97		EDXRF
			CU	980	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	520	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1100	PPM	LCS	13-AUG-97		EDXRF

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L971680-66	16-JUL-97	SS1A8-7B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	22	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	250	PPM	LCS	13-AUG-97		EDXRF
			FE	1.6	%	LCS	13-AUG-97		EDXRF
			PB	300	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	220	PPM	LCS	13-AUG-97		EDXRF
L971680-67	16-JUL-97	SS1A8-8A	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	96	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	830	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	770	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1200	PPM	LCS	13-AUG-97		EDXRF
L971680-68	16-JUL-97	SS1A8-8B	AS	39	PPM	LCS	13-AUG-97		EDXRF
			CD	31	PPM	LCS	13-AUG-97		EDXRF
			CR	44	PPM	LCS	13-AUG-97		EDXRF
			CU	1500	PPM	LCS	13-AUG-97		EDXRF
			FE	2.1	%	LCS	13-AUG-97		EDXRF
			PB	1400	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1100	PPM	LCS	13-AUG-97		EDXRF
L971680-69	16-JUL-97	SS1A8-9A	AS	1000	PPM	LCS	13-AUG-97		EDXRF
			CD	310	PPM	LCS	13-AUG-97		EDXRF
			CR	120	PPM	LCS	13-AUG-97		EDXRF
			CU	22000	PPM	LCS	13-AUG-97		EDXRF
			FE	5.4	%	LCS	13-AUG-97		EDXRF
			PB	8900	PPM	LCS	13-AUG-97		EDXRF
			SE	35	PPM	LCS	13-AUG-97		EDXRF
			ZN	8000	PPM	LCS	13-AUG-97		EDXRF
L971680-70	16-JUL-97	SS1A8-9B	AS	530	PPM	LCS	13-AUG-97		EDXRF
			CD	270	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-70	16-JUL-97	SS1A8-9B	CU	7300	PPM	LCS	13-AUG-97		EDXRF
			FE	3.0	%	LCS	13-AUG-97		EDXRF
			PB	11000	PPM	LCS	13-AUG-97		EDXRF
			SE	37	PPM	LCS	13-AUG-97		EDXRF
			ZN	5100	PPM	LCS	13-AUG-97		EDXRF
L971680-71	17-JUL-97	SSENT1-1A	AS	470	PPM	LCS	13-AUG-97		EDXRF
			CD	75	PPM	LCS	13-AUG-97		EDXRF
			CR	69	PPM	LCS	13-AUG-97		EDXRF
			CU	9800	PPM	LCS	13-AUG-97		EDXRF
			FE	5.6	%	LCS	13-AUG-97		EDXRF
			PB	5700	PPM	LCS	13-AUG-97		EDXRF
			SE	15	PPM	LCS	13-AUG-97		EDXRF
			ZN	5700	PPM	LCS	13-AUG-97		EDXRF
L971680-72	17-JUL-97	SSENT1-B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	43	PPM	LCS	13-AUG-97		EDXRF
			CU	230	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	300	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	210	PPM	LCS	13-AUG-97		EDXRF
L971680-73	17-JUL-97	SSENT2-A	AS	340	PPM	LCS	13-AUG-97		EDXRF
			CD	100	PPM	LCS	13-AUG-97		EDXRF
			CR	180	PPM	LCS	13-AUG-97		EDXRF
			CU	8400	PPM	LCS	13-AUG-97		EDXRF
			FE	3.4	%	LCS	13-AUG-97		EDXRF
			PB	3300	PPM	LCS	13-AUG-97		EDXRF
			SE	15	PPM	LCS	13-AUG-97		EDXRF
			ZN	3600	PPM	LCS	13-AUG-97		EDXRF
L971680-74	17-JUL-97	SSENT2-B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	60	PPM	LCS	13-AUG-97		EDXRF
			CU	400	PPM	LCS	13-AUG-97		EDXRF
			FE	2.4	%	LCS	13-AUG-97		EDXRF
			PB	330	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-74	17-JUL-97	SSENT2-B	SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	210	PPM	LCS	13-AUG-97		EDXRF
L971680-75	17-JUL-97	SSENT3-A	AS	340	PPM	LCS	13-AUG-97		EDXRF
			CD	99	PPM	LCS	13-AUG-97		EDXRF
			CR	130	PPM	LCS	13-AUG-97		EDXRF
			CU	8100	PPM	LCS	13-AUG-97		EDXRF
			FE	2.7	%	LCS	13-AUG-97		EDXRF
			PB	2800	PPM	LCS	13-AUG-97		EDXRF
			SE	18	PPM	LCS	13-AUG-97		EDXRF
			ZN	3000	PPM	LCS	13-AUG-97		EDXRF
L971680-76	17-JUL-97	SSENT3-B	AS	34	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	110	PPM	LCS	13-AUG-97		EDXRF
			CU	170	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	160	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	160	PPM	LCS	13-AUG-97		EDXRF
L971680-77	17-JUL-97	SSENT4-A	AS	190	PPM	LCS	13-AUG-97		EDXRF
			CD	80	PPM	LCS	13-AUG-97		EDXRF
			CR	66	PPM	LCS	13-AUG-97		EDXRF
			CU	4000	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	1800	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1500	PPM	LCS	13-AUG-97		EDXRF
L971680-78	17-JUL-97	SSENT4-B	AS	35	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	64	PPM	LCS	13-AUG-97		EDXRF
			CU	49	PPM	LCS	13-AUG-97		EDXRF
			FE	2.6	%	LCS	13-AUG-97		EDXRF
			PB	37	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	69	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-79	17-JUL-97	SSENT5-A	AS	750	PPM	LCS	13-AUG-97		EDXRF
			CD	160	PPM	LCS	13-AUG-97		EDXRF
			CR	200	PPM	LCS	13-AUG-97		EDXRF
			CU	12000	PPM	LCS	13-AUG-97		EDXRF
			FE	3.1	%	LCS	13-AUG-97		EDXRF
			PB	5400	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	3600	PPM	LCS	13-AUG-97		EDXRF
L971680-80	17-JUL-97	SSENT5-B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	12	PPM	LCS	13-AUG-97		EDXRF
			CR	90	PPM	LCS	13-AUG-97		EDXRF
			CU	300	PPM	LCS	13-AUG-97		EDXRF
			FE	2.2	%	LCS	13-AUG-97		EDXRF
			PB	280	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	180	PPM	LCS	13-AUG-97		EDXRF
L971680-81	17-JUL-97	SSENT5-B2	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	300	PPM	LCS	13-AUG-97		EDXRF
			FE	2.2	%	LCS	13-AUG-97		EDXRF
			PB	210	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	170	PPM	LCS	13-AUG-97		EDXRF
L971680-82	17-JUL-97	SSENT6-A	AS	380	PPM	LCS	13-AUG-97		EDXRF
			CD	100	PPM	LCS	13-AUG-97		EDXRF
			CR	73	PPM	LCS	13-AUG-97		EDXRF
			CU	5500	PPM	LCS	13-AUG-97		EDXRF
			FE	2.6	%	LCS	13-AUG-97		EDXRF
			PB	3800	PPM	LCS	13-AUG-97		EDXRF
			SE	16	PPM	LCS	13-AUG-97		EDXRF
			ZN	2500	PPM	LCS	13-AUG-97		EDXRF
L971680-83	17-JUL-97	SSENT6-B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	34	PPM	LCS	13-AUG-97		EDXRF
			CR	47	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-83	17-JUL-97	SSENT6-B	CU	1800	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	2200	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1500	PPM	LCS	13-AUG-97		EDXRF
L971680-84	17-JUL-97	SSENT7-A	AS	250	PPM	LCS	13-AUG-97		EDXRF
			CD	93	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	8300	PPM	LCS	13-AUG-97		EDXRF
			FE	2.8	%	LCS	13-AUG-97		EDXRF
			PB	2800	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	2400	PPM	LCS	13-AUG-97		EDXRF
L971680-85	17-JUL-97	SSENT7-B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	100	PPM	LCS	13-AUG-97		EDXRF
			CU	33	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	30	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	41	PPM	LCS	13-AUG-97		EDXRF
L971680-86	17-JUL-97	SSENT8-A	AS	520	PPM	LCS	13-AUG-97		EDXRF
			CD	120	PPM	LCS	13-AUG-97		EDXRF
			CR	88	PPM	LCS	13-AUG-97		EDXRF
			CU	5700	PPM	LCS	13-AUG-97		EDXRF
			FE	2.6	%	LCS	13-AUG-97		EDXRF
			PB	3000	PPM	LCS	13-AUG-97		EDXRF
			SE	11	PPM	LCS	13-AUG-97		EDXRF
			ZN	2100	PPM	LCS	13-AUG-97		EDXRF
L971680-87	17-JUL-97	SSENT8-A2	AS	450	PPM	LCS	13-AUG-97		EDXRF
			CD	120	PPM	LCS	13-AUG-97		EDXRF
			CR	170	PPM	LCS	13-AUG-97		EDXRF
			CU	5800	PPM	LCS	13-AUG-97		EDXRF
			FE	2.6	%	LCS	13-AUG-97		EDXRF
			PB	2800	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-87	17-JUL-97	SSENT8-A2	SE	11	PPM	LCS	13-AUG-97		EDXRF
			ZN	2000	PPM	LCS	13-AUG-97		EDXRF
L971680-88	17-JUL-97	SSENT8-B	AS	710	PPM	LCS	13-AUG-97		EDXRF
			CD	250	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	1400	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	1300	PPM	LCS	13-AUG-97		EDXRF
			SE	12	PPM	LCS	13-AUG-97		EDXRF
			ZN	910	PPM	LCS	13-AUG-97		EDXRF

Approved

MAA

Reviewer

ASARCO TECHNICAL SERVICES CENTER

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El Paso

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Batch No: L971470

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971470-1		EP-76B2	AS	380	PPM	LCS	13-AUG-97		EDXRF
			CD	16	PPM	LCS	13-AUG-97		EDXRF
			CR	380	PPM	LCS	13-AUG-97		EDXRF
			CU	5000	PPM	LCS	13-AUG-97		EDXRF
			FE	15	%	LCS	13-AUG-97		EDXRF
			PB	3500	PPM	LCS	13-AUG-97		EDXRF
			SE	83	PPM	LCS	13-AUG-97		EDXRF
			ZN	11	%	LCS	13-AUG-97		EDXRF

Approved

Reviewer

ASARCO

Aug. 18, 1997

Mr. Lairy Johnson
Hydrometrics
El Paso

Please find attached the X-ray results for your El Paso soil samples received on the 28th of July 1997. Also attached are the Q C results for this set. An amended report will follow containing pH values.

If you have any questions pertaining to the data please feel free to call.

Lee Stone

Lee Stone
Senior Analytical
Chemist

cc: CRStanga (w\attach)
JVanek "

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

Q C FOR ELPASO SOILS L971715

CCV 30651-58

	PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
GIVEN		12	420		18	8062		27400
FOUND	451	19	290	1037	15	7413	15	28182
	467	17	348	984	15	7412	16	28309
	482	23	410	1032	15	7420	7	28217
	436	26	371	1009	15	7461	19	28532
	357	15	385	1027	15	7528	27	28293

LCS BRS2704

GIVEN	23.4	3.45	135	98.6	4.4	161		438
FOUND	<20	<10	139	128	4.4	196	<10	491
	<20	<10	123	120	4.4	201	<10	463

LCS SO-1

GIVEN			160	61	6	21		146
FOUND	<20	<10	99	51	6.2	26	<10	160
	<20	<10	77	91	6.2	18	<10	160

DUPLICATES

L971715-20	<20	110	77	3748	2.1	3596	<10	2574
DUP715-20	<20	99	<30	3868	2.1	3682	<10	2640
%DIFF		11		3	0	2		3
L971715-40	3314	1322	103	11705	4.9	18885	53	18976
DUP715-40	3363	1302	33	11300	4.8	18385	61	18719
%DIFF	1	2	103	4	2	3	14	1

CCV 30651-58

	As	Cd	Cr	CU	Fe	Pb	Se	Zn
Given		12PPM	420PPM		18%	8062PPM		27400PPM
% Recov.		158	69		83	92		103
		142	83		83	92		103
		192	98		83	92		103
		217	88		83	93		104
		125	92		83	93		103

LCS BRS2704

GIVEN	23.4PPM	3.45PPM	135PPM	98.6PPM	4.40%	161PPM		438PPM
% RECOV			103	130	100	122		112
			91	122	100	125		106

LCS SO-1

GIVEN			160PPM	61PPM	6%	21PPM		146PPM
% RECOV			62	84	103	124		110
			48	149	103	86		110

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-1	17-JUL-97	SS1A8-10A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	13	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			FE	1.0	%	LCS	15-AUG-97		EDXRF
			PB	68	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	130	PPM	LCS	15-AUG-97		EDXRF
L971715-2	17-JUL-97	SS1A8-10B	AS	53	PPM	LCS	15-AUG-97		EDXRF
			CD	66	PPM	LCS	15-AUG-97		EDXRF
			CR	90	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	1400	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	890	PPM	LCS	15-AUG-97		EDXRF
L971715-3	17-JUL-97	SS1A8-11A	AS	910	PPM	LCS	15-AUG-97		EDXRF
			CD	430	PPM	LCS	15-AUG-97		EDXRF
			CR	33	PPM	LCS	15-AUG-97		EDXRF
			FE	2.4	%	LCS	15-AUG-97		EDXRF
			PB	3200	PPM	LCS	15-AUG-97		EDXRF
			SE	31	PPM	LCS	15-AUG-97		EDXRF
			ZN	6300	PPM	LCS	15-AUG-97		EDXRF
L971715-4	17-JUL-97	SS1A8-11B	AS	62	PPM	LCS	15-AUG-97		EDXRF
			CD	86	PPM	LCS	15-AUG-97		EDXRF
			CR	31	PPM	LCS	15-AUG-97		EDXRF
			FE	1.1	%	LCS	15-AUG-97		EDXRF
			PB	3700	PPM	LCS	15-AUG-97		EDXRF
			SE	10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1100	PPM	LCS	15-AUG-97		EDXRF
L971715-5	17-JUL-97	SS1A8-12A	AS	150	PPM	LCS	15-AUG-97		EDXRF
			CD	78	PPM	LCS	15-AUG-97		EDXRF
			CR	36	PPM	LCS	15-AUG-97		EDXRF
			FE	1.7	%	LCS	15-AUG-97		EDXRF
			PB	3600	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2300	PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-6	17-JUL-97	SS1A8-12B	AS	480	PPM	LCS	15-AUG-97		EDXRF
			CD	78	PPM	LCS	15-AUG-97		EDXRF
			CR	66	PPM	LCS	15-AUG-97		EDXRF
			FE	3.2	%	LCS	15-AUG-97		EDXRF
			PB	4900	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2400	PPM	LCS	15-AUG-97		EDXRF
L971715-7	17-JUL-97	SS1A8-13A	AS	33	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	230	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	250	PPM	LCS	15-AUG-97		EDXRF
L971715-8	17-JUL-97	SS1A8-13B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	49	PPM	LCS	15-AUG-97		EDXRF
			CR	72	PPM	LCS	15-AUG-97		EDXRF
			FE	2.6	%	LCS	15-AUG-97		EDXRF
			PB	3100	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2000	PPM	LCS	15-AUG-97		EDXRF
L971715-9	17-JUL-97	SS1A8-14A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	55	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	83	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	93	PPM	LCS	15-AUG-97		EDXRF
L971715-10	17-JUL-97	SS1A8-14A2	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			FE	1.4	%	LCS	15-AUG-97		EDXRF
			PB	73	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	75	PPM	LCS	15-AUG-97		EDXRF

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L971715-11	17-JUL-97	SS1A8-14B	AS	110	PPM	LCS	15-AUG-97		EDXRF
			CD	25	PPM	LCS	15-AUG-97		EDXRF
			CR	350	PPM	LCS	15-AUG-97		EDXRF
			FE	15	%	LCS	15-AUG-97		EDXRF
			PB	1200	PPM	LCS	15-AUG-97		EDXRF
			SE	23	PPM	LCS	15-AUG-97		EDXRF
			ZN	13000	PPM	LCS	15-AUG-97		EDXRF
L971715-12	18-JUL-97	SS1A8-15A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	11	PPM	LCS	15-AUG-97		EDXRF
			CR	45	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	160	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	370	PPM	LCS	15-AUG-97		EDXRF
L971715-13	18-JUL-97	SS1A8-15B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	14	PPM	LCS	15-AUG-97		EDXRF
			CR	31	PPM	LCS	15-AUG-97		EDXRF
			FE	1.6	%	LCS	15-AUG-97		EDXRF
			PB	900	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	480	PPM	LCS	15-AUG-97		EDXRF
L971715-14	18-JUL-97	SS1A8-16A	AS	930	PPM	LCS	15-AUG-97		EDXRF
			CD	240	PPM	LCS	15-AUG-97		EDXRF
			CR	120	PPM	LCS	15-AUG-97		EDXRF
			FE	3.1	%	LCS	15-AUG-97		EDXRF
			PB	4000	PPM	LCS	15-AUG-97		EDXRF
			SE	31	PPM	LCS	15-AUG-97		EDXRF
			ZN	5000	PPM	LCS	15-AUG-97		EDXRF
L971715-15	18-JUL-97	SS1A8-16B	AS	370	PPM	LCS	15-AUG-97		EDXRF
			CD	190	PPM	LCS	15-AUG-97		EDXRF
			CR	92	PPM	LCS	15-AUG-97		EDXRF
			FE	2.6	%	LCS	15-AUG-97		EDXRF
			PB	10000	PPM	LCS	15-AUG-97		EDXRF
			SE	27	PPM	LCS	15-AUG-97		EDXRF
			ZN	4000	PPM	LCS	15-AUG-97		EDXRF

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L971715-16	18-JUL-97	SS1A8-17A	AS	98	PPM	LCS	15-AUG-97		EDXRF
			CD	29	PPM	LCS	15-AUG-97		EDXRF
			CR	30	PPM	LCS	15-AUG-97		EDXRF
			FE	1.5	%	LCS	15-AUG-97		EDXRF
			PB	470	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	680	PPM	LCS	15-AUG-97		EDXRF
L971715-17	18-JUL-97	SS1A8-17B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	59	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	380	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	440	PPM	LCS	15-AUG-97		EDXRF
L971715-18	18-JUL-97	SS1A8-18A	AS	260	PPM	LCS	15-AUG-97		EDXRF
			CD	100	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	300	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	790	PPM	LCS	15-AUG-97		EDXRF
L971715-19	18-JUL-97	SS1A8-18A2	AS	280	PPM	LCS	15-AUG-97		EDXRF
			CD	100	PPM	LCS	15-AUG-97		EDXRF
			CR	87	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	240	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	840	PPM	LCS	15-AUG-97		EDXRF
L971715-20	18-JUL-97	SS1A8-18B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	99	PPM	LCS	15-AUG-97		EDXRF
			CR	77	PPM	LCS	15-AUG-97		EDXRF
			FE	2.1	%	LCS	15-AUG-97		EDXRF
			PB	3600	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2600	PPM	LCS	15-AUG-97		EDXRF

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L971715-21	18-JUL-97	SS1A8-19A	AS	44	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	76	PPM	LCS	15-AUG-97		EDXRF
			FE	1.5	%	LCS	15-AUG-97		EDXRF
			PB	350	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	280	PPM	LCS	15-AUG-97		EDXRF
L971715-22	18-JUL-97	SS1A8-19B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	48	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	560	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	470	PPM	LCS	15-AUG-97		EDXRF
L971715-23	18-JUL-97	SS1A8-20A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	64	PPM	LCS	15-AUG-97		EDXRF
			FE	1.2	%	LCS	15-AUG-97		EDXRF
			PB	95	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	130	PPM	LCS	15-AUG-97		EDXRF
L971715-24	18-JUL-97	SS1A8-20B	AS	330	PPM	LCS	15-AUG-97		EDXRF
			CD	89	PPM	LCS	15-AUG-97		EDXRF
			CR	230	PPM	LCS	15-AUG-97		EDXRF
			FE	12	%	LCS	15-AUG-97		EDXRF
			PB	3900	PPM	LCS	15-AUG-97		EDXRF
			SE	38	PPM	LCS	15-AUG-97		EDXRF
			ZN	15000	PPM	LCS	15-AUG-97		EDXRF
L971715-25	18-JUL-97	SS1A8-21A	AS	460	PPM	LCS	15-AUG-97		EDXRF
			CD	300	PPM	LCS	15-AUG-97		EDXRF
			CR	59	PPM	LCS	15-AUG-97		EDXRF
			FE	2.0	%	LCS	15-AUG-97		EDXRF
			PB	1400	PPM	LCS	15-AUG-97		EDXRF
			SE	21	PPM	LCS	15-AUG-97		EDXRF
			ZN	5900	PPM	LCS	15-AUG-97		EDXRF

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L971715-26	18-JUL-97	SS1A8-21B	AS	780	PPM	LCS	15-AUG-97		EDXRF
			CD	110	PPM	LCS	15-AUG-97		EDXRF
			CR	100	PPM	LCS	15-AUG-97		EDXRF
			FE	2.7	%	LCS	15-AUG-97		EDXRF
			PB	2900	PPM	LCS	15-AUG-97		EDXRF
			SE	15	PPM	LCS	15-AUG-97		EDXRF
			ZN	3200	PPM	LCS	15-AUG-97		EDXRF
L971715-27	18-JUL-97	SS1A8-22A	AS	6600	PPM	LCS	15-AUG-97		EDXRF
			CD	1400	PPM	LCS	15-AUG-97		EDXRF
			CR	110	PPM	LCS	15-AUG-97		EDXRF
			FE	5.6	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			SE	53	PPM	LCS	15-AUG-97		EDXRF
			ZN	7600	PPM	LCS	15-AUG-97		EDXRF
L971715-28	18-JUL-97	SS1A8-22B	AS	2600	PPM	LCS	15-AUG-97		EDXRF
			CD	600	PPM	LCS	15-AUG-97		EDXRF
			CR	45	PPM	LCS	15-AUG-97		EDXRF
			FE	2.4	%	LCS	15-AUG-97		EDXRF
			PB	1500	PPM	LCS	15-AUG-97		EDXRF
			SE	24	PPM	LCS	15-AUG-97		EDXRF
			ZN	2300	PPM	LCS	15-AUG-97		EDXRF
L971715-29	18-JUL-97	SS1A8-23A	AS	140	PPM	LCS	15-AUG-97		EDXRF
			CD	29	PPM	LCS	15-AUG-97		EDXRF
			CR	97	PPM	LCS	15-AUG-97		EDXRF
			FE	1.2	%	LCS	15-AUG-97		EDXRF
			PB	590	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1500	PPM	LCS	15-AUG-97		EDXRF
L971715-30	18-JUL-97	SS1A8-23B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	21	PPM	LCS	15-AUG-97		EDXRF
			CR	65	PPM	LCS	15-AUG-97		EDXRF
			FE	1.5	%	LCS	15-AUG-97		EDXRF
			PB	490	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	420	PPM	LCS	15-AUG-97		EDXRF

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L971715-31	18-JUL-97	SS1A8-24A	AS	110	PPM	LCS	15-AUG-97		EDXRF
			CD	21	PPM	LCS	15-AUG-97		EDXRF
			CR	100	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	550	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1000	PPM	LCS	15-AUG-97		EDXRF
L971715-32	18-JUL-97	SS1A8-24B	AS	44	PPM	LCS	15-AUG-97		EDXRF
			CD	190	PPM	LCS	15-AUG-97		EDXRF
			CR	88	PPM	LCS	15-AUG-97		EDXRF
			FE	3.0	%	LCS	15-AUG-97		EDXRF
			PB	850	PPM	LCS	15-AUG-97		EDXRF
			SE	19	PPM	LCS	15-AUG-97		EDXRF
			ZN	2100	PPM	LCS	15-AUG-97		EDXRF
L971715-33	18-JUL-97	SS1A8-25A	AS	4400	PPM	LCS	15-AUG-97		EDXRF
			CD	910	PPM	LCS	15-AUG-97		EDXRF
			CR	170	PPM	LCS	15-AUG-97		EDXRF
			FE	5.9	%	LCS	15-AUG-97		EDXRF
			PB	20000	PPM	LCS	15-AUG-97		EDXRF
			SE	180	PPM	LCS	15-AUG-97		EDXRF
			ZN	16000	PPM	LCS	15-AUG-97		EDXRF
L971715-34	18-JUL-97	SS1A8-25B	AS	900	PPM	LCS	15-AUG-97		EDXRF
			CD	120	PPM	LCS	15-AUG-97		EDXRF
			CR	99	PPM	LCS	15-AUG-97		EDXRF
			FE	14	%	LCS	15-AUG-97		EDXRF
			PB	3600	PPM	LCS	15-AUG-97		EDXRF
			SE	31	PPM	LCS	15-AUG-97		EDXRF
			ZN	19000	PPM	LCS	15-AUG-97		EDXRF
L971715-35	18-JUL-97	SS1A8-26A	AS	2900	PPM	LCS	15-AUG-97		EDXRF
			CD	520	PPM	LCS	15-AUG-97		EDXRF
			CR	85	PPM	LCS	15-AUG-97		EDXRF
			FE	11	%	LCS	15-AUG-97		EDXRF
			PB	25000	PPM	LCS	15-AUG-97		EDXRF
			SE	94	PPM	LCS	15-AUG-97		EDXRF
			ZN	12000	PPM	LCS	15-AUG-97		EDXRF

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L971715-36	18-JUL-97	SS1A8-26B	AS	290	PPM	LCS	15-AUG-97		EDXRF
			CD	410	PPM	LCS	15-AUG-97		EDXRF
			CR	120	PPM	LCS	15-AUG-97		EDXRF
			FE	16	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			SE	10	PPM	LCS	15-AUG-97		EDXRF
			ZN	33000	PPM	LCS	15-AUG-97		EDXRF
L971715-37	18-JUL-97	SS1A8-27A	AS	3300	PPM	LCS	15-AUG-97		EDXRF
			CD	380	PPM	LCS	15-AUG-97		EDXRF
			CR	290	PPM	LCS	15-AUG-97		EDXRF
			FE	7.0	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			SE	98	PPM	LCS	15-AUG-97		EDXRF
			ZN	11000	PPM	LCS	15-AUG-97		EDXRF
L971715-38	18-JUL-97	SS1A8-27B	AS	240	PPM	LCS	15-AUG-97		EDXRF
			CD	33	PPM	LCS	15-AUG-97		EDXRF
			CR	31	PPM	LCS	15-AUG-97		EDXRF
			FE	2.0	%	LCS	15-AUG-97		EDXRF
			PB	790	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1200	PPM	LCS	15-AUG-97		EDXRF
L971715-39	18-JUL-97	SS1A8-28A	AS	4400	PPM	LCS	15-AUG-97		EDXRF
			CD	1800	PPM	LCS	15-AUG-97		EDXRF
			CR	210	PPM	LCS	15-AUG-97		EDXRF
			FE	3.3	%	LCS	15-AUG-97		EDXRF
			PB	7300	PPM	LCS	15-AUG-97		EDXRF
			SE	39	PPM	LCS	15-AUG-97		EDXRF
			ZN	6100	PPM	LCS	15-AUG-97		EDXRF
L971715-40	18-JUL-97	SS1A8-28B	AS	3300	PPM	LCS	15-AUG-97		EDXRF
			CD	1300	PPM	LCS	15-AUG-97		EDXRF
			CR	100	PPM	LCS	15-AUG-97		EDXRF
			FE	4.9	%	LCS	15-AUG-97		EDXRF
			PB	19000	PPM	LCS	15-AUG-97		EDXRF
			SE	53	PPM	LCS	15-AUG-97		EDXRF
			ZN	19000	PPM	LCS	15-AUG-97		EDXRF

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L971715-41	18-JUL-97	SS1A8-29A	AS	2900	PPM	LCS	15-AUG-97		EDXRF
			CD	470	PPM	LCS	15-AUG-97		EDXRF
			CR	520	PPM	LCS	15-AUG-97		EDXRF
			FE	13	%	LCS	15-AUG-97		EDXRF
			PB	9700	PPM	LCS	15-AUG-97		EDXRF
			SE	160	PPM	LCS	15-AUG-97		EDXRF
			ZN	16000	PPM	LCS	15-AUG-97		EDXRF
L971715-42	18-JUL-97	SS1A8-29B	AS	1100	PPM	LCS	15-AUG-97		EDXRF
			CD	350	PPM	LCS	15-AUG-97		EDXRF
			CR	230	PPM	LCS	15-AUG-97		EDXRF
			FE	12	%	LCS	15-AUG-97		EDXRF
			PB	22000	PPM	LCS	15-AUG-97		EDXRF
			SE	60	PPM	LCS	15-AUG-97		EDXRF
			ZN	24000	PPM	LCS	15-AUG-97		EDXRF
L971715-43	18-JUL-97	SS1A8-30A	AS	2000	PPM	LCS	15-AUG-97		EDXRF
			CD	840	PPM	LCS	15-AUG-97		EDXRF
			CR	70	PPM	LCS	15-AUG-97		EDXRF
			FE	7.8	%	LCS	15-AUG-97		EDXRF
			PB	20000	PPM	LCS	15-AUG-97		EDXRF
			SE	73	PPM	LCS	15-AUG-97		EDXRF
			ZN	9400	PPM	LCS	15-AUG-97		EDXRF
L971715-44	18-JUL-97	SS1A8-30A2	AS	2300	PPM	LCS	15-AUG-97		EDXRF
			CD	910	PPM	LCS	15-AUG-97		EDXRF
			CR	150	PPM	LCS	15-AUG-97		EDXRF
			FE	7.2	%	LCS	15-AUG-97		EDXRF
			PB	17000	PPM	LCS	15-AUG-97		EDXRF
			SE	74	PPM	LCS	15-AUG-97		EDXRF
			ZN	11000	PPM	LCS	15-AUG-97		EDXRF
L971715-45	18-JUL-97	SS1A8-30B	AS	220	PPM	LCS	15-AUG-97		EDXRF
			CD	36	PPM	LCS	15-AUG-97		EDXRF
			CR	250	PPM	LCS	15-AUG-97		EDXRF
			FE	21	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	10000	PPM	LCS	15-AUG-97		EDXRF

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L971715-46	18-JUL-97	SS1A8-31A	AS	48	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			FE	1.4	%	LCS	15-AUG-97		EDXRF
			PB	400	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	400	PPM	LCS	15-AUG-97		EDXRF
L971715-47	18-JUL-97	SS1A8-31B	AS	94	PPM	LCS	15-AUG-97		EDXRF
			CD	280	PPM	LCS	15-AUG-97		EDXRF
			CR	80	PPM	LCS	15-AUG-97		EDXRF
			FE	2.6	%	LCS	15-AUG-97		EDXRF
			PB	9900	PPM	LCS	15-AUG-97		EDXRF
			SE	40	PPM	LCS	15-AUG-97		EDXRF
			ZN	7300	PPM	LCS	15-AUG-97		EDXRF

Approved

MAA

Reviewer

ASARCO

Aug. 28, 1997

Mr. Lairy Johnson
Hydrometrics
El Paso

RECEIVED
SEP 0 2 1997
HYDROMETRICS, INC.

Please find attached an amended report for El Paso soils, lab number L971715, received on the 28th of July 1997. This report contains copper values which were inadvertently left out of the previous report, dated August 18, 1997.

If you have any questions pertaining to the data please feel free to call.

Lee Stone

Lee Stone
Senior Analytical
Chemist

cc: GRStanga (w\attach)
JVanek "

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TEC[illegible] SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971715

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-1	17-JUL-97	SS1A8-10A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	13	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			CU	160	PPM	LCS	15-AUG-97		EDXRF
			FE	1.0	%	LCS	15-AUG-97		EDXRF
			PB	68	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	130	PPM	LCS	15-AUG-97		EDXRF
L971715-2	17-JUL-97	SS1A8-10B	AS	53	PPM	LCS	15-AUG-97		EDXRF
			CD	66	PPM	LCS	15-AUG-97		EDXRF
			CR	90	PPM	LCS	15-AUG-97		EDXRF
			CU	750	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	1400	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	890	PPM	LCS	15-AUG-97		EDXRF
L971715-3	17-JUL-97	SS1A8-11A	AS	910	PPM	LCS	15-AUG-97		EDXRF
			CD	430	PPM	LCS	15-AUG-97		EDXRF
			CR	33	PPM	LCS	15-AUG-97		EDXRF
			CU	20000	PPM	LCS	15-AUG-97		EDXRF
			FE	2.4	%	LCS	15-AUG-97		EDXRF
			PB	3200	PPM	LCS	15-AUG-97		EDXRF
			SE	31	PPM	LCS	15-AUG-97		EDXRF
			ZN	6300	PPM	LCS	15-AUG-97		EDXRF
L971715-4	17-JUL-97	SS1A8-11B	AS	62	PPM	LCS	15-AUG-97		EDXRF
			CD	86	PPM	LCS	15-AUG-97		EDXRF
			CR	31	PPM	LCS	15-AUG-97		EDXRF
			CU	2700	PPM	LCS	15-AUG-97		EDXRF
			FE	1.1	%	LCS	15-AUG-97		EDXRF
			PB	3700	PPM	LCS	15-AUG-97		EDXRF
			SE	10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1100	PPM	LCS	15-AUG-97		EDXRF
L971715-5	17-JUL-97	SS1A8-12A	AS	150	PPM	LCS	15-AUG-97		EDXRF
			CD	78	PPM	LCS	15-AUG-97		EDXRF
			CR	36	PPM	LCS	15-AUG-97		EDXRF

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L971715-5	17-JUL-97	SS1A8-12A	CU	5100	PPM	LCS	15-AUG-97		EDXRF
			FE	1.7	%	LCS	15-AUG-97		EDXRF
			PB	3600	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2300	PPM	LCS	15-AUG-97		EDXRF
L971715-6	17-JUL-97	SS1A8-12B	AS	480	PPM	LCS	15-AUG-97		EDXRF
			CD	78	PPM	LCS	15-AUG-97		EDXRF
			CR	66	PPM	LCS	15-AUG-97		EDXRF
			CU	8300	PPM	LCS	15-AUG-97		EDXRF
			FE	3.2	%	LCS	15-AUG-97		EDXRF
			PB	4900	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2400	PPM	LCS	15-AUG-97		EDXRF
L971715-7	17-JUL-97	SS1A8-13A	AS	33	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			CU	980	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	230	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	250	PPM	LCS	15-AUG-97		EDXRF
L971715-8	17-JUL-97	SS1A8-13B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	49	PPM	LCS	15-AUG-97		EDXRF
			CR	72	PPM	LCS	15-AUG-97		EDXRF
			CU	8300	PPM	LCS	15-AUG-97		EDXRF
			FE	2.6	%	LCS	15-AUG-97		EDXRF
			PB	3100	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2000	PPM	LCS	15-AUG-97		EDXRF
L971715-9	17-JUL-97	SS1A8-14A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	55	PPM	LCS	15-AUG-97		EDXRF
			CU	280	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	83	PPM	LCS	15-AUG-97		EDXRF

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L971715-14	18-JUL-97	SS1A8-16A	AS	930	PPM	LCS	15-AUG-97		EDXRF
			CD	240	PPM	LCS	15-AUG-97		EDXRF
			CR	120	PPM	LCS	15-AUG-97		EDXRF
			CU	22000	PPM	LCS	15-AUG-97		EDXRF
			FE	3.1	%	LCS	15-AUG-97		EDXRF
			PB	4000	PPM	LCS	15-AUG-97		EDXRF
			SE	31	PPM	LCS	15-AUG-97		EDXRF
			ZN	5000	PPM	LCS	15-AUG-97		EDXRF
L971715-15	18-JUL-97	SS1A8-16B	AS	370	PPM	LCS	15-AUG-97		EDXRF
			CD	190	PPM	LCS	15-AUG-97		EDXRF
			CR	92	PPM	LCS	15-AUG-97		EDXRF
			CU	9500	PPM	LCS	15-AUG-97		EDXRF
			FE	2.6	%	LCS	15-AUG-97		EDXRF
			PB	10000	PPM	LCS	15-AUG-97		EDXRF
			SE	27	PPM	LCS	15-AUG-97		EDXRF
			ZN	4000	PPM	LCS	15-AUG-97		EDXRF
L971715-16	18-JUL-97	SS1A8-17A	AS	98	PPM	LCS	15-AUG-97		EDXRF
			CD	29	PPM	LCS	15-AUG-97		EDXRF
			CR	30	PPM	LCS	15-AUG-97		EDXRF
			CU	3700	PPM	LCS	15-AUG-97		EDXRF
			FE	1.5	%	LCS	15-AUG-97		EDXRF
			PB	470	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	680	PPM	LCS	15-AUG-97		EDXRF
L971715-17	18-JUL-97	SS1A8-17B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	59	PPM	LCS	15-AUG-97		EDXRF
			CU	710	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	380	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	440	PPM	LCS	15-AUG-97		EDXRF
L971715-18	18-JUL-97	SS1A8-18A	AS	260	PPM	LCS	15-AUG-97		EDXRF
			CD	100	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF

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Batch No: L971715

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-9	17-JUL-97	SS1A8-14A							
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
L971715-10	17-JUL-97	SS1A8-14A2	ZN	93	PPM	LCS	15-AUG-97		EDXRF
			AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			CU	270	PPM	LCS	15-AUG-97		EDXRF
			FE	1.4	%	LCS	15-AUG-97		EDXRF
			PB	73	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
L971715-11	17-JUL-97	SS1A8-14B	ZN	75	PPM	LCS	15-AUG-97		EDXRF
			AS	110	PPM	LCS	15-AUG-97		EDXRF
			CD	25	PPM	LCS	15-AUG-97		EDXRF
			CR	350	PPM	LCS	15-AUG-97		EDXRF
			CU	4900	PPM	LCS	15-AUG-97		EDXRF
			FE	15	%	LCS	15-AUG-97		EDXRF
			PB	1200	PPM	LCS	15-AUG-97		EDXRF
			SE	23	PPM	LCS	15-AUG-97		EDXRF
L971715-12	18-JUL-97	SS1A8-15A	ZN	13000	PPM	LCS	15-AUG-97		EDXRF
			AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	11	PPM	LCS	15-AUG-97		EDXRF
			CR	45	PPM	LCS	15-AUG-97		EDXRF
			CU	1600	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	160	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
L971715-13	18-JUL-97	SS1A8-15B	ZN	370	PPM	LCS	15-AUG-97		EDXRF
			AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	14	PPM	LCS	15-AUG-97		EDXRF
			CR	31	PPM	LCS	15-AUG-97		EDXRF
			CU	1900	PPM	LCS	15-AUG-97		EDXRF
			FE	1.6	%	LCS	15-AUG-97		EDXRF
			PB	900	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	480	PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-18	18-JUL-97	SS1A8-18A	CU	890	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	300	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	790	PPM	LCS	15-AUG-97		EDXRF
L971715-19	18-JUL-97	SS1A8-18A2	AS	280	PPM	LCS	15-AUG-97		EDXRF
			CD	100	PPM	LCS	15-AUG-97		EDXRF
			CR	87	PPM	LCS	15-AUG-97		EDXRF
			CU	800	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	240	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	840	PPM	LCS	15-AUG-97		EDXRF
L971715-20	18-JUL-97	SS1A8-18B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	99	PPM	LCS	15-AUG-97		EDXRF
			CR	77	PPM	LCS	15-AUG-97		EDXRF
			CU	3700	PPM	LCS	15-AUG-97		EDXRF
			FE	2.1	%	LCS	15-AUG-97		EDXRF
			PB	3600	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2600	PPM	LCS	15-AUG-97		EDXRF
L971715-21	18-JUL-97	SS1A8-19A	AS	44	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	76	PPM	LCS	15-AUG-97		EDXRF
			CU	1200	PPM	LCS	15-AUG-97		EDXRF
			FE	1.5	%	LCS	15-AUG-97		EDXRF
			PB	350	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	280	PPM	LCS	15-AUG-97		EDXRF
L971715-22	18-JUL-97	SS1A8-19B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	48	PPM	LCS	15-AUG-97		EDXRF
			CU	560	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	560	PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-22	18-JUL-97	SS1A8-19B	SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	470	PPM	LCS	15-AUG-97		EDXRF
L971715-23	18-JUL-97	SS1A8-20A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	64	PPM	LCS	15-AUG-97		EDXRF
			CU	200	PPM	LCS	15-AUG-97		EDXRF
			FE	1.2	%	LCS	15-AUG-97		EDXRF
			PB	95	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	130	PPM	LCS	15-AUG-97		EDXRF
L971715-24	18-JUL-97	SS1A8-20B	AS	330	PPM	LCS	15-AUG-97		EDXRF
			CD	89	PPM	LCS	15-AUG-97		EDXRF
			CR	230	PPM	LCS	15-AUG-97		EDXRF
			CU	10000	PPM	LCS	15-AUG-97		EDXRF
			FE	12	%	LCS	15-AUG-97		EDXRF
			PB	3900	PPM	LCS	15-AUG-97		EDXRF
			SE	38	PPM	LCS	15-AUG-97		EDXRF
			ZN	15000	PPM	LCS	15-AUG-97		EDXRF
L971715-25	18-JUL-97	SS1A8-21A	AS	460	PPM	LCS	15-AUG-97		EDXRF
			CD	300	PPM	LCS	15-AUG-97		EDXRF
			CR	59	PPM	LCS	15-AUG-97		EDXRF
			CU	12000	PPM	LCS	15-AUG-97		EDXRF
			FE	2.0	%	LCS	15-AUG-97		EDXRF
			PB	1400	PPM	LCS	15-AUG-97		EDXRF
			SE	21	PPM	LCS	15-AUG-97		EDXRF
			ZN	5900	PPM	LCS	15-AUG-97		EDXRF
L971715-26	18-JUL-97	SS1A8-21B	AS	780	PPM	LCS	15-AUG-97		EDXRF
			CD	110	PPM	LCS	15-AUG-97		EDXRF
			CR	100	PPM	LCS	15-AUG-97		EDXRF
			CU	19000	PPM	LCS	15-AUG-97		EDXRF
			FE	2.7	%	LCS	15-AUG-97		EDXRF
			PB	2900	PPM	LCS	15-AUG-97		EDXRF
			SE	15	PPM	LCS	15-AUG-97		EDXRF
			ZN	3200	PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-27	18-JUL-97	SS1A8-22A	AS	6600	PPM	LCS	15-AUG-97		EDXRF
			CD	1400	PPM	LCS	15-AUG-97		EDXRF
			CR	110	PPM	LCS	15-AUG-97		EDXRF
			CU	23000	PPM	LCS	15-AUG-97		EDXRF
			FE	5.6	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			SE	53	PPM	LCS	15-AUG-97		EDXRF
			ZN	7600	PPM	LCS	15-AUG-97		EDXRF
L971715-28	18-JUL-97	SS1A8-22B	AS	2600	PPM	LCS	15-AUG-97		EDXRF
			CD	600	PPM	LCS	15-AUG-97		EDXRF
			CR	45	PPM	LCS	15-AUG-97		EDXRF
			CU	2900	PPM	LCS	15-AUG-97		EDXRF
			FE	2.4	%	LCS	15-AUG-97		EDXRF
			PB	1500	PPM	LCS	15-AUG-97		EDXRF
			SE	24	PPM	LCS	15-AUG-97		EDXRF
			ZN	2300	PPM	LCS	15-AUG-97		EDXRF
L971715-29	18-JUL-97	SS1A8-23A	AS	140	PPM	LCS	15-AUG-97		EDXRF
			CD	29	PPM	LCS	15-AUG-97		EDXRF
			CR	97	PPM	LCS	15-AUG-97		EDXRF
			CU	820	PPM	LCS	15-AUG-97		EDXRF
			FE	1.2	%	LCS	15-AUG-97		EDXRF
			PB	590	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1500	PPM	LCS	15-AUG-97		EDXRF
L971715-30	18-JUL-97	SS1A8-23B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	21	PPM	LCS	15-AUG-97		EDXRF
			CR	65	PPM	LCS	15-AUG-97		EDXRF
			CU	570	PPM	LCS	15-AUG-97		EDXRF
			FE	1.5	%	LCS	15-AUG-97		EDXRF
			PB	490	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	420	PPM	LCS	15-AUG-97		EDXRF
L971715-31	18-JUL-97	SS1A8-24A	AS	110	PPM	LCS	15-AUG-97		EDXRF
			CD	21	PPM	LCS	15-AUG-97		EDXRF
			CR	100	PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-31	18-JUL-97	SS1A8-24A	CU	2900	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	550	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1000	PPM	LCS	15-AUG-97		EDXRF
L971715-32	18-JUL-97	SS1A8-24B	AS	44	PPM	LCS	15-AUG-97		EDXRF
			CD	190	PPM	LCS	15-AUG-97		EDXRF
			CR	88	PPM	LCS	15-AUG-97		EDXRF
			CU	2000	PPM	LCS	15-AUG-97		EDXRF
			FE	3.0	%	LCS	15-AUG-97		EDXRF
			PB	850	PPM	LCS	15-AUG-97		EDXRF
			SE	19	PPM	LCS	15-AUG-97		EDXRF
			ZN	2100	PPM	LCS	15-AUG-97		EDXRF
L971715-33	18-JUL-97	SS1A8-25A	AS	4400	PPM	LCS	15-AUG-97		EDXRF
			CD	910	PPM	LCS	15-AUG-97		EDXRF
			CR	170	PPM	LCS	15-AUG-97		EDXRF
			CU	65000	PPM	LCS	15-AUG-97		EDXRF
			FE	5.9	%	LCS	15-AUG-97		EDXRF
			PB	20000	PPM	LCS	15-AUG-97		EDXRF
			SE	180	PPM	LCS	15-AUG-97		EDXRF
			ZN	16000	PPM	LCS	15-AUG-97		EDXRF
L971715-34	18-JUL-97	SS1A8-25B	AS	900	PPM	LCS	15-AUG-97		EDXRF
			CD	120	PPM	LCS	15-AUG-97		EDXRF
			CR	99	PPM	LCS	15-AUG-97		EDXRF
			CU	9800	PPM	LCS	15-AUG-97		EDXRF
			FE	14	%	LCS	15-AUG-97		EDXRF
			PB	3600	PPM	LCS	15-AUG-97		EDXRF
			SE	31	PPM	LCS	15-AUG-97		EDXRF
			ZN	19000	PPM	LCS	15-AUG-97		EDXRF
L971715-35	18-JUL-97	SS1A8-26A	AS	2900	PPM	LCS	15-AUG-97		EDXRF
			CD	520	PPM	LCS	15-AUG-97		EDXRF
			CR	85	PPM	LCS	15-AUG-97		EDXRF
			CU	11	%	LCS	15-AUG-97		EDXRF
			FE	11	%	LCS	15-AUG-97		EDXRF
			PB	25000	PPM	LCS	15-AUG-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971715

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-35	18-JUL-97	SS1A8-26A	SE	94	PPM	LCS	15-AUG-97		EDXRF
			ZN	12000	PPM	LCS	15-AUG-97		EDXRF
L971715-36	18-JUL-97	SS1A8-26B	AS	290	PPM	LCS	15-AUG-97		EDXRF
			CD	410	PPM	LCS	15-AUG-97		EDXRF
			CR	120	PPM	LCS	15-AUG-97		EDXRF
			CU	9500	PPM	LCS	15-AUG-97		EDXRF
			FE	16	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			SE	10	PPM	LCS	15-AUG-97		EDXRF
			ZN	33000	PPM	LCS	15-AUG-97		EDXRF
L971715-37	18-JUL-97	SS1A8-27A	AS	3300	PPM	LCS	15-AUG-97		EDXRF
			CD	380	PPM	LCS	15-AUG-97		EDXRF
			CR	290	PPM	LCS	15-AUG-97		EDXRF
			CU	96000	PPM	LCS	15-AUG-97		EDXRF
			FE	7.0	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			SE	98	PPM	LCS	15-AUG-97		EDXRF
			ZN	11000	PPM	LCS	15-AUG-97		EDXRF
L971715-38	18-JUL-97	SS1A8-27B	AS	240	PPM	LCS	15-AUG-97		EDXRF
			CD	33	PPM	LCS	15-AUG-97		EDXRF
			CR	31	PPM	LCS	15-AUG-97		EDXRF
			CU	8800	PPM	LCS	15-AUG-97		EDXRF
			FE	2.0	%	LCS	15-AUG-97		EDXRF
			PB	790	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1200	PPM	LCS	15-AUG-97		EDXRF
L971715-39	18-JUL-97	SS1A8-28A	AS	4400	PPM	LCS	15-AUG-97		EDXRF
			CD	1800	PPM	LCS	15-AUG-97		EDXRF
			CR	210	PPM	LCS	15-AUG-97		EDXRF
			CU	22000	PPM	LCS	15-AUG-97		EDXRF
			FE	3.3	%	LCS	15-AUG-97		EDXRF
			PB	7300	PPM	LCS	15-AUG-97		EDXRF
			SE	39	PPM	LCS	15-AUG-97		EDXRF
			ZN	6100	PPM	LCS	15-AUG-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971715

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-40	18-JUL-97	SS1A8-28B							
			AS	3300	PPM	LCS	15-AUG-97		EDXRF
			CD	1300	PPM	LCS	15-AUG-97		EDXRF
			CR	100	PPM	LCS	15-AUG-97		EDXRF
			CU	12000	PPM	LCS	15-AUG-97		EDXRF
			FE	4.9	%	LCS	15-AUG-97		EDXRF
			PB	19000	PPM	LCS	15-AUG-97		EDXRF
			SE	53	PPM	LCS	15-AUG-97		EDXRF
			ZN	19000	PPM	LCS	15-AUG-97		EDXRF
L971715-41	18-JUL-97	SS1A8-29A							
			AS	2900	PPM	LCS	15-AUG-97		EDXRF
			CD	470	PPM	LCS	15-AUG-97		EDXRF
			CR	520	PPM	LCS	15-AUG-97		EDXRF
			CU	65000	PPM	LCS	15-AUG-97		EDXRF
			FE	13	%	LCS	15-AUG-97		EDXRF
			PB	9700	PPM	LCS	15-AUG-97		EDXRF
			SE	160	PPM	LCS	15-AUG-97		EDXRF
			ZN	16000	PPM	LCS	15-AUG-97		EDXRF
L971715-42	18-JUL-97	SS1A8-29B							
			AS	1100	PPM	LCS	15-AUG-97		EDXRF
			CD	350	PPM	LCS	15-AUG-97		EDXRF
			CR	230	PPM	LCS	15-AUG-97		EDXRF
			CU	31000	PPM	LCS	15-AUG-97		EDXRF
			FE	12	%	LCS	15-AUG-97		EDXRF
			PB	22000	PPM	LCS	15-AUG-97		EDXRF
			SE	60	PPM	LCS	15-AUG-97		EDXRF
			ZN	24000	PPM	LCS	15-AUG-97		EDXRF
L971715-43	18-JUL-97	SS1A8-30A							
			AS	2000	PPM	LCS	15-AUG-97		EDXRF
			CD	840	PPM	LCS	15-AUG-97		EDXRF
			CR	70	PPM	LCS	15-AUG-97		EDXRF
			CU	19	%	LCS	15-AUG-97		EDXRF
			FE	7.8	%	LCS	15-AUG-97		EDXRF
			PB	20000	PPM	LCS	15-AUG-97		EDXRF
			SE	73	PPM	LCS	15-AUG-97		EDXRF
			ZN	9400	PPM	LCS	15-AUG-97		EDXRF
L971715-44	18-JUL-97	SS1A8-30A2							
			AS	2300	PPM	LCS	15-AUG-97		EDXRF
			CD	910	PPM	LCS	15-AUG-97		EDXRF
			CR	150	PPM	LCS	15-AUG-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971715

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-44	18-JUL-97	SS1A8-30A2							
			CU	18	%	LCS	15-AUG-97		EDXRF
			FE	7.2	%	LCS	15-AUG-97		EDXRF
			PB	17000	PPM	LCS	15-AUG-97		EDXRF
			SE	74	PPM	LCS	15-AUG-97		EDXRF
			ZN	11000	PPM	LCS	15-AUG-97		EDXRF
L971715-45	18-JUL-97	SS1A8-30B							
			AS	220	PPM	LCS	15-AUG-97		EDXRF
			CD	36	PPM	LCS	15-AUG-97		EDXRF
			CR	250	PPM	LCS	15-AUG-97		EDXRF
			CU	21000	PPM	LCS	15-AUG-97		EDXRF
			FE	21	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	10000	PPM	LCS	15-AUG-97		EDXRF
L971715-46	18-JUL-97	SS1A8-31A							
			AS	48	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			CU	400	PPM	LCS	15-AUG-97		EDXRF
			FE	1.4	%	LCS	15-AUG-97		EDXRF
			PB	400	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	400	PPM	LCS	15-AUG-97		EDXRF
L971715-47	18-JUL-97	SS1A8-31B							
			AS	94	PPM	LCS	15-AUG-97		EDXRF
			CD	280	PPM	LCS	15-AUG-97		EDXRF
			CR	80	PPM	LCS	15-AUG-97		EDXRF
			CU	6500	PPM	LCS	15-AUG-97		EDXRF
			FE	2.6	%	LCS	15-AUG-97		EDXRF
			PB	9900	PPM	LCS	15-AUG-97		EDXRF
			SE	40	PPM	LCS	15-AUG-97		EDXRF
			ZN	7300	PPM	LCS	15-AUG-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971715

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD

Approved

Reviewer

ASARCO

August 28, 1997

RECEIVED
SEP 0 2 1997
HYDROMETRICS, INC.

Mr. Lairy Johnson
El Paso Hydrometrics

Please find attached the results for the fourteen soil samples collected July 14, through 18, 1997.

The samples were received by the laboratory between July 18, and 28, 1997.

Also included is the comparison between the XRF and wet results with the relative percent differences.

Sincerely,

E. B. Kuhn
Environmental Laboratory
Technician

EBK/jh
Attach.

cc: Jenny Vanek (w/attach.)
" GRStanga

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971910

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971910-1	14-JUL-97	SS1A3-1A	(L971680-16)	AS	1287	ppm	JJT	25-AUG-97		6010
				CD	338	ppm	JJT	25-AUG-97		6010
				CR	75	ppm	JJT	25-AUG-97		6010
				CU	16340	ppm	JJT	25-AUG-97		6010
				FE	51470	ppm	JJT	25-AUG-97		6010
				PB	4862	ppm	JJT	25-AUG-97		6010
				SE	54	ppm	JJT	25-AUG-97		6010
				ZN	4693	ppm	JJT	25-AUG-97		6010
L971910-2	15-JUL-97	SS1A3-9B	(L971680-34)	AS	473	ppm	JJT	25-AUG-97		6010
				CD	235	ppm	JJT	25-AUG-97		6010
				CR	22	ppm	JJT	25-AUG-97		6010
				CU	1814	ppm	JJT	25-AUG-97		6010
				FE	16960	ppm	JJT	25-AUG-97		6010
				PB	1915	ppm	JJT	25-AUG-97		6010
				SE	17	ppm	JJT	25-AUG-97		6010
				ZN	2044	ppm	JJT	25-AUG-97		6010
L971910-3	14-JUL-97	SS1A5-19B	(L971680-51)	AS	30	ppm	JJT	25-AUG-97		6010
				CD	17	ppm	JJT	25-AUG-97		6010
				CR	24	ppm	JJT	25-AUG-97		6010
				CU	270	ppm	JJT	25-AUG-97		6010
				FE	9869	ppm	JJT	25-AUG-97		6010
				PB	216	ppm	JJT	25-AUG-97		6010
				SE	<10	ppm	JJT	25-AUG-97		6010
				ZN	305	ppm	JJT	25-AUG-97		6010
L971910-4	16-JUL-97	SS1A8-6B	(L971680-64)	AS	62	ppm	JJT	25-AUG-97		6010
				CD	40	ppm	JJT	25-AUG-97		6010
				CR	32	ppm	JJT	25-AUG-97		6010
				CU	343	ppm	JJT	25-AUG-97		6010
				FE	12270	ppm	JJT	25-AUG-97		6010
				PB	764	ppm	JJT	25-AUG-97		6010
				SE	<10	ppm	JJT	25-AUG-97		6010
				ZN	342	ppm	JJT	25-AUG-97		6010
L971910-5	16-JUL-97	SS1A8-7A	(L971680-65)	AS	61	ppm	JJT	25-AUG-97		6010
				CD	68	ppm	JJT	25-AUG-97		6010
				CR	19	ppm	JJT	25-AUG-97		6010

ASARCO TECHN SERVICES CENTER

ANALYTICAL DATA REPORT

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Water and Solid Waste (Project 3220)

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LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971910-5	16-JUL-97	SS1A8-7A	(L971680-65)	CU	749	ppm	JJT	25-AUG-97		6010
				FE	11850	ppm	JJT	25-AUG-97		6010
				PB	340	ppm	JJT	25-AUG-97		6010
				SE	<10	ppm	JJT	25-AUG-97		6010
				ZN	642	ppm	JJT	25-AUG-97		6010
L971910-6	17-JUL-97	SSENT2-A	(L971680-73)	AS	309	ppm	JJT	25-AUG-97		6010
				CD	70	ppm	JJT	25-AUG-97		6010
				CR	34	ppm	JJT	25-AUG-97		6010
				CU	5964	ppm	JJT	25-AUG-97		6010
				FE	24900	ppm	JJT	25-AUG-97		6010
				PB	2485	ppm	JJT	25-AUG-97		6010
				SE	18	ppm	JJT	25-AUG-97		6010
				ZN	2644	ppm	JJT	25-AUG-97		6010
L971910-7	17-JUL-97	SSENT6-A	(L971680-82)	AS	340	ppm	JJT	25-AUG-97		6010
				CD	71	ppm	JJT	25-AUG-97		6010
				CR	12	ppm	JJT	25-AUG-97		6010
				CU	3795	ppm	JJT	25-AUG-97		6010
				FE	18050	ppm	JJT	25-AUG-97		6010
				PB	2731	ppm	JJT	25-AUG-97		6010
				SE	12	ppm	JJT	25-AUG-97		6010
				ZN	1852	ppm	JJT	25-AUG-97		6010
L971910-8	17-JUL-97	SSENT7-A	(L971680-84)	AS	282	ppm	JJT	25-AUG-97		6010
				CD	67	ppm	JJT	25-AUG-97		6010
				CR	18	ppm	JJT	25-AUG-97		6010
				CU	5604	ppm	JJT	25-AUG-97		6010
				FE	18590	ppm	JJT	25-AUG-97		6010
				PB	1936	ppm	JJT	25-AUG-97		6010
				SE	15	ppm	JJT	25-AUG-97		6010
				ZN	1674	ppm	JJT	25-AUG-97		6010
L971910-9	17-JUL-97	SSENT7-B	(L971680-85)	AS	8.3	ppm	JJT	25-AUG-97		6010
				CD	1.5	ppm	JJT	25-AUG-97		6010
				CR	30	ppm	JJT	25-AUG-97		6010
				CU	34	ppm	JJT	25-AUG-97		6010
				FE	13580	ppm	JJT	25-AUG-97		6010
				PB	33	ppm	JJT	25-AUG-97		6010

ASARCO TECHNICAL SERVICES CENTER

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L971910

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	#OLD DATS	METHOD
L971910-9	17-JUL-97	SSENT7-B	(L971680-85)	SE	<10	ppm	JJT	25-AUG-97		6010
				ZN	44	ppm	JJT	25-AUG-97		6010
L971910-10	17-JUL-97	SS1A8-10A	(L971715-1)	AS	9.2	ppm	JJT	25-AUG-97		6010
				CD	4.3	ppm	JJT	25-AUG-97		6010
				CR	7.9	ppm	JJT	25-AUG-97		6010
				CU	136	ppm	JJT	25-AUG-97		6010
				FE	6347	ppm	JJT	25-AUG-97		6010
				PB	43	ppm	JJT	25-AUG-97		6010
				SE	<10	ppm	JJT	25-AUG-97		6010
				ZN	134	ppm	JJT	25-AUG-97		6010
L971910-11	18-JUL-97	SS1A8-20B	(L971715-24)	AS	337	ppm	JJT	25-AUG-97		6010
				CD	72	ppm	JJT	25-AUG-97		6010
				CR	86	ppm	JJT	25-AUG-97		6010
				CU	7855	ppm	JJT	25-AUG-97		6010
				FE	126000	ppm	JJT	25-AUG-97		6010
				PB	3171	ppm	JJT	25-AUG-97		6010
				SE	33	ppm	JJT	25-AUG-97		6010
				ZN	12480	ppm	JJT	25-AUG-97		6010
L971910-12	18-JUL-97	SS1A8-28B	(L971715-40)	AS	2215	ppm	JJT	25-AUG-97		6010
				CD	852	ppm	JJT	25-AUG-97		6010
				CR	28	ppm	JJT	25-AUG-97		6010
				CU	7940	ppm	JJT	25-AUG-97		6010
				FE	37950	ppm	JJT	25-AUG-97		6010
				PB	12660	ppm	JJT	25-AUG-97		6010
				SE	46	ppm	JJT	25-AUG-97		6010
				ZN	11140	ppm	JJT	25-AUG-97		6010
L971910-13	18-JUL-97	SS1A8-30A	(L971715-43)	AS	2011	ppm	JJT	25-AUG-97		6010
				CD	762	ppm	JJT	25-AUG-97		6010
				CR	17	ppm	JJT	25-AUG-97		6010
				CU	145500	ppm	JJT	25-AUG-97		6010
				FE	106100	ppm	JJT	25-AUG-97		6010
				PB	18490	ppm	JJT	25-AUG-97		6010
				SE	83	ppm	JJT	25-AUG-97		6010
				ZN	9592	ppm	JJT	25-AUG-97		6010

ASARCO TECh. SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971910

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971289

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971289-1		Matrix Spike	AS	94	% RECOVERY	JJT	25-AUG-97		6010
			CD	87	% RECOVERY	JJT	25-AUG-97		6010
			CR	97	% RECOVERY	JJT	25-AUG-97		6010
			CU	88	% RECOVERY	JJT	25-AUG-97		6010
			FE	SR>4XSA	% RECOVERY	JJT	25-AUG-97		6010
			PB	93	% RECOVERY	JJT	25-AUG-97		6010
			SE	89	% RECOVERY	JJT	25-AUG-97		6010
			ZN	81	% RECOVERY	JJT	25-AUG-97		6010
WG971289-2		Prep Blank	AS	<5.0	ppm	JJT	25-AUG-97		6010
			CD	<2.0	ppm	JJT	25-AUG-97		6010
			CR	<5.0	ppm	JJT	25-AUG-97		6010
			CU	<2.5	ppm	JJT	25-AUG-97		6010
			FE	<5.0	ppm	JJT	25-AUG-97		6010
			PB	<5.0	ppm	JJT	25-AUG-97		6010
			SE	<10	ppm	JJT	25-AUG-97		6010
			ZN	<10	ppm	JJT	25-AUG-97		6010
WG971289-3		Laboratory Control	AS	94	% RECOVERY	JJT	25-AUG-97		6010
			CD	91	% RECOVERY	JJT	25-AUG-97		6010
			CR	108	% RECOVERY	JJT	25-AUG-97		6010
			CU	101	% RECOVERY	JJT	25-AUG-97		6010
			FE	118	% RECOVERY	JJT	25-AUG-97		6010
			PB	94	% RECOVERY	JJT	25-AUG-97		6010
			SE	77	% RECOVERY	JJT	25-AUG-97		6010
			ZN	98	% RECOVERY	JJT	25-AUG-97		6010
WG971289-4		Duplicate	AS	3.3	% RPD	JJT	25-AUG-97		6010
			CD	<1.0	% RPD	JJT	25-AUG-97		6010
			CR	<1.0	% RPD	JJT	25-AUG-97		6010
			CU	<1.0	% RPD	JJT	25-AUG-97		6010
			FE	1.3	% RPD	JJT	25-AUG-97		6010
			PB	1.2	% RPD	JJT	25-AUG-97		6010
			SE	<1.0	% RPD	JJT	25-AUG-97		6010
			ZN	<1.0	% RPD	JJT	25-AUG-97		6010
WG971289-5		Detection Limit	AS	5.0	ppm				6010
			CD	2.0	ppm				6010
			CR	5.0	ppm				6010

ASARCO TECHN. SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971289

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971289-5		Detection Limit	CU	2.5	ppm				6010
			FE	5.0	ppm				6010
			PB	5.0	ppm				6010
			SE	10	ppm				6010
			ZN	10	ppm				6010

Approved

Reviewer

QC FOR EL PASO SOILS
WET VS XRAY

LAB #	WET As PPM	XRF As PPM	RPD
L971910-1	1287	1900	38
L971910-2	473	570	19
L971910-3	30	<20	
L971910-4	62	<20	
L971910-5	61	51	18
L971910-6	309	340	10
L971910-7	340	380	11
L971910-8	282	250	12
L971910-9	8.2	<20	
L971910-10	9.2	<20	
L971910-11	337	330	2
L971910-12	2216	3300	39
L971910-13	2011	2000	1
SUM	7425.4	9121	150
RPD of sums	20		
		MEAN	15

LAB #	WET Cd PPM	XRF Cd PPM	RPD
L971910-1	338	510	41
L971910-2	235	340	37
L971910-3	17	29	52
L971910-4	40	47	16
L971910-5	61	51	18
L971910-6	70	100	35
L971910-7	71	100	34
L971910-8	67	93	33
L971910-9	1.5	<10	
L971910-10	4.3	13	101
L971910-11	72	89	21
L971910-12	852	1300	42
L971910-13	762	840	10
SUM	2590.8	3512	438
RPD of sums	30		
		MEAN	36

LAB #	WET Cr PPM	XRF Cr PPM	RPD
L971910-1	75	240	105
L971910-2	22	52	81
L971910-3	24	<30	
L971910-4	32	94	98
L971910-5	19	59	103
L971910-6	34	180	136
L971910-7	12	73	144
L971910-8	18	<30	
L971910-9	30	100	108
L971910-10	7.9	<30	
L971910-11	86	230	91
L971910-12	28	100	113
L971910-13	17	70	122
SUM	404.9	1198	1100
RPD of sums	99		
		MEAN	110

LAB #	WET Cu PPM	XRF Cu PPM	RPD
L971910-1	16340	27000	49
L971910-2	1814	2700	39
L971910-3	17	29	52
L971910-4	343	520	41
L971910-5	749	980	27
L971910-6	5964	8400	34
L971910-7	3795	5500	37
L971910-8	5604	8300	39
L971910-9	34	33	3
L971910-10	136	155	13
L971910-11	126000	120000	5
L971910-12	7940	11705	38
L971910-13	145500	186540	25
SUM	314236	371862	402
RPD of sums	17		
		MEAN	31

LAB #	WET Fe %	XRF Fe %	RPD
L971910-1	5.1	6.6	26
L971910-2	1.7	2.2	26
L971910-3	1.0	1.5	40
L971910-4	1.2	1.9	45
L971910-5	1.2	2.0	50
L971910-6	2.5	3.4	31
L971910-7	1.8	2.6	36
L971910-8	1.9	2.8	38
L971910-9	1.4	1.8	25
L971910-10	0.6	1.0	50
L971910-11	13	12	5
L971910-12	3.8	4.9	25
L971910-13	11	7.8	34
SUM	45.8	50.5	431
RPD of sums	10		
		MEAN	33

LAB #	WET Pb PPM	XRF Pb PPM	RPD
L971910-1	4862	7400	41
L971910-2	1915	2700	34
L971910-3	216.0	310	36
L971910-4	764	1000	27
L971910-5	340	526	43
L971910-6	2485	3300	28
L971910-7	2731	3800	33
L971910-8	1936	2800	36
L971910-9	33	30	10
L971910-10	43	68	45
L971910-11	3171	3900	21
L971910-12	12660	19000	40
L971910-13	18490	20000	8
SUM	49646	64834	401
RPD of sums	27		
		MEAN	31

LAB #	WET Se PPM	XRF Se PPM	RPD
L971910-1	54	56	4
L971910-2	17	26	42
L971910-3	<10	<10	
L971910-4	<10	<10	
L971910-5	<10	<10	
L971910-6	18	15	18
L971910-7	12	16	29
L971910-8	15	<10	
L971910-9	<10	<10	
L971910-10	43	68	45
L971910-11	33	38	14
L971910-12	46	53	14
L971910-13	83	73	13
SUM	321	345	178
RPD of sums	7		
		MEAN	22

LAB #	WET Zn PPM	XRF Zn PPM	RPD
L971910-1	4693	7600	47
L971910-2	2044	2600	24
L971910-3	305	430	34
L971910-4	342	470	32
L971910-5	642	1100	53
L971910-6	2644	3600	31
L971910-7	1852	2500	30
L971910-8	1674	2400	36
L971910-9	44	41	7
L971910-10	134	130	3
L971910-11	12480	15000	18
L971910-12	11140	19000	52
L971910-13	9592	9400	2
SUM	47586	64271	368
RPD of sums	30		
		MEAN	28

ASARCO

Soil Analytical

September 11, 1997

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SEP 17 1997
HYDROMETRICS, INC.

Mr. Lairy Johnson
HYDROMETRICS INC.
El Paso

Please find attached an amended report for the El Paso Soils, lab number L971470-1, L971680-1 through 88, and L971715-1 through 47, received on June 27, July 18, and 28, 1997. This report now contains pH values.

If you have any questions pertaining to the data, please feel free to call.

Lee Stone
Senior Analytical Chemist

LCS/jh
Attach.

cc: GRStanga (w/attach.)
JVanek "

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971680

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-1	15-JUL-97	SS1A1-1A	AS	3200	PPM	LCS	13-AUG-97		EDXRF
			CD	1900	PPM	LCS	13-AUG-97		EDXRF
			CR	62	PPM	LCS	13-AUG-97		EDXRF
			CU	13000	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	11000	PPM	LCS	13-AUG-97		EDXRF
			PH	6.8	pH	DC	09-SEP-97		9045
			SE	190	PPM	LCS	13-AUG-97		EDXRF
			ZN	7000	PPM	LCS	13-AUG-97		EDXRF
L971680-2	15-JUL-97	SS1A1-1B	AS	2300	PPM	LCS	13-AUG-97		EDXRF
			CD	91	PPM	LCS	13-AUG-97		EDXRF
			CR	330	PPM	LCS	13-AUG-97		EDXRF
			CU	7600	PPM	LCS	13-AUG-97		EDXRF
			FE	15	%	LCS	13-AUG-97		EDXRF
			PB	5000	PPM	LCS	13-AUG-97		EDXRF
			PH	6.3	pH	DC	09-SEP-97		9045
			SE	13	PPM	LCS	13-AUG-97		EDXRF
			ZN	13000	PPM	LCS	13-AUG-97		EDXRF
L971680-3	15-JUL-97	SS1A1-2A	AS	21000	PPM	LCS	13-AUG-97		EDXRF
			CD	1100	PPM	LCS	13-AUG-97		EDXRF
			CR	60	PPM	LCS	13-AUG-97		EDXRF
			CU	11000	PPM	LCS	13-AUG-97		EDXRF
			FE	3.0	%	LCS	13-AUG-97		EDXRF
			PB	15	%	LCS	13-AUG-97		EDXRF
			PH	7.2	pH	DC	09-SEP-97		9045
			SE	1300	PPM	LCS	13-AUG-97		EDXRF
			ZN	2600	PPM	LCS	13-AUG-97		EDXRF
L971680-4	15-JUL-97	SS1A1-2B	AS	22000	PPM	LCS	13-AUG-97		EDXRF
			CD	1600	PPM	LCS	13-AUG-97		EDXRF
			CR	110	PPM	LCS	13-AUG-97		EDXRF
			CU	28000	PPM	LCS	13-AUG-97		EDXRF
			FE	4.6	%	LCS	13-AUG-97		EDXRF
			PB	5400	PPM	LCS	13-AUG-97		EDXRF
			PH	6.7	pH	DC	09-SEP-97		9045
			SE	200	PPM	LCS	13-AUG-97		EDXRF
			ZN	4900	PPM	LCS	13-AUG-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971680

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-5	15-JUL-97	SS1A1-3A	AS	2000	PPM	LCS	13-AUG-97		EDXRF
			CD	320	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	4000	PPM	LCS	13-AUG-97		EDXRF
			FE	1.2	%	LCS	13-AUG-97		EDXRF
			PB	4100	PPM	LCS	13-AUG-97		EDXRF
			PH	7.8	pH	DC	09-SEP-97		9045
			SE	41	PPM	LCS	13-AUG-97		EDXRF
			ZN	2200	PPM	LCS	13-AUG-97		EDXRF
L971680-6	15-JUL-97	SS1A1-3B	AS	4900	PPM	LCS	13-AUG-97		EDXRF
			CD	110	PPM	LCS	13-AUG-97		EDXRF
			CR	97	PPM	LCS	13-AUG-97		EDXRF
			CU	37000	PPM	LCS	13-AUG-97		EDXRF
			FE	4.4	%	LCS	13-AUG-97		EDXRF
			PB	5800	PPM	LCS	13-AUG-97		EDXRF
			PH	7.7	pH	DC	09-SEP-97		9045
			SE	36	PPM	LCS	13-AUG-97		EDXRF
			ZN	7200	PPM	LCS	13-AUG-97		EDXRF
L971680-7	15-JUL-97	SS1A1-4A	AS	410	PPM	LCS	13-AUG-97		EDXRF
			CD	88	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	1800	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	690	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1500	PPM	LCS	13-AUG-97		EDXRF
L971680-8	15-JUL-97	SS1A1-4B	AS	570	PPM	LCS	13-AUG-97		EDXRF
			CD	160	PPM	LCS	13-AUG-97		EDXRF
			CR	110	PPM	LCS	13-AUG-97		EDXRF
			CU	11000	PPM	LCS	13-AUG-97		EDXRF
			FE	4.4	%	LCS	13-AUG-97		EDXRF
			PB	6200	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	25	PPM	LCS	13-AUG-97		EDXRF
			ZN	7500	PPM	LCS	13-AUG-97		EDXRF

ASARCO TECHNI... SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971680

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-9	15-JUL-97	SS1A1-5A1	AS	1800	PPM	LCS	13-AUG-97		EDXRF
			CD	120	PPM	LCS	13-AUG-97		EDXRF
			CR	39	PPM	LCS	13-AUG-97		EDXRF
			CU	2500	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	1200	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	2300	PPM	LCS	13-AUG-97		EDXRF
L971680-10	15-JUL-97	SS1A1-5A2	AS	1600	PPM	LCS	13-AUG-97		EDXRF
			CD	110	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	2500	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	1100	PPM	LCS	13-AUG-97		EDXRF
			PH	8.2	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	2100	PPM	LCS	13-AUG-97		EDXRF
L971680-11	15-JUL-97	SS1A1-5B	AS	220	PPM	LCS	13-AUG-97		EDXRF
			CD	20	PPM	LCS	13-AUG-97		EDXRF
			CR	170	PPM	LCS	13-AUG-97		EDXRF
			CU	3500	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	830	PPM	LCS	13-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	550	PPM	LCS	13-AUG-97		EDXRF
L971680-12	14-JUL-97	SS1A2-1A	AS	400	PPM	LCS	13-AUG-97		EDXRF
			CD	14	PPM	LCS	13-AUG-97		EDXRF
			CR	120	PPM	LCS	13-AUG-97		EDXRF
			CU	7200	PPM	LCS	13-AUG-97		EDXRF
			FE	13	%	LCS	13-AUG-97		EDXRF
			PB	1500	PPM	LCS	13-AUG-97		EDXRF
			PH	7.6	pH	DC	09-SEP-97		9045
			SE	12	PPM	LCS	13-AUG-97		EDXRF
			ZN	10000	PPM	LCS	13-AUG-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971680

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-13	14-JUL-97	SS1A2-1B	AS	1200	PPM	LCS	13-AUG-97		EDXRF
			CD	56	PPM	LCS	13-AUG-97		EDXRF
			CR	340	PPM	LCS	13-AUG-97		EDXRF
			CU	5400	PPM	LCS	13-AUG-97		EDXRF
			FE	19	%	LCS	13-AUG-97		EDXRF
			PB	180	PPM	LCS	13-AUG-97		EDXRF
			PH	7.6	pH	DC	09-SEP-97		9045
			SE	72	PPM	LCS	13-AUG-97		EDXRF
			ZN	16000	PPM	LCS	13-AUG-97		EDXRF
L971680-14	14-JUL-97	SS1A2-2A	AS	840	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	230	PPM	LCS	13-AUG-97		EDXRF
			CU	8800	PPM	LCS	13-AUG-97		EDXRF
			FE	8.5	%	LCS	13-AUG-97		EDXRF
			PB	2700	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	21	PPM	LCS	13-AUG-97		EDXRF
			ZN	5300	PPM	LCS	13-AUG-97		EDXRF
L971680-15	14-JUL-97	SS1A2-2A2	AS	950	PPM	LCS	13-AUG-97		EDXRF
			CD	120	PPM	LCS	13-AUG-97		EDXRF
			CR	220	PPM	LCS	13-AUG-97		EDXRF
			CU	8400	PPM	LCS	13-AUG-97		EDXRF
			FE	8.3	%	LCS	13-AUG-97		EDXRF
			PB	2500	PPM	LCS	13-AUG-97		EDXRF
			PH	8.2	pH	DC	09-SEP-97		9045
			SE	23	PPM	LCS	13-AUG-97		EDXRF
			ZN	5300	PPM	LCS	13-AUG-97		EDXRF
L971680-16	14-JUL-97	SS1A3-1A	AS	1900	PPM	LCS	13-AUG-97		EDXRF
			CD	510	PPM	LCS	13-AUG-97		EDXRF
			CR	240	PPM	LCS	13-AUG-97		EDXRF
			CU	27000	PPM	LCS	13-AUG-97		EDXRF
			FE	6.6	%	LCS	13-AUG-97		EDXRF
			PB	7400	PPM	LCS	13-AUG-97		EDXRF
			PH	8.3	pH	DC	09-SEP-97		9045
			SE	56	PPM	LCS	13-AUG-97		EDXRF
			ZN	7600	PPM	LCS	13-AUG-97		EDXRF

ASARCO TECHNIC . SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971680

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-17	14-JUL-97	SS1A3-1B	AS	650	PPM	LCS	13-AUG-97		EDXRF
			CD	120	PPM	LCS	13-AUG-97		EDXRF
			CR	73	PPM	LCS	13-AUG-97		EDXRF
			CU	4000	PPM	LCS	13-AUG-97		EDXRF
			FE	12	%	LCS	13-AUG-97		EDXRF
			PB	6900	PPM	LCS	13-AUG-97		EDXRF
			PH	8.3	pH	DC	09-SEP-97		9045
			SE	13	PPM	LCS	13-AUG-97		EDXRF
			ZN	17000	PPM	LCS	13-AUG-97		EDXRF
L971680-18	14-JUL-97	SS1A3-2A	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	25	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	360	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	220	PPM	LCS	13-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	220	PPM	LCS	13-AUG-97		EDXRF
L971680-19	14-JUL-97	SS1A3-2B	AS	35	PPM	LCS	13-AUG-97		EDXRF
			CD	19	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	430	PPM	LCS	13-AUG-97		EDXRF
			FE	2.1	%	LCS	13-AUG-97		EDXRF
			PB	550	PPM	LCS	13-AUG-97		EDXRF
			PH	8.3	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	2000	PPM	LCS	13-AUG-97		EDXRF
L971680-20	14-JUL-97	SS1A3-3A	AS	480	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	41	PPM	LCS	13-AUG-97		EDXRF
			CU	3600	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	2000	PPM	LCS	13-AUG-97		EDXRF
			PH	6.5	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1900	PPM	LCS	13-AUG-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-21	14-JUL-97	SS1A3-3B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	100	PPM	LCS	13-AUG-97		EDXRF
			CU	72	PPM	LCS	13-AUG-97		EDXRF
			FE	0.6	%	LCS	13-AUG-97		EDXRF
			PB	37	PPM	LCS	13-AUG-97		EDXRF
			PH	8.2	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	100	PPM	LCS	13-AUG-97		EDXRF
L971680-22	14-JUL-97	SS1A3-4A	AS	7800	PPM	LCS	13-AUG-97		EDXRF
			CD	1600	PPM	LCS	13-AUG-97		EDXRF
			CR	140	PPM	LCS	13-AUG-97		EDXRF
			CU	7400	PPM	LCS	13-AUG-97		EDXRF
			FE	5.5	%	LCS	13-AUG-97		EDXRF
			PB	7300	PPM	LCS	13-AUG-97		EDXRF
			PH	7.3	pH	DC	09-SEP-97		9045
			SE	53	PPM	LCS	13-AUG-97		EDXRF
			ZN	9800	PPM	LCS	13-AUG-97		EDXRF
L971680-23	14-JUL-97	SS1A3-4B	AS	3000	PPM	LCS	13-AUG-97		EDXRF
			CD	330	PPM	LCS	13-AUG-97		EDXRF
			CR	300	PPM	LCS	13-AUG-97		EDXRF
			CU	4400	PPM	LCS	13-AUG-97		EDXRF
			FE	15	%	LCS	13-AUG-97		EDXRF
			PB	5600	PPM	LCS	13-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97		9045
			SE	35	PPM	LCS	13-AUG-97		EDXRF
			ZN	16000	PPM	LCS	13-AUG-97		EDXRF
L971680-24	15-JUL-97	SS1A3-5A	AS	1000	PPM	LCS	13-AUG-97		EDXRF
			CD	280	PPM	LCS	13-AUG-97		EDXRF
			CR	240	PPM	LCS	13-AUG-97		EDXRF
			CU	9000	PPM	LCS	13-AUG-97		EDXRF
			FE	9.2	%	LCS	13-AUG-97		EDXRF
			PB	5200	PPM	LCS	13-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	22	PPM	LCS	13-AUG-97		EDXRF
			ZN	9200	PPM	LCS	13-AUG-97		EDXRF

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L971680-25	15-JUL-97	SS1A3-5A2	AS	950	PPM	LCS	13-AUG-97		EDXRF
			CD	250	PPM	LCS	13-AUG-97.		EDXRF
			CR	290	PPM	LCS	13-AUG-97		EDXRF
			CU	8400	PPM	LCS	13-AUG-97		EDXRF
			FE	8.8	%	LCS	13-AUG-97		EDXRF
			PB	4800	PPM	LCS	13-AUG-97		EDXRF
			PH	8.6	pH	DC	09-SEP-97		9045
			SE	14	PPM	LCS	13-AUG-97		EDXRF
			ZN	8900	PPM	LCS	13-AUG-97		EDXRF
L971680-26	15-JUL-97	SS1A3-5B	AS	560	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	80	PPM	LCS	13-AUG-97		EDXRF
			CU	3700	PPM	LCS	13-AUG-97		EDXRF
			FE	6.3	%	LCS	13-AUG-97		EDXRF
			PB	3300	PPM	LCS	13-AUG-97		EDXRF
			PH	7.4	pH	DC	09-SEP-97		9045
			SE	16	PPM	LCS	13-AUG-97		EDXRF
			ZN	7300	PPM	LCS	13-AUG-97		EDXRF
L971680-27	15-JUL-97	SS1A3-6A	AS	2900	PPM	LCS	13-AUG-97		EDXRF
			CD	790	PPM	LCS	13-AUG-97		EDXRF
			CR	260	PPM	LCS	13-AUG-97		EDXRF
			CU	11000	PPM	LCS	13-AUG-97		EDXRF
			FE	3.0	%	LCS	13-AUG-97		EDXRF
			PB	11000	PPM	LCS	13-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	60	PPM	LCS	13-AUG-97		EDXRF
			ZN	14000	PPM	LCS	13-AUG-97		EDXRF
L971680-28	15-JUL-97	SS1A3-6B	AS	230	PPM	LCS	13-AUG-97		EDXRF
			CD	67	PPM	LCS	13-AUG-97		EDXRF
			CR	60	PPM	LCS	13-AUG-97		EDXRF
			CU	1000	PPM	LCS	13-AUG-97		EDXRF
			FE	1.6	%	LCS	13-AUG-97		EDXRF
			PB	1000	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1300	PPM	LCS	13-AUG-97		EDXRF

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L971680-29	15-JUL-97	SS1A3-7A	AS	820	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	120	PPM	LCS	13-AUG-97		EDXRF
			CU	1900	PPM	LCS	13-AUG-97		EDXRF
			FE	1.2	%	LCS	13-AUG-97		EDXRF
			PB	2200	PPM	LCS	13-AUG-97		EDXRF
			PH	8.2	pH	DC	09-SEP-97		9045
			SE	22	PPM	LCS	13-AUG-97		EDXRF
			ZN	2200	PPM	LCS	13-AUG-97		EDXRF
L971680-30	15-JUL-97	SS1A3-7B	AS	2700	PPM	LCS	13-AUG-97		EDXRF
			CD	440	PPM	LCS	13-AUG-97		EDXRF
			CR	1400	PPM	LCS	13-AUG-97		EDXRF
			CU	3900	PPM	LCS	13-AUG-97		EDXRF
			FE	4.5	%	LCS	13-AUG-97		EDXRF
			PB	3700	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	94	PPM	LCS	13-AUG-97		EDXRF
			ZN	14000	PPM	LCS	13-AUG-97		EDXRF
L971680-31	15-JUL-97	SS1A3-8A	AS	3200	PPM	LCS	13-AUG-97		EDXRF
			CD	1100	PPM	LCS	13-AUG-97		EDXRF
			CR	290	PPM	LCS	13-AUG-97		EDXRF
			CU	20000	PPM	LCS	13-AUG-97		EDXRF
			FE	6.0	%	LCS	13-AUG-97		EDXRF
			PB	8100	PPM	LCS	13-AUG-97		EDXRF
			PH	8.2	pH	DC	09-SEP-97		9045
			SE	60	PPM	LCS	13-AUG-97		EDXRF
			ZN	9900	PPM	LCS	13-AUG-97		EDXRF
L971680-32	15-JUL-97	SS1A3-8B	AS	740	PPM	LCS	13-AUG-97		EDXRF
			CD	170	PPM	LCS	13-AUG-97		EDXRF
			CR	110	PPM	LCS	13-AUG-97		EDXRF
			CU	3300	PPM	LCS	13-AUG-97		EDXRF
			FE	1.9	%	LCS	13-AUG-97		EDXRF
			PB	1600	PPM	LCS	13-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97		9045
			SE	14	PPM	LCS	13-AUG-97		EDXRF
			ZN	1900	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-33	15-JUL-97	SS1A3-9A	AS	1900	PPM	LCS	13-AUG-97		EDXRF
			CD	1400	PPM	LCS	13-AUG-97		EDXRF
			CR	53	PPM	LCS	13-AUG-97		EDXRF
			CU	8500	PPM	LCS	13-AUG-97		EDXRF
			FE	3.4	%	LCS	13-AUG-97		EDXRF
			PB	4500	PPM	LCS	13-AUG-97		EDXRF
			PH	8.2	pH	DC	09-SEP-97		9045
			SE	33	PPM	LCS	13-AUG-97		EDXRF
			ZN	5500	PPM	LCS	13-AUG-97		EDXRF
L971680-34	15-JUL-97	SS1A3-9B	AS	570	PPM	LCS	13-AUG-97		EDXRF
			CD	340	PPM	LCS	13-AUG-97		EDXRF
			CR	52	PPM	LCS	13-AUG-97		EDXRF
			CU	2700	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	2700	PPM	LCS	13-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	26	PPM	LCS	13-AUG-97		EDXRF
			ZN	2600	PPM	LCS	13-AUG-97		EDXRF
L971680-35	15-JUL-97	SS1A3-10A	AS	2800	PPM	LCS	13-AUG-97		EDXRF
			CD	360	PPM	LCS	13-AUG-97		EDXRF
			CR	95	PPM	LCS	13-AUG-97		EDXRF
			CU	7900	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	19000	PPM	LCS	13-AUG-97		EDXRF
			PH	10.0	pH	DC	09-SEP-97		9045
			SE	77	PPM	LCS	13-AUG-97		EDXRF
			ZN	4100	PPM	LCS	13-AUG-97		EDXRF
L971680-36	15-JUL-97	SS1A3-10A2	AS	3300	PPM	LCS	13-AUG-97		EDXRF
			CD	410	PPM	LCS	13-AUG-97		EDXRF
			CR	57	PPM	LCS	13-AUG-97		EDXRF
			CU	8900	PPM	LCS	13-AUG-97		EDXRF
			FE	1.6	%	LCS	13-AUG-97		EDXRF
			PB	22000	PPM	LCS	13-AUG-97		EDXRF
			PH	9.3	pH	DC	09-SEP-97		9045
			SE	75	PPM	LCS	13-AUG-97		EDXRF
			ZN	4400	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-37	15-JUL-97	SS1A3-10B	AS	980	PPM	LCS	13-AUG-97		EDXRF
			CD	680	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	4700	PPM	LCS	13-AUG-97		EDXRF
			FE	12	%	LCS	13-AUG-97		EDXRF
			PB	25000	PPM	LCS	13-AUG-97		EDXRF
			PH	8.5	pH	DC	09-SEP-97		9045
			SE	46	PPM	LCS	13-AUG-97		EDXRF
			ZN	15000	PPM	LCS	13-AUG-97		EDXRF
L971680-38	14-JUL-97	SS1H5-15A	AS	86	PPM	LCS	13-AUG-97		EDXRF
			CD	20	PPM	LCS	13-AUG-97		EDXRF
			CR	74	PPM	LCS	13-AUG-97		EDXRF
			CU	2800	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	420	PPM	LCS	13-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	900	PPM	LCS	13-AUG-97		EDXRF
L971680-39	14-JUL-97	SS1H5-15A2	AS	70	PPM	LCS	13-AUG-97		EDXRF
			CD	19	PPM	LCS	13-AUG-97		EDXRF
			CR	64	PPM	LCS	13-AUG-97		EDXRF
			CU	2400	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	420	PPM	LCS	13-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	760	PPM	LCS	13-AUG-97		EDXRF
L971680-40	14-JUL-97	SS1H5-15B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	32	PPM	LCS	13-AUG-97		EDXRF
			CU	39	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	34	PPM	LCS	13-AUG-97		EDXRF
			PH	8.5	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	59	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-41	14-JUL-97	SS1H5-15B2	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	100	PPM	LCS	13-AUG-97		EDXRF
			CU	20	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	38	PPM	LCS	13-AUG-97		EDXRF
			PH	8.3	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	27	PPM	LCS	13-AUG-97		EDXRF
L971680-42	14-JUL-97	SS1A5-16A	AS	27	PPM	LCS	13-AUG-97		EDXRF
			CD	24	PPM	LCS	13-AUG-97		EDXRF
			CR	89	PPM	LCS	13-AUG-97		EDXRF
			CU	1000	PPM	LCS	13-AUG-97		EDXRF
			FE	3.2	%	LCS	13-AUG-97		EDXRF
			PB	610	PPM	LCS	13-AUG-97		EDXRF
			PH	7.6	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	650	PPM	LCS	13-AUG-97		EDXRF
L971680-43	14-JUL-97	SS1A5-16A2	AS	68	PPM	LCS	13-AUG-97		EDXRF
			CD	40	PPM	LCS	13-AUG-97		EDXRF
			CR	74	PPM	LCS	13-AUG-97		EDXRF
			CU	1400	PPM	LCS	13-AUG-97		EDXRF
			FE	3.3	%	LCS	13-AUG-97		EDXRF
			PB	830	PPM	LCS	13-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1000	PPM	LCS	13-AUG-97		EDXRF
L971680-44	14-JUL-97	SS1A5-16B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	200	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	150	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	190	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-45	14-JUL-97	SS1A5-16B2	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	51	PPM	LCS	13-AUG-97		EDXRF
			CU	140	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	140	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	140	PPM	LCS	13-AUG-97		EDXRF
L971680-46	14-JUL-97	SS1A5-17A	AS	83	PPM	LCS	13-AUG-97		EDXRF
			CD	85	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	1800	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	1100	PPM	LCS	13-AUG-97		EDXRF
			PH	7.7	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1400	PPM	LCS	13-AUG-97		EDXRF
L971680-47	14-JUL-97	SS1A5-17B	AS	24	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	150	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	140	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	150	PPM	LCS	13-AUG-97		EDXRF
L971680-48	14-JUL-97	SS1A5-18A	AS	26	PPM	LCS	13-AUG-97		EDXRF
			CD	11	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	1200	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	200	PPM	LCS	13-AUG-97		EDXRF
			PH	8.5	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	430	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-49	14-JUL-97	SS1A5-18B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	27	PPM	LCS	13-AUG-97		EDXRF
			FE	1.6	%	LCS	13-AUG-97		EDXRF
			PB	15	PPM	LCS	13-AUG-97		EDXRF
			PH	9.3	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	28	PPM	LCS	13-AUG-97		EDXRF
L971680-50	14-JUL-97	SS1A5-19A	AS	160	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	39	PPM	LCS	13-AUG-97		EDXRF
			CU	3400	PPM	LCS	13-AUG-97		EDXRF
			FE	2.8	%	LCS	13-AUG-97		EDXRF
			PB	2400	PPM	LCS	13-AUG-97		EDXRF
			PH	7.7	pH	DC	09-SEP-97		9045
			SE	18	PPM	LCS	13-AUG-97		EDXRF
			ZN	3300	PPM	LCS	13-AUG-97		EDXRF
L971680-51	14-JUL-97	SS1A5-19B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	29	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	370	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	310	PPM	LCS	13-AUG-97		EDXRF
			PH	7.8	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	430	PPM	LCS	13-AUG-97		EDXRF
L971680-52	16-JUL-97	SS1A8-1A	AS	240	PPM	LCS	13-AUG-97		EDXRF
			CD	33	PPM	LCS	13-AUG-97		EDXRF
			CR	58	PPM	LCS	13-AUG-97		EDXRF
			CU	140	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	44	PPM	LCS	13-AUG-97		EDXRF
			PH	8.2	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	470	PPM	LCS	13-AUG-97		EDXRF

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L971680-53	16-JUL-97	SS1A8-1B	AS	2100	PPM	LCS	13-AUG-97		EDXRF
			CD	400	PPM	LCS	13-AUG-97		EDXRF
			CR	120	PPM	LCS	13-AUG-97		EDXRF
			CU	4300	PPM	LCS	13-AUG-97		EDXRF
			FE	8.6	%	LCS	13-AUG-97		EDXRF
			PB	1500	PPM	LCS	13-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97		9045
			SE	26	PPM	LCS	13-AUG-97		EDXRF
			ZN	8100	PPM	LCS	13-AUG-97		EDXRF
L971680-54	16-JUL-97	SS1A8-2A	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	35	PPM	LCS	13-AUG-97		EDXRF
			CR	58	PPM	LCS	13-AUG-97		EDXRF
			CU	440	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	240	PPM	LCS	13-AUG-97		EDXRF
			PH	8.5	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	510	PPM	LCS	13-AUG-97		EDXRF
L971680-55	16-JUL-97	SS1A8-2B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	11	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	530	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	500	PPM	LCS	13-AUG-97		EDXRF
			PH	8.9	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	340	PPM	LCS	13-AUG-97		EDXRF
L971680-56	16-JUL-97	SS1A8-3A	AS	2700	PPM	LCS	13-AUG-97		EDXRF
			CD	660	PPM	LCS	13-AUG-97		EDXRF
			CR	130	PPM	LCS	13-AUG-97		EDXRF
			CU	1400	PPM	LCS	13-AUG-97		EDXRF
			FE	3.4	%	LCS	13-AUG-97		EDXRF
			PB	420	PPM	LCS	13-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	66	PPM	LCS	13-AUG-97		EDXRF
			ZN	4600	PPM	LCS	13-AUG-97		EDXRF

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L971680-57	16-JUL-97	SS1A8-3B	AS	170	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	56	PPM	LCS	13-AUG-97		EDXRF
			CU	1100	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	1000	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1800	PPM	LCS	13-AUG-97		EDXRF
L971680-58	16-JUL-97	SS1A8-4A	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	660	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	120	PPM	LCS	13-AUG-97		EDXRF
			PH	8.8	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	150	PPM	LCS	13-AUG-97		EDXRF
L971680-59	16-JUL-97	SS1A8-4B	AS	3700	PPM	LCS	13-AUG-97		EDXRF
			CD	980	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	20000	PPM	LCS	13-AUG-97		EDXRF
			FE	6.1	%	LCS	13-AUG-97		EDXRF
			PB	43000	PPM	LCS	13-AUG-97		EDXRF
			PH	7.7	pH	DC	09-SEP-97		9045
			SE	57	PPM	LCS	13-AUG-97		EDXRF
			ZN	21000	PPM	LCS	13-AUG-97		EDXRF
L971680-60	16-JUL-97	SS1A8-5A	AS	53	PPM	LCS	13-AUG-97		EDXRF
			CD	130	PPM	LCS	13-AUG-97		EDXRF
			CR	110	PPM	LCS	13-AUG-97		EDXRF
			CU	1500	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	180	PPM	LCS	13-AUG-97		EDXRF
			PH	8.5	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	2300	PPM	LCS	13-AUG-97		EDXRF

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L971680-61	16-JUL-97	SS1A8-5B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	170	PPM	LCS	13-AUG-97		EDXRF
			FE	1.6	%	LCS	13-AUG-97		EDXRF
			PB	130	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	350	PPM	LCS	13-AUG-97		EDXRF
L971680-62	16-JUL-97	SS1A8-6A	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	23	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	400	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	690	PPM	LCS	13-AUG-97		EDXRF
			PH	8.7	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	370	PPM	LCS	13-AUG-97		EDXRF
L971680-63	16-JUL-97	SS1A8-6A2	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	13	PPM	LCS	13-AUG-97		EDXRF
			CR	140	PPM	LCS	13-AUG-97		EDXRF
			CU	390	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	680	PPM	LCS	13-AUG-97		EDXRF
			PH	8.8	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	330	PPM	LCS	13-AUG-97		EDXRF
L971680-64	16-JUL-97	SS1A8-6B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	47	PPM	LCS	13-AUG-97		EDXRF
			CR	94	PPM	LCS	13-AUG-97		EDXRF
			CU	520	PPM	LCS	13-AUG-97		EDXRF
			FE	1.9	%	LCS	13-AUG-97		EDXRF
			PB	1000	PPM	LCS	13-AUG-97		EDXRF
			PH	9.1	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	470	PPM	LCS	13-AUG-97		EDXRF

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L971680-65	16-JUL-97	SS1A8-7A	AS	51	PPM	LCS	13-AUG-97		EDXRF
			CD	96	PPM	LCS	13-AUG-97		EDXRF
			CR	59	PPM	LCS	13-AUG-97		EDXRF
			CU	980	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	520	PPM	LCS	13-AUG-97		EDXRF
			PH	8.6	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1100	PPM	LCS	13-AUG-97		EDXRF
L971680-66	16-JUL-97	SS1A8-7B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	22	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	250	PPM	LCS	13-AUG-97		EDXRF
			FE	1.6	%	LCS	13-AUG-97		EDXRF
			PB	300	PPM	LCS	13-AUG-97		EDXRF
			PH	8.3	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	220	PPM	LCS	13-AUG-97		EDXRF
L971680-67	16-JUL-97	SS1A8-8A	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	96	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	830	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	770	PPM	LCS	13-AUG-97		EDXRF
			PH	8.5	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1200	PPM	LCS	13-AUG-97		EDXRF
L971680-68	16-JUL-97	SS1A8-8B	AS	39	PPM	LCS	13-AUG-97		EDXRF
			CD	31	PPM	LCS	13-AUG-97		EDXRF
			CR	44	PPM	LCS	13-AUG-97		EDXRF
			CU	1500	PPM	LCS	13-AUG-97		EDXRF
			FE	2.1	%	LCS	13-AUG-97		EDXRF
			PB	1400	PPM	LCS	13-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1100	PPM	LCS	13-AUG-97		EDXRF

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L971680-69	16-JUL-97	SS1A8-9A	AS	1000	PPM	LCS	13-AUG-97		EDXRF
			CD	310	PPM	LCS	13-AUG-97		EDXRF
			CR	120	PPM	LCS	13-AUG-97		EDXRF
			CU	22000	PPM	LCS	13-AUG-97		EDXRF
			FE	5.4	%	LCS	13-AUG-97		EDXRF
			PB	8900	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	35	PPM	LCS	13-AUG-97		EDXRF
			ZN	8000	PPM	LCS	13-AUG-97		EDXRF
L971680-70	16-JUL-97	SS1A8-9B	AS	530	PPM	LCS	13-AUG-97		EDXRF
			CD	270	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	7300	PPM	LCS	13-AUG-97		EDXRF
			FE	3.0	%	LCS	13-AUG-97		EDXRF
			PB	11000	PPM	LCS	13-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97		9045
			SE	37	PPM	LCS	13-AUG-97		EDXRF
			ZN	5100	PPM	LCS	13-AUG-97		EDXRF
L971680-71	17-JUL-97	SSENT1-1A	AS	470	PPM	LCS	13-AUG-97		EDXRF
			CD	75	PPM	LCS	13-AUG-97		EDXRF
			CR	69	PPM	LCS	13-AUG-97		EDXRF
			CU	9800	PPM	LCS	13-AUG-97		EDXRF
			FE	5.6	%	LCS	13-AUG-97		EDXRF
			PB	5700	PPM	LCS	13-AUG-97		EDXRF
			PH	8.0	pH	DC	09-SEP-97		9045
			SE	15	PPM	LCS	13-AUG-97		EDXRF
			ZN	5700	PPM	LCS	13-AUG-97		EDXRF
L971680-72	17-JUL-97	SSENT1-B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	43	PPM	LCS	13-AUG-97		EDXRF
			CU	230	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	300	PPM	LCS	13-AUG-97		EDXRF
			PH	9.0	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	210	PPM	LCS	13-AUG-97		EDXRF

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L971680-73	17-JUL-97	SSENT2-A	AS	340	PPM	LCS	13-AUG-97		EDXRF
			CD	100	PPM	LCS	13-AUG-97		EDXRF
			CR	180	PPM	LCS	13-AUG-97		EDXRF
			CU	8400	PPM	LCS	13-AUG-97		EDXRF
			FE	3.4	%	LCS	13-AUG-97		EDXRF
			PB	3300	PPM	LCS	13-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	15	PPM	LCS	13-AUG-97		EDXRF
			ZN	3600	PPM	LCS	13-AUG-97		EDXRF
L971680-74	17-JUL-97	SSENT2-B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	60	PPM	LCS	13-AUG-97		EDXRF
			CU	400	PPM	LCS	13-AUG-97		EDXRF
			FE	2.4	%	LCS	13-AUG-97		EDXRF
			PB	330	PPM	LCS	13-AUG-97		EDXRF
			PH	9.2	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	210	PPM	LCS	13-AUG-97		EDXRF
L971680-75	17-JUL-97	SSENT3-A	AS	340	PPM	LCS	13-AUG-97		EDXRF
			CD	99	PPM	LCS	13-AUG-97		EDXRF
			CR	130	PPM	LCS	13-AUG-97		EDXRF
			CU	8100	PPM	LCS	13-AUG-97		EDXRF
			FE	2.7	%	LCS	13-AUG-97		EDXRF
			PB	2800	PPM	LCS	13-AUG-97		EDXRF
			PH	8.0	pH	DC	09-SEP-97		9045
			SE	18	PPM	LCS	13-AUG-97		EDXRF
			ZN	3000	PPM	LCS	13-AUG-97		EDXRF
L971680-76	17-JUL-97	SSENT3-B	AS	34	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	110	PPM	LCS	13-AUG-97		EDXRF
			CU	170	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	160	PPM	LCS	13-AUG-97		EDXRF
			PH	8.7	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	160	PPM	LCS	13-AUG-97		EDXRF

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L971680-77	17-JUL-97	SSENT4-A	AS	190	PPM	LCS	13-AUG-97		EDXRF
			CD	80	PPM	LCS	13-AUG-97		EDXRF
			CR	66	PPM	LCS	13-AUG-97		EDXRF
			CU	4000	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	1800	PPM	LCS	13-AUG-97		EDXRF
			PH	8.0	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1500	PPM	LCS	13-AUG-97		EDXRF
L971680-78	17-JUL-97	SSENT4-B	AS	35	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	64	PPM	LCS	13-AUG-97		EDXRF
			CU	49	PPM	LCS	13-AUG-97		EDXRF
			FE	2.6	%	LCS	13-AUG-97		EDXRF
			PB	37	PPM	LCS	13-AUG-97		EDXRF
			PH	9.0	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	69	PPM	LCS	13-AUG-97		EDXRF
L971680-79	17-JUL-97	SSENT5-A	AS	750	PPM	LCS	13-AUG-97		EDXRF
			CD	160	PPM	LCS	13-AUG-97		EDXRF
			CR	200	PPM	LCS	13-AUG-97		EDXRF
			CU	12000	PPM	LCS	13-AUG-97		EDXRF
			FE	3.1	%	LCS	13-AUG-97		EDXRF
			PB	5400	PPM	LCS	13-AUG-97		EDXRF
			PH	7.8	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	3600	PPM	LCS	13-AUG-97		EDXRF
L971680-80	17-JUL-97	SSENT5-B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	12	PPM	LCS	13-AUG-97		EDXRF
			CR	90	PPM	LCS	13-AUG-97		EDXRF
			CU	300	PPM	LCS	13-AUG-97		EDXRF
			FE	2.2	%	LCS	13-AUG-97		EDXRF
			PB	280	PPM	LCS	13-AUG-97		EDXRF
			PH	8.9	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	180	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-81	17-JUL-97	SSENT5-B2	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	300	PPM	LCS	13-AUG-97		EDXRF
			FE	2.2	%	LCS	13-AUG-97		EDXRF
			PB	210	PPM	LCS	13-AUG-97		EDXRF
			PH	8.7	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	170	PPM	LCS	13-AUG-97		EDXRF
L971680-82	17-JUL-97	SSENT6-A	AS	380	PPM	LCS	13-AUG-97		EDXRF
			CD	100	PPM	LCS	13-AUG-97		EDXRF
			CR	73	PPM	LCS	13-AUG-97		EDXRF
			CU	5500	PPM	LCS	13-AUG-97		EDXRF
			FE	2.6	%	LCS	13-AUG-97		EDXRF
			PB	3800	PPM	LCS	13-AUG-97		EDXRF
			PH	8.2	pH	DC	09-SEP-97		9045
			SE	16	PPM	LCS	13-AUG-97		EDXRF
			ZN	2500	PPM	LCS	13-AUG-97		EDXRF
L971680-83	17-JUL-97	SSENT6-B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	34	PPM	LCS	13-AUG-97		EDXRF
			CR	47	PPM	LCS	13-AUG-97		EDXRF
			CU	1800	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	2200	PPM	LCS	13-AUG-97		EDXRF
			PH	8.6	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1500	PPM	LCS	13-AUG-97		EDXRF
L971680-84	17-JUL-97	SSENT7-A	AS	250	PPM	LCS	13-AUG-97		EDXRF
			CD	93	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	8300	PPM	LCS	13-AUG-97		EDXRF
			FE	2.8	%	LCS	13-AUG-97		EDXRF
			PB	2800	PPM	LCS	13-AUG-97		EDXRF
			PH	7.8	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	2400	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-85	17-JUL-97	SSENT7-B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	100	PPM	LCS	13-AUG-97		EDXRF
			CU	33	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	30	PPM	LCS	13-AUG-97		EDXRF
			PH	9.1	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	41	PPM	LCS	13-AUG-97		EDXRF
L971680-86	17-JUL-97	SSENT8-A	AS	520	PPM	LCS	13-AUG-97		EDXRF
			CD	120	PPM	LCS	13-AUG-97		EDXRF
			CR	88	PPM	LCS	13-AUG-97		EDXRF
			CU	5700	PPM	LCS	13-AUG-97		EDXRF
			FE	2.6	%	LCS	13-AUG-97		EDXRF
			PB	3000	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	11	PPM	LCS	13-AUG-97		EDXRF
			ZN	2100	PPM	LCS	13-AUG-97		EDXRF
L971680-87	17-JUL-97	SSENT8-A2	AS	450	PPM	LCS	13-AUG-97		EDXRF
			CD	120	PPM	LCS	13-AUG-97		EDXRF
			CR	170	PPM	LCS	13-AUG-97		EDXRF
			CU	5800	PPM	LCS	13-AUG-97		EDXRF
			FE	2.6	%	LCS	13-AUG-97		EDXRF
			PB	2800	PPM	LCS	13-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97		9045
			SE	11	PPM	LCS	13-AUG-97		EDXRF
			ZN	2000	PPM	LCS	13-AUG-97		EDXRF
L971680-88	17-JUL-97	SSENT8-B	AS	710	PPM	LCS	13-AUG-97		EDXRF
			CD	250	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	1400	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	1300	PPM	LCS	13-AUG-97		EDXRF
			PH	8.0	pH	DC	09-SEP-97		9045
			SE	12	PPM	LCS	13-AUG-97		EDXRF
			ZN	910	PPM	LCS	13-AUG-97		EDXRF

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Batch No: L971680

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD

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Batch No: L971470

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971470-1		EP-76B2	AS	380	PPM	LCS	13-AUG-97		EDXRF
			CD	16	PPM	LCS	13-AUG-97		EDXRF
			CR	380	PPM	LCS	13-AUG-97		EDXRF
			CU	5000	PPM	LCS	13-AUG-97		EDXRF
			FE	15	%	LCS	13-AUG-97		EDXRF
			PB	3500	PPM	LCS	13-AUG-97		EDXRF
			PH	10.1	pH	DC	09-SEP-97		9045
			SE	83	PPM	LCS	13-AUG-97		EDXRF
			ZN	11	%	LCS	13-AUG-97		EDXRF

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Batch No: L971715

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-1	17-JUL-97	SS1A8-10A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	13	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			CU	160	PPM	LCS	15-AUG-97		EDXRF
			FE	1.0	%	LCS	15-AUG-97		EDXRF
			PB	68	PPM	LCS	15-AUG-97		EDXRF
			PH	8.6	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	130	PPM	LCS	15-AUG-97		EDXRF
L971715-2	17-JUL-97	SS1A8-10B	AS	53	PPM	LCS	15-AUG-97		EDXRF
			CD	66	PPM	LCS	15-AUG-97		EDXRF
			CR	90	PPM	LCS	15-AUG-97		EDXRF
			CU	750	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	1400	PPM	LCS	15-AUG-97		EDXRF
			PH	7.8	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	890	PPM	LCS	15-AUG-97		EDXRF
L971715-3	17-JUL-97	SS1A8-11A	AS	910	PPM	LCS	15-AUG-97		EDXRF
			CD	430	PPM	LCS	15-AUG-97		EDXRF
			CR	33	PPM	LCS	15-AUG-97		EDXRF
			CU	20000	PPM	LCS	15-AUG-97		EDXRF
			FE	2.4	%	LCS	15-AUG-97		EDXRF
			PB	3200	PPM	LCS	15-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	31	PPM	LCS	15-AUG-97		EDXRF
			ZN	6300	PPM	LCS	15-AUG-97		EDXRF
L971715-4	17-JUL-97	SS1A8-11B	AS	62	PPM	LCS	15-AUG-97		EDXRF
			CD	86	PPM	LCS	15-AUG-97		EDXRF
			CR	31	PPM	LCS	15-AUG-97		EDXRF
			CU	2700	PPM	LCS	15-AUG-97		EDXRF
			FE	1.1	%	LCS	15-AUG-97		EDXRF
			PB	3700	PPM	LCS	15-AUG-97		EDXRF
			PH	7.5	pH	DC	09-SEP-97		9045
			SE	10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1100	PPM	LCS	15-AUG-97		EDXRF

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L971715-5	17-JUL-97	SS1A8-12A	AS	150	PPM	LCS	15-AUG-97		EDXRF
			CD	78	PPM	LCS	15-AUG-97		EDXRF
			CR	36	PPM	LCS	15-AUG-97		EDXRF
			CU	5100	PPM	LCS	15-AUG-97		EDXRF
			FE	1.7	%	LCS	15-AUG-97		EDXRF
			PB	3600	PPM	LCS	15-AUG-97		EDXRF
			PH	8.0	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2300	PPM	LCS	15-AUG-97		EDXRF
L971715-6	17-JUL-97	SS1A8-12B	AS	480	PPM	LCS	15-AUG-97		EDXRF
			CD	78	PPM	LCS	15-AUG-97		EDXRF
			CR	66	PPM	LCS	15-AUG-97		EDXRF
			CU	8300	PPM	LCS	15-AUG-97		EDXRF
			FE	3.2	%	LCS	15-AUG-97		EDXRF
			PB	4900	PPM	LCS	15-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2400	PPM	LCS	15-AUG-97		EDXRF
L971715-7	17-JUL-97	SS1A8-13A	AS	33	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			CU	980	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	230	PPM	LCS	15-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	250	PPM	LCS	15-AUG-97		EDXRF
L971715-8	17-JUL-97	SS1A8-13B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	49	PPM	LCS	15-AUG-97		EDXRF
			CR	72	PPM	LCS	15-AUG-97		EDXRF
			CU	8300	PPM	LCS	15-AUG-97		EDXRF
			FE	2.6	%	LCS	15-AUG-97		EDXRF
			PB	3100	PPM	LCS	15-AUG-97		EDXRF
			PH	8.0	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2000	PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-9	17-JUL-97	SS1A8-14A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	55	PPM	LCS	15-AUG-97		EDXRF
			CU	280	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	83	PPM	LCS	15-AUG-97		EDXRF
			PH	8.7	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	93	PPM	LCS	15-AUG-97		EDXRF
L971715-10	17-JUL-97	SS1A8-14A2	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			CU	270	PPM	LCS	15-AUG-97		EDXRF
			FE	1.4	%	LCS	15-AUG-97		EDXRF
			PB	73	PPM	LCS	15-AUG-97		EDXRF
			PH	8.9	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	75	PPM	LCS	15-AUG-97		EDXRF
L971715-11	17-JUL-97	SS1A8-14B	AS	110	PPM	LCS	15-AUG-97		EDXRF
			CD	25	PPM	LCS	15-AUG-97		EDXRF
			CR	350	PPM	LCS	15-AUG-97		EDXRF
			CU	4900	PPM	LCS	15-AUG-97		EDXRF
			FE	15	%	LCS	15-AUG-97		EDXRF
			PB	1200	PPM	LCS	15-AUG-97		EDXRF
			PH	8.5	pH	DC	09-SEP-97		9045
			SE	23	PPM	LCS	15-AUG-97		EDXRF
			ZN	13000	PPM	LCS	15-AUG-97		EDXRF
L971715-12	18-JUL-97	SS1A8-15A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	11	PPM	LCS	15-AUG-97		EDXRF
			CR	45	PPM	LCS	15-AUG-97		EDXRF
			CU	1600	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	160	PPM	LCS	15-AUG-97		EDXRF
			PH	9.0	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	370	PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-13	18-JUL-97	SS1A8-15B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	14	PPM	LCS	15-AUG-97		EDXRF
			CR	31	PPM	LCS	15-AUG-97		EDXRF
			CU	1900	PPM	LCS	15-AUG-97		EDXRF
			FE	1.6	%	LCS	15-AUG-97		EDXRF
			PB	900	PPM	LCS	15-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	480	PPM	LCS	15-AUG-97		EDXRF
L971715-14	18-JUL-97	SS1A8-16A	AS	930	PPM	LCS	15-AUG-97		EDXRF
			CD	240	PPM	LCS	15-AUG-97		EDXRF
			CR	120	PPM	LCS	15-AUG-97		EDXRF
			CU	22000	PPM	LCS	15-AUG-97		EDXRF
			FE	3.1	%	LCS	15-AUG-97		EDXRF
			PB	4000	PPM	LCS	15-AUG-97		EDXRF
			PH	8.2	pH	DC	09-SEP-97		9045
			SE	31	PPM	LCS	15-AUG-97		EDXRF
			ZN	5000	PPM	LCS	15-AUG-97		EDXRF
L971715-15	18-JUL-97	SS1A8-16B	AS	370	PPM	LCS	15-AUG-97		EDXRF
			CD	190	PPM	LCS	15-AUG-97		EDXRF
			CR	92	PPM	LCS	15-AUG-97		EDXRF
			CU	9500	PPM	LCS	15-AUG-97		EDXRF
			FE	2.6	%	LCS	15-AUG-97		EDXRF
			PB	10000	PPM	LCS	15-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97		9045
			SE	27	PPM	LCS	15-AUG-97		EDXRF
			ZN	4000	PPM	LCS	15-AUG-97		EDXRF
L971715-16	18-JUL-97	SS1A8-17A	AS	98	PPM	LCS	15-AUG-97		EDXRF
			CD	29	PPM	LCS	15-AUG-97		EDXRF
			CR	30	PPM	LCS	15-AUG-97		EDXRF
			CU	3700	PPM	LCS	15-AUG-97		EDXRF
			FE	1.5	%	LCS	15-AUG-97		EDXRF
			PB	470	PPM	LCS	15-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	680	PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-17	18-JUL-97	SS1A8-17B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	59	PPM	LCS	15-AUG-97		EDXRF
			CU	710	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	380	PPM	LCS	15-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	440	PPM	LCS	15-AUG-97		EDXRF
L971715-18	18-JUL-97	SS1A8-18A	AS	260	PPM	LCS	15-AUG-97		EDXRF
			CD	100	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			CU	890	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	300	PPM	LCS	15-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	790	PPM	LCS	15-AUG-97		EDXRF
L971715-19	18-JUL-97	SS1A8-18A2	AS	280	PPM	LCS	15-AUG-97		EDXRF
			CD	100	PPM	LCS	15-AUG-97		EDXRF
			CR	87	PPM	LCS	15-AUG-97		EDXRF
			CU	800	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	240	PPM	LCS	15-AUG-97		EDXRF
			PH	8.5	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	840	PPM	LCS	15-AUG-97		EDXRF
L971715-20	18-JUL-97	SS1A8-18B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	99	PPM	LCS	15-AUG-97		EDXRF
			CR	77	PPM	LCS	15-AUG-97		EDXRF
			CU	3700	PPM	LCS	15-AUG-97		EDXRF
			FE	2.1	%	LCS	15-AUG-97		EDXRF
			PB	3600	PPM	LCS	15-AUG-97		EDXRF
			PH	8.0	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2600	PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-21	18-JUL-97	SS1A8-19A	AS	44	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	76	PPM	LCS	15-AUG-97		EDXRF
			CU	1200	PPM	LCS	15-AUG-97		EDXRF
			FE	1.5	%	LCS	15-AUG-97		EDXRF
			PB	350	PPM	LCS	15-AUG-97		EDXRF
			PH	8.6	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	280	PPM	LCS	15-AUG-97		EDXRF
L971715-22	18-JUL-97	SS1A8-19B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	48	PPM	LCS	15-AUG-97		EDXRF
			CU	560	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	560	PPM	LCS	15-AUG-97		EDXRF
			PH	8.3	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	470	PPM	LCS	15-AUG-97		EDXRF
L971715-23	18-JUL-97	SS1A8-20A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	64	PPM	LCS	15-AUG-97		EDXRF
			CU	200	PPM	LCS	15-AUG-97		EDXRF
			FE	1.2	%	LCS	15-AUG-97		EDXRF
			PB	95	PPM	LCS	15-AUG-97		EDXRF
			PH	8.3	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	130	PPM	LCS	15-AUG-97		EDXRF
L971715-24	18-JUL-97	SS1A8-20B	AS	330	PPM	LCS	15-AUG-97		EDXRF
			CD	89	PPM	LCS	15-AUG-97		EDXRF
			CR	230	PPM	LCS	15-AUG-97		EDXRF
			CU	10000	PPM	LCS	15-AUG-97		EDXRF
			FE	12	%	LCS	15-AUG-97		EDXRF
			PB	3900	PPM	LCS	15-AUG-97		EDXRF
			PH	9.0	pH	DC	09-SEP-97		9045
			SE	38	PPM	LCS	15-AUG-97		EDXRF
			ZN	15000	PPM	LCS	15-AUG-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971715

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-25	18-JUL-97	SS1A8-21A	AS	460	PPM	LCS	15-AUG-97		EDXRF
			CD	300	PPM	LCS	15-AUG-97		EDXRF
			CR	59	PPM	LCS	15-AUG-97		EDXRF
			CU	12000	PPM	LCS	15-AUG-97		EDXRF
			FE	2.0	%	LCS	15-AUG-97		EDXRF
			PB	1400	PPM	LCS	15-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	21	PPM	LCS	15-AUG-97		EDXRF
			ZN	5900	PPM	LCS	15-AUG-97		EDXRF
L971715-26	18-JUL-97	SS1A8-21B	AS	780	PPM	LCS	15-AUG-97		EDXRF
			CD	110	PPM	LCS	15-AUG-97		EDXRF
			CR	100	PPM	LCS	15-AUG-97		EDXRF
			CU	19000	PPM	LCS	15-AUG-97		EDXRF
			FE	2.7	%	LCS	15-AUG-97		EDXRF
			PB	2900	PPM	LCS	15-AUG-97		EDXRF
			PH	8.0	pH	DC	09-SEP-97		9045
			SE	15	PPM	LCS	15-AUG-97		EDXRF
			ZN	3200	PPM	LCS	15-AUG-97		EDXRF
L971715-27	18-JUL-97	SS1A8-22A	AS	6600	PPM	LCS	15-AUG-97		EDXRF
			CD	1400	PPM	LCS	15-AUG-97		EDXRF
			CR	110	PPM	LCS	15-AUG-97		EDXRF
			CU	23000	PPM	LCS	15-AUG-97		EDXRF
			FE	5.6	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97		9045
			SE	53	PPM	LCS	15-AUG-97		EDXRF
			ZN	7600	PPM	LCS	15-AUG-97		EDXRF
L971715-28	18-JUL-97	SS1A8-22B	AS	2600	PPM	LCS	15-AUG-97		EDXRF
			CD	600	PPM	LCS	15-AUG-97		EDXRF
			CR	45	PPM	LCS	15-AUG-97		EDXRF
			CU	2900	PPM	LCS	15-AUG-97		EDXRF
			FE	2.4	%	LCS	15-AUG-97		EDXRF
			PB	1500	PPM	LCS	15-AUG-97		EDXRF
			PH	7.3	pH	DC	09-SEP-97		9045
			SE	24	PPM	LCS	15-AUG-97		EDXRF
			ZN	2300	PPM	LCS	15-AUG-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971715

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-29	18-JUL-97	SS1A8-23A	AS	140	PPM	LCS	15-AUG-97		EDXRF
			CD	29	PPM	LCS	15-AUG-97		EDXRF
			CR	97	PPM	LCS	15-AUG-97		EDXRF
			CU	820	PPM	LCS	15-AUG-97		EDXRF
			FE	1.2	%	LCS	15-AUG-97		EDXRF
			PB	590	PPM	LCS	15-AUG-97		EDXRF
			PH	9.2	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1500	PPM	LCS	15-AUG-97		EDXRF
L971715-30	18-JUL-97	SS1A8-23B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	21	PPM	LCS	15-AUG-97		EDXRF
			CR	65	PPM	LCS	15-AUG-97		EDXRF
			CU	570	PPM	LCS	15-AUG-97		EDXRF
			FE	1.5	%	LCS	15-AUG-97		EDXRF
			PB	490	PPM	LCS	15-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	420	PPM	LCS	15-AUG-97		EDXRF
L971715-31	18-JUL-97	SS1A8-24A	AS	110	PPM	LCS	15-AUG-97		EDXRF
			CD	21	PPM	LCS	15-AUG-97		EDXRF
			CR	100	PPM	LCS	15-AUG-97		EDXRF
			CU	2900	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	550	PPM	LCS	15-AUG-97		EDXRF
			PH	8.6	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1000	PPM	LCS	15-AUG-97		EDXRF
L971715-32	18-JUL-97	SS1A8-24B	AS	44	PPM	LCS	15-AUG-97		EDXRF
			CD	190	PPM	LCS	15-AUG-97		EDXRF
			CR	88	PPM	LCS	15-AUG-97		EDXRF
			CU	2000	PPM	LCS	15-AUG-97		EDXRF
			FE	3.0	%	LCS	15-AUG-97		EDXRF
			PB	850	PPM	LCS	15-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	19	PPM	LCS	15-AUG-97		EDXRF
			ZN	2100	PPM	LCS	15-AUG-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971715

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-33	18-JUL-97	SS1A8-25A	AS	4400	PPM	LCS	15-AUG-97		EDXRF
			CD	910	PPM	LCS	15-AUG-97		EDXRF
			CR	170	PPM	LCS	15-AUG-97		EDXRF
			CU	65000	PPM	LCS	15-AUG-97		EDXRF
			FE	5.9	%	LCS	15-AUG-97		EDXRF
			PB	20000	PPM	LCS	15-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	180	PPM	LCS	15-AUG-97		EDXRF
			ZN	16000	PPM	LCS	15-AUG-97		EDXRF
L971715-34	18-JUL-97	SS1A8-25B	AS	900	PPM	LCS	15-AUG-97		EDXRF
			CD	120	PPM	LCS	15-AUG-97		EDXRF
			CR	99	PPM	LCS	15-AUG-97		EDXRF
			CU	9800	PPM	LCS	15-AUG-97		EDXRF
			FE	14	%	LCS	15-AUG-97		EDXRF
			PB	3600	PPM	LCS	15-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	31	PPM	LCS	15-AUG-97		EDXRF
			ZN	19000	PPM	LCS	15-AUG-97		EDXRF
L971715-35	18-JUL-97	SS1A8-26A	AS	2900	PPM	LCS	15-AUG-97		EDXRF
			CD	520	PPM	LCS	15-AUG-97		EDXRF
			CR	85	PPM	LCS	15-AUG-97		EDXRF
			CU	11	%	LCS	15-AUG-97		EDXRF
			FE	11	%	LCS	15-AUG-97		EDXRF
			PB	25000	PPM	LCS	15-AUG-97		EDXRF
			PH	5.7	pH	DC	09-SEP-97		9045
			SE	94	PPM	LCS	15-AUG-97		EDXRF
			ZN	12000	PPM	LCS	15-AUG-97		EDXRF
L971715-36	18-JUL-97	SS1A8-26B	AS	290	PPM	LCS	15-AUG-97		EDXRF
			CD	410	PPM	LCS	15-AUG-97		EDXRF
			CR	120	PPM	LCS	15-AUG-97		EDXRF
			CU	9500	PPM	LCS	15-AUG-97		EDXRF
			FE	16	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			PH	6.7	pH	DC	09-SEP-97		9045
			SE	10	PPM	LCS	15-AUG-97		EDXRF
			ZN	33000	PPM	LCS	15-AUG-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971715

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-37	18-JUL-97	SS1A8-27A	AS	3300	PPM	LCS	15-AUG-97		EDXRF
			CD	380	PPM	LCS	15-AUG-97		EDXRF
			CR	290	PPM	LCS	15-AUG-97		EDXRF
			CU	96000	PPM	LCS	15-AUG-97		EDXRF
			FE	7.0	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			PH	8.2	pH	DC	09-SEP-97		9045
			SE	98	PPM	LCS	15-AUG-97		EDXRF
			ZN	11000	PPM	LCS	15-AUG-97		EDXRF
L971715-38	18-JUL-97	SS1A8-27B	AS	240	PPM	LCS	15-AUG-97		EDXRF
			CD	33	PPM	LCS	15-AUG-97		EDXRF
			CR	31	PPM	LCS	15-AUG-97		EDXRF
			CU	8800	PPM	LCS	15-AUG-97		EDXRF
			FE	2.0	%	LCS	15-AUG-97		EDXRF
			PB	790	PPM	LCS	15-AUG-97		EDXRF
			PH	8.7	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1200	PPM	LCS	15-AUG-97		EDXRF
L971715-39	18-JUL-97	SS1A8-28A	AS	4400	PPM	LCS	15-AUG-97		EDXRF
			CD	1800	PPM	LCS	15-AUG-97		EDXRF
			CR	210	PPM	LCS	15-AUG-97		EDXRF
			CU	22000	PPM	LCS	15-AUG-97		EDXRF
			FE	3.3	%	LCS	15-AUG-97		EDXRF
			PB	7300	PPM	LCS	15-AUG-97		EDXRF
			PH	8.0	pH	DC	09-SEP-97		9045
			SE	39	PPM	LCS	15-AUG-97		EDXRF
			ZN	6100	PPM	LCS	15-AUG-97		EDXRF
L971715-40	18-JUL-97	SS1A8-28B	AS	3300	PPM	LCS	15-AUG-97		EDXRF
			CD	1300	PPM	LCS	15-AUG-97		EDXRF
			CR	100	PPM	LCS	15-AUG-97		EDXRF
			CU	12000	PPM	LCS	15-AUG-97		EDXRF
			FE	4.9	%	LCS	15-AUG-97		EDXRF
			PB	19000	PPM	LCS	15-AUG-97		EDXRF
			PH	7.5	pH	DC	09-SEP-97		9045
			SE	53	PPM	LCS	15-AUG-97		EDXRF
			ZN	19000	PPM	LCS	15-AUG-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L971715

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-41	18-JUL-97	SS1A8-29A	AS	2900	PPM	LCS	15-AUG-97		EDXRF
			CD	470	PPM	LCS	15-AUG-97		EDXRF
			CR	520	PPM	LCS	15-AUG-97		EDXRF
			CU	65000	PPM	LCS	15-AUG-97		EDXRF
			FE	13	%	LCS	15-AUG-97		EDXRF
			PB	9700	PPM	LCS	15-AUG-97		EDXRF
			PH	7.8	pH	DC	09-SEP-97		9045
			SE	160	PPM	LCS	15-AUG-97		EDXRF
			ZN	16000	PPM	LCS	15-AUG-97		EDXRF
L971715-42	18-JUL-97	SS1A8-29B	AS	1100	PPM	LCS	15-AUG-97		EDXRF
			CD	350	PPM	LCS	15-AUG-97		EDXRF
			CR	230	PPM	LCS	15-AUG-97		EDXRF
			CU	31000	PPM	LCS	15-AUG-97		EDXRF
			FE	12	%	LCS	15-AUG-97		EDXRF
			PB	22000	PPM	LCS	15-AUG-97		EDXRF
			PH	7.5	pH	DC	09-SEP-97		9045
			SE	60	PPM	LCS	15-AUG-97		EDXRF
			ZN	24000	PPM	LCS	15-AUG-97		EDXRF
L971715-43	18-JUL-97	SS1A8-30A	AS	2000	PPM	LCS	15-AUG-97		EDXRF
			CD	840	PPM	LCS	15-AUG-97		EDXRF
			CR	70	PPM	LCS	15-AUG-97		EDXRF
			CU	19	%	LCS	15-AUG-97		EDXRF
			FE	7.8	%	LCS	15-AUG-97		EDXRF
			PB	20000	PPM	LCS	15-AUG-97		EDXRF
			PH	5.6	pH	DC	09-SEP-97		9045
			SE	73	PPM	LCS	15-AUG-97		EDXRF
			ZN	9400	PPM	LCS	15-AUG-97		EDXRF
L971715-44	18-JUL-97	SS1A8-30A2	AS	2300	PPM	LCS	15-AUG-97		EDXRF
			CD	910	PPM	LCS	15-AUG-97		EDXRF
			CR	150	PPM	LCS	15-AUG-97		EDXRF
			CU	18	%	LCS	15-AUG-97		EDXRF
			FE	7.2	%	LCS	15-AUG-97		EDXRF
			PB	17000	PPM	LCS	15-AUG-97		EDXRF
			PH	5.4	pH	DC	09-SEP-97		9045
			SE	74	PPM	LCS	15-AUG-97		EDXRF
			ZN	11000	PPM	LCS	15-AUG-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971715

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-45	18-JUL-97	SS1A8-30B	AS	220	PPM	LCS	15-AUG-97		EDXRF
			CD	36	PPM	LCS	15-AUG-97		EDXRF
			CR	250	PPM	LCS	15-AUG-97		EDXRF
			CU	21000	PPM	LCS	15-AUG-97		EDXRF
			FE	21	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			PH	5.0	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	10000	PPM	LCS	15-AUG-97		EDXRF
L971715-46	18-JUL-97	SS1A8-31A	AS	48	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			CU	400	PPM	LCS	15-AUG-97		EDXRF
			FE	1.4	%	LCS	15-AUG-97		EDXRF
			PB	400	PPM	LCS	15-AUG-97		EDXRF
			PH	9.0	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	400	PPM	LCS	15-AUG-97		EDXRF
L971715-47	18-JUL-97	SS1A8-31B	AS	94	PPM	LCS	15-AUG-97		EDXRF
			CD	280	PPM	LCS	15-AUG-97		EDXRF
			CR	80	PPM	LCS	15-AUG-97		EDXRF
			CU	6500	PPM	LCS	15-AUG-97		EDXRF
			FE	2.6	%	LCS	15-AUG-97		EDXRF
			PB	9900	PPM	LCS	15-AUG-97		EDXRF
			PH	7.8	pH	DC	09-SEP-97		9045
			SE	40	PPM	LCS	15-AUG-97		EDXRF
			ZN	7300	PPM	LCS	15-AUG-97		EDXRF

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971368

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971368-3		Laboratory Control	PH	98	% RECOVERY	DC	09-SEP-97		9045
WG971368-4		Duplicate	PH	<1	% RPD	DC	09-SEP-97		9045
WG971368-8		Laboratory Control	PH	100	% RECOVERY	DC	09-SEP-97		9045
WG971368-9		Duplicate	PH	1.5	% RPD	DC	09-SEP-97		9045
WG971368-13		Laboratory Control	PH	98	% RECOVERY	DC	09-SEP-97		9045
WG971368-14		Duplicate	PH	<1	% RPD	DC	09-SEP-97		9045
WG971368-18		Laboratory Control	PH	98	% RECOVERY	DC	09-SEP-97		9045
WG971368-19		Duplicate	PH	<1	% RPD	DC	09-SEP-97		9045
WG971368-23		Laboratory Control	PH	98	% RECOVERY	DC	09-SEP-97		9045
WG971368-24		Duplicate	PH	<1	% RPD	DC	09-SEP-97		9045
WG971368-28		Laboratory Control	PH	100	% RECOVERY	DC	09-SEP-97		9045
WG971368-29		Duplicate	PH	1.3	% RPD	DC	09-SEP-97		9045
WG971368-33		Laboratory Control	PH	100	% RECOVERY	DC	09-SEP-97		9045
WG971368-34		Duplicate	PH	<1	% RPD	DC	09-SEP-97		9045

Approved

Reviewer

ASARCO

SOIL ANALYTICAL

RECEIVED
OCT 27 1997
HYDROMETRICS, INC.

October 23, 1997

Mr. Lairy Johnson
HYDROMETRICS INCORPORATED
P O Box 220182
El Paso TX 79913

Please find attached the analytical results for five samples collected on May 28, through July 15, 1997 from the **ASARCO EL Paso Plant Site.**

The samples were digested using hydrofluoric acid digestion and results are reported on a dry weight basis.

The samples were received by the laboratory on October 3, 1997.

Sincerely,

Milan Mraz
Chemist

MM/jh
Attach.

cc: Jvanek (w/attach.)
GRStanga "

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972383

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972383-1	11-JUN-97	EP-71RA	HF Digestion(L971334-1 & L971526-1)	AS	1117.	ppm	JJT	21-OCT-97		6010
				CD	99.	ppm	MM	21-OCT-97		6010
				CR	93.	ppm	JJT	21-OCT-97		6010
				CU	21590.	ppm	JJT	21-OCT-97		6010
				FE	49800.	ppm	MM	21-OCT-97		6010
				PB	6516.	ppm	MM	21-OCT-97		6010
				SE	36.	ppm	JJT	21-OCT-97		6010
				ZN	3969.	ppm	MM	21-OCT-97		6010
L972383-2	28-MAY-97	EP-67B	HF Digestion(L971239-2 & L971526-3)	AS	229.	ppm	JJT	21-OCT-97		6010
				CD	159.	ppm	MM	21-OCT-97		6010
				CR	68.	ppm	JJT	21-OCT-97		6010
				CU	1631.	ppm	JJT	21-OCT-97		6010
				FE	20150.	ppm	MM	21-OCT-97		6010
				PB	429.	ppm	MM	21-OCT-97		6010
				SE	<10.	ppm	JJT	21-OCT-97		6010
				ZN	505.	ppm	MM	21-OCT-97		6010
L972383-3	28-MAY-97	EP-67C	HF Digestion(L971239-3 & L971526-4)	AS	189.	ppm	JJT	21-OCT-97		6010
				CD	48.	ppm	MM	21-OCT-97		6010
				CR	65.	ppm	JJT	21-OCT-97		6010
				CU	228.	ppm	JJT	21-OCT-97		6010
				FE	19570.	ppm	MM	21-OCT-97		6010
				PB	20.	ppm	MM	21-OCT-97		6010
				SE	<10.	ppm	JJT	21-OCT-97		6010
				ZN	50.	ppm	MM	21-OCT-97		6010
L972383-4	19-JUN-97	RIBH-1A	HF Digestion(L971545-1 & L971749-1)	AS	2625.	ppm	JJT	21-OCT-97		6010
				CD	1940.	ppm	MM	21-OCT-97		6010
				CR	201.	ppm	JJT	21-OCT-97		6010
				CU	3660.	ppm	JJT	21-OCT-97		6010
				FE	144500.	ppm	MM	21-OCT-97		6010
				PB	10530.	ppm	MM	21-OCT-97		6010
				SE	32.	ppm	JJT	21-OCT-97		6010
				ZN	16530.	ppm	MM	21-OCT-97		6010
L972383-5	15-JUL-97	SS1A3-9B	HF Digestion(L971680-34 & L971910-2)	AS	532.	ppm	JJT	21-OCT-97		6010
				CD	259.	ppm	MM	21-OCT-97		6010
				CR	74.	ppm	JJT	21-OCT-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972383

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER		VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972383-5	15-JUL-97	SS1A3-9B	HF Digestion(L971680-34 & L971910-2)	CU	2253.	ppm	JJT	21-OCT-97		6010
				FE	21800.	ppm	MM	21-OCT-97		6010
				PB	2167.	ppm	MM	21-OCT-97		6010
				SE	15.	ppm	JJT	21-OCT-97		6010
				ZN	2333.	ppm	MM	21-OCT-97		6010

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971567

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971567-5		Detection Limit	AS	10.	ppm				6010
			CD	5.0	ppm				6010
			CR	10.	ppm				6010
			CU	10.	ppm				6010
			FE	100.	ppm				6010
			PB	10.	ppm				6010
			SE	10.	ppm				6010
			ZN	10.	ppm				6010

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971567

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971567-1		Matrix Spike	AS	83.	% RECOVERY	JJT	21-OCT-97		6010
			CD	92.	% RECOVERY	MM	21-OCT-97		6010
			CR	93.	% RECOVERY	JJT	21-OCT-97		6010
			CU	76.	% RECOVERY	JJT	21-OCT-97		6010
			FE	SR>4XSA	% RECOVERY	MM	21-OCT-97		6010
			PB	89.	% RECOVERY	MM	21-OCT-97		6010
			SE	81.	% RECOVERY	JJT	21-OCT-97		6010
			ZN	85.	% RECOVERY	MM	21-OCT-97		6010
WG971567-2		Prep Blank	AS	<10.	ppm	JJT	21-OCT-97		6010
			CD	<5.0	ppm	MM	21-OCT-97		6010
			CR	<10.	ppm	JJT	21-OCT-97		6010
			CU	<10.	ppm	JJT	21-OCT-97		6010
			FE	<100.	ppm	MM	21-OCT-97		6010
			PB	<10.	ppm	MM	21-OCT-97		6010
			SE	<10.	ppm	JJT	21-OCT-97		6010
			ZN	<10.	ppm	MM	21-OCT-97		6010
WG971567-3		Laboratory Control	AS	87.	% RECOVERY	JJT	21-OCT-97		6010
			CD	91.	% RECOVERY	MM	21-OCT-97		6010
			CR	79.	% RECOVERY	JJT	21-OCT-97		6010
			CU	102.	% RECOVERY	JJT	21-OCT-97		6010
			FE	89.	% RECOVERY	MM	21-OCT-97		6010
			PB	92.	% RECOVERY	MM	21-OCT-97		6010
			SE	113.	% RECOVERY	JJT	21-OCT-97		6010
			ZN	89.	% RECOVERY	MM	21-OCT-97		6010
WG971567-4		Duplicate	AS	<1.0	% RPD	JJT	21-OCT-97		6010
			CD	-2.0	% RPD	MM	21-OCT-97		6010
			CR	5.9	% RPD	JJT	21-OCT-97		6010
			CU	1.2	% RPD	JJT	21-OCT-97		6010
			FE	-3.5	% RPD	MM	21-OCT-97		6010
			PB	-3.5	% RPD	MM	21-OCT-97		6010
			SE	1.6	% RPD	JJT	21-OCT-97		6010
			ZN	-1.4	% RPD	MM	21-OCT-97		6010
WG971567-5		Detection Limit	AS	10.	ppm				6010
			CD	5.0	ppm				6010
			CR	10.	ppm				6010

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ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971567

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971567-5		Detection Limit	CU	10.	ppm				6010
			FE	100.	ppm				6010
			PB	10.	ppm				6010
			SE	10.	ppm				6010
			ZN	10.	ppm				6010

Approved

E. B. Taylor

Reviewer

ASARCO

November 19, 1997

RECEIVED
NOV 24 1997
HYDROMETRICS, INC.

Mr. Lairy Johnson
Hydrometrics
El Paso

Please find attached the analytical results for thirty five samples collected on May 28 through July 18, 1997 from the ASARCO EL Paso Plant Site.

The samples were digested using hydrofluoric acid digestion and results are reported on a dry weight basis.

The samples were received by the laboratory on October 29, 1997.

Sincerely,

Milan Mraz
Chemist

MM/mo
Attach.

cc: GRStanga (w/attach.)
JVanek "

0734.502.100
Resubmit of Conf Sample

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972604

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972604-1	28-MAY-97	EP-67A	Resub (L971239-1/L971526-2)	AS	1210.	ppm	MM	10-NOV-97		6010
				CD	334.	ppm	MM	10-NOV-97		6010
				CR	78.	ppm	JJT	14-NOV-97		6010
				CU	17290.	ppm	MM	10-NOV-97		6010
				FE	24040.	ppm	MM	10-NOV-97		6010
				PB	8750.	ppm	MM	10-NOV-97		6010
				SE	27.	ppm	JJT	14-NOV-97		6010
				ZN	3689.	ppm	MM	10-NOV-97		6010
L972604-2	03-JUN-97	EP-76B	Resub (L971325-5/L971526-5)	AS	608.	ppm	MM	10-NOV-97		6010
				CD	14.	ppm	JJT	12-NOV-97		6010
				CR	539.	ppm	JJT	14-NOV-97		6010
				CU	5242.	ppm	MM	10-NOV-97		6010
				FE	229800.	ppm	MM	10-NOV-97		6010
				PB	5189.	ppm	MM	10-NOV-97		6010
				SE	103.	ppm	JJT	14-NOV-97		6010
				ZN	128100.	ppm	MM	10-NOV-97		6010
L972604-3	13-JUN-97	EP-86D	Resub (L971402-8/L971526-6)	AS	<10.	ppm	JJT	12-NOV-97		6010
				CD	<5.0	ppm	MM	10-NOV-97		6010
				CR	39.	ppm	JJT	14-NOV-97		6010
				CU	25.	ppm	MM	10-NOV-97		6010
				FE	17540.	ppm	MM	10-NOV-97		6010
				PB	50.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	145.	ppm	MM	10-NOV-97		6010
L972604-4	04-JUN-97	EP-77A	Resub (L971325-10/L971526-7)	AS	340.	ppm	MM	10-NOV-97		6010
				CD	13.	ppm	MM	10-NOV-97		6010
				CR	69	ppm	JJT	14-NOV-97		6010
				CU	1685.	ppm	MM	10-NOV-97		6010
				FE	101300.	ppm	MM	10-NOV-97		6010
				PB	2119.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	1005.	ppm	MM	10-NOV-97		6010
L972604-5	04-JUN-97	EP-77B	Resub (L971325-11/L971526-8)	AS	114.	ppm	JJT	14-NOV-97		6010
				CD	38.	ppm	MM	10-NOV-97		6010
				CR	73.	ppm	JJT	14-NOV-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972604

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972604-5	04-JUN-97	EP-77B	Resub (L971325-11/L971526-8)	CU	254.	ppm	MM	10-NOV-97		6010
				FE	32640.	ppm	MM	10-NOV-97		6010
				PB	706.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	657.	ppm	MM	10-NOV-97		6010
L972604-6	11-JUN-97	EP-84C	Resub (L971344-15/L971526-9)	AS	15.	ppm	JJT	12-NOV-97		6010
				CD	<5.0	ppm	MM	10-NOV-97		6010
				CR	52.	ppm	JJT	14-NOV-97		6010
				CU	58.	ppm	MM	10-NOV-97		6010
				FE	20860.	ppm	MM	10-NOV-97		6010
				PB	47.	ppm	MM	10-NOV-97		6010
				SE	21.	ppm	JJT	14-NOV-97		6010
				ZN	138.	ppm	MM	10-NOV-97		6010
L972604-7	11-JUN-97	EP-84D	Resub (L971344-16/L971526-10)	AS	<10.	ppm	JJT	12-NOV-97		6010
				CD	<5.0	ppm	MM	10-NOV-97		6010
				CR	54.	ppm	JJT	14-NOV-97		6010
				CU	38.	ppm	MM	10-NOV-97		6010
				FE	20170.	ppm	MM	10-NOV-97		6010
				PB	26.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	92.	ppm	MM	10-NOV-97		6010
L972604-8	04-JUN-97	EP-78A	Resub (L971325-18/L971526-11)	AS	663.	ppm	MM	10-NOV-97		6010
				CD	37.	ppm	MM	10-NOV-97		6010
				CR	53.	ppm	JJT	14-NOV-97		6010
				CU	570.	ppm	MM	10-NOV-97		6010
				FE	30960.	ppm	MM	10-NOV-97		6010
				PB	420.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	2111.	ppm	MM	10-NOV-97		6010
L972604-9	16-JUN-97	EP-88A	Resub (L971402-22/L971526-12)	AS	509.	ppm	MM	10-NOV-97		6010
				CD	110.	ppm	MM	10-NOV-97		6010
				CR	67.	ppm	JJT	14-NOV-97		6010
				CU	4069.	ppm	MM	10-NOV-97		6010
				FE	18280.	ppm	MM	10-NOV-97		6010
				PB	2776.	ppm	MM	10-NOV-97		6010

ASARCO TECHNI ERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972604

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972604-9	16-JUN-97	EP-88A	Resub (L971402-22/L971526-12)	SE	21.	ppm	JJT	14-NOV-97		6010
				ZN	2574.	ppm	MM	10-NOV-97		6010
L972604-10	18-JUN-97	EP-89A	Resub (L971402-31/L971526-13)	AS	337.	ppm	MM	10-NOV-97		6010
				CD	78.	ppm	MM	10-NOV-97		6010
				CR	57.	ppm	JJT	14-NOV-97		6010
				CU	3969.	ppm	MM	10-NOV-97		6010
				FE	26210.	ppm	MM	10-NOV-97		6010
				PB	8417.	ppm	MM	10-NOV-97		6010
				SE	11.	ppm	JJT	14-NOV-97		6010
				ZN	3429.	ppm	MM	10-NOV-97		6010
L972604-11	18-JUN-97	EP-89B	Resub (L971402-32/L971526-14)	AS	<10.	ppm	JJT	12-NOV-97		6010
				CD	<5.0	ppm	MM	10-NOV-97		6010
				CR	38.	ppm	JJT	14-NOV-97		6010
				CU	33.	ppm	MM	10-NOV-97		6010
				FE	19300.	ppm	MM	10-NOV-97		6010
				PB	38.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	66.	ppm	MM	10-NOV-97		6010
L972604-12	31-MAY-97	EP-70E	Resub (L971239-32/L971526-15)	AS	286.	ppm	MM	10-NOV-97		6010
				CD	46.	ppm	MM	10-NOV-97		6010
				CR	46.	ppm	JJT	14-NOV-97		6010
				CU	23.	ppm	MM	10-NOV-97		6010
				FE	18870.	ppm	MM	10-NOV-97		6010
				PB	22.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	651.	ppm	MM	10-NOV-97		6010
L972604-13	12-JUN-97	EP-70RJ	Resub (L971344-34/L971526-16)	AS	<10.	ppm	JJT	12-NOV-97		6010
				CD	<5.0	ppm	MM	10-NOV-97		6010
				CR	41.	ppm	JJT	14-NOV-97		6010
				CU	24.	ppm	MM	10-NOV-97		6010
				FE	13120.	ppm	MM	10-NOV-97		6010
				PB	15.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	37.	ppm	MM	10-NOV-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972604

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972604-14	11-JUN-97	EP-71RE	Resub (L971344-47/L971526-17)	AS	<10.	ppm	JJT	12-NOV-97		6010
				CD	<5.0	ppm	MM	10-NOV-97		6010
				CR	37.	ppm	JJT	14-NOV-97		6010
				CU	25.	ppm	MM	10-NOV-97		6010
				FE	15160.	ppm	MM	10-NOV-97		6010
				PB	25.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	40.	ppm	MM	10-NOV-97		6010
L972604-15	02-JUN-97	EP-74H	Resub (L971239-58/L971526-18)	AS	<10.	ppm	JJT	12-NOV-97		6010
				CD	<5.0	ppm	MM	10-NOV-97		6010
				CR	50.	ppm	JJT	14-NOV-97		6010
				CU	20.	ppm	MM	10-NOV-97		6010
				FE	17830.	ppm	MM	10-NOV-97		6010
				PB	24.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	45.	ppm	MM	10-NOV-97		6010
L972604-16	02-JUN-97	EP-74I	Resub (L971239-59/L971526-19)	AS	<10.	ppm	JJT	12-NOV-97		6010
				CD	<5.0	ppm	MM	10-NOV-97		6010
				CR	73.	ppm	JJT	14-NOV-97		6010
				CU	16.	ppm	MM	10-NOV-97		6010
				FE	18190.	ppm	MM	10-NOV-97		6010
				PB	19.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	44.	ppm	MM	10-NOV-97		6010
L972604-17	02-JUN-97	EP-74K	Resub (L971239-61/L971526-20)	AS	31.	ppm	JJT	12-NOV-97		6010
				CD	<5.0	ppm	MM	10-NOV-97		6010
				CR	97.	ppm	JJT	14-NOV-97		6010
				CU	18.	ppm	MM	10-NOV-97		6010
				FE	24150.	ppm	MM	10-NOV-97		6010
				PB	19.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	52.	ppm	MM	10-NOV-97		6010
L972604-18	30-JUN-97	RIBH-3A	Resub (L971545-11/L971749-2)	AS	63.	ppm	JJT	12-NOV-97		6010
				CD	<5.0	ppm	MM	10-NOV-97		6010
				CR	57.	ppm	JJT	14-NOV-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972604

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972604-18	30-JUN-97	RIBH-3A	Resub (L971545-11/L971749-2)	CU	114.	ppm	MM	10-NOV-97		6010
				FE	28560.	ppm	MM	10-NOV-97		6010
				PB	776.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	1336.	ppm	MM	10-NOV-97		6010
L972604-19	30-JUN-97	RIBH-5A	Resub (L971545-18/L971749-3)	AS	27.	ppm	JJT	12-NOV-97		6010
				CD	5.0	ppm	MM	10-NOV-97		6010
				CR	37.	ppm	JJT	14-NOV-97		6010
				CU	311.	ppm	MM	10-NOV-97		6010
				FE	26810.	ppm	MM	10-NOV-97		6010
				PB	236.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	2104.	ppm	MM	10-NOV-97		6010
L972604-20	01-JUL-97	RIBH-10C	Resub (L971545-38/L971749-4)	AS	10.	ppm	JJT	12-NOV-97		6010
				CD	<5.0	ppm	MM	10-NOV-97		6010
				CR	25.	ppm	JJT	14-NOV-97		6010
				CU	16.	ppm	MM	10-NOV-97		6010
				FE	13550.	ppm	MM	10-NOV-97		6010
				PB	20.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	33.	ppm	MM	10-NOV-97		6010
L972604-21	08-JUL-97	SS1A5-9B	Resub (L971637-19/L971749-5)	AS	19.	ppm	JJT	12-NOV-97		6010
				CD	<5.0	ppm	MM	10-NOV-97		6010
				CR	45.	ppm	JJT	12-NOV-97		6010
				CU	168.	ppm	MM	10-NOV-97		6010
				FE	14220.	ppm	MM	10-NOV-97		6010
				PB	73.	ppm	MM	10-NOV-97		6010
				SE	15.	ppm	JJT	14-NOV-97		6010
				ZN	73.	ppm	MM	10-NOV-97		6010
L972604-22	08-JUL-97	SS1A5-3B	Resub (L971637-6/L971749-6)	AS	86.	ppm	JJT	12-NOV-97		6010
				CD	16.	ppm	MM	10-NOV-97		6010
				CR	46.	ppm	JJT	12-NOV-97		6010
				CU	963.	ppm	MM	10-NOV-97		6010
				FE	16520.	ppm	MM	10-NOV-97		6010
				PB	668.	ppm	MM	10-NOV-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972604

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972604-22	08-JUL-97	SS1A5-3B	Resub (L971637-6/L971749-6)	SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	479.	ppm	MM	10-NOV-97		6010
L972604-23	08-JUL-97	SS1A5-9A	Resub (L971637-18/L971749-7)	AS	120.	ppm	JJT	12-NOV-97		6010
				CD	26.	ppm	MM	10-NOV-97		6010
				CR	41.	ppm	JJT	12-NOV-97		6010
				CU	2125.	ppm	MM	10-NOV-97		6010
				FE	19350.	ppm	MM	10-NOV-97		6010
				PB	617.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	677.	ppm	MM	10-NOV-97		6010
L972604-24	14-JUL-97	SS1A3-1A	Resub (L971680-16/L971910-1)	AS	1607.	ppm	JJT	12-NOV-97		6010
				CD	349.	ppm	MM	10-NOV-97		6010
				CR	141.	ppm	JJT	12-NOV-97		6010
				CU	16460.	ppm	MM	10-NOV-97		6010
				FE	53560.	ppm	MM	10-NOV-97		6010
				PB	4770.	ppm	MM	10-NOV-97		6010
				SE	59.	ppm	JJT	14-NOV-97		6010
				ZN	5146.	ppm	MM	10-NOV-97		6010
L972604-25	14-JUL-97	SS1A5-19B	Resub (L971680-51/L971910-3)	AS	38.	ppm	JJT	12-NOV-97		6010
				CD	17.	ppm	MM	10-NOV-97		6010
				CR	41.	ppm	JJT	12-NOV-97		6010
				CU	290.	ppm	MM	10-NOV-97		6010
				FE	10690.	ppm	MM	10-NOV-97		6010
				PB	216.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	281.	ppm	MM	10-NOV-97		6010
L972604-26	16-JUL-97	SS1A8-6B	Resub (L971680-64/L971910-4)	AS	80.	ppm	JJT	12-NOV-97		6010
				CD	43.	ppm	MM	10-NOV-97		6010
				CR	61.	ppm	JJT	12-NOV-97		6010
				CU	381.	ppm	MM	10-NOV-97		6010
				FE	18150.	ppm	MM	10-NOV-97		6010
				PB	807.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	337.	ppm	MM	10-NOV-97		6010

ASARCO TECHNI[illegible] SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972604

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972604-27	16-JUL-97	SS1A8-7A	Resub (L971680-65/L971910-5)	AS	87.	ppm	JJT	12-NOV-97		6010
				CD	69.	ppm	MM	10-NOV-97		6010
				CR	30.	ppm	JJT	12-NOV-97		6010
				CU	734.	ppm	MM	10-NOV-97		6010
				FE	14090.	ppm	MM	10-NOV-97		6010
				PB	553.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	757.	ppm	MM	10-NOV-97		6010
L972604-28	17-JUL-97	SSENT2-A	Resub (L971680-73/L971910-6)	AS	411.	ppm	JJT	12-NOV-97		6010
				CD	72.	ppm	MM	10-NOV-97		6010
				CR	74.	ppm	JJT	12-NOV-97		6010
				CU	5950.	ppm	MM	10-NOV-97		6010
				FE	31850.	ppm	MM	10-NOV-97		6010
				PB	2574.	ppm	MM	10-NOV-97		6010
				SE	15.	ppm	JJT	14-NOV-97		6010
				ZN	3141.	ppm	MM	10-NOV-97		6010
L972604-29	17-JUL-97	SSENT6-A	Resub (L971680-82/L971910-7)	AS	439.	ppm	JJT	12-NOV-97		6010
				CD	76.	ppm	MM	10-NOV-97		6010
				CR	31.	ppm	JJT	12-NOV-97		6010
				CU	3952.	ppm	MM	10-NOV-97		6010
				FE	21190.	ppm	MM	10-NOV-97		6010
				PB	2884.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	1925.	ppm	MM	10-NOV-97		6010
L972604-30	17-JUL-97	SSENT7-A	Resub (L971680-84/L971910-8)	AS	370.	ppm	JJT	12-NOV-97		6010
				CD	68.	ppm	MM	10-NOV-97		6010
				CR	40.	ppm	JJT	12-NOV-97		6010
				CU	5781.	ppm	MM	10-NOV-97		6010
				FE	23110.	ppm	MM	10-NOV-97		6010
				PB	1973.	ppm	MM	10-NOV-97		6010
				SE	10.	ppm	JJT	14-NOV-97		6010
				ZN	1715.	ppm	MM	10-NOV-97		6010
L972604-31	17-JUL-97	SSENT7-B	Resub (L971680-85/L971910-9)	AS	14.	ppm	JJT	12-NOV-97		6010
				CD	<5.0	ppm	MM	10-NOV-97		6010
				CR	66.	ppm	JJT	12-NOV-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972604

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972604-31	17-JUL-97	SSENT7-B	Resub (L971680-85/L971910-9)	CU	54.	ppm	MM	10-NOV-97		6010
				FE	18420.	ppm	MM	10-NOV-97		6010
				PB	47.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	48.	ppm	MM	10-NOV-97		6010
L972604-32	17-JUL-97	SS1A8-10A	Resub (L971715-1/L971910-10)	AS	12.	ppm	JJT	12-NOV-97		6010
				CD	<5.0	ppm	MM	10-NOV-97		6010
				CR	12.	ppm	JJT	12-NOV-97		6010
				CU	138.	ppm	MM	10-NOV-97		6010
				FE	6806.	ppm	MM	10-NOV-97		6010
				PB	50.	ppm	MM	10-NOV-97		6010
				SE	<10.	ppm	JJT	14-NOV-97		6010
				ZN	119.	ppm	MM	10-NOV-97		6010
L972604-33	18-JUL-97	SS1A8-20B	Resub (L971715-24/L971910-11)	AS	395.	ppm	JJT	12-NOV-97		6010
				CD	78.	ppm	MM	10-NOV-97		6010
				CR	176.	ppm	JJT	12-NOV-97		6010
				CU	8231.	ppm	MM	10-NOV-97		6010
				FE	149800.	ppm	MM	10-NOV-97		6010
				PB	3421.	ppm	MM	10-NOV-97		6010
				SE	34.	ppm	JJT	14-NOV-97		6010
				ZN	16950.	ppm	MM	10-NOV-97		6010
L972604-34	18-JUL-97	SS1A8-28B	Resub (L971910-12)	AS	2579.	ppm	JJT	12-NOV-97		6010
				CD	793.	ppm	MM	10-NOV-97		6010
				CR	66.	ppm	JJT	12-NOV-97		6010
				CU	7703.	ppm	MM	10-NOV-97		6010
				FE	42330.	ppm	MM	10-NOV-97		6010
				PB	11670.	ppm	MM	10-NOV-97		6010
				SE	46.	ppm	JJT	14-NOV-97		6010
				ZN	11810.	ppm	MM	10-NOV-97		6010
L972604-35	18-JUL-97	SS1A8-30A	Resub (L971715-43/L971910-13)	AS	2440.	ppm	JJT	12-NOV-97		6010
				CD	980.	ppm	MM	10-NOV-97		6010
				CR	90.	ppm	JJT	12-NOV-97		6010
				CU	208400.	ppm	MM	10-NOV-97		6010
				FE	135200.	ppm	MM	10-NOV-97		6010
				PB	22470.	ppm	MM	10-NOV-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972604

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972604-35	18-JUL-97	SS1A8-30A	Resub (L971715-43/L971910-13)	SE	91.	ppm	JJT	14-NOV-97		6010
				ZN	13800.	ppm	MM	10-NOV-97		6010

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971670

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971670-5		Detection Limit	AS	10.	ppm				6010
			CD	5.0	ppm				6010
			CR	10.	ppm				6010
			CU	10.	ppm				6010
			FE	30.	ppm				6010
			PB	10.	ppm				6010
			SE	10.	ppm				6010
			ZN	5.0	ppm				6010

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971670

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971670-1		Matrix Spike	AS	109.	% RECOVERY	MM	10-NOV-97		6010
			CD	88.	% RECOVERY	JJT	12-NOV-97		6010
			CR	42.*	% RECOVERY	JJT	14-NOV-97		6010
			CU	92.	% RECOVERY	MM	10-NOV-97		6010
			FE	SR>4XSA	% RECOVERY	MM	10-NOV-97		6010
			PB	SR>4XSA	% RECOVERY	MM	10-NOV-97		6010
			SE	100.	% RECOVERY	JJT	14-NOV-97		6010
			ZN	SR>4XSA	% RECOVERY	MM	10-NOV-97		6010
WG971670-2		Prep Blank	AS	<10.	ppm	MM	10-NOV-97		6010
			CD	<5.0	ppm	MM	10-NOV-97		6010
			CR	<10.	ppm	JJT	14-NOV-97		6010
			CU	<10.	ppm	MM	10-NOV-97		6010
			FE	<30.	ppm	MM	10-NOV-97		6010
			PB	<10.	ppm	MM	10-NOV-97		6010
			SE	<10.	ppm	JJT	14-NOV-97		6010
			ZN	<5.0	ppm	MM	10-NOV-97		6010
WG971670-3		Laboratory Control	AS	116.	% RECOVERY	MM	10-NOV-97		6010
			CD	92.	% RECOVERY	MM	10-NOV-97		6010
			CR	126.	% RECOVERY	JJT	14-NOV-97		6010
			CU	94.	% RECOVERY	MM	10-NOV-97		6010
			FE	89.	% RECOVERY	MM	10-NOV-97		6010
			PB	93.	% RECOVERY	MM	10-NOV-97		6010
			SE	<10.**	ppm	JJT	14-NOV-97		6010
			ZN	89.	% RECOVERY	MM	10-NOV-97		6010
WG971670-4		Duplicate	AS	<1.0	% RPD	MM	10-NOV-97		6010
			CD	2.9	% RPD	MM	10-NOV-97		6010
			CR	6.2	% RPD	JJT	14-NOV-97		6010
			CU	1.8	% RPD	MM	10-NOV-97		6010
			FE	<1.0	% RPD	MM	10-NOV-97		6010
			PB	-11.	% RPD	MM	10-NOV-97		6010
			SE	5.4	% RPD	JJT	14-NOV-97		6010
			ZN	<1.0	% RPD	MM	10-NOV-97		6010
WG971670-5		Detection Limit	AS	10.	ppm				6010
			CD	5.0	ppm				6010
			CR	10.	ppm				6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971670

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971670-5		Detection Limit	CU	10.	ppm				6010
			FE	30.	ppm				6010
			PB	10.	ppm				6010
			SE	10.	ppm				6010
			ZN	5.0	ppm				6010
WG971670-6		Matrix Spike	AS	118.	% RECOVERY	MM	10-NOV-97		6010
			CD	98.	% RECOVERY	MM	10-NOV-97		6010
			CR	104.	% RECOVERY	JJT	12-NOV-97		6010
			CU	99.	% RECOVERY	MM	10-NOV-97		6010
			FE	SR>4XSA	% RECOVERY	MM	10-NOV-97		6010
			PB	96.	% RECOVERY	MM	10-NOV-97		6010
			SE	101.	% RECOVERY	JJT	14-NOV-97		6010
			ZN	94.	% RECOVERY	MM	10-NOV-97		6010
WG971670-7		Prep Blank	AS	<10.	ppm	MM	10-NOV-97		6010
			CD	<5.0	ppm	MM	10-NOV-97		6010
			CR	<10.	ppm	JJT	12-NOV-97		6010
			CU	<10.	ppm	MM	10-NOV-97		6010
			FE	<30.	ppm	MM	10-NOV-97		6010
			PB	<10.	ppm	MM	10-NOV-97		6010
			SE	<10.	ppm	JJT	14-NOV-97		6010
			ZN	<5.0	ppm	MM	10-NOV-97		6010
WG971670-8		Laboratory Control	AS	105.	% RECOVERY	MM	10-NOV-97		6010
			CD	90.	% RECOVERY	MM	10-NOV-97		6010
			CR	85.	% RECOVERY	JJT	12-NOV-97		6010
			CU	91.	% RECOVERY	MM	10-NOV-97		6010
			FE	86.	% RECOVERY	MM	10-NOV-97		6010
			PB	90.	% RECOVERY	MM	10-NOV-97		6010
			SE	<10.**	ppm	JJT	14-NOV-97		6010
			ZN	87.	% RECOVERY	MM	10-NOV-97		6010
WG971670-9		Duplicate	AS	-5.2	% RPD	MM	10-NOV-97		6010
			CD	<1.0	% RPD	MM	10-NOV-97		6010
			CR	<1.0	% RPD	JJT	12-NOV-97		6010
			CU	5.8	% RPD	MM	10-NOV-97		6010
			FE	4.5	% RPD	MM	10-NOV-97		6010
			PB	8.4	% RPD	MM	10-NOV-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971670

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971670-9		Duplicate	SE	+/-CRDL	% RPD	JJT	14-NOV-97		6010
			ZN	5.4	% RPD	MM	10-NOV-97		6010
WG971670-10		Detection Limit	AS	10.	ppm				6010
			CD	5.0	ppm				6010
			CR	10.	ppm				6010
			CU	10.	ppm				6010
			FE	30.	ppm				6010
			PB	10.	ppm				6010
			SE	10.	ppm				6010
			ZN	5.0	ppm				6010

* One Chromium acceptible, one Chromium out. This may be a function of sample non-homogenity.

** Level of LCS (NIST#2711) for Selenium is 1.5ppm. This is below the practical quantitation limit for this method of analysis.

Approved

Reviewer

ASARCO

November 20, 1997

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NOV 24 1997
HYDROMETRICS, INC.

Mr. Lairy Johnson
Hydrometrics Inc.
El Paso

Please find attached the X-ray results for your El Paso soil samples received November 3rd 1997. Also attached are the Q.C. results for this set.

If you have any questions pertaining to the data, please feel free to call.

Lee Stone

Lee Stone
Senior Analytical
Chemist

cc: GRStanga (w/attach)
JVanek "

0734.502.100(3)

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-1	27-OCT-97	SSIA4-1A	AS	3100	PPM	LCS	18-NOV-97		EDXRF
			CD	540	PPM	LCS	18-NOV-97		EDXRF
			CR	200	PPM	LCS	18-NOV-97		EDXRF
			CU	31000	PPM	LCS	18-NOV-97		EDXRF
			FE	7.2	%	LCS	18-NOV-97		EDXRF
			PB	11000	PPM	LCS	18-NOV-97		EDXRF
			SE	56	PPM	LCS	18-NOV-97		EDXRF
			ZN	11000	PPM	LCS	18-NOV-97		EDXRF
L972642-2	27-OCT-97	SSIA4-1B	AS	97	PPM	LCS	18-NOV-97		EDXRF
			CD	66	PPM	LCS	18-NOV-97		EDXRF
			CR	81	PPM	LCS	18-NOV-97		EDXRF
			CU	280	PPM	LCS	18-NOV-97		EDXRF
			FE	1.3	%	LCS	18-NOV-97		EDXRF
			PB	200	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	790	PPM	LCS	18-NOV-97		EDXRF
L972642-3	27-OCT-97	SSIA4-2A	AS	4900	PPM	LCS	18-NOV-97		EDXRF
			CD	1000	PPM	LCS	18-NOV-97		EDXRF
			CR	100	PPM	LCS	18-NOV-97		EDXRF
			CU	18000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.9	%	LCS	18-NOV-97		EDXRF
			PB	11000	PPM	LCS	18-NOV-97		EDXRF
			SE	74	PPM	LCS	18-NOV-97		EDXRF
			ZN	7300	PPM	LCS	18-NOV-97		EDXRF
L972642-4	27-OCT-97	SSIA4-2A2	AS	6200	PPM	LCS	18-NOV-97		EDXRF
			CD	1200	PPM	LCS	18-NOV-97		EDXRF
			CR	210	PPM	LCS	18-NOV-97		EDXRF
			CU	17000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.7	%	LCS	18-NOV-97		EDXRF
			PB	11000	PPM	LCS	18-NOV-97		EDXRF
			SE	100	PPM	LCS	18-NOV-97		EDXRF
			ZN	9800	PPM	LCS	18-NOV-97		EDXRF
L972642-5	27-OCT-97	SSIA4-2B	AS	7000	PPM	LCS	18-NOV-97		EDXRF
			CD	1200	PPM	LCS	18-NOV-97		EDXRF
			CR	140	PPM	LCS	18-NOV-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-5	27-OCT-97	SSIA4-2B	CU	17000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.5	%	LCS	18-NOV-97		EDXRF
			PB	12000	PPM	LCS	18-NOV-97		EDXRF
			SE	120	PPM	LCS	18-NOV-97		EDXRF
			ZN	8700	PPM	LCS	18-NOV-97		EDXRF
L972642-6	27-OCT-97	SSIA4-3A	AS	4100	PPM	LCS	18-NOV-97		EDXRF
			CD	1300	PPM	LCS	18-NOV-97		EDXRF
			CR	76	PPM	LCS	18-NOV-97		EDXRF
			CU	14000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.2	%	LCS	18-NOV-97		EDXRF
			PB	9300	PPM	LCS	18-NOV-97		EDXRF
			SE	58	PPM	LCS	18-NOV-97		EDXRF
			ZN	7100	PPM	LCS	18-NOV-97		EDXRF
L972642-7	27-OCT-97	SSIA4-3B	AS	2900	PPM	LCS	18-NOV-97		EDXRF
			CD	1500	PPM	LCS	18-NOV-97		EDXRF
			CR	36	PPM	LCS	18-NOV-97		EDXRF
			CU	9300	PPM	LCS	18-NOV-97		EDXRF
			FE	3.0	%	LCS	18-NOV-97		EDXRF
			PB	8400	PPM	LCS	18-NOV-97		EDXRF
			SE	60	PPM	LCS	18-NOV-97		EDXRF
			ZN	5600	PPM	LCS	18-NOV-97		EDXRF
L972642-8	28-OCT-97	SSIA4-4A	AS	1200	PPM	LCS	18-NOV-97		EDXRF
			CD	360	PPM	LCS	18-NOV-97		EDXRF
			CR	75	PPM	LCS	18-NOV-97		EDXRF
			CU	16000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.8	%	LCS	18-NOV-97		EDXRF
			PB	7500	PPM	LCS	18-NOV-97		EDXRF
			SE	33	PPM	LCS	18-NOV-97		EDXRF
			ZN	5600	PPM	LCS	18-NOV-97		EDXRF
L972642-9	28-OCT-97	SSIA4-4B	AS	1100	PPM	LCS	18-NOV-97		EDXRF
			CD	280	PPM	LCS	18-NOV-97		EDXRF
			CR	120	PPM	LCS	18-NOV-97		EDXRF
			CU	13000	PPM	LCS	18-NOV-97		EDXRF
			FE	4.6	%	LCS	18-NOV-97		EDXRF
			PB	7500	PPM	LCS	18-NOV-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-9	28-OCT-97	SSIA4-4B	SE	41	PPM	LCS	18-NOV-97		EDXRF
			ZN	6700	PPM	LCS	18-NOV-97		EDXRF
L972642-10	28-OCT-97	SSIA4-5A	AS	3500	PPM	LCS	18-NOV-97		EDXRF
			CD	840	PPM	LCS	18-NOV-97		EDXRF
			CR	68	PPM	LCS	18-NOV-97		EDXRF
			CU	31000	PPM	LCS	18-NOV-97		EDXRF
			FE	5.0	%	LCS	18-NOV-97		EDXRF
			PB	21000	PPM	LCS	18-NOV-97		EDXRF
			SE	90	PPM	LCS	18-NOV-97		EDXRF
			ZN	12000	PPM	LCS	18-NOV-97		EDXRF
L972642-11	28-OCT-97	SSIA4-5A2	AS	3400	PPM	LCS	18-NOV-97		EDXRF
			CD	870	PPM	LCS	18-NOV-97		EDXRF
			CR	180	PPM	LCS	18-NOV-97		EDXRF
			CU	32000	PPM	LCS	18-NOV-97		EDXRF
			FE	5.0	%	LCS	18-NOV-97		EDXRF
			PB	23000	PPM	LCS	18-NOV-97		EDXRF
			SE	87	PPM	LCS	18-NOV-97		EDXRF
			ZN	13000	PPM	LCS	18-NOV-97		EDXRF
L972642-12	28-OCT-97	SSIA4-5B	AS	370	PPM	LCS	18-NOV-97		EDXRF
			CD	54	PPM	LCS	18-NOV-97		EDXRF
			CR	36	PPM	LCS	18-NOV-97		EDXRF
			CU	2400	PPM	LCS	18-NOV-97		EDXRF
			FE	2.4	%	LCS	18-NOV-97		EDXRF
			PB	2600	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	980	PPM	LCS	18-NOV-97		EDXRF
L972642-13	28-OCT-97	SSIA4-6A	AS	5900	PPM	LCS	18-NOV-97		EDXRF
			CD	1300	PPM	LCS	18-NOV-97		EDXRF
			CR	120	PPM	LCS	18-NOV-97		EDXRF
			CU	40000	PPM	LCS	18-NOV-97		EDXRF
			FE	5.0	%	LCS	18-NOV-97		EDXRF
			PB	15000	PPM	LCS	18-NOV-97		EDXRF
			SE	110	PPM	LCS	18-NOV-97		EDXRF
			ZN	8700	PPM	LCS	18-NOV-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-14	28-OCT-97	SSIA4-6B	AS	610	PPM	LCS	18-NOV-97		EDXRF
			CD	520	PPM	LCS	18-NOV-97		EDXRF
			CR	100	PPM	LCS	18-NOV-97		EDXRF
			CU	6900	PPM	LCS	18-NOV-97		EDXRF
			FE	2.7	%	LCS	18-NOV-97		EDXRF
			PB	4000	PPM	LCS	18-NOV-97		EDXRF
			SE	16	PPM	LCS	18-NOV-97		EDXRF
			ZN	2900	PPM	LCS	18-NOV-97		EDXRF
L972642-15	28-OCT-97	SSIA4-7A	AS	17000	PPM	LCS	18-NOV-97		EDXRF
			CD	350	PPM	LCS	18-NOV-97		EDXRF
			CR	57	PPM	LCS	18-NOV-97		EDXRF
			CU	82000	PPM	LCS	18-NOV-97		EDXRF
			FE	8.7	%	LCS	18-NOV-97		EDXRF
			PB	49000	PPM	LCS	18-NOV-97		EDXRF
			SE	1600	PPM	LCS	18-NOV-97		EDXRF
			ZN	7900	PPM	LCS	18-NOV-97		EDXRF
L972642-16	28-OCT-97	SSIA4-7A2	AS	18000	PPM	LCS	18-NOV-97		EDXRF
			CD	360	PPM	LCS	18-NOV-97		EDXRF
			CR	39	PPM	LCS	18-NOV-97		EDXRF
			CU	81000	PPM	LCS	18-NOV-97		EDXRF
			FE	8.4	%	LCS	18-NOV-97		EDXRF
			PB	51000	PPM	LCS	18-NOV-97		EDXRF
			SE	1800	PPM	LCS	18-NOV-97		EDXRF
			ZN	8100	PPM	LCS	18-NOV-97		EDXRF
L972642-17	28-OCT-97	SSIA4-7B	AS	2200	PPM	LCS	18-NOV-97		EDXRF
			CD	310	PPM	LCS	18-NOV-97		EDXRF
			CR	210	PPM	LCS	18-NOV-97		EDXRF
			CU	68000	PPM	LCS	18-NOV-97		EDXRF
			FE	4.0	%	LCS	18-NOV-97		EDXRF
			PB	12000	PPM	LCS	18-NOV-97		EDXRF
			SE	110	PPM	LCS	18-NOV-97		EDXRF
			ZN	3600	PPM	LCS	18-NOV-97		EDXRF
L972642-18	28-OCT-97	SSIA4-8A	AS	3300	PPM	LCS	18-NOV-97		EDXRF
			CD	980	PPM	LCS	18-NOV-97		EDXRF
			CR	180	PPM	LCS	18-NOV-97		EDXRF

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L972642-18	28-OCT-97	SSIA4-8A	CU	25000	PPM	LCS	18-NOV-97		EDXRF
			FE	5.0	%	LCS	18-NOV-97		EDXRF
			PB	25000	PPM	LCS	18-NOV-97		EDXRF
			SE	100	PPM	LCS	18-NOV-97		EDXRF
			ZN	11000	PPM	LCS	18-NOV-97		EDXRF
L972642-19	28-OCT-97	SSIA4-8B	AS	990	PPM	LCS	18-NOV-97		EDXRF
			CD	190	PPM	LCS	18-NOV-97		EDXRF
			CR	75	PPM	LCS	18-NOV-97		EDXRF
			CU	4200	PPM	LCS	18-NOV-97		EDXRF
			FE	2.7	%	LCS	18-NOV-97		EDXRF
			PB	4100	PPM	LCS	18-NOV-97		EDXRF
			SE	15	PPM	LCS	18-NOV-97		EDXRF
			ZN	2100	PPM	LCS	18-NOV-97		EDXRF
L972642-20	28-OCT-97	SSIA4-9A	AS	3000	PPM	LCS	18-NOV-97		EDXRF
			CD	970	PPM	LCS	18-NOV-97		EDXRF
			CR	74	PPM	LCS	18-NOV-97		EDXRF
			CU	12000	PPM	LCS	18-NOV-97		EDXRF
			FE	4.3	%	LCS	18-NOV-97		EDXRF
			PB	11000	PPM	LCS	18-NOV-97		EDXRF
			SE	30	PPM	LCS	18-NOV-97		EDXRF
			ZN	5400	PPM	LCS	18-NOV-97		EDXRF
L972642-21	28-OCT-97	SSIA4-9B	AS	1300	PPM	LCS	18-NOV-97		EDXRF
			CD	600	PPM	LCS	18-NOV-97		EDXRF
			CR	220	PPM	LCS	18-NOV-97		EDXRF
			CU	3900	PPM	LCS	18-NOV-97		EDXRF
			FE	3.4	%	LCS	18-NOV-97		EDXRF
			PB	3200	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	2400	PPM	LCS	18-NOV-97		EDXRF
L972642-22	28-OCT-97	SSIA4-10A	AS	840	PPM	LCS	18-NOV-97		EDXRF
			CD	290	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	5800	PPM	LCS	18-NOV-97		EDXRF
			FE	3.0	%	LCS	18-NOV-97		EDXRF
			PB	5100	PPM	LCS	18-NOV-97		EDXRF

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L972642-22	28-OCT-97	SSIA4-10A	SE	24	PPM	LCS	18-NOV-97		EDXRF
			ZN	3200	PPM	LCS	18-NOV-97		EDXRF
L972642-23	28-OCT-97	SSIA4-10A2	AS	1500	PPM	LCS	18-NOV-97		EDXRF
			CD	380	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	8800	PPM	LCS	18-NOV-97		EDXRF
			FE	3.4	%	LCS	18-NOV-97		EDXRF
			PB	6800	PPM	LCS	18-NOV-97		EDXRF
			SE	24	PPM	LCS	18-NOV-97		EDXRF
			ZN	4300	PPM	LCS	18-NOV-97		EDXRF
L972642-24	28-OCT-97	SSIA4-10B	AS	880	PPM	LCS	18-NOV-97		EDXRF
			CD	140	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	3400	PPM	LCS	18-NOV-97		EDXRF
			FE	2.6	%	LCS	18-NOV-97		EDXRF
			PB	2800	PPM	LCS	18-NOV-97		EDXRF
			SE	18	PPM	LCS	18-NOV-97		EDXRF
			ZN	2000	PPM	LCS	18-NOV-97		EDXRF
L972642-25	28-OCT-97	SSIA4-11A	AS	1800	PPM	LCS	18-NOV-97		EDXRF
			CD	500	PPM	LCS	18-NOV-97		EDXRF
			CR	140	PPM	LCS	18-NOV-97		EDXRF
			CU	9700	PPM	LCS	18-NOV-97		EDXRF
			FE	3.6	%	LCS	18-NOV-97		EDXRF
			PB	8900	PPM	LCS	18-NOV-97		EDXRF
			SE	53	PPM	LCS	18-NOV-97		EDXRF
			ZN	4600	PPM	LCS	18-NOV-97		EDXRF
L972642-26	28-OCT-97	SSIA4-11B	AS	680	PPM	LCS	18-NOV-97		EDXRF
			CD	55	PPM	LCS	18-NOV-97		EDXRF
			CR	61	PPM	LCS	18-NOV-97		EDXRF
			CU	1000	PPM	LCS	18-NOV-97		EDXRF
			FE	2.6	%	LCS	18-NOV-97		EDXRF
			PB	1300	PPM	LCS	18-NOV-97		EDXRF
			SE	13	PPM	LCS	18-NOV-97		EDXRF
			ZN	640	PPM	LCS	18-NOV-97		EDXRF

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L972642-27	28-OCT-97	SSIA4-12A	AS	4800	PPM	LCS	18-NOV-97		EDXRF
			CD	930	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	11000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.1	%	LCS	18-NOV-97		EDXRF
			PB	13000	PPM	LCS	18-NOV-97		EDXRF
			SE	63	PPM	LCS	18-NOV-97		EDXRF
			ZN	6600	PPM	LCS	18-NOV-97		EDXRF
L972642-28	28-OCT-97	SSIA4-12B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	18	PPM	LCS	18-NOV-97		EDXRF
			CR	140	PPM	LCS	18-NOV-97		EDXRF
			CU	1800	PPM	LCS	18-NOV-97		EDXRF
			FE	19	%	LCS	18-NOV-97		EDXRF
			PB	10000	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	20000	PPM	LCS	18-NOV-97		EDXRF
L972642-29	28-OCT-97	SSIA4-13A	AS	860	PPM	LCS	18-NOV-97		EDXRF
			CD	320	PPM	LCS	18-NOV-97		EDXRF
			CR	74	PPM	LCS	18-NOV-97		EDXRF
			CU	12000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.4	%	LCS	18-NOV-97		EDXRF
			PB	11000	PPM	LCS	18-NOV-97		EDXRF
			SE	52	PPM	LCS	18-NOV-97		EDXRF
			ZN	5400	PPM	LCS	18-NOV-97		EDXRF
L972642-30	28-OCT-97	SSIA4-13B	AS	790	PPM	LCS	18-NOV-97		EDXRF
			CD	320	PPM	LCS	18-NOV-97		EDXRF
			CR	120	PPM	LCS	18-NOV-97		EDXRF
			CU	14000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.6	%	LCS	18-NOV-97		EDXRF
			PB	12000	PPM	LCS	18-NOV-97		EDXRF
			SE	70	PPM	LCS	18-NOV-97		EDXRF
			ZN	7400	PPM	LCS	18-NOV-97		EDXRF
L972642-31	28-OCT-97	SSIA4-14A	AS	1600	PPM	LCS	18-NOV-97		EDXRF
			CD	640	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF

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L972642-31	28-OCT-97	SSIA4-14A	CU	10000	PPM	LCS	18-NOV-97		EDXRF
			FE	4.0	%	LCS	18-NOV-97		EDXRF
			PB	14000	PPM	LCS	18-NOV-97		EDXRF
			SE	50	PPM	LCS	18-NOV-97		EDXRF
			ZN	6300	PPM	LCS	18-NOV-97		EDXRF
L972642-32	28-OCT-97	SSIA4-14A2	AS	1500	PPM	LCS	18-NOV-97		EDXRF
			CD	670	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	9800	PPM	LCS	18-NOV-97		EDXRF
			FE	3.9	%	LCS	18-NOV-97		EDXRF
			PB	15000	PPM	LCS	18-NOV-97		EDXRF
			SE	62	PPM	LCS	18-NOV-97		EDXRF
			ZN	6700	PPM	LCS	18-NOV-97		EDXRF
L972642-33	28-OCT-97	SSIA4-14B	AS	490	PPM	LCS	18-NOV-97		EDXRF
			CD	190	PPM	LCS	18-NOV-97		EDXRF
			CR	82	PPM	LCS	18-NOV-97		EDXRF
			CU	3700	PPM	LCS	18-NOV-97		EDXRF
			FE	3.3	%	LCS	18-NOV-97		EDXRF
			PB	4500	PPM	LCS	18-NOV-97		EDXRF
			SE	16	PPM	LCS	18-NOV-97		EDXRF
			ZN	2400	PPM	LCS	18-NOV-97		EDXRF
L972642-34	28-OCT-97	SSIA4-15A	AS	480	PPM	LCS	18-NOV-97		EDXRF
			CD	300	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	4400	PPM	LCS	18-NOV-97		EDXRF
			FE	2.7	%	LCS	18-NOV-97		EDXRF
			PB	6800	PPM	LCS	18-NOV-97		EDXRF
			SE	33	PPM	LCS	18-NOV-97		EDXRF
			ZN	3200	PPM	LCS	18-NOV-97		EDXRF
L972642-35	28-OCT-97	SSIA4-15B	AS	440	PPM	LCS	18-NOV-97		EDXRF
			CD	240	PPM	LCS	18-NOV-97		EDXRF
			CR	71	PPM	LCS	18-NOV-97		EDXRF
			CU	3800	PPM	LCS	18-NOV-97		EDXRF
			FE	3.0	%	LCS	18-NOV-97		EDXRF
			PB	5300	PPM	LCS	18-NOV-97		EDXRF

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L972642-35	28-OCT-97	SSIA4-15B	SE	21	PPM	LCS	18-NOV-97		EDXRF
			ZN	3000	PPM	LCS	18-NOV-97		EDXRF
L972642-36	27-OCT-97	SSIA4-16A	AS	520	PPM	LCS	18-NOV-97		EDXRF
			CD	350	PPM	LCS	18-NOV-97		EDXRF
			CR	71	PPM	LCS	18-NOV-97		EDXRF
			CU	5000	PPM	LCS	18-NOV-97		EDXRF
			FE	2.7	%	LCS	18-NOV-97		EDXRF
			PB	5900	PPM	LCS	18-NOV-97		EDXRF
			SE	32	PPM	LCS	18-NOV-97		EDXRF
			ZN	2800	PPM	LCS	18-NOV-97		EDXRF
L972642-37	30-OCT-97	SSIA4-16B	AS	66	PPM	LCS	18-NOV-97		EDXRF
			CD	30	PPM	LCS	18-NOV-97		EDXRF
			CR	78	PPM	LCS	18-NOV-97		EDXRF
			CU	640	PPM	LCS	18-NOV-97		EDXRF
			FE	2.5	%	LCS	18-NOV-97		EDXRF
			PB	710	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	380	PPM	LCS	18-NOV-97		EDXRF
L972642-38	30-OCT-97	SSIA4-17A	AS	220	PPM	LCS	18-NOV-97		EDXRF
			CD	76	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	4600	PPM	LCS	18-NOV-97		EDXRF
			FE	2.9	%	LCS	18-NOV-97		EDXRF
			PB	2500	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1400	PPM	LCS	18-NOV-97		EDXRF
L972642-39	30-OCT-97	SSIA4-17A2	AS	240	PPM	LCS	18-NOV-97		EDXRF
			CD	75	PPM	LCS	18-NOV-97		EDXRF
			CR	84	PPM	LCS	18-NOV-97		EDXRF
			CU	4200	PPM	LCS	18-NOV-97		EDXRF
			FE	2.9	%	LCS	18-NOV-97		EDXRF
			PB	2100	PPM	LCS	18-NOV-97		EDXRF
			SE	11	PPM	LCS	18-NOV-97		EDXRF
			ZN	1300	PPM	LCS	18-NOV-97		EDXRF

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L972642-40	30-OCT-97	SSIA4-17B	AS	160	PPM	LCS	18-NOV-97		EDXRF
			CD	57	PPM	LCS	18-NOV-97		EDXRF
			CR	120	PPM	LCS	18-NOV-97		EDXRF
			CU	1900	PPM	LCS	18-NOV-97		EDXRF
			FE	2.9	%	LCS	18-NOV-97		EDXRF
			PB	1900	PPM	LCS	18-NOV-97		EDXRF
			SE	11	PPM	LCS	18-NOV-97		EDXRF
			ZN	1500	PPM	LCS	18-NOV-97		EDXRF
L972642-41	30-OCT-97	SSIA4-18A	AS	160	PPM	LCS	18-NOV-97		EDXRF
			CD	59	PPM	LCS	18-NOV-97		EDXRF
			CR	120	PPM	LCS	18-NOV-97		EDXRF
			CU	2500	PPM	LCS	18-NOV-97		EDXRF
			FE	2.3	%	LCS	18-NOV-97		EDXRF
			PB	1400	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	780	PPM	LCS	18-NOV-97		EDXRF
L972642-42	30-OCT-97	SSIA4-18B	AS	150	PPM	LCS	18-NOV-97		EDXRF
			CD	85	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	1700	PPM	LCS	18-NOV-97		EDXRF
			FE	2.6	%	LCS	18-NOV-97		EDXRF
			PB	1200	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1100	PPM	LCS	18-NOV-97		EDXRF
L972642-43	30-OCT-97	SSIA4-19A	AS	52	PPM	LCS	18-NOV-97		EDXRF
			CD	22	PPM	LCS	18-NOV-97		EDXRF
			CR	65	PPM	LCS	18-NOV-97		EDXRF
			CU	1200	PPM	LCS	18-NOV-97		EDXRF
			FE	1.5	%	LCS	18-NOV-97		EDXRF
			PB	560	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	350	PPM	LCS	18-NOV-97		EDXRF
L972642-44	30-OCT-97	SSIA4-19B	AS	24	PPM	LCS	18-NOV-97		EDXRF
			CD	10	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-44	30-OCT-97	SSIA4-19B	CU	590	PPM	LCS	18-NOV-97		EDXRF
			FE	2.1	%	LCS	18-NOV-97		EDXRF
			PB	440	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	400	PPM	LCS	18-NOV-97		EDXRF
L972642-45	30-OCT-97	SSIA4-20A	AS	75	PPM	LCS	18-NOV-97		EDXRF
			CD	32	PPM	LCS	18-NOV-97		EDXRF
			CR	57	PPM	LCS	18-NOV-97		EDXRF
			CU	2600	PPM	LCS	18-NOV-97		EDXRF
			FE	2.0	%	LCS	18-NOV-97		EDXRF
			PB	1300	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	840	PPM	LCS	18-NOV-97		EDXRF
L972642-46	30-OCT-97	SSIA4-20A2	AS	100	PPM	LCS	18-NOV-97		EDXRF
			CD	42	PPM	LCS	18-NOV-97		EDXRF
			CR	33	PPM	LCS	18-NOV-97		EDXRF
			CU	2800	PPM	LCS	18-NOV-97		EDXRF
			FE	2.1	%	LCS	18-NOV-97		EDXRF
			PB	1400	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	900	PPM	LCS	18-NOV-97		EDXRF
L972642-47	30-OCT-97	SSIA4-20B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	16	PPM	LCS	18-NOV-97		EDXRF
			CR	45	PPM	LCS	18-NOV-97		EDXRF
			CU	840	PPM	LCS	18-NOV-97		EDXRF
			FE	2.7	%	LCS	18-NOV-97		EDXRF
			PB	550	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	400	PPM	LCS	18-NOV-97		EDXRF
L972642-48	30-OCT-97	SSIA4-21A	AS	160	PPM	LCS	18-NOV-97		EDXRF
			CD	63	PPM	LCS	18-NOV-97		EDXRF
			CR	40	PPM	LCS	18-NOV-97		EDXRF
			CU	3600	PPM	LCS	18-NOV-97		EDXRF
			FE	2.8	%	LCS	18-NOV-97		EDXRF
			PB	2500	PPM	LCS	18-NOV-97		EDXRF

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L972642-48	30-OCT-97	SSIA4-21A	SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1600	PPM	LCS	18-NOV-97		EDXRF
L972642-49	30-OCT-97	SSIA4-21B	AS	210	PPM	LCS	18-NOV-97		EDXRF
			CD	73	PPM	LCS	18-NOV-97		EDXRF
			CR	86	PPM	LCS	18-NOV-97		EDXRF
			CU	3200	PPM	LCS	18-NOV-97		EDXRF
			FE	3.6	%	LCS	18-NOV-97		EDXRF
			PB	3200	PPM	LCS	18-NOV-97		EDXRF
			SE	14	PPM	LCS	18-NOV-97		EDXRF
			ZN	2700	PPM	LCS	18-NOV-97		EDXRF
L972642-50	30-OCT-97	SSIA4-22A	AS	140	PPM	LCS	18-NOV-97		EDXRF
			CD	62	PPM	LCS	18-NOV-97		EDXRF
			CR	75	PPM	LCS	18-NOV-97		EDXRF
			CU	3100	PPM	LCS	18-NOV-97		EDXRF
			FE	2.6	%	LCS	18-NOV-97		EDXRF
			PB	2200	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1400	PPM	LCS	18-NOV-97		EDXRF
L972642-51	30-OCT-97	SSIA4-22B	AS	45	PPM	LCS	18-NOV-97		EDXRF
			CD	22	PPM	LCS	18-NOV-97		EDXRF
			CR	53	PPM	LCS	18-NOV-97		EDXRF
			CU	1100	PPM	LCS	18-NOV-97		EDXRF
			FE	2.3	%	LCS	18-NOV-97		EDXRF
			PB	1200	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	780	PPM	LCS	18-NOV-97		EDXRF
L972642-52	30-OCT-97	SSIA4-23A2	AS	270	PPM	LCS	18-NOV-97		EDXRF
			CD	97	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	5300	PPM	LCS	18-NOV-97		EDXRF
			FE	2.6	%	LCS	18-NOV-97		EDXRF
			PB	5000	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	3200	PPM	LCS	18-NOV-97		EDXRF

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L972642-53	30-OCT-97	SSIA4-23B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	13	PPM	LCS	18-NOV-97		EDXRF
			CR	39	PPM	LCS	18-NOV-97		EDXRF
			CU	410	PPM	LCS	18-NOV-97		EDXRF
			FE	2.3	%	LCS	18-NOV-97		EDXRF
			PB	370	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	250	PPM	LCS	18-NOV-97		EDXRF
L972642-54	30-OCT-97	SSIA4-24A	AS	120	PPM	LCS	18-NOV-97		EDXRF
			CD	38	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	3000	PPM	LCS	18-NOV-97		EDXRF
			FE	2.3	%	LCS	18-NOV-97		EDXRF
			PB	1800	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1500	PPM	LCS	18-NOV-97		EDXRF
L972642-55	30-OCT-97	SSIA4-24B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	220	PPM	LCS	18-NOV-97		EDXRF
			FE	2.5	%	LCS	18-NOV-97		EDXRF
			PB	260	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	230	PPM	LCS	18-NOV-97		EDXRF
L972642-56	30-OCT-97	SSIA4-25A	AS	380	PPM	LCS	18-NOV-97		EDXRF
			CD	200	PPM	LCS	18-NOV-97		EDXRF
			CR	83	PPM	LCS	18-NOV-97		EDXRF
			CU	12000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.2	%	LCS	18-NOV-97		EDXRF
			PB	9400	PPM	LCS	18-NOV-97		EDXRF
			SE	24	PPM	LCS	18-NOV-97		EDXRF
			ZN	6700	PPM	LCS	18-NOV-97		EDXRF
L972642-57	30-OCT-97	SSIA4-25B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	92	PPM	LCS	18-NOV-97		EDXRF

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L972642-57	30-OCT-97	SSIA4-25B	CU	530	PPM	LCS	18-NOV-97		EDXRF
			FE	2.2	%	LCS	18-NOV-97		EDXRF
			PB	370	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	280	PPM	LCS	18-NOV-97		EDXRF
L972642-58	30-OCT-97	SSIA4-26A	AS	320	PPM	LCS	18-NOV-97		EDXRF
			CD	82	PPM	LCS	18-NOV-97		EDXRF
			CR	65	PPM	LCS	18-NOV-97		EDXRF
			CU	7500	PPM	LCS	18-NOV-97		EDXRF
			FE	4.0	%	LCS	18-NOV-97		EDXRF
			PB	3800	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	2800	PPM	LCS	18-NOV-97		EDXRF
L972642-59	30-OCT-97	SSIA4-26A2	AS	300	PPM	LCS	18-NOV-97		EDXRF
			CD	89	PPM	LCS	18-NOV-97		EDXRF
			CR	50	PPM	LCS	18-NOV-97		EDXRF
			CU	7500	PPM	LCS	18-NOV-97		EDXRF
			FE	4.1	%	LCS	18-NOV-97		EDXRF
			PB	3600	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	2600	PPM	LCS	18-NOV-97		EDXRF
L972642-60	30-OCT-97	SSIA4-26B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	140	PPM	LCS	18-NOV-97		EDXRF
			FE	2.8	%	LCS	18-NOV-97		EDXRF
			PB	180	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	150	PPM	LCS	18-NOV-97		EDXRF
L972642-61	30-OCT-97	SSIA4-27A	AS	370	PPM	LCS	18-NOV-97		EDXRF
			CD	140	PPM	LCS	18-NOV-97		EDXRF
			CR	180	PPM	LCS	18-NOV-97		EDXRF
			CU	7600	PPM	LCS	18-NOV-97		EDXRF
			FE	3.2	%	LCS	18-NOV-97		EDXRF
			PB	5300	PPM	LCS	18-NOV-97		EDXRF

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L972642-61	30-OCT-97	SSIA4-27A	SE	22	PPM	LCS	18-NOV-97		EDXRF
			ZN	3900	PPM	LCS	18-NOV-97		EDXRF
L972642-62	30-OCT-97	SSIA4-27B	AS	25	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	95	PPM	LCS	18-NOV-97		EDXRF
			FE	1.2	%	LCS	18-NOV-97		EDXRF
			PB	82	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	87	PPM	LCS	18-NOV-97		EDXRF
L972642-63	30-OCT-97	SSIA4-28A	AS	190	PPM	LCS	18-NOV-97		EDXRF
			CD	42	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	4100	PPM	LCS	18-NOV-97		EDXRF
			FE	2.8	%	LCS	18-NOV-97		EDXRF
			PB	1600	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1500	PPM	LCS	18-NOV-97		EDXRF
L972642-64	30-OCT-97	SSIA4-28B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	67	PPM	LCS	18-NOV-97		EDXRF
			CU	120	PPM	LCS	18-NOV-97		EDXRF
			FE	2.5	%	LCS	18-NOV-97		EDXRF
			PB	63	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	72	PPM	LCS	18-NOV-97		EDXRF
L972642-65	30-OCT-97	SSIA4-29A	AS	490	PPM	LCS	18-NOV-97		EDXRF
			CD	110	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	6000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.9	%	LCS	18-NOV-97		EDXRF
			PB	3900	PPM	LCS	18-NOV-97		EDXRF
			SE	15	PPM	LCS	18-NOV-97		EDXRF
			ZN	3000	PPM	LCS	18-NOV-97		EDXRF

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L972642-66	30-OCT-97	SSIA4-29A2	AS	520	PPM	LCS	18-NOV-97		EDXRF
			CD	100	PPM	LCS	18-NOV-97		EDXRF
			CR	160	PPM	LCS	18-NOV-97		EDXRF
			CU	4900	PPM	LCS	18-NOV-97		EDXRF
			FE	3.2	%	LCS	18-NOV-97		EDXRF
			PB	3000	PPM	LCS	18-NOV-97		EDXRF
			SE	12	PPM	LCS	18-NOV-97		EDXRF
			ZN	1900	PPM	LCS	18-NOV-97		EDXRF
L972642-67	30-OCT-97	SSIA4-29B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	75	PPM	LCS	18-NOV-97		EDXRF
			CU	190	PPM	LCS	18-NOV-97		EDXRF
			FE	2.2	%	LCS	18-NOV-97		EDXRF
			PB	330	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	270	PPM	LCS	18-NOV-97		EDXRF
L972642-68	30-OCT-97	SSIA4-30A	AS	200	PPM	LCS	18-NOV-97		EDXRF
			CD	16	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	1200	PPM	LCS	18-NOV-97		EDXRF
			FE	1.7	%	LCS	18-NOV-97		EDXRF
			PB	980	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	360	PPM	LCS	18-NOV-97		EDXRF
L972642-69	30-OCT-97	SSIA4-30B	AS	250	PPM	LCS	18-NOV-97		EDXRF
			CD	83	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	2300	PPM	LCS	18-NOV-97		EDXRF
			FE	2.4	%	LCS	18-NOV-97		EDXRF
			PB	2700	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	2000	PPM	LCS	18-NOV-97		EDXRF
L972642-70	30-OCT-97	SSIA4-23A	AS	250	PPM	LCS	18-NOV-97		EDXRF
			CD	91	PPM	LCS	18-NOV-97		EDXRF
			CR	73	PPM	LCS	18-NOV-97		EDXRF

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L972642-70	30-OCT-97	SSIA4-23A	CU	4800	PPM	LCS	18-NOV-97		EDXRF
			FE	2.4	%	LCS	18-NOV-97		EDXRF
			PB	4600	PPM	LCS	18-NOV-97		EDXRF
			SE	17	PPM	LCS	18-NOV-97		EDXRF
			ZN	2800	PPM	LCS	18-NOV-97		EDXRF

Approved

Reviewer

Q C FOR ELPASO SOILS L972642

CCV 30651-58

	PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
GIVEN		12	420		18	8062		27400
FOUND	431	18	366	942	15	7541	21	28823
	453	18	471	1041	15	7527	7	28508
	437	22	377	914	15	7409	17	28140
	570	16	217	1013	15	7361	18	28697
	550	22	369	968	15	7456	10	28477
	539	7	461	958	15	7483	19	28570
	543	12	272	1034	15	7428	16	28507

LCS BRS2704

GIVEN	23.4	3.45	135	98.6	4.4	161		438
FOUND	<20	<10	106	110	4.4	196	<10	494
	<20	<10	124	109	4.4	206	<10	521

LCS SO-1

GIVEN			160	61	6	21		146
FOUND	<20	<10	154	95	6.2	15	<10	140
	<20	<10	176	76	6.1	14	<10	165

DUPLICATES

	As	Cd	Cr	Cu	Fe	[Pb	Se	Zn
L972642-20	3006	972	74	11910	4.3	10674	30	5358
DUP642-20	3014	964	147	11736	4.3	10599	31	5508
%DIFF	0	1	66	1	0	1	3	3
L972642-40	163	57	120	1890	2.9	1906	11	1450
DUP642-40	166	58	82	1929	2.8	1863	<10	1396
%DIFF	2	2	38	2	4	2		4
L972642-60	<20	<10	50	139	2.8	182	<10	149
DUP642-60	<20	<10	97	117	2.7	150	<10	148
%DIFF			64	17	4	19		1
L972642-70	245	75	73	4770	2.4	4595	17	2769
DUP642-70	201	91	46	4869	2.4	4605	<10	2758
%DIFF	20	19	45	2	0	0		0

CCV 30651-58

	As	Cd	Cr	CU	Fe	Pb	Se	Zn
Given		12PPM	420PPM		18%	8062PPM		27400PPM
% Recov.		150	87		83	94		105
		150	112		83	93		104
		183	90		83	92		103
		133	52		83	91		105
		183	88		83	92		104
		58	110		83	93		104
		100	65		83	92		104

LCS BRS2704

GIVEN	23.4PPM	3.45PPM	135PPM	98.6PPM	4.40%	161PPM		438PPM
% RECOV			79	112	100	122		113
			92	111	100	128		119

LCS SO-1

GIVEN			160PPM	61PPM	6%	21PPM		146PPM
% RECOV			96	156	103	71		96
			110	125	102	67		113

Hydrometrics, Inc.

CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734.	ASARCO - RI

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	X Totals Metals. See Attached Sheet.	REMARKS
10-27-97	10:40		X	SS1A4-1A	1									X	
	1445			SS1AA-1B											
	1505			SS1A4-1C											
	1530			SS1A4-1D											
	1545			SS1A4-2A											
	1545			SS1A4-2A$_2$											
	1552			SS1A4-2B											
	1600			SS1A4-2C											
	1605			SS1A4-2D											
	1615			SS1A4-3A											
	1620			SS1A4-3B											
	1625			SS1A4-3C											
↓	1630			SS1A4-3D											
10-28-97	0808			SS1A4-4A											
10-28-97	0816		↓	SS1A4-4B	↓									↓	

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	10/31/97 1500				Other
					Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time: 11.3.97 9:00	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC/standard mixing instructions ☐ Cover letter ☐ Other	
				Split Samples: [] Accepted [] Declined — Signature	

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

Hydrometrics, Inc.

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
0734	ASARCO - RI

SAMPLERS: *(Signature)*
Lairy Johnson

DATE	TIME	COMP	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Totals Metals-See Attached sheet	REMARKS
10/31/97	0821		✓	SS1A4-4C	1									X	
	0827			SS1A4-4D											
	0839			SS1A4-5A											
	0839			SS1A4-5A$_2$											
	0843			SS1A4-5B											
	0847			SS1A4-5C											
	0850			SS1A4-5D											

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Lairy Johnson	10/31/97 1500				Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			11.2.97 9:00	Split Samples: [] Accepted [] Declined	

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Return results & electronic copy to:
Computer Dept. at address at top of page

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.
2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - R1

SAMPLERS: *(Signature)*
Lairy Johnson

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Totals Metals - See Attachment sheet	REMARKS
10-28-97	0905		X	SS1A4-6A	1									X	
10-28-97	0909			SS1A4-6B											
	0915			SS1A4-6C											
	0919			SS1A4-6D											
	0938			SS1A4-7A											
	0938			SS1A4-7A2											
	0945			SS1A4-7B											
	0948			SS1A4-7C											
	0952			SS1A4-7D											
				SS1A4-8A											
	1007			SS1A4-8B											
	1011			SS1A4-8C											
	1015			SS1A4-8D											
	1224			SS1A4-9A											
	1228			SS1A4-9B											

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	1500 10/31/97				Other
					Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			11-3-97 9:00		

Split Samples:
[] Accepted [] Declined _____ Signature

HFORM-1-4/95

Return results & electronic copy to:
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Hydrometrics, Inc.

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
0734	ASARCO-R1

SAMPLERS: *(Signature)*
Lairy Johnson

DATE	TIME	COMP	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Totals Metals-See Attachment Sheet							REMARKS
10-28-97	1232		X	SS1A4-9C	1									X							
	1237			SS1A4-9D																	
	1248			SS1A4-10A																	
	1248			SS1A4-10A$_2$																	
	1252			SS1A4-10B																	
	1256			SS1A4-10C																	
	1302			SS1A4-10D																	

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	10-31-97 1500				Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time		
			11-3-97	9:00	

Enclosed: ☒ Parameter sheet w/detection limits
☐ QA/QC standard mixing instructions ☐ Cover letter
☐ Other

Split Samples:
[] Accepted [] Declined

HFORM-[illegible]95

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Computer Dept. at address at top of page

Hydrometrics, Inc.

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
0734	ASARCO-RI

SAMPLERS: *(Signature)* Larry Johnson

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Totals Metals-See Attachment Sheet	REMARKS
10-28-97	1312		X	SS1A4-11A	1									X	
	1322			SS1A4-11B											
	1327			SS1A4-11C											
	1332			SS1A4-11D											
	1344			SS1A4-12A											
	1349			SS1A4-12B											
	1355			SS1A4-12C											
	1357			SS1A4-12D											
	1413			SS1A4-13A											
	1418			SS1A4-13B											
	1423			SS1A4-13C											
	1456			SS1A4-14A											
	1456			SS1A4-14A2											
	1502			SS1A4-14B											
	1507			SS1A4-14C											

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Larry Johnson	10-31-97 1500				Other
					Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			11.3.97 9:00	Split Samples: [] Accepted [] Declined	

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Hydrometrics, Inc.

CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - R1

SAMPLERS: *(Signature)*
Lairy Johnson

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Totals Metals - See Attachm. Sheet	REMARKS
10-28-97	1514		X	SS1A4-14D	1									X	
↓	1530		↓	SS1A4-15A	3G									↓	
	1335			SS1A4-15B	3G										
	1539			SS1A4-15C											
	1543			SS1A4-15D											
↓	1553		↓	SS1A4-16A	3G	↓									

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	10-31-97 1800				Other
					Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits	
			11-3-97 9:00	☐ QA/QC standard mixing instructions ☐ Cover letter	
				☐ Other	

HFORM 95

Return results & electronic copy to:
Computer Dept. at address at top of page

Split Samples:
[] Accepted [] Declined _____ ature

Hydrometrics, Inc.

CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO-RI

SAMPLERS: *(Signature)*
Lairy Johnson

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Totals Metals-See Attached sheet						REMARKS
10/30/97	0800		X	SS1A4-16B	1									X						
	0808			SS1A4-16C																
	0815			SS1A4-16D																
	0840			SS1A4-17A																
	0840			SS1A4-17A2																
	0844			SS1A4-17B																
	0848			SS1A4-17C																
	0855			SS1A4-17D																
	0907			SS1A4-18A																
	0913			SS1A4-18B																
	0922			SS1A4-18C																
	0927			SS1A4-18D																
	0937			SS1A4-19A																
	0944			SS1A4-19B																
	0950			SS1A4-19C																

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	10-31-97 1500				Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time		Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other
			11.3.97	9:00	

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

Split Samples:
[] Accepted [] Declined _____
Signature

Hydrometrics, Inc.

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
0734	ASARCO-RI

SAMPLERS: *(Signature)*
Lairy Johnson

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Totals Metals - See Attached sheet						REMARKS
10-30-97	0956		X	SS1A4-19D	1									X						
	1003			SS1A4-20A																
	1003			SS1A4-20A2																
	1011			SS1A4-20B																
	1017			SS1A4-20C																
↓	1023		↓	SS1A4-20D	↓									↓						

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	10-31-97 1500				Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			11-3-97 9:00		

Split Samples:
[] Accepted [] Declined _____ ture

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Return results & electronic copy to:
Computer Dept. at address at top of page

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO. 0734 | PROJECT NAME: ASARCO-R1

SAMPLERS: (Signature) Lairy Johnson

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Totals/Metals - See Attached sheet	REMARKS
10-30-97	1031		X	SS1A4-21A	1									X	
	1035			SS1A4-21B											
	1039			SS1A4-21C											
	1042			SS1A4-21D											
	1048			SS1A4-22A											
	1054			SS1A4-22B											
	1059			SS1A4-22C											
	1106			SS1A4-22D											
	1122			SS1A4-23A2											
	1128			SS1A4-23B											
	1134			SS1A4-23C											
	1136			SS1A4-23D											
	1145			SS1A4-24A											
	1151			SS1A4-24B											
↓	1213		↓	SS1A4-24C	↓									↓	

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	10-31-97 1500				Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			11-3-97 9:00		

Split Samples:
[] Accepted [] Declined _____ Signature

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CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO-R1

SAMPLERS: *(Signature)*
Lairy Johnson

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Totals Metals-See Attached sheet						REMARKS
10-30-97	1217		X	SS1A4-24D	1									X						
	1229			SS1A4-25A																
	1233			SS1A4-25B																
	1237			SS1A4-25C																
	1242			SS1A4-25D																

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	10-31-97 1500				Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			11-3-97 9:00		

HFORM-[illegible]95

Return results & electronic copy to:
Computer Dept. at address at top of page

Split Samples:
[] Accepted [] Declined _____ ure

CHAIN OF CUSTODY RECORD

Hydrometrics Inc.

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO-RI

SAMPLERS: *(Signature)*
Lairy Johnson

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Total Metals - See Attachment sheet	REMARKS
10-30-97	1248		X	SS1A4-26A	1									X	
	1248			SS1A4-26A$_2$											
	1255			SS1A4-26B											
	1308			SS1A4-26C											
	1312			SS1A4-26D											
	1323			SS1A4-27A											
	1330			SS1A4-27B											
	1343			SS1A4-28A											
	1347			SS1A4-28B											
	1403			SS1A4-29A											
	1403			SS1A4-29A$_2$											
	1412			SS1A4-29B											
	1421			SS1A4-30A											
	1426			SS1A4-30B											

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	10-31-97 1500				Other
					Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits	
			11-3-97 9:00	☐ QA/QC standard mixing instructions ☐ Cover letter	
				☐ Other	

Split Samples:
[] Accepted [] Declined _____ Signature

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

TABLE 4-3B. PARAMETERS, ANALYTICAL METHODS, DETECTION LIMITS, AND HOLDING TIMES FOR SOIL SAMPLES

SOIL or SEDIMENT MATRIX			
Acid digestion of soils and sediments, Method SW 3050			
As	XRF 6010/6020/SW 7060/SW 7061 ICP/ICP-MS/GFAA/HGAA	10	
Cd	XRF 6010/6020/SW 7130/SW 7131 ICP/ ICP-MS/FAA/GFAA	10	
Cr	XRF 6010/6020/SW 7190/SW 7191 ICP/ ICP-MS/FAA/GFAA	20	
Cu	XRF 6010/6020/SW 7210 ICP/ ICP-MS/FAA	10	None for XRF 6 months for digestate
Fe	XRF ICP/ ICP-MS/FAA 6010/6020/SW 7380	20	
Pb	XRF ICP/ ICP-MS/FAA/GFAA 6010/6020/SW 7420/SW 7421	10	
Se	XRF ICP/ ICP-MS/GFAA/HGAA 6010/6020/SW 7740/SW7741	10	
Zn	XRF ICP/ ICP-MS/FAA 6010/6020/SW 7950	10	

1 Method numbers from "Methods for Chemical Analysis of Water and Wastes" (EPA, 1983). XRF used for soils only. Confirmation analysis of soil/sediment split samples (performed at a frequency of one confirmation analysis per twenty XRF analyses) will be performed by digesting soil/sediment according to Method 3050 from SW-846 (EPA, 1990) and analyzing digestate using methodologies for individual elements given in the table above.

2 Project Detection Limit Goal.

Note: Soil and sediment samples analyzed for total metals only.

Note to Lab:

Please analyze all samples w/ the suffix A-B notation. Archive samples C-D. If you have any questions please call Lainy @ 532-3489

Thanks
Lainy

P.S. On XRF Confirmation please use HF Method

0734.502.100
Soil samples

ASARCO

December 17, 1997

RECEIVED
DEC 29 1997
HYDROMETRICS, INC.

Mr. Lairy Johnson
HYDROMETRICS INCORPORATED
P O Box 220182
El Paso TX 79913

Please find attached the analytical results for seven samples collected on October 28 and 30, 1997 from the **ASARCO EL Paso Plant Site.**

The samples were digested using hydrofluoric acid digestion and results are reported on a dry weight basis.

The samples were received by the laboratory on November 11, 1997.

Sincerely,

Milan Mraz
Chemist

MM/jh
Attach.

cc: Jvanek (w/attach.)
GRStanga "

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972788

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972788-1	28-OCT-97	SSIA4-7A2	Resub (L972642-16)	AS	13120.	ppm	MM	15-DEC-97		6010
				CD	356.	ppm	MM	15-DEC-97		6010
				CR	68.	ppm	JJT	16-DEC-97		6010
				CU	73460.	ppm	MM	15-DEC-97		6010
				FE	89430.	ppm	MM	15-DEC-97		6010
				PB	46060.	ppm	MM	15-DEC-97		6010
				SE	1644.	ppm	JJT	16-DEC-97		6010
				ZN	8962.	ppm	MM	15-DEC-97		6010
L972788-2	28-OCT-97	SSIA4-7B	Resub (L972642-17)	AS	1425.	ppm	MM	15-DEC-97		6010
				CD	212.	ppm	MM	15-DEC-97		6010
				CR	184.	ppm	JJT	16-DEC-97		6010
				CU	40210.	ppm	MM	15-DEC-97		6010
				FE	31050.	ppm	MM	15-DEC-97		6010
				PB	7546.	ppm	MM	15-DEC-97		6010
				SE	59.	ppm	JJT	16-DEC-97		6010
				ZN	2775.	ppm	MM	15-DEC-97		6010
L972788-3	28-OCT-97	SSIA4-11A	Resub (L972642-25)	AS	1271.	ppm	MM	15-DEC-97		6010
				CD	368.	ppm	MM	15-DEC-97		6010
				CR	69.	ppm	JJT	16-DEC-97		6010
				CU	6483.	ppm	JJT	16-DEC-97		6010
				FE	29660.	ppm	MM	15-DEC-97		6010
				PB	6339.	ppm	MM	15-DEC-97		6010
				SE	34.	ppm	JJT	16-DEC-97		6010
				ZN	3294.	ppm	MM	15-DEC-97		6010
L972788-4	28-OCT-97	SSIA4-14A2	Resub (L972642-32)	AS	1236.	ppm	MM	15-DEC-97		6010
				CD	498.	ppm	MM	15-DEC-97		6010
				CR	47.	ppm	JJT	16-DEC-97		6010
				CU	6875.	ppm	JJT	16-DEC-97		6010
				FE	34690.	ppm	MM	15-DEC-97		6010
				PB	10720.	ppm	MM	15-DEC-97		6010
				SE	38.	ppm	JJT	16-DEC-97		6010
				ZN	4925.	ppm	MM	15-DEC-97		6010
L972788-5	30-OCT-97	SSIA4-22B	Resub (L972642-51)	AS	88.	ppm	MM	15-DEC-97		6010
				CD	24.	ppm	MM	15-DEC-97		6010
				CR	67.	ppm	JJT	16-DEC-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972788

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972788-5	30-OCT-97	SSIA4-22B	Resub (L972642-51)	CU	891.	ppm	JJT	16-DEC-97		6010
				FE	18240.	ppm	MM	15-DEC-97		6010
				PB	863.	ppm	MM	15-DEC-97		6010
				SE	<10.	ppm	JJT	16-DEC-97		6010
				ZN	615.	ppm	MM	15-DEC-97		6010
L972788-6	30-OCT-97	SSIA4-27B	Resub (L972642-62)	AS	18.	ppm	MM	15-DEC-97		6010
				CD	<5.0	ppm	MM	15-DEC-97		6010
				CR	36.	ppm	JJT	16-DEC-97		6010
				CU	200.	ppm	JJT	16-DEC-97		6010
				FE	9873.	ppm	MM	15-DEC-97		6010
				PB	83.	ppm	MM	15-DEC-97		6010
				SE	<10.	ppm	JJT	16-DEC-97		6010
				ZN	87.	ppm	MM	15-DEC-97		6010
L972788-7	30-OCT-97	SSIA4-27A	Resub (L972642-61)	AS	356.	ppm	MM	15-DEC-97		6010
				CD	111.	ppm	MM	15-DEC-97		6010
				CR	72.	ppm	JJT	16-DEC-97		6010
				CU	5080.	ppm	JJT	16-DEC-97		6010
				FE	27940.	ppm	MM	15-DEC-97		6010
				PB	3883.	ppm	MM	15-DEC-97		6010
				SE	12.	ppm	JJT	16-DEC-97		6010
				ZN	2991.	ppm	MM	15-DEC-97		6010

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971809

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971809-5		Detection Limit	AS	10.	ppm				6010
			CD	5.0	ppm				6010
			CR	10.	ppm				6010
			CU	10.	ppm				6010
			FE	30.	ppm				6010
			PB	10.	ppm				6010
			SE	10.	ppm				6010
			ZN	20.	ppm				6010

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Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971809

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971809-1		Matrix Spike	AS	98.	% RECOVERY	MM	15-DEC-97		6010
			CD	96.	% RECOVERY	MM	15-DEC-97		6010
			CR	86.	% RECOVERY	JJT	16-DEC-97		6010
			CU	SR>4XSA	% RECOVERY	MM	15-DEC-97		6010
			FE	SR>4XSA	% RECOVERY	MM	15-DEC-97		6010
			PB	SR>4XSA	% RECOVERY	MM	15-DEC-97		6010
			SE	83.	% RECOVERY	JJT	16-DEC-97		6010
			ZN	107.	% RECOVERY	MM	15-DEC-97		6010
WG971809-2		Prep Blank	AS	<10.	ppm	MM	15-DEC-97		6010
			CD	<5.0	ppm	MM	15-DEC-97		6010
			CR	<10.	ppm	JJT	16-DEC-97		6010
			CU	<10.	ppm	MM	15-DEC-97		6010
			FE	<30.	ppm	MM	15-DEC-97		6010
			PB	<10.	ppm	MM	15-DEC-97		6010
			SE	<10.	ppm	JJT	16-DEC-97		6010
			ZN	<20.	ppm	MM	15-DEC-97		6010
WG971809-3		Laboratory Control	AS	83.	% RECOVERY	MM	15-DEC-97		6010
			CD	91.	% RECOVERY	MM	15-DEC-97		6010
			CR	74.	% RECOVERY	JJT	16-DEC-97		6010
			CU	103.	% RECOVERY	JJT	16-DEC-97		6010
			FE	87.	% RECOVERY	MM	15-DEC-97		6010
			PB	93.	% RECOVERY	MM	15-DEC-97		6010
			SE	77.	% RECOVERY	JJT	16-DEC-97		6010
			ZN	94.	% RECOVERY	MM	15-DEC-97		6010
WG971809-4		Duplicate	AS	4.3	% RPD	MM	15-DEC-97		6010
			CD	<1.0	% RPD	MM	15-DEC-97		6010
			CR	-1.9	% RPD	JJT	16-DEC-97		6010
			CU	7.0	% RPD	MM	15-DEC-97		6010
			FE	4.4	% RPD	MM	15-DEC-97		6010
			PB	3.1	% RPD	MM	15-DEC-97		6010
			SE	-1.4	% RPD	JJT	16-DEC-97		6010
			ZN	3.4	% RPD	MM	15-DEC-97		6010
WG971809-5		Detection Limit	AS	10.	ppm				6010
			CD	5.0	ppm				6010
			CR	10.	ppm				6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971809

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971809-5		Detection Limit	CU	10.	ppm				6010
			FE	30.	ppm				6010
			PB	10.	ppm				6010
			SE	10.	ppm				6010
			ZN	20.	ppm				6010

Approved

Reviewer

ASARCO

January 7, 1998

RECEIVED
JAN 12 1998
HYDROMETRICS, INC.

Mr. Lairy Johnson
Hydrometrics
EL PASO

Please find attached the pH results for the El Paso soil samples received November 03, 1997. This is an addendum to the report sent by Lee Stone for X-ray results on November 20, 1997.

Sincerely,

Vince Keller

Vince Keller
Environmental Laboratory
Coordinator

VK/mo
Attach.

cc: JVanek (w/attach.)
GRStanga "

0734.502.100
SOIL ANALYTICAL

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-1	27-OCT-97	SSIA4-1A	AS	3100	PPM	LCS	18-NOV-97		EDXRF
			CD	540	PPM	LCS	18-NOV-97		EDXRF
			CR	200	PPM	LCS	18-NOV-97		EDXRF
			CU	31000	PPM	LCS	18-NOV-97		EDXRF
			FE	7.2	%	LCS	18-NOV-97		EDXRF
			PB	11000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.0	pH	LV	06-JAN-98		9045
			SE	56	PPM	LCS	18-NOV-97		EDXRF
			ZN	11000	PPM	LCS	18-NOV-97		EDXRF
L972642-2	27-OCT-97	SSIA4-1B	AS	97	PPM	LCS	18-NOV-97		EDXRF
			CD	66	PPM	LCS	18-NOV-97		EDXRF
			CR	81	PPM	LCS	18-NOV-97		EDXRF
			CU	280	PPM	LCS	18-NOV-97		EDXRF
			FE	1.3	%	LCS	18-NOV-97		EDXRF
			PB	200	PPM	LCS	18-NOV-97		EDXRF
			PH	7.6	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	790	PPM	LCS	18-NOV-97		EDXRF
L972642-3	27-OCT-97	SSIA4-2A	AS	4900	PPM	LCS	18-NOV-97		EDXRF
			CD	1000	PPM	LCS	18-NOV-97		EDXRF
			CR	100	PPM	LCS	18-NOV-97		EDXRF
			CU	18000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.9	%	LCS	18-NOV-97		EDXRF
			PB	11000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.5	pH	LV	06-JAN-98		9045
			SE	74	PPM	LCS	18-NOV-97		EDXRF
			ZN	7300	PPM	LCS	18-NOV-97		EDXRF
L972642-4	27-OCT-97	SSIA4-2A2	AS	6200	PPM	LCS	18-NOV-97		EDXRF
			CD	1200	PPM	LCS	18-NOV-97		EDXRF
			CR	210	PPM	LCS	18-NOV-97		EDXRF
			CU	17000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.7	%	LCS	18-NOV-97		EDXRF
			PB	11000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.4	pH	LV	06-JAN-98		9045
			SE	100	PPM	LCS	18-NOV-97		EDXRF
			ZN	9800	PPM	LCS	18-NOV-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-5	27-OCT-97	SSIA4-2B	AS	7000	PPM	LCS	18-NOV-97		EDXRF
			CD	1200	PPM	LCS	18-NOV-97		EDXRF
			CR	140	PPM	LCS	18-NOV-97		EDXRF
			CU	17000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.5	%	LCS	18-NOV-97		EDXRF
			PB	12000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.4	pH	LV	06-JAN-98		9045
			SE	120	PPM	LCS	18-NOV-97		EDXRF
			ZN	8700	PPM	LCS	18-NOV-97		EDXRF
L972642-6	27-OCT-97	SSIA4-3A	AS	4100	PPM	LCS	18-NOV-97		EDXRF
			CD	1300	PPM	LCS	18-NOV-97		EDXRF
			CR	76	PPM	LCS	18-NOV-97		EDXRF
			CU	14000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.2	%	LCS	18-NOV-97		EDXRF
			PB	9300	PPM	LCS	18-NOV-97		EDXRF
			PH	7.2	pH	LV	06-JAN-98		9045
			SE	58	PPM	LCS	18-NOV-97		EDXRF
			ZN	7100	PPM	LCS	18-NOV-97		EDXRF
L972642-7	27-OCT-97	SSIA4-3B	AS	2900	PPM	LCS	18-NOV-97		EDXRF
			CD	1500	PPM	LCS	18-NOV-97		EDXRF
			CR	36	PPM	LCS	18-NOV-97		EDXRF
			CU	9300	PPM	LCS	18-NOV-97		EDXRF
			FE	3.0	%	LCS	18-NOV-97		EDXRF
			PB	8400	PPM	LCS	18-NOV-97		EDXRF
			PH	7.3	pH	LV	06-JAN-98		9045
			SE	60	PPM	LCS	18-NOV-97		EDXRF
			ZN	5600	PPM	LCS	18-NOV-97		EDXRF
L972642-8	28-OCT-97	SSIA4-4A	AS	1200	PPM	LCS	18-NOV-97		EDXRF
			CD	360	PPM	LCS	18-NOV-97		EDXRF
			CR	75	PPM	LCS	18-NOV-97		EDXRF
			CU	16000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.8	%	LCS	18-NOV-97		EDXRF
			PB	7500	PPM	LCS	18-NOV-97		EDXRF
			PH	7.7	pH	LV	06-JAN-98		9045
			SE	33	PPM	LCS	18-NOV-97		EDXRF
			ZN	5600	PPM	LCS	18-NOV-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-9	28-OCT-97	SSIA4-4B	AS	1100	PPM	LCS	18-NOV-97		EDXRF
			CD	280	PPM	LCS	18-NOV-97		EDXRF
			CR	120	PPM	LCS	18-NOV-97		EDXRF
			CU	13000	PPM	LCS	18-NOV-97		EDXRF
			FE	4.6	%	LCS	18-NOV-97		EDXRF
			PB	7500	PPM	LCS	18-NOV-97		EDXRF
			PH	7.8	pH	LV	06-JAN-98		9045
			SE	41	PPM	LCS	18-NOV-97		EDXRF
			ZN	6700	PPM	LCS	18-NOV-97		EDXRF
L972642-10	28-OCT-97	SSIA4-5A	AS	3500	PPM	LCS	18-NOV-97		EDXRF
			CD	840	PPM	LCS	18-NOV-97		EDXRF
			CR	68	PPM	LCS	18-NOV-97		EDXRF
			CU	31000	PPM	LCS	18-NOV-97		EDXRF
			FE	5.0	%	LCS	18-NOV-97		EDXRF
			PB	21000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.1	pH	LV	06-JAN-98		9045
			SE	90	PPM	LCS	18-NOV-97		EDXRF
			ZN	12000	PPM	LCS	18-NOV-97		EDXRF
L972642-11	28-OCT-97	SSIA4-5A2	AS	3400	PPM	LCS	18-NOV-97		EDXRF
			CD	870	PPM	LCS	18-NOV-97		EDXRF
			CR	180	PPM	LCS	18-NOV-97		EDXRF
			CU	32000	PPM	LCS	18-NOV-97		EDXRF
			FE	5.0	%	LCS	18-NOV-97		EDXRF
			PB	23000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.0	pH	LV	06-JAN-98		9045
			SE	87	PPM	LCS	18-NOV-97		EDXRF
			ZN	13000	PPM	LCS	18-NOV-97		EDXRF
L972642-12	28-OCT-97	SSIA4-5B	AS	370	PPM	LCS	18-NOV-97		EDXRF
			CD	54	PPM	LCS	18-NOV-97		EDXRF
			CR	36	PPM	LCS	18-NOV-97		EDXRF
			CU	2400	PPM	LCS	18-NOV-97		EDXRF
			FE	2.4	%	LCS	18-NOV-97		EDXRF
			PB	2600	PPM	LCS	18-NOV-97		EDXRF
			PH	7.7	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	980	PPM	LCS	18-NOV-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-13	28-OCT-97	SSIA4-6A	AS	5900	PPM	LCS	18-NOV-97		EDXRF
			CD	1300	PPM	LCS	18-NOV-97		EDXRF
			CR	120	PPM	LCS	18-NOV-97		EDXRF
			CU	40000	PPM	LCS	18-NOV-97		EDXRF
			FE	5.0	%	LCS	18-NOV-97		EDXRF
			PB	15000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.5	pH	LV	06-JAN-98		9045
			SE	110	PPM	LCS	18-NOV-97		EDXRF
			ZN	8700	PPM	LCS	18-NOV-97		EDXRF
L972642-14	28-OCT-97	SSIA4-6B	AS	610	PPM	LCS	18-NOV-97		EDXRF
			CD	520	PPM	LCS	18-NOV-97		EDXRF
			CR	100	PPM	LCS	18-NOV-97		EDXRF
			CU	6900	PPM	LCS	18-NOV-97		EDXRF
			FE	2.7	%	LCS	18-NOV-97		EDXRF
			PB	4000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.7	pH	LV	06-JAN-98		9045
			SE	16	PPM	LCS	18-NOV-97		EDXRF
			ZN	2900	PPM	LCS	18-NOV-97		EDXRF
L972642-15	28-OCT-97	SSIA4-7A	AS	17000	PPM	LCS	18-NOV-97		EDXRF
			CD	350	PPM	LCS	18-NOV-97		EDXRF
			CR	57	PPM	LCS	18-NOV-97		EDXRF
			CU	82000	PPM	LCS	18-NOV-97		EDXRF
			FE	8.7	%	LCS	18-NOV-97		EDXRF
			PB	49000	PPM	LCS	18-NOV-97		EDXRF
			PH	4.6	pH	LV	06-JAN-98		9045
			SE	1600	PPM	LCS	18-NOV-97		EDXRF
			ZN	7900	PPM	LCS	18-NOV-97		EDXRF
L972642-16	28-OCT-97	SSIA4-7A2	AS	18000	PPM	LCS	18-NOV-97		EDXRF
			CD	360	PPM	LCS	18-NOV-97		EDXRF
			CR	39	PPM	LCS	18-NOV-97		EDXRF
			CU	81000	PPM	LCS	18-NOV-97		EDXRF
			FE	8.4	%	LCS	18-NOV-97		EDXRF
			PB	51000	PPM	LCS	18-NOV-97		EDXRF
			PH	4.4	pH	LV	06-JAN-98		9045
			SE	1800	PPM	LCS	18-NOV-97		EDXRF
			ZN	8100	PPM	LCS	18-NOV-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-17	28-OCT-97	SSIA4-7B	AS	2200	PPM	LCS	18-NOV-97		EDXRF
			CD	310	PPM	LCS	18-NOV-97		EDXRF
			CR	210	PPM	LCS	18-NOV-97		EDXRF
			CU	68000	PPM	LCS	18-NOV-97		EDXRF
			FE	4.0	%	LCS	18-NOV-97		EDXRF
			PB	12000	PPM	LCS	18-NOV-97		EDXRF
			PH	5.0	pH	LV	06-JAN-98		9045
			SE	110	PPM	LCS	18-NOV-97		EDXRF
			ZN	3600	PPM	LCS	18-NOV-97		EDXRF
L972642-18	28-OCT-97	SSIA4-8A	AS	3300	PPM	LCS	18-NOV-97		EDXRF
			CD	980	PPM	LCS	18-NOV-97		EDXRF
			CR	180	PPM	LCS	18-NOV-97		EDXRF
			CU	25000	PPM	LCS	18-NOV-97		EDXRF
			FE	5.0	%	LCS	18-NOV-97		EDXRF
			PB	25000	PPM	LCS	18-NOV-97		EDXRF
			PH	6.4	pH	LV	06-JAN-98		9045
			SE	100	PPM	LCS	18-NOV-97		EDXRF
			ZN	11000	PPM	LCS	18-NOV-97		EDXRF
L972642-19	28-OCT-97	SSIA4-8B	AS	990	PPM	LCS	18-NOV-97		EDXRF
			CD	190	PPM	LCS	18-NOV-97		EDXRF
			CR	75	PPM	LCS	18-NOV-97		EDXRF
			CU	4200	PPM	LCS	18-NOV-97		EDXRF
			FE	2.7	%	LCS	18-NOV-97		EDXRF
			PB	4100	PPM	LCS	18-NOV-97		EDXRF
			PH	6.9	pH	LV	06-JAN-98		9045
			SE	15	PPM	LCS	18-NOV-97		EDXRF
			ZN	2100	PPM	LCS	18-NOV-97		EDXRF
L972642-20	28-OCT-97	SSIA4-9A	AS	3000	PPM	LCS	18-NOV-97		EDXRF
			CD	970	PPM	LCS	18-NOV-97		EDXRF
			CR	74	PPM	LCS	18-NOV-97		EDXRF
			CU	12000	PPM	LCS	18-NOV-97		EDXRF
			FE	4.3	%	LCS	18-NOV-97		EDXRF
			PB	11000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.0	pH	LV	06-JAN-98		9045
			SE	30	PPM	LCS	18-NOV-97		EDXRF
			ZN	5400	PPM	LCS	18-NOV-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-21	28-OCT-97	SSIA4-9B	AS	1300	PPM	LCS	18-NOV-97		EDXRF
			CD	600	PPM	LCS	18-NOV-97		EDXRF
			CR	220	PPM	LCS	18-NOV-97		EDXRF
			CU	3900	PPM	LCS	18-NOV-97		EDXRF
			FE	3.4	%	LCS	18-NOV-97		EDXRF
			PB	3200	PPM	LCS	18-NOV-97		EDXRF
			PH	6.5	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	2400	PPM	LCS	18-NOV-97		EDXRF
L972642-22	28-OCT-97	SSIA4-10A	AS	840	PPM	LCS	18-NOV-97		EDXRF
			CD	290	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	5800	PPM	LCS	18-NOV-97		EDXRF
			FE	3.0	%	LCS	18-NOV-97		EDXRF
			PB	5100	PPM	LCS	18-NOV-97		EDXRF
			PH	7.7	pH	LV	06-JAN-98		9045
			SE	24	PPM	LCS	18-NOV-97		EDXRF
			ZN	3200	PPM	LCS	18-NOV-97		EDXRF
L972642-23	28-OCT-97	SSIA4-10A2	AS	1500	PPM	LCS	18-NOV-97		EDXRF
			CD	380	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	8800	PPM	LCS	18-NOV-97		EDXRF
			FE	3.4	%	LCS	18-NOV-97		EDXRF
			PB	6800	PPM	LCS	18-NOV-97		EDXRF
			PH	7.9	pH	LV	06-JAN-98		9045
			SE	24	PPM	LCS	18-NOV-97		EDXRF
			ZN	4300	PPM	LCS	18-NOV-97		EDXRF
L972642-24	28-OCT-97	SSIA4-10B	AS	880	PPM	LCS	18-NOV-97		EDXRF
			CD	140	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	3400	PPM	LCS	18-NOV-97		EDXRF
			FE	2.6	%	LCS	18-NOV-97		EDXRF
			PB	2800	PPM	LCS	18-NOV-97		EDXRF
			PH	7.8	pH	LV	06-JAN-98		9045
			SE	18	PPM	LCS	18-NOV-97		EDXRF
			ZN	2000	PPM	LCS	18-NOV-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-25	28-OCT-97	SSIA4-11A	AS	1800	PPM	LCS	18-NOV-97		EDXRF
			CD	500	PPM	LCS	18-NOV-97		EDXRF
			CR	140	PPM	LCS	18-NOV-97		EDXRF
			CU	9700	PPM	LCS	18-NOV-97		EDXRF
			FE	3.6	%	LCS	18-NOV-97		EDXRF
			PB	8900	PPM	LCS	18-NOV-97		EDXRF
			PH	8.0	pH	LV	06-JAN-98		9045
			SE	53	PPM	LCS	18-NOV-97		EDXRF
			ZN	4600	PPM	LCS	18-NOV-97		EDXRF
L972642-26	28-OCT-97	SSIA4-11B	AS	680	PPM	LCS	18-NOV-97		EDXRF
			CD	55	PPM	LCS	18-NOV-97		EDXRF
			CR	61	PPM	LCS	18-NOV-97		EDXRF
			CU	1000	PPM	LCS	18-NOV-97		EDXRF
			FE	2.6	%	LCS	18-NOV-97		EDXRF
			PB	1300	PPM	LCS	18-NOV-97		EDXRF
			PH	7.9	pH	LV	06-JAN-98		9045
			SE	13	PPM	LCS	18-NOV-97		EDXRF
			ZN	640	PPM	LCS	18-NOV-97		EDXRF
L972642-27	28-OCT-97	SSIA4-12A	AS	4800	PPM	LCS	18-NOV-97		EDXRF
			CD	930	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	11000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.1	%	LCS	18-NOV-97		EDXRF
			PB	13000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.2	pH	LV	06-JAN-98		9045
			SE	63	PPM	LCS	18-NOV-97		EDXRF
			ZN	6600	PPM	LCS	18-NOV-97		EDXRF
L972642-28	28-OCT-97	SSIA4-12B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	18	PPM	LCS	18-NOV-97		EDXRF
			CR	140	PPM	LCS	18-NOV-97		EDXRF
			CU	1800	PPM	LCS	18-NOV-97		EDXRF
			FE	19	%	LCS	18-NOV-97		EDXRF
			PB	10000	PPM	LCS	18-NOV-97		EDXRF
			PH	IS					
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	20000	PPM	LCS	18-NOV-97		EDXRF

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L972642-29	28-OCT-97	SSIA4-13A	AS	860	PPM	LCS	18-NOV-97		EDXRF
			CD	320	PPM	LCS	18-NOV-97		EDXRF
			CR	74	PPM	LCS	18-NOV-97		EDXRF
			CU	12000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.4	%	LCS	18-NOV-97		EDXRF
			PB	11000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.5	pH	LV	06-JAN-98		9045
			SE	52	PPM	LCS	18-NOV-97		EDXRF
			ZN	5400	PPM	LCS	18-NOV-97		EDXRF
L972642-30	28-OCT-97	SSIA4-13B	AS	790	PPM	LCS	18-NOV-97		EDXRF
			CD	320	PPM	LCS	18-NOV-97		EDXRF
			CR	120	PPM	LCS	18-NOV-97		EDXRF
			CU	14000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.6	%	LCS	18-NOV-97		EDXRF
			PB	12000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.4	pH	LV	06-JAN-98		9045
			SE	70	PPM	LCS	18-NOV-97		EDXRF
			ZN	7400	PPM	LCS	18-NOV-97		EDXRF
L972642-31	28-OCT-97	SSIA4-14A	AS	1600	PPM	LCS	18-NOV-97		EDXRF
			CD	640	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	10000	PPM	LCS	18-NOV-97		EDXRF
			FE	4.0	%	LCS	18-NOV-97		EDXRF
			PB	14000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.6	pH	LV	06-JAN-98		9045
			SE	50	PPM	LCS	18-NOV-97		EDXRF
			ZN	6300	PPM	LCS	18-NOV-97		EDXRF
L972642-32	28-OCT-97	SSIA4-14A2	AS	1500	PPM	LCS	18-NOV-97		EDXRF
			CD	670	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	9800	PPM	LCS	18-NOV-97		EDXRF
			FE	3.9	%	LCS	18-NOV-97		EDXRF
			PB	15000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.7	pH	LV	06-JAN-98		9045
			SE	62	PPM	LCS	18-NOV-97		EDXRF
			ZN	6700	PPM	LCS	18-NOV-97		EDXRF

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L972642-33	28-OCT-97	SSIA4-14B	AS	490	PPM	LCS	18-NOV-97		EDXRF
			CD	190	PPM	LCS	18-NOV-97		EDXRF
			CR	82	PPM	LCS	18-NOV-97		EDXRF
			CU	3700	PPM	LCS	18-NOV-97		EDXRF
			FE	3.3	%	LCS	18-NOV-97		EDXRF
			PB	4500	PPM	LCS	18-NOV-97		EDXRF
			PH	8.0	pH	LV	06-JAN-98		9045
			SE	16	PPM	LCS	18-NOV-97		EDXRF
			ZN	2400	PPM	LCS	18-NOV-97		EDXRF
L972642-34	28-OCT-97	SSIA4-15A	AS	480	PPM	LCS	18-NOV-97		EDXRF
			CD	300	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	4400	PPM	LCS	18-NOV-97		EDXRF
			FE	2.7	%	LCS	18-NOV-97		EDXRF
			PB	6800	PPM	LCS	18-NOV-97		EDXRF
			PH	7.8	pH	LV	06-JAN-98		9045
			SE	33	PPM	LCS	18-NOV-97		EDXRF
			ZN	3200	PPM	LCS	18-NOV-97		EDXRF
L972642-35	28-OCT-97	SSIA4-15B	AS	440	PPM	LCS	18-NOV-97		EDXRF
			CD	240	PPM	LCS	18-NOV-97		EDXRF
			CR	71	PPM	LCS	18-NOV-97		EDXRF
			CU	3800	PPM	LCS	18-NOV-97		EDXRF
			FE	3.0	%	LCS	18-NOV-97		EDXRF
			PB	5300	PPM	LCS	18-NOV-97		EDXRF
			PH	7.9	pH	LV	06-JAN-98		9045
			SE	21	PPM	LCS	18-NOV-97		EDXRF
			ZN	3000	PPM	LCS	18-NOV-97		EDXRF
L972642-36	27-OCT-97	SSIA4-16A	AS	520	PPM	LCS	18-NOV-97		EDXRF
			CD	350	PPM	LCS	18-NOV-97		EDXRF
			CR	71	PPM	LCS	18-NOV-97		EDXRF
			CU	5000	PPM	LCS	18-NOV-97		EDXRF
			FE	2.7	%	LCS	18-NOV-97		EDXRF
			PB	5900	PPM	LCS	18-NOV-97		EDXRF
			PH	8.1	pH	LV	06-JAN-98		9045
			SE	32	PPM	LCS	18-NOV-97		EDXRF
			ZN	2800	PPM	LCS	18-NOV-97		EDXRF

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L972642-37	30-OCT-97	SSIA4-16B	AS	66	PPM	LCS	18-NOV-97		EDXRF
			CD	30	PPM	LCS	18-NOV-97		EDXRF
			CR	78	PPM	LCS	18-NOV-97		EDXRF
			CU	640	PPM	LCS	18-NOV-97		EDXRF
			FE	2.5	%	LCS	18-NOV-97		EDXRF
			PB	710	PPM	LCS	18-NOV-97		EDXRF
			PH	8.2	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	380	PPM	LCS	18-NOV-97		EDXRF
L972642-38	30-OCT-97	SSIA4-17A	AS	220	PPM	LCS	18-NOV-97		EDXRF
			CD	76	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	4600	PPM	LCS	18-NOV-97		EDXRF
			FE	2.9	%	LCS	18-NOV-97		EDXRF
			PB	2500	PPM	LCS	18-NOV-97		EDXRF
			PH	8.1	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1400	PPM	LCS	18-NOV-97		EDXRF
L972642-39	30-OCT-97	SSIA4-17A2	AS	240	PPM	LCS	18-NOV-97		EDXRF
			CD	75	PPM	LCS	18-NOV-97		EDXRF
			CR	84	PPM	LCS	18-NOV-97		EDXRF
			CU	4200	PPM	LCS	18-NOV-97		EDXRF
			FE	2.9	%	LCS	18-NOV-97		EDXRF
			PB	2100	PPM	LCS	18-NOV-97		EDXRF
			PH	8.1	pH	LV	06-JAN-98		9045
			SE	11	PPM	LCS	18-NOV-97		EDXRF
			ZN	1300	PPM	LCS	18-NOV-97		EDXRF
L972642-40	30-OCT-97	SSIA4-17B	AS	160	PPM	LCS	18-NOV-97		EDXRF
			CD	57	PPM	LCS	18-NOV-97		EDXRF
			CR	120	PPM	LCS	18-NOV-97		EDXRF
			CU	1900	PPM	LCS	18-NOV-97		EDXRF
			FE	2.9	%	LCS	18-NOV-97		EDXRF
			PB	1900	PPM	LCS	18-NOV-97		EDXRF
			PH	8.4	pH	LV	06-JAN-98		9045
			SE	11	PPM	LCS	18-NOV-97		EDXRF
			ZN	1500	PPM	LCS	18-NOV-97		EDXRF

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L972642-41	30-OCT-97	SSIA4-18A	AS	160	PPM	LCS	18-NOV-97		EDXRF
			CD	59	PPM	LCS	18-NOV-97		EDXRF
			CR	120	PPM	LCS	18-NOV-97		EDXRF
			CU	2500	PPM	LCS	18-NOV-97		EDXRF
			FE	2.3	%	LCS	18-NOV-97		EDXRF
			PB	1400	PPM	LCS	18-NOV-97		EDXRF
			PH	8.4	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	780	PPM	LCS	18-NOV-97		EDXRF
L972642-42	30-OCT-97	SSIA4-18B	AS	150	PPM	LCS	18-NOV-97		EDXRF
			CD	85	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	1700	PPM	LCS	18-NOV-97		EDXRF
			FE	2.6	%	LCS	18-NOV-97		EDXRF
			PB	1200	PPM	LCS	18-NOV-97		EDXRF
			PH	8.4	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1100	PPM	LCS	18-NOV-97		EDXRF
L972642-43	30-OCT-97	SSIA4-19A	AS	52	PPM	LCS	18-NOV-97		EDXRF
			CD	22	PPM	LCS	18-NOV-97		EDXRF
			CR	65	PPM	LCS	18-NOV-97		EDXRF
			CU	1200	PPM	LCS	18-NOV-97		EDXRF
			FE	1.5	%	LCS	18-NOV-97		EDXRF
			PB	560	PPM	LCS	18-NOV-97		EDXRF
			PH	8.3	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	350	PPM	LCS	18-NOV-97		EDXRF
L972642-44	30-OCT-97	SSIA4-19B	AS	24	PPM	LCS	18-NOV-97		EDXRF
			CD	10	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	590	PPM	LCS	18-NOV-97		EDXRF
			FE	2.1	%	LCS	18-NOV-97		EDXRF
			PB	440	PPM	LCS	18-NOV-97		EDXRF
			PH	8.5	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	400	PPM	LCS	18-NOV-97		EDXRF

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L972642-45	30-OCT-97	SSIA4-20A	AS	75	PPM	LCS	18-NOV-97		EDXRF
			CD	32	PPM	LCS	18-NOV-97		EDXRF
			CR	57	PPM	LCS	18-NOV-97		EDXRF
			CU	2600	PPM	LCS	18-NOV-97		EDXRF
			FE	2.0	%	LCS	18-NOV-97		EDXRF
			PB	1300	PPM	LCS	18-NOV-97		EDXRF
			PH	7.8	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	840	PPM	LCS	18-NOV-97		EDXRF
L972642-46	30-OCT-97	SSIA4-20A2	AS	100	PPM	LCS	18-NOV-97		EDXRF
			CD	42	PPM	LCS	18-NOV-97		EDXRF
			CR	33	PPM	LCS	18-NOV-97		EDXRF
			CU	2800	PPM	LCS	18-NOV-97		EDXRF
			FE	2.1	%	LCS	18-NOV-97		EDXRF
			PB	1400	PPM	LCS	18-NOV-97		EDXRF
			PH	7.8	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	900	PPM	LCS	18-NOV-97		EDXRF
L972642-47	30-OCT-97	SSIA4-20B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	16	PPM	LCS	18-NOV-97		EDXRF
			CR	45	PPM	LCS	18-NOV-97		EDXRF
			CU	840	PPM	LCS	18-NOV-97		EDXRF
			FE	2.7	%	LCS	18-NOV-97		EDXRF
			PB	550	PPM	LCS	18-NOV-97		EDXRF
			PH	8.2	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	400	PPM	LCS	18-NOV-97		EDXRF
L972642-48	30-OCT-97	SSIA4-21A	AS	160	PPM	LCS	18-NOV-97		EDXRF
			CD	63	PPM	LCS	18-NOV-97		EDXRF
			CR	40	PPM	LCS	18-NOV-97		EDXRF
			CU	3600	PPM	LCS	18-NOV-97		EDXRF
			FE	2.8	%	LCS	18-NOV-97		EDXRF
			PB	2500	PPM	LCS	18-NOV-97		EDXRF
			PH	8.3	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1600	PPM	LCS	18-NOV-97		EDXRF

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L972642-49	30-OCT-97	SSIA4-21B	AS	210	PPM	LCS	18-NOV-97		EDXRF
			CD	73	PPM	LCS	18-NOV-97		EDXRF
			CR	86	PPM	LCS	18-NOV-97		EDXRF
			CU	3200	PPM	LCS	18-NOV-97		EDXRF
			FE	3.6	%	LCS	18-NOV-97		EDXRF
			PB	3200	PPM	LCS	18-NOV-97		EDXRF
			PH	8.2	pH	LV	06-JAN-98		9045
			SE	14	PPM	LCS	18-NOV-97		EDXRF
			ZN	2700	PPM	LCS	18-NOV-97		EDXRF
L972642-50	30-OCT-97	SSIA4-22A	AS	140	PPM	LCS	18-NOV-97		EDXRF
			CD	62	PPM	LCS	18-NOV-97		EDXRF
			CR	75	PPM	LCS	18-NOV-97		EDXRF
			CU	3100	PPM	LCS	18-NOV-97		EDXRF
			FE	2.6	%	LCS	18-NOV-97		EDXRF
			PB	2200	PPM	LCS	18-NOV-97		EDXRF
			PH	8.0	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1400	PPM	LCS	18-NOV-97		EDXRF
L972642-51	30-OCT-97	SSIA4-22B	AS	45	PPM	LCS	18-NOV-97		EDXRF
			CD	22	PPM	LCS	18-NOV-97		EDXRF
			CR	53	PPM	LCS	18-NOV-97		EDXRF
			CU	1100	PPM	LCS	18-NOV-97		EDXRF
			FE	2.3	%	LCS	18-NOV-97		EDXRF
			PB	1200	PPM	LCS	18-NOV-97		EDXRF
			PH	8.4	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	780	PPM	LCS	18-NOV-97		EDXRF
L972642-52	30-OCT-97	SSIA4-23A2	AS	270	PPM	LCS	18-NOV-97		EDXRF
			CD	97	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	5300	PPM	LCS	18-NOV-97		EDXRF
			FE	2.6	%	LCS	18-NOV-97		EDXRF
			PB	5000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.8	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	3200	PPM	LCS	18-NOV-97		EDXRF

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Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-53	30-OCT-97	SSIA4-23B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	13	PPM	LCS	18-NOV-97		EDXRF
			CR	39	PPM	LCS	18-NOV-97		EDXRF
			CU	410	PPM	LCS	18-NOV-97		EDXRF
			FE	2.3	%	LCS	18-NOV-97		EDXRF
			PB	370	PPM	LCS	18-NOV-97		EDXRF
			PH	8.5	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	250	PPM	LCS	18-NOV-97		EDXRF
L972642-54	30-OCT-97	SSIA4-24A	AS	120	PPM	LCS	18-NOV-97		EDXRF
			CD	38	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	3000	PPM	LCS	18-NOV-97		EDXRF
			FE	2.3	%	LCS	18-NOV-97		EDXRF
			PB	1800	PPM	LCS	18-NOV-97		EDXRF
			PH	8.2	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1500	PPM	LCS	18-NOV-97		EDXRF
L972642-55	30-OCT-97	SSIA4-24B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	220	PPM	LCS	18-NOV-97		EDXRF
			FE	2.5	%	LCS	18-NOV-97		EDXRF
			PB	260	PPM	LCS	18-NOV-97		EDXRF
			PH	8.8	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	230	PPM	LCS	18-NOV-97		EDXRF
L972642-56	30-OCT-97	SSIA4-25A	AS	380	PPM	LCS	18-NOV-97		EDXRF
			CD	200	PPM	LCS	18-NOV-97		EDXRF
			CR	83	PPM	LCS	18-NOV-97		EDXRF
			CU	12000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.2	%	LCS	18-NOV-97		EDXRF
			PB	9400	PPM	LCS	18-NOV-97		EDXRF
			PH	7.5	pH	LV	06-JAN-98		9045
			SE	24	PPM	LCS	18-NOV-97		EDXRF
			ZN	6700	PPM	LCS	18-NOV-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-57	30-OCT-97	SSIA4-25B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	92	PPM	LCS	18-NOV-97		EDXRF
			CU	530	PPM	LCS	18-NOV-97		EDXRF
			FE	2.2	%	LCS	18-NOV-97		EDXRF
			PB	370	PPM	LCS	18-NOV-97		EDXRF
			PH	8.2	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	280	PPM	LCS	18-NOV-97		EDXRF
L972642-58	30-OCT-97	SSIA4-26A	AS	320	PPM	LCS	18-NOV-97		EDXRF
			CD	82	PPM	LCS	18-NOV-97		EDXRF
			CR	65	PPM	LCS	18-NOV-97		EDXRF
			CU	7500	PPM	LCS	18-NOV-97		EDXRF
			FE	4.0	%	LCS	18-NOV-97		EDXRF
			PB	3800	PPM	LCS	18-NOV-97		EDXRF
			PH	7.7	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	2800	PPM	LCS	18-NOV-97		EDXRF
L972642-59	30-OCT-97	SSIA4-26A2	AS	300	PPM	LCS	18-NOV-97		EDXRF
			CD	89	PPM	LCS	18-NOV-97		EDXRF
			CR	50	PPM	LCS	18-NOV-97		EDXRF
			CU	7500	PPM	LCS	18-NOV-97		EDXRF
			FE	4.1	%	LCS	18-NOV-97		EDXRF
			PB	3600	PPM	LCS	18-NOV-97		EDXRF
			PH	7.7	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	2600	PPM	LCS	18-NOV-97		EDXRF
L972642-60	30-OCT-97	SSIA4-26B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	140	PPM	LCS	18-NOV-97		EDXRF
			FE	2.8	%	LCS	18-NOV-97		EDXRF
			PB	180	PPM	LCS	18-NOV-97		EDXRF
			PH	8.4	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	150	PPM	LCS	18-NOV-97		EDXRF

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Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-61	30-OCT-97	SSIA4-27A	AS	370	PPM	LCS	18-NOV-97		EDXRF
			CD	140	PPM	LCS	18-NOV-97		EDXRF
			CR	180	PPM	LCS	18-NOV-97		EDXRF
			CU	7600	PPM	LCS	18-NOV-97		EDXRF
			FE	3.2	%	LCS	18-NOV-97		EDXRF
			PB	5300	PPM	LCS	18-NOV-97		EDXRF
			PH	7.7	pH	LV	06-JAN-98		9045
			SE	22	PPM	LCS	18-NOV-97		EDXRF
			ZN	3900	PPM	LCS	18-NOV-97		EDXRF
L972642-62	30-OCT-97	SSIA4-27B	AS	25	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	95	PPM	LCS	18-NOV-97		EDXRF
			FE	1.2	%	LCS	18-NOV-97		EDXRF
			PB	82	PPM	LCS	18-NOV-97		EDXRF
			PH	7.9	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	87	PPM	LCS	18-NOV-97		EDXRF
L972642-63	30-OCT-97	SSIA4-28A	AS	190	PPM	LCS	18-NOV-97		EDXRF
			CD	42	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	4100	PPM	LCS	18-NOV-97		EDXRF
			FE	2.8	%	LCS	18-NOV-97		EDXRF
			PB	1600	PPM	LCS	18-NOV-97		EDXRF
			PH	7.9	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1500	PPM	LCS	18-NOV-97		EDXRF
L972642-64	30-OCT-97	SSIA4-28B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	67	PPM	LCS	18-NOV-97		EDXRF
			CU	120	PPM	LCS	18-NOV-97		EDXRF
			FE	2.5	%	LCS	18-NOV-97		EDXRF
			PB	63	PPM	LCS	18-NOV-97		EDXRF
			PH	8.5	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	72	PPM	LCS	18-NOV-97		EDXRF

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-65	30-OCT-97	SSIA4-29A	AS	490	PPM	LCS	18-NOV-97		EDXRF
			CD	110	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	6000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.9	%	LCS	18-NOV-97		EDXRF
			PB	3900	PPM	LCS	18-NOV-97		EDXRF
			PH	7.6	pH	LV	06-JAN-98		9045
			SE	15	PPM	LCS	18-NOV-97		EDXRF
			ZN	3000	PPM	LCS	18-NOV-97		EDXRF
L972642-66	30-OCT-97	SSIA4-29A2	AS	520	PPM	LCS	18-NOV-97		EDXRF
			CD	100	PPM	LCS	18-NOV-97		EDXRF
			CR	160	PPM	LCS	18-NOV-97		EDXRF
			CU	4900	PPM	LCS	18-NOV-97		EDXRF
			FE	3.2	%	LCS	18-NOV-97		EDXRF
			PB	3000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.7	pH	LV	06-JAN-98		9045
			SE	12	PPM	LCS	18-NOV-97		EDXRF
			ZN	1900	PPM	LCS	18-NOV-97		EDXRF
L972642-67	30-OCT-97	SSIA4-29B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	75	PPM	LCS	18-NOV-97		EDXRF
			CU	190	PPM	LCS	18-NOV-97		EDXRF
			FE	2.2	%	LCS	18-NOV-97		EDXRF
			PB	330	PPM	LCS	18-NOV-97		EDXRF
			PH	8.6	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	270	PPM	LCS	18-NOV-97		EDXRF
L972642-68	30-OCT-97	SSIA4-30A	AS	200	PPM	LCS	18-NOV-97		EDXRF
			CD	16	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	1200	PPM	LCS	18-NOV-97		EDXRF
			FE	1.7	%	LCS	18-NOV-97		EDXRF
			PB	980	PPM	LCS	18-NOV-97		EDXRF
			PH	7.9	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	360	PPM	LCS	18-NOV-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-69	30-OCT-97	SSIA4-30B	AS	250	PPM	LCS	18-NOV-97		EDXRF
			CD	83	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	2300	PPM	LCS	18-NOV-97		EDXRF
			FE	2.4	%	LCS	18-NOV-97		EDXRF
			PB	2700	PPM	LCS	18-NOV-97		EDXRF
			PH	8.0	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	2000	PPM	LCS	18-NOV-97		EDXRF
L972642-70	30-OCT-97	SSIA4-23A	AS	250	PPM	LCS	18-NOV-97		EDXRF
			CD	91	PPM	LCS	18-NOV-97		EDXRF
			CR	73	PPM	LCS	18-NOV-97		EDXRF
			CU	4800	PPM	LCS	18-NOV-97		EDXRF
			FE	2.4	%	LCS	18-NOV-97		EDXRF
			PB	4600	PPM	LCS	18-NOV-97		EDXRF
			PH	7.8	pH	LV	06-JAN-98		9045
			SE	17	PPM	LCS	18-NOV-97		EDXRF
			ZN	2800	PPM	LCS	18-NOV-97		EDXRF

IS=INSUFFICIENT SAMPLE FOR PH. THE RAW PORTION OF THIS SAMPLE WAS CONSUMED DURING THE METALS ANALYSES.

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980006

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980006-3		Laboratory Control	PH	100	% RECOVERY	LV	06-JAN-98		9045
WG980006-4		Duplicate	PH	8.0	% RPD	LV	06-JAN-98		9045
WG980006-8		Laboratory Control	PH	100	% RECOVERY	LV	06-JAN-98		9045
WG980006-9		Duplicate	PH	<1.0	% RPD	LV	06-JAN-98		9045
WG980006-13		Laboratory Control	PH	101	% RECOVERY	LV	06-JAN-98		9045
WG980006-14		Duplicate	PH	<1.0	% RPD	LV	06-JAN-98		9045
WG980006-18		Laboratory Control	PH	100	% RECOVERY	LV	06-JAN-98		9045
WG980006-19		Duplicate	PH	<1.0	% RPD	LV	06-JAN-98		9045

Approved

Reviewer

ASARCO

March 2, 1998

Mr. Lairy Johnson
Hydrometrics Inc.
El Paso

Please find attached the X-ray results for your El Paso soil samples (C and D) collected from July 15th of 97 to Oct. 30th of 97. Also attached are the QC results for this set.

If you have any questions pertaining to the data, please feel free to call.

RECEIVED
MAR 09 1998
HYDROMETRICS, INC.

Lee Stone
Senior Analytical
Chemist

cc: GRStanga (w/attach)
JVanek "

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980356

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-1	15-JUL-97	SSIA1-1C	AS	4700	PPM	LCS	26-FEB-98		EDXRF
			CD	1700	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	12000	PPM	LCS	26-FEB-98		EDXRF
			FE	3.8	%	LCS	26-FEB-98		EDXRF
			PB	12000	PPM	LCS	26-FEB-98		EDXRF
			PH	7.1	pH	EBK	23-FEB-98		9040
			SE	110	PPM	LCS	26-FEB-98		EDXRF
			ZN	11000	PPM	LCS	26-FEB-98		EDXRF
L980356-2	15-JUL-97	SSIA1-1D	AS	2600	PPM	LCS	26-FEB-98		EDXRF
			CD	900	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	24000	PPM	LCS	26-FEB-98		EDXRF
			FE	2.1	%	LCS	26-FEB-98		EDXRF
			PB	20000	PPM	LCS	26-FEB-98		EDXRF
			PH	6.9	pH	EBK	23-FEB-98		9040
			SE	220	PPM	LCS	26-FEB-98		EDXRF
			ZN	7900	PPM	LCS	26-FEB-98		EDXRF
L980356-3	15-JUL-97	SSIA1-2C	AS	15000	PPM	LCS	26-FEB-98		EDXRF
			CD	1200	PPM	LCS	26-FEB-98		EDXRF
			CR	53	PPM	LCS	26-FEB-98		EDXRF
			CU	25000	PPM	LCS	26-FEB-98		EDXRF
			FE	4.4	%	LCS	26-FEB-98		EDXRF
			PB	8900	PPM	LCS	26-FEB-98		EDXRF
			PH	6.7	pH	EBK	23-FEB-98		9040
			SE	230	PPM	LCS	26-FEB-98		EDXRF
			ZN	4500	PPM	LCS	26-FEB-98		EDXRF
L980356-4	15-JUL-97	SSIA1-2D	AS	22000	PPM	LCS	26-FEB-98		EDXRF
			CD	1300	PPM	LCS	26-FEB-98		EDXRF
			CR	130	PPM	LCS	26-FEB-98		EDXRF
			CU	24000	PPM	LCS	26-FEB-98		EDXRF
			FE	4.7	%	LCS	26-FEB-98		EDXRF
			PB	4000	PPM	LCS	26-FEB-98		EDXRF
			PH	7.4	pH	EBK	23-FEB-98		9040
			SE	120	PPM	LCS	26-FEB-98		EDXRF
			ZN	4400	PPM	LCS	26-FEB-98		EDXRF

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980356

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-5	15-JUL-97	SSIA1-3C	AS	3400	PPM	LCS	26-FEB-98		EDXRF
			CD	110	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	21000	PPM	LCS	26-FEB-98		EDXRF
			FE	8.3	%	LCS	26-FEB-98		EDXRF
			PB	7300	PPM	LCS	26-FEB-98		EDXRF
			PH	7.9	pH	EBK	23-FEB-98		9040
			SE	20	PPM	LCS	26-FEB-98		EDXRF
			ZN	8700	PPM	LCS	26-FEB-98		EDXRF
L980356-6	15-JUL-97	SSIA1-3D	AS	1900	PPM	LCS	26-FEB-98		EDXRF
			CD	100	PPM	LCS	26-FEB-98		EDXRF
			CR	160	PPM	LCS	26-FEB-98		EDXRF
			CU	13000	PPM	LCS	26-FEB-98		EDXRF
			FE	6.4	%	LCS	26-FEB-98		EDXRF
			PB	5800	PPM	LCS	26-FEB-98		EDXRF
			PH	8.1	pH	EBK	23-FEB-98		9040
			SE	22	PPM	LCS	26-FEB-98		EDXRF
			ZN	5900	PPM	LCS	26-FEB-98		EDXRF
L980356-7	15-JUL-97	SSIA1-4C	AS	370	PPM	LCS	26-FEB-98		EDXRF
			CD	100	PPM	LCS	26-FEB-98		EDXRF
			CR	31	PPM	LCS	26-FEB-98		EDXRF
			CU	7200	PPM	LCS	26-FEB-98		EDXRF
			FE	3.6	%	LCS	26-FEB-98		EDXRF
			PB	3600	PPM	LCS	26-FEB-98		EDXRF
			PH	8.2	pH	EBK	23-FEB-98		9040
			SE	12	PPM	LCS	26-FEB-98		EDXRF
			ZN	4700	PPM	LCS	26-FEB-98		EDXRF
L980356-8	15-JUL-97	SSIA1-4D	AS	130	PPM	LCS	26-FEB-98		EDXRF
			CD	41	PPM	LCS	26-FEB-98		EDXRF
			CR	63	PPM	LCS	26-FEB-98		EDXRF
			CU	3100	PPM	LCS	26-FEB-98		EDXRF
			FE	2.1	%	LCS	26-FEB-98		EDXRF
			PB	1400	PPM	LCS	26-FEB-98		EDXRF
			PH	8.2	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	740	PPM	LCS	26-FEB-98		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980356

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-9	15-JUL-97	SSIA1-5C	AS	90	PPM	LCS	26-FEB-98		EDXRF
			CD	16	PPM	LCS	26-FEB-98		EDXRF
			CR	64	PPM	LCS	26-FEB-98		EDXRF
			CU	2900	PPM	LCS	26-FEB-98		EDXRF
			FE	1.9	%	LCS	26-FEB-98		EDXRF
			PB	670	PPM	LCS	26-FEB-98		EDXRF
			PH	8.4	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	430	PPM	LCS	26-FEB-98		EDXRF
L980356-10	15-JUL-97	SSIA1-5D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	98	PPM	LCS	26-FEB-98		EDXRF
			CU	310	PPM	LCS	26-FEB-98		EDXRF
			FE	1.5	%	LCS	26-FEB-98		EDXRF
			PB	140	PPM	LCS	26-FEB-98		EDXRF
			PH	8.5	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	95	PPM	LCS	26-FEB-98		EDXRF
L980356-11	14-JUL-97	SSIA2-2C	AS	1600	PPM	LCS	26-FEB-98		EDXRF
			CD	450	PPM	LCS	26-FEB-98		EDXRF
			CR	330	PPM	LCS	26-FEB-98		EDXRF
			CU	6300	PPM	LCS	26-FEB-98		EDXRF
			FE	12	%	LCS	26-FEB-98		EDXRF
			PB	10000	PPM	LCS	26-FEB-98		EDXRF
			PH	10.	pH	EBK	23-FEB-98		9040
			SE	70	PPM	LCS	26-FEB-98		EDXRF
			ZN	77000	PPM	LCS	26-FEB-98		EDXRF
L980356-12	14-JUL-97	SSIA3-3C	AS	28	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	110	PPM	LCS	26-FEB-98		EDXRF
			FE	0.7	%	LCS	26-FEB-98		EDXRF
			PB	95	PPM	LCS	26-FEB-98		EDXRF
			PH	8.3	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	210	PPM	LCS	26-FEB-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-13	14-JUL-97	SSIA3-3D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	17	PPM	LCS	26-FEB-98		EDXRF
			FE	0.7	%	LCS	26-FEB-98		EDXRF
			PB	45	PPM	LCS	26-FEB-98		EDXRF
			PH	8.7	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	120	PPM	LCS	26-FEB-98		EDXRF
L980356-14	15-JUL-97	SSIA3-6C	AS	1200	PPM	LCS	26-FEB-98		EDXRF
			CD	240	PPM	LCS	26-FEB-98		EDXRF
			CR	130	PPM	LCS	26-FEB-98		EDXRF
			CU	4400	PPM	LCS	26-FEB-98		EDXRF
			FE	4.8	%	LCS	26-FEB-98		EDXRF
			PB	4200	PPM	LCS	26-FEB-98		EDXRF
			PH	8.5	pH	EBK	23-FEB-98		9040
			SE	15	PPM	LCS	26-FEB-98		EDXRF
			ZN	5800	PPM	LCS	26-FEB-98		EDXRF
L980356-15	15-JUL-97	SSIA3-6D	AS	580	PPM	LCS	26-FEB-98		EDXRF
			CD	130	PPM	LCS	26-FEB-98		EDXRF
			CR	160	PPM	LCS	26-FEB-98		EDXRF
			CU	3400	PPM	LCS	26-FEB-98		EDXRF
			FE	8.4	%	LCS	26-FEB-98		EDXRF
			PB	2900	PPM	LCS	26-FEB-98		EDXRF
			PH	8.4	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	4600	PPM	LCS	26-FEB-98		EDXRF
L980356-16	15-JUL-97	SSIA3-7C	AS	2000	PPM	LCS	26-FEB-98		EDXRF
			CD	270	PPM	LCS	26-FEB-98		EDXRF
			CR	1500	PPM	LCS	26-FEB-98		EDXRF
			CU	3600	PPM	LCS	26-FEB-98		EDXRF
			FE	7.1	%	LCS	26-FEB-98		EDXRF
			PB	3300	PPM	LCS	26-FEB-98		EDXRF
			PH	8.4	pH	EBK	23-FEB-98		9040
			SE	46	PPM	LCS	26-FEB-98		EDXRF
			ZN	13000	PPM	LCS	26-FEB-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-17	15-JUL-97	SSIA3-7D	AS	1400	PPM	LCS	26-FEB-98		EDXRF
			CD	180	PPM	LCS	26-FEB-98		EDXRF
			CR	1400	PPM	LCS	26-FEB-98		EDXRF
			CU	3600	PPM	LCS	26-FEB-98		EDXRF
			FE	12	%	LCS	26-FEB-98		EDXRF
			PB	3300	PPM	LCS	26-FEB-98		EDXRF
			PH	8.5	pH	EBK	23-FEB-98		9040
			SE	44	PPM	LCS	26-FEB-98		EDXRF
			ZN	12000	PPM	LCS	26-FEB-98		EDXRF
L980356-18	15-JUL-97	SSIA3-8C	AS	64	PPM	LCS	26-FEB-98		EDXRF
			CD	17	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	380	PPM	LCS	26-FEB-98		EDXRF
			FE	1.1	%	LCS	26-FEB-98		EDXRF
			PB	230	PPM	LCS	26-FEB-98		EDXRF
			PH	8.3	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	290	PPM	LCS	26-FEB-98		EDXRF
L980356-19	15-JUL-97	SSIA3-8D	AS	680	PPM	LCS	26-FEB-98		EDXRF
			CD	100	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	3000	PPM	LCS	26-FEB-98		EDXRF
			FE	2.1	%	LCS	26-FEB-98		EDXRF
			PB	1800	PPM	LCS	26-FEB-98		EDXRF
			PH	8.2	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	2200	PPM	LCS	26-FEB-98		EDXRF
L980356-20	15-JUL-97	SSIA3-9C	AS	99	PPM	LCS	26-FEB-98		EDXRF
			CD	49	PPM	LCS	26-FEB-98		EDXRF
			CR	40	PPM	LCS	26-FEB-98		EDXRF
			CU	540	PPM	LCS	26-FEB-98		EDXRF
			FE	1.8	%	LCS	26-FEB-98		EDXRF
			PB	550	PPM	LCS	26-FEB-98		EDXRF
			PH	8.5	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	900	PPM	LCS	26-FEB-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-21	15-JUL-97	SSIA3-9D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	68	PPM	LCS	26-FEB-98		EDXRF
			CU	130	PPM	LCS	26-FEB-98		EDXRF
			FE	1.2	%	LCS	26-FEB-98		EDXRF
			PB	140	PPM	LCS	26-FEB-98		EDXRF
			PH	9.0	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	160	PPM	LCS	26-FEB-98		EDXRF
L980356-22	15-JUL-97	SSIA3-10C	AS	1400	PPM	LCS	26-FEB-98		EDXRF
			CD	370	PPM	LCS	26-FEB-98		EDXRF
			CR	100	PPM	LCS	26-FEB-98		EDXRF
			CU	4800	PPM	LCS	26-FEB-98		EDXRF
			FE	13	%	LCS	26-FEB-98		EDXRF
			PB	14000	PPM	LCS	26-FEB-98		EDXRF
			PH	8.1	pH	EBK	23-FEB-98		9040
			SE	30	PPM	LCS	26-FEB-98		EDXRF
			ZN	13000	PPM	LCS	26-FEB-98		EDXRF
L980356-23	15-JUL-97	SSIA3-10D	AS	3500	PPM	LCS	26-FEB-98		EDXRF
			CD	550	PPM	LCS	26-FEB-98		EDXRF
			CR	90	PPM	LCS	26-FEB-98		EDXRF
			CU	6700	PPM	LCS	26-FEB-98		EDXRF
			FE	13	%	LCS	26-FEB-98		EDXRF
			PB	20000	PPM	LCS	26-FEB-98		EDXRF
			PH	8.0	pH	EBK	23-FEB-98		9040
			SE	31	PPM	LCS	26-FEB-98		EDXRF
			ZN	14000	PPM	LCS	26-FEB-98		EDXRF
L980356-24	27-OCT-97	SSIA4-1C	AS	40	PPM	LCS	26-FEB-98		EDXRF
			CD	42	PPM	LCS	26-FEB-98		EDXRF
			CR	150	PPM	LCS	26-FEB-98		EDXRF
			CU	240	PPM	LCS	26-FEB-98		EDXRF
			FE	2.0	%	LCS	26-FEB-98		EDXRF
			PB	390	PPM	LCS	26-FEB-98		EDXRF
			PH	7.9	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	1300	PPM	LCS	26-FEB-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-25	27-OCT-97	SS1A4-1D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	38	PPM	LCS	26-FEB-98		EDXRF
			CR	40	PPM	LCS	26-FEB-98		EDXRF
			CU	110	PPM	LCS	26-FEB-98		EDXRF
			FE	1.0	%	LCS	26-FEB-98		EDXRF
			PB	120	PPM	LCS	26-FEB-98		EDXRF
			PH	8.8	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	770	PPM	LCS	26-FEB-98		EDXRF
L980356-26	27-OCT-97	SS1A4-2C	AS	100	PPM	LCS	26-FEB-98		EDXRF
			CD	22	PPM	LCS	26-FEB-98		EDXRF
			CR	110	PPM	LCS	26-FEB-98		EDXRF
			CU	110	PPM	LCS	26-FEB-98		EDXRF
			FE	0.9	%	LCS	26-FEB-98		EDXRF
			PB	58	PPM	LCS	26-FEB-98		EDXRF
			PH	8.7	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	130	PPM	LCS	26-FEB-98		EDXRF
L980356-27	27-OCT-97	SS1A4-2D	AS	59	PPM	LCS	26-FEB-98		EDXRF
			CD	15	PPM	LCS	26-FEB-98		EDXRF
			CR	170	PPM	LCS	26-FEB-98		EDXRF
			CU	27	PPM	LCS	26-FEB-98		EDXRF
			FE	0.7	%	LCS	26-FEB-98		EDXRF
			PB	27	PPM	LCS	26-FEB-98		EDXRF
			PH	9.6	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	30	PPM	LCS	26-FEB-98		EDXRF
L980356-28	27-OCT-97	SS1A4-3C	AS	2000	PPM	LCS	26-FEB-98		EDXRF
			CD	1300	PPM	LCS	26-FEB-98		EDXRF
			CR	140	PPM	LCS	26-FEB-98		EDXRF
			CU	3300	PPM	LCS	26-FEB-98		EDXRF
			FE	2.9	%	LCS	26-FEB-98		EDXRF
			PB	2900	PPM	LCS	26-FEB-98		EDXRF
			PH	7.2	pH	EBK	23-FEB-98		9040
			SE	33	PPM	LCS	26-FEB-98		EDXRF
			ZN	2800	PPM	LCS	26-FEB-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-29	27-OCT-97	SSIA4-3D	AS	1200	PPM	LCS	26-FEB-98		EDXRF
			CD	37	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	230	PPM	LCS	26-FEB-98		EDXRF
			FE	3.1	%	LCS	26-FEB-98		EDXRF
			PB	1800	PPM	LCS	26-FEB-98		EDXRF
			PH	7.3	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	400	PPM	LCS	26-FEB-98		EDXRF
L980356-30	28-OCT-97	SSIA4-4C	AS	320	PPM	LCS	26-FEB-98		EDXRF
			CD	69	PPM	LCS	26-FEB-98		EDXRF
			CR	96	PPM	LCS	26-FEB-98		EDXRF
			CU	3100	PPM	LCS	26-FEB-98		EDXRF
			FE	2.7	%	LCS	26-FEB-98		EDXRF
			PB	2900	PPM	LCS	26-FEB-98		EDXRF
			PH	7.9	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	1700	PPM	LCS	26-FEB-98		EDXRF
L980356-31	28-OCT-97	SSIA4-4D	AS	600	PPM	LCS	26-FEB-98		EDXRF
			CD	170	PPM	LCS	26-FEB-98		EDXRF
			CR	120	PPM	LCS	26-FEB-98		EDXRF
			CU	9200	PPM	LCS	26-FEB-98		EDXRF
			FE	4.1	%	LCS	26-FEB-98		EDXRF
			PB	5800	PPM	LCS	26-FEB-98		EDXRF
			PH	7.8	pH	EBK	23-FEB-98		9040
			SE	19	PPM	LCS	26-FEB-98		EDXRF
			ZN	5100	PPM	LCS	26-FEB-98		EDXRF
L980356-32	28-OCT-97	SSIA4-5C	AS	650	PPM	LCS	26-FEB-98		EDXRF
			CD	210	PPM	LCS	26-FEB-98		EDXRF
			CR	150	PPM	LCS	26-FEB-98		EDXRF
			CU	10000	PPM	LCS	26-FEB-98		EDXRF
			FE	3.6	%	LCS	26-FEB-98		EDXRF
			PB	7100	PPM	LCS	26-FEB-98		EDXRF
			PH	7.8	pH	EBK	23-FEB-98		9040
			SE	37	PPM	LCS	26-FEB-98		EDXRF
			ZN	4400	PPM	LCS	26-FEB-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-33	28-OCT-97	SSIA4-5D	AS	45	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	540	PPM	LCS	26-FEB-98		EDXRF
			FE	1.9	%	LCS	26-FEB-98		EDXRF
			PB	430	PPM	LCS	26-FEB-98		EDXRF
			PH	8.5	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	240	PPM	LCS	26-FEB-98		EDXRF
L980356-34	28-OCT-97	SSIA4-6C	AS	37	PPM	LCS	26-FEB-98		EDXRF
			CD	13	PPM	LCS	26-FEB-98		EDXRF
			CR	83	PPM	LCS	26-FEB-98		EDXRF
			CU	200	PPM	LCS	26-FEB-98		EDXRF
			FE	2.0	%	LCS	26-FEB-98		EDXRF
			PB	110	PPM	LCS	26-FEB-98		EDXRF
			PH	8.5	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	110	PPM	LCS	26-FEB-98		EDXRF
L980356-35	28-OCT-97	SSIA4-6D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	150	PPM	LCS	26-FEB-98		EDXRF
			CU	86	PPM	LCS	26-FEB-98		EDXRF
			FE	1.8	%	LCS	26-FEB-98		EDXRF
			PB	38	PPM	LCS	26-FEB-98		EDXRF
			PH	8.4	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	42	PPM	LCS	26-FEB-98		EDXRF
L980356-36	28-OCT-97	SSIA4-7C	AS	1900	PPM	LCS	26-FEB-98		EDXRF
			CD	100	PPM	LCS	26-FEB-98		EDXRF
			CR	200	PPM	LCS	26-FEB-98		EDXRF
			CU	21000	PPM	LCS	26-FEB-98		EDXRF
			FE	3.1	%	LCS	26-FEB-98		EDXRF
			PB	7500	PPM	LCS	26-FEB-98		EDXRF
			PH	5.4	pH	EBK	23-FEB-98		9040
			SE	130	PPM	LCS	26-FEB-98		EDXRF
			ZN	2100	PPM	LCS	26-FEB-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-37	28-OCT-97	SSIA4-7D	AS	1500	PPM	LCS	26-FEB-98		EDXRF
			CD	430	PPM	LCS	26-FEB-98		EDXRF
			CR	230	PPM	LCS	26-FEB-98		EDXRF
			CU	28000	PPM	LCS	26-FEB-98		EDXRF
			FE	3.1	%	LCS	26-FEB-98		EDXRF
			PB	6800	PPM	LCS	26-FEB-98		EDXRF
			PH	6.5	pH	EBK	23-FEB-98		9040
			SE	88	PPM	LCS	26-FEB-98		EDXRF
			ZN	3400	PPM	LCS	26-FEB-98		EDXRF
L980356-38	28-OCT-97	SSIA4-8C	AS	220	PPM	LCS	26-FEB-98		EDXRF
			CD	44	PPM	LCS	26-FEB-98		EDXRF
			CR	120	PPM	LCS	26-FEB-98		EDXRF
			CU	950	PPM	LCS	26-FEB-98		EDXRF
			FE	2.2	%	LCS	26-FEB-98		EDXRF
			PB	960	PPM	LCS	26-FEB-98		EDXRF
			PH	8.1	pH	EBK	23-FEB-98		9040
			SE	12	PPM	LCS	26-FEB-98		EDXRF
			ZN	570	PPM	LCS	26-FEB-98		EDXRF
L980356-39	28-OCT-97	SSIA4-8D	AS	200	PPM	LCS	26-FEB-98		EDXRF
			CD	30	PPM	LCS	26-FEB-98		EDXRF
			CR	180	PPM	LCS	26-FEB-98		EDXRF
			CU	810	PPM	LCS	26-FEB-98		EDXRF
			FE	2.1	%	LCS	26-FEB-98		EDXRF
			PB	730	PPM	LCS	26-FEB-98		EDXRF
			PH	8.2	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	340	PPM	LCS	26-FEB-98		EDXRF
L980356-40	28-OCT-97	SSIA4-9C	AS	920	PPM	LCS	26-FEB-98		EDXRF
			CD	300	PPM	LCS	26-FEB-98		EDXRF
			CR	230	PPM	LCS	26-FEB-98		EDXRF
			CU	1000	PPM	LCS	26-FEB-98		EDXRF
			FE	2.3	%	LCS	26-FEB-98		EDXRF
			PB	1100	PPM	LCS	26-FEB-98		EDXRF
			PH	7.1	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	670	PPM	LCS	26-FEB-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-41	28-OCT-97	SSIA4-9D	AS	330	PPM	LCS	26-FEB-98		EDXRF
			CD	48	PPM	LCS	26-FEB-98		EDXRF
			CR	170	PPM	LCS	26-FEB-98		EDXRF
			CU	460	PPM	LCS	26-FEB-98		EDXRF
			FE	2.1	%	LCS	26-FEB-98		EDXRF
			PB	430	PPM	LCS	26-FEB-98		EDXRF
			PH	7.9	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	270	PPM	LCS	26-FEB-98		EDXRF
L980356-42	28-OCT-97	SSIA4-10C	AS	380	PPM	LCS	26-FEB-98		EDXRF
			CD	68	PPM	LCS	26-FEB-98		EDXRF
			CR	82	PPM	LCS	26-FEB-98		EDXRF
			CU	1300	PPM	LCS	26-FEB-98		EDXRF
			FE	2.2	%	LCS	26-FEB-98		EDXRF
			PB	1200	PPM	LCS	26-FEB-98		EDXRF
			PH	8.1	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	790	PPM	LCS	26-FEB-98		EDXRF
L980356-43	28-OCT-97	SSIA4-10D	AS	400	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	180	PPM	LCS	26-FEB-98		EDXRF
			CU	230	PPM	LCS	26-FEB-98		EDXRF
			FE	1.9	%	LCS	26-FEB-98		EDXRF
			PB	190	PPM	LCS	26-FEB-98		EDXRF
			PH	8.1	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	130	PPM	LCS	26-FEB-98		EDXRF
L980356-44	28-OCT-97	SSIA4-11C	AS	95	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	230	PPM	LCS	26-FEB-98		EDXRF
			CU	130	PPM	LCS	26-FEB-98		EDXRF
			FE	1.6	%	LCS	26-FEB-98		EDXRF
			PB	130	PPM	LCS	26-FEB-98		EDXRF
			PH	8.6	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	70	PPM	LCS	26-FEB-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-45	28-OCT-97	SSIA4-11D	AS	35	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	170	PPM	LCS	26-FEB-98		EDXRF
			CU	65	PPM	LCS	26-FEB-98		EDXRF
			FE	1.6	%	LCS	26-FEB-98		EDXRF
			PB	72	PPM	LCS	26-FEB-98		EDXRF
			PH	8.7	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	51	PPM	LCS	26-FEB-98		EDXRF
L980356-46	28-OCT-97	SSIA4-12C	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	40	PPM	LCS	26-FEB-98		EDXRF
			CU	3500	PPM	LCS	26-FEB-98		EDXRF
			FE	26	%	LCS	26-FEB-98		EDXRF
			PB	2300	PPM	LCS	26-FEB-98		EDXRF
			PH	9.7	pH	EBK	23-FEB-98		9040
			SE	15	PPM	LCS	26-FEB-98		EDXRF
			ZN	13000	PPM	LCS	26-FEB-98		EDXRF
L980356-47	28-OCT-97	SSIA4-12D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	100	PPM	LCS	26-FEB-98		EDXRF
			CU	1100	PPM	LCS	26-FEB-98		EDXRF
			FE	13	%	LCS	26-FEB-98		EDXRF
			PB	3200	PPM	LCS	26-FEB-98		EDXRF
			PH	8.4	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	8400	PPM	LCS	26-FEB-98		EDXRF
L980356-48	28-OCT-97	SSIA4-13C	AS	78	PPM	LCS	26-FEB-98		EDXRF
			CD	170	PPM	LCS	26-FEB-98		EDXRF
			CR	220	PPM	LCS	26-FEB-98		EDXRF
			CU	1200	PPM	LCS	26-FEB-98		EDXRF
			FE	2.2	%	LCS	26-FEB-98		EDXRF
			PB	1000	PPM	LCS	26-FEB-98		EDXRF
			PH	8.1	pH	EBK	23-FEB-98		9040
			SE	11	PPM	LCS	26-FEB-98		EDXRF
			ZN	2500	PPM	LCS	26-FEB-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-49	28-OCT-97	SSIA4-14C	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	16	PPM	LCS	26-FEB-98		EDXRF
			CR	140	PPM	LCS	26-FEB-98		EDXRF
			CU	200	PPM	LCS	26-FEB-98		EDXRF
			FE	2.7	%	LCS	26-FEB-98		EDXRF
			PB	280	PPM	LCS	26-FEB-98		EDXRF
			PH	8.9	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	190	PPM	LCS	26-FEB-98		EDXRF
L980356-50	28-OCT-97	SSIA4-14D	AS	110	PPM	LCS	26-FEB-98		EDXRF
			CD	82	PPM	LCS	26-FEB-98		EDXRF
			CR	170	PPM	LCS	26-FEB-98		EDXRF
			CU	1300	PPM	LCS	26-FEB-98		EDXRF
			FE	2.7	%	LCS	26-FEB-98		EDXRF
			PB	1900	PPM	LCS	26-FEB-98		EDXRF
			PH	8.4	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	850	PPM	LCS	26-FEB-98		EDXRF
L980356-51	28-OCT-97	SSIA4-15C	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	13	PPM	LCS	26-FEB-98		EDXRF
			CR	130	PPM	LCS	26-FEB-98		EDXRF
			CU	630	PPM	LCS	26-FEB-98		EDXRF
			FE	2.7	%	LCS	26-FEB-98		EDXRF
			PB	540	PPM	LCS	26-FEB-98		EDXRF
			PH	8.8	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	680	PPM	LCS	26-FEB-98		EDXRF
L980356-52	28-OCT-97	SSIA4-15D	AS	74	PPM	LCS	26-FEB-98		EDXRF
			CD	23	PPM	LCS	26-FEB-98		EDXRF
			CR	200	PPM	LCS	26-FEB-98		EDXRF
			CU	1300	PPM	LCS	26-FEB-98		EDXRF
			FE	2.4	%	LCS	26-FEB-98		EDXRF
			PB	930	PPM	LCS	26-FEB-98		EDXRF
			PH	8.2	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	470	PPM	LCS	26-FEB-98		EDXRF

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L980356-53	30-OCT-97	SSIA4-16C	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	10	PPM	LCS	26-FEB-98		EDXRF
			CR	91	PPM	LCS	26-FEB-98		EDXRF
			CU	190	PPM	LCS	26-FEB-98		EDXRF
			FE	2.2	%	LCS	26-FEB-98		EDXRF
			PB	210	PPM	LCS	26-FEB-98		EDXRF
			PH	8.7	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	160	PPM	LCS	26-FEB-98		EDXRF
L980356-54	30-OCT-97	SSIA4-16D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	120	PPM	LCS	26-FEB-98		EDXRF
			CU	34	PPM	LCS	26-FEB-98		EDXRF
			FE	2.5	%	LCS	26-FEB-98		EDXRF
			PB	18	PPM	LCS	26-FEB-98		EDXRF
			PH	8.8	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	59	PPM	LCS	26-FEB-98		EDXRF
L980356-55	30-OCT-97	SSIA4-17C	AS	36	PPM	LCS	26-FEB-98		EDXRF
			CD	12	PPM	LCS	26-FEB-98		EDXRF
			CR	130	PPM	LCS	26-FEB-98		EDXRF
			CU	<20	PPM	LCS	26-FEB-98		EDXRF
			FE	2.2	%	LCS	26-FEB-98		EDXRF
			PB	27	PPM	LCS	26-FEB-98		EDXRF
			PH	8.0	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	53	PPM	LCS	26-FEB-98		EDXRF
L980356-56	30-OCT-97	SSIA4-17D	AS	97	PPM	LCS	26-FEB-98		EDXRF
			CD	23	PPM	LCS	26-FEB-98		EDXRF
			CR	172	PPM	LCS	26-FEB-98		EDXRF
			CU	1100	PPM	LCS	26-FEB-98		EDXRF
			FE	2.7	%	LCS	26-FEB-98		EDXRF
			PB	1000	PPM	LCS	26-FEB-98		EDXRF
			PH	8.7	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	710	PPM	LCS	26-FEB-98		EDXRF

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L980356-57	30-OCT-97	SSIA4-18C	AS	41	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	140	PPM	LCS	26-FEB-98		EDXRF
			CU	48	PPM	LCS	26-FEB-98		EDXRF
			FE	2.4	%	LCS	26-FEB-98		EDXRF
			PB	31	PPM	LCS	26-FEB-98		EDXRF
			PH	9.2	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	56	PPM	LCS	26-FEB-98		EDXRF
L980356-58	30-OCT-97	SSIA4-18D	AS	38	PPM	LCS	26-FEB-98		EDXRF
			CD	11	PPM	LCS	26-FEB-98		EDXRF
			CR	120	PPM	LCS	26-FEB-98		EDXRF
			CU	140	PPM	LCS	26-FEB-98		EDXRF
			FE	2.4	%	LCS	26-FEB-98		EDXRF
			PB	100	PPM	LCS	26-FEB-98		EDXRF
			PH	9.3	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	96	PPM	LCS	26-FEB-98		EDXRF
L980356-59	30-OCT-97	SSIA4-19C	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	110	PPM	LCS	26-FEB-98		EDXRF
			CU	49	PPM	LCS	26-FEB-98		EDXRF
			FE	2.5	%	LCS	26-FEB-98		EDXRF
			PB	23	PPM	LCS	26-FEB-98		EDXRF
			PH	8.9	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	69	PPM	LCS	26-FEB-98		EDXRF
L980356-60	30-OCT-97	SSIA4-19D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	130	PPM	LCS	26-FEB-98		EDXRF
			CU	320	PPM	LCS	26-FEB-98		EDXRF
			FE	2.4	%	LCS	26-FEB-98		EDXRF
			PB	230	PPM	LCS	26-FEB-98		EDXRF
			PH	8.9	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	220	PPM	LCS	26-FEB-98		EDXRF

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L980356-61	30-OCT-97	SSIA4-20C	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	43	PPM	LCS	26-FEB-98		EDXRF
			CU	<20	PPM	LCS	26-FEB-98		EDXRF
			FE	2.8	%	LCS	26-FEB-98		EDXRF
			PB	22	PPM	LCS	26-FEB-98		EDXRF
			PH	8.8	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	78	PPM	LCS	26-FEB-98		EDXRF
L980356-62	30-OCT-97	SSIA4-20D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	590	PPM	LCS	26-FEB-98		EDXRF
			FE	2.5	%	LCS	26-FEB-98		EDXRF
			PB	460	PPM	LCS	26-FEB-98		EDXRF
			PH	8.9	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	320	PPM	LCS	26-FEB-98		EDXRF
L980356-63	30-OCT-97	SSIA4-21C	AS	48	PPM	LCS	26-FEB-98		EDXRF
			CD	15	PPM	LCS	26-FEB-98		EDXRF
			CR	110	PPM	LCS	26-FEB-98		EDXRF
			CU	1200	PPM	LCS	26-FEB-98		EDXRF
			FE	2.7	%	LCS	26-FEB-98		EDXRF
			PB	1100	PPM	LCS	26-FEB-98		EDXRF
			PH	8.7	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	940	PPM	LCS	26-FEB-98		EDXRF
L980356-64	30-OCT-97	SSIA4-21D	AS	24	PPM	LCS	26-FEB-98		EDXRF
			CD	11	PPM	LCS	26-FEB-98		EDXRF
			CR	140	PPM	LCS	26-FEB-98		EDXRF
			CU	580	PPM	LCS	26-FEB-98		EDXRF
			FE	2.6	%	LCS	26-FEB-98		EDXRF
			PB	560	PPM	LCS	26-FEB-98		EDXRF
			PH	8.8	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	450	PPM	LCS	26-FEB-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-65	30-OCT-97	SSIA4-22C	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	74	PPM	LCS	26-FEB-98		EDXRF
			CU	38	PPM	LCS	26-FEB-98		EDXRF
			FE	2.2	%	LCS	26-FEB-98		EDXRF
			PB	21	PPM	LCS	26-FEB-98		EDXRF
			PH	8.7	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	52	PPM	LCS	26-FEB-98		EDXRF
L980356-66	30-OCT-97	SSIA4-22D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	87	PPM	LCS	26-FEB-98		EDXRF
			CU	220	PPM	LCS	26-FEB-98		EDXRF
			FE	2.4	%	LCS	26-FEB-98		EDXRF
			PB	210	PPM	LCS	26-FEB-98		EDXRF
			PH	8.7	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	120	PPM	LCS	26-FEB-98		EDXRF
L980356-67	30-OCT-97	SSIA4-23C	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	65	PPM	LCS	26-FEB-98		EDXRF
			CU	65	PPM	LCS	26-FEB-98		EDXRF
			FE	2.5	%	LCS	26-FEB-98		EDXRF
			PB	75	PPM	LCS	26-FEB-98		EDXRF
			PH	8.7	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	110	PPM	LCS	26-FEB-98		EDXRF
L980356-68	30-OCT-97	SSIA4-23D	AS	29	PPM	LCS	26-FEB-98		EDXRF
			CD	15	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	650	PPM	LCS	26-FEB-98		EDXRF
			FE	2.5	%	LCS	26-FEB-98		EDXRF
			PB	520	PPM	LCS	26-FEB-98		EDXRF
			PH	8.4	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	440	PPM	LCS	26-FEB-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-69	30-OCT-97	SSIA4-24C	AS	22	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	31	PPM	LCS	26-FEB-98		EDXRF
			CU	280	PPM	LCS	26-FEB-98		EDXRF
			FE	2.5	%	LCS	26-FEB-98		EDXRF
			PB	190	PPM	LCS	26-FEB-98		EDXRF
			PH	8.9	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	200	PPM	LCS	26-FEB-98		EDXRF
L980356-70	30-OCT-97	SSIA4-24D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	52	PPM	LCS	26-FEB-98		EDXRF
			CU	85	PPM	LCS	26-FEB-98		EDXRF
			FE	2.5	%	LCS	26-FEB-98		EDXRF
			PB	75	PPM	LCS	26-FEB-98		EDXRF
			PH	9.0	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	99	PPM	LCS	26-FEB-98		EDXRF
L980356-71	30-OCT-97	SSIA4-25C	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	78	PPM	LCS	26-FEB-98		EDXRF
			CU	330	PPM	LCS	26-FEB-98		EDXRF
			FE	3.0	%	LCS	26-FEB-98		EDXRF
			PB	200	PPM	LCS	26-FEB-98		EDXRF
			PH	9.1	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	220	PPM	LCS	26-FEB-98		EDXRF
L980356-72	30-OCT-97	SSIA4-25D	AS	120	PPM	LCS	26-FEB-98		EDXRF
			CD	13	PPM	LCS	26-FEB-98		EDXRF
			CR	38	PPM	LCS	26-FEB-98		EDXRF
			CU	540	PPM	LCS	26-FEB-98		EDXRF
			FE	2.4	%	LCS	26-FEB-98		EDXRF
			PB	620	PPM	LCS	26-FEB-98		EDXRF
			PH	8.2	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	230	PPM	LCS	26-FEB-98		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980356

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-73	30-OCT-97	SSIA4-26C	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	44	PPM	LCS	26-FEB-98		EDXRF
			CU	320	PPM	LCS	26-FEB-98		EDXRF
			FE	2.1	%	LCS	26-FEB-98		EDXRF
			PB	270	PPM	LCS	26-FEB-98		EDXRF
			PH	8.3	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	250	PPM	LCS	26-FEB-98		EDXRF
L980356-74	30-OCT-97	SSIA4-26D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	11	PPM	LCS	26-FEB-98		EDXRF
			CR	100	PPM	LCS	26-FEB-98		EDXRF
			CU	660	PPM	LCS	26-FEB-98		EDXRF
			FE	2.3	%	LCS	26-FEB-98		EDXRF
			PB	550	PPM	LCS	26-FEB-98		EDXRF
			PH	8.7	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	490	PPM	LCS	26-FEB-98		EDXRF
L980356-75	14-JUL-97	SSIA3-2C	AS	270	PPM	LCS	26-FEB-98		EDXRF
			CD	52	PPM	LCS	26-FEB-98		EDXRF
			CR	150	PPM	LCS	26-FEB-98		EDXRF
			CU	1400	PPM	LCS	26-FEB-98		EDXRF
			FE	4.7	%	LCS	26-FEB-98		EDXRF
			PB	1700	PPM	LCS	26-FEB-98		EDXRF
			PH	8.2	pH	EBK	23-FEB-98		9040
			SE	12	PPM	LCS	26-FEB-98		EDXRF
			ZN	7500	PPM	LCS	26-FEB-98		EDXRF

Approved

Reviewer

Q C FOR ELPASO SOILS L980356

CCV 30651-58

	PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
GIVEN		12	420		18	8062		27400
FOUND	351	14	367	1027	15	7639	11	28540
	480	4	370	1041	15	7586	12	28956
	464	19	283	1167	15	7465	22	28295
	462	14	328	1044	15	7406	9	28308
	462	29	418	1139	15	7543	19	28348
	527	17	278	996	15	7446	11	28689
	444	15	399	963	15	7567	39	28817

LCS BRS2704

GIVEN	23.4	3.45	135	98.6	4.4	161		438
FOUND	<20	<10	76	115	4.4	188	<10	477
	<20	<10	42	130	4.4	200	<10	476
	<20	<10	96	139	4.4	192	<10	492

LCS SO-1

GIVEN			160	61	6	21		146
FOUND	<20	<10	52	76	6.2	17	<10	134

DUPLICATES

	As	Cd	*Cr	Cu	Fe	[Pb	Se	Zn
L980356-20	99	49	<30	535	1.8	547	<10	902
DUP356-20	65	50	138	576	1.8	562	<10	890
%DIFF	41	2		7	0	3		1
L980356-40	925	303	235	996	2.3	1059	<10	666
DUP356-40	885	313	137	1026	2.4	1110	13	687
%DIFF	4	3	53	3	4	5		3
L980356-60	<20	<10	132	327	2.4	229	<10	217
DUP356-60	<20	<10	86	312	2.4	228	<10	188
%DIFF			42	5	0	0		14
L980356-75	271	51	146	1374	4.7	1738	12	7469
DUP356-75	266	54	105	967	4.4	1638	<10	7013
%DIFF	2	6	33	35	7	6		6

* The instrument excitation conditions are optimized for Pb and As resulting in decreased sensitivity for Cr. Because of this a high % relative difference is expected for Cr values less than 300ppm.

CCV 30651-58

	As	Cd	Cr	CU	Fe	Pb	Se	Zn
Given		12PPM	420PPM		18%	8062PPM		27400PPM
% Recov.								
		117	87		83	95		104
		33	88		83	94		106
		158	67		83	93		103
		117	78		83	92		103
		242	100		83	94		103
		142	66		83	92		105
		125	95		83	94		105

LCS BRS2704

GIVEN	23.4PPM	3.45PPM	135PPM	98.6PPM	4.40%	161PPM		438PPM
% RECOV			56	117	100	117		109
			31	132	100	124		109
			71	141	100	119		112

LCS SO-1

GIVEN			160PPM	61PPM	6%	21PPM		146PPM
% RECOV			33	125	103	81		92

CHAIN OF CUSTODY RECORD 2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734.	ASARCO - RI

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Totals Metals. See attached Sheet.	REMARKS
10-27-97	1040		X	SS1A4-1A	1									X	
	1445			SS1AA-1B											
	1505			SS1A4-1C											
	1530			SS1A4-1D											
	1545			SS1A4-2A											
	1545			SS1A4-2A2											
	1552			SS1A4-2B											
	1600			SS1A4-2C											
	1605			SS1A4-2D											
	1615			SS1A4-3A											
	1620			SS1A4-3B											
	1625			SS1A4-3C											
↓	1630			SS1A4-3D											
10-28-97	0808			SS1A4-4A											
10-28-97	0816		↓	SS1A4-4B	↓									↓	

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	10/31/97 1500				Other
					Air Bill #
Relinquished *(Signature)*	**Date/Time**	**Received by:** *(Signature)*	**Remarks**		
Relinquished *(Signature)*	**Date/Time**	**Received for Laboratory by:** *(Signature)*	**Date/Time** 11.3.97	9:00	

Enclosed: ☒ Parameter sheet w/detection limits
☐ QA/QC standard mixing instructions ☐ Cover letter
☐ Other

Split Samples:
[] Accepted [] Declined _____ Signature

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO-RI

SAMPLERS: *(Signature)*
Lairy Johnson

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Totals Metals-See Attached sheet	REMARKS
10-29-97	0821		✓	SS1A4-4C	1									X	
	0827			SS1A4-4D											
	0839			SS1A4-5A											
	0839			SS1A4-5A$_2$											
	0843			SS1A4-5B											
	0847			SS1A4-5C											
	0850			SS1A4-5D											

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Lairy Johnson	10/31/97 1500				Other
					Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits	
			11.2.97 9:00	☐ QA/QC standard mixing instructions ☐ Cover letter	
				☐ Other	
				Split Samples: [] Accepted [] Declined Signature	

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

CHAIN OF CUSTODY RECORD 2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO-R1

SAMPLERS: (Signature) Lairy Johnson

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER		NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Totals Metals - See Attac sheet							REMARKS
10-28-97	0905		X	SS1A4-6A	13	1									X							
10-28-97	0909			SS1A4-6B	14																	
	0915			SS1A4-6C																		
	0919			SS1A4-6D																		
	0938			SS1A4-7A	15																	
	0938			SS1A4-7A2	16																	
	0945			SS1A4-7B	17																	
	0948			SS1A4-7C																		
	0952			SS1A4-7D																		
				SS1A4-8A	18																	
	1007			SS1A4-8B	19																	
	1011			SS1A4-8C																		
	1015			SS1A4-8D																		
	1224			SS1A4-9A	20																	
	1228			SS1A4-9B	21																	

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UP
[signature]	1500 10/31/97				Other
					Air Bill #

Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks

Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
		[signature]	11-3-97 9:00

Enclosed: ☒ Parameter sheet w/detection limits
☐ QA/QC standard mixing instructions ☐ Cover letter
☐ Other

Split Samples:
[] Accepted [] Declined Signature

HFC[illegible]-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of pa[illegible]

CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO-R1

SAMPLERS: *(Signature)*
Lairy Johnson

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Totals Metals-See Attached Sheet	REMARKS
10-28-97	1232		X	SS1A4-9C	1									X	
	1237			SS1A4-9D											
	1248			SS1A4-10A	22										
	1248			SS1A4-10A2	23										
	1252			SS1A4-10B	24										
	1256			SS1A4-10C											
	1302			SS1A4-10D											

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	10-31-97 1500				Other
					Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time		
			11.3.97 9:00		

Enclosed: ☒ Parameter sheet w/detection limits
☐ QA/QC standard mixing instructions ☐ Cover letter
☐ Other

Split Samples:
[] Accepted [] Declined _____ Signature

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

HAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO-RI

SAMPLERS: *(Signature)*
Lairy Johnson

DATE	TIME	COMP	GRAB	SAMPLE NUMBER		NO. OF CONTAINERS	Comments F=/RAW	Nutrients F=/H_2SO_4	Diss. Metals F=/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Totals Metals - See Attached Sheet						REMARKS
10-28-97	1312		X	SS1A4-11A	25	1									X						
	1322			SS1A4-11B	26																
	1327			SS1A4-11C																	
	1332			SS1A4-11D																	
	1344			SS1A4-12A	27																
	1349			SS1A4-12B	28																
	1355			SS1A4-12C																	
	1357			SS1A4-12D																	
	1413			SS1A4-13A	29																
	1418			SS1A4-13B	30																
	1423			SS1A4-13C																	
	1456			SS1A4-13D																	
	1466			SS1A4-14A2																	
	1502			SS1A4-14B																	
↓	1507		↓	SS1A4-14C		↓															

Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other Air Bill #
	10-31-97 1500				
Relinquished (Signature)	**Date/Time**	**Received by: (Signature)**	**Remarks**		
Relinquished (Signature)	**Date/Time**	**Received for Laboratory by: (Signature)**	**Date/Time**	**Enclosed:** ☐ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			11-3-97 9:00		

Split Samples:
☐ Accepted ☐ Declined _____ Signature

HFORM-5

Return results & electronic copy to:
Computer Dept. at address at top of page

CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO-R1

SAMPLERS: (Signature) Lairy Johnson

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Totals Metals - See Attac Sheet							REMARKS
10-28-97	1514		X	SS1A4-14D	1									X							
↓	1530		↓	SS1A4-15A 34	↓									↓							
	1335			SS1A4-15B 35																	
	1539			SS1A4-15C																	
	1543			SS1A4-15D																	
	1553			SS1A4-16A 36																	

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other ___ Air Bill # ___
[signature]	10-31-97 1500				
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature) [signature]	Date/Time 11-3-97 9:00	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other ___	

Split Samples: [] Accepted [] Declined ___ Signature

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO-RI

SAMPLERS: (Signature)
Lairy Johnson

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Totals Metals-See Attached sheet								REMARKS
10/30/97	0800		X	SS1A4-16B	1									X								
	0808			SS1A4-16C																		
	0815			SS1A4-16D																		
	0840			SS1A4-17A																		
	0840			SS1A4-17A2																		
	0844			SS1A4-17B																		
	0848			SS1A4-17C																		
	0855			SS1A4-17D																		
	0907			SS1A4-18A																		
	0913			SS1A4-18B																		
	0922			SS1A4-18C																		
	0927			SS1A4-18D																		
	0937			SS1A4-19A																		
	0944			SS1A4-19B																		
	0950			SS1A4-19C																		

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	10-31-97 1500				Other
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		Air Bill #
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			11.3.97 9:00		

Split Samples:
[] Accepted [] Declined _____ Signature

HFORM-1 4/95

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CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO-RI

SAMPLERS: *(Signature)*
Lairy Johnson

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Totals Metals - See Attached sheet							REMARKS
10-30-97	0956		X	SS1A4-19D	1									X							
	1003			SS1A4-20A																	
	1003			SS1A4-20A$_2$																	
	1011			SS1A4-20B																	
	1017			SS1A4-20C																	
↓	1023		↓	SS1A4-20D	↓									↓							

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	10-31-97 1500				Other
					Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time		
			11-3-97	9:00	

Enclosed: ☒ Parameter sheet w/detection limits
☐ QA/QC standard mixing instructions ☐ Cover letter
☐ Other

Split Samples:
[] Accepted [] Declined _____ Signature

HFORM-1-4/95

Return results & electronic copy to:
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CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO-RI

SAMPLERS: *(Signature)*
Lairy Johnson

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Totals Metals - see Attachment sheet	REMARKS
10-30-97	1031		X	SS1A4-21A	1									X	
	1035			SS1A4-21B											
	1039			SS1A4-21C											
	1042			SS1A4-21D											
	1048			SS1A4-22A											
	1054			SS1A4-22B											
	1054			SS1A4-22C											
	1106			SS1A4-22D											
	1122			SS1A4-23A$_2$											
	1128			SS1A4-23B											
	1134			SS1A4-23C											
	1136			SS1A4-23D											
	1145			SS1A4-24A											
	1151			SS1A4-24B											
↓	1213		↓	SS1A4-24C	↓									↓	

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	10-31-97 1500				Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			11-3-97 9:00	Split Samples: ‖ Accepted ‖ Declined	Signature

HFOR 4/95

Return results & electronic copy to:
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CHAIN OF C ODY RECORD

Hydrometrics, Inc.
2727 Airport Road • Helena, Montana 01 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO-RI

SAMPLERS: *(Signature)* Lairy Johnson

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Totals Metals - See Attachm sheet							REMARKS
10-31-97	1217		X	SS1A4-24D	1									X							
↓	1229		↓	SS1A4-25A	↓									↓							
	1233			SS1A4-25B																	
	1237			SS1A4-25C																	
	1242			SS1A4-25D																	

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other ___ Air Bill # ___
[signature]	10-31-97 1500				
Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)* [signature]	Date/Time 11-3-97 9:00	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other ___	

Split Samples: [] Accepted [] Declined ___ Signature

HFORM-1-4/95

Return results & electronic copy to:
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CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO-R1

SAMPLERS: *(Signature)*
Lairy Johnson

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Total Metals - See Attached Sheet	REMARKS
10-30-97	1248		X	SS1A4-26A	1									X	
	1248			SS1A4-26A$_2$											
	1255			SS1A4-26B											
	1308			SS1A4-26C											
	1312			SS1A4-26D											
	1323			SS1A4-27A											
	1330			SS1A4-27B											
	1343			SS1A4-28A											
	1347			SS1A4-28B											
	1403			SS1A4-29A											
	1403			SS1A4-29A$_2$											
	1412			SS1A4-29B											
	1421			SS1A4-30A											
↓	1426		↓	SS1A4-30B	↓									↓	

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	10-31-97 1500				Other
					Air Bill #
Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time		
			11-3-97 9:00		

Enclosed: ☒ Parameter sheet w/detection limits
☐ QA/QC standard mixing instructions ☐ Cover letter
☐ Other

Split Samples:
[] Accepted [] Declined _____ Signature

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 5[illegible] • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - EL PASO

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF As, Cd, Cr, Cu, Fe Pb, Se, Zn, pH							REMARKS
7-15-97	1041		X	SS1A3-10C	1									X							
7-15-97	1044		↓	SS1A3-10D	1									X							

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7-17-97 1700				Other_____
					Air Bill #_____
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time		

Enclosed: ☑ Parameter sheet w/detection limits
☐ QA/QC standard mixing instructions ☐ Cover letter
☐ Other_____

Split Samples:
[] Accepted [] Declined _____ Signature

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - El Paso

SAMPLERS: (Signature) [signature]

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF As, Cd, Cr, Cu, Fe, Pb, Se, Zn, PH							REMARKS
7-15-97	[illegible]		X	SS1A3-7A	1									X							
7-15-97	0855			SS1A3-7B																	
7-15-97	0900			SS1A3-7C																	
7-15-97	0903			SS1A3-7D																	
7-15-97	0956			SS1A3-8A																	
7-15-97	1002			SS1A3-8B																	
7-15-97	1005			SS1A3-8C																	
7-15-97	1012			SS1A3-8D																	
7-15-97	1017			SS1A3-9A																	
7-15-97	0922			SS1A3-9B																	
7-15-97	[illegible]			SS1A3-9C																	
7-15-97	0935			SS1A3-9D																	
7-15-97	1035			SS1A3-10A																	
7-15-97	1035			SS1A3-10A2																	
7-15-97	1034			SS1A3-10B																	

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other ___ Air Bill # ___
[signature]	7-17-97 1700				
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time		

Enclosed: ☒ Parameter sheet w/detection limits
☐ QA/QC standard mixing instructions ☐ Cover letter
☐ Other ___

Split Samples:
[] Accepted [] Declined ___ Signature

HFORM [illegible]/95

Return results & electronic copy to:
Computer Dept. at address at top of page

CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59[illegible] (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - EL PASO

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF As, Cd, Cr, Cu, Fe, Pb, Se, Zn, pH	REMARKS
[illegible]	[illegible]		X	SS1A3-3A	1									X	
7-[illegible]	[illegible]			SS1A3-3B											
[illegible]	[illegible]			SS1A3-3C											
[illegible]	[illegible]			SS1A3-3D											
[illegible]	[illegible]			SS1A3-4A											
[illegible]	[illegible]			SS1A3-4B											
[illegible]	[illegible]			SS1A3-5A											
[illegible]	[illegible]			SS1A3-5A2											
[illegible]	[illegible]			SS1A3-5B											
[illegible]	[illegible]			SS1A3-6A											
[illegible]	[illegible]			SS1A3-6B											
[illegible]	[illegible]			SS1A3-6C											
[illegible]	[illegible]			SS1A3-6D											

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
[signature]	7-17-97 1700				Other
					Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
[signature]					
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time		

Enclosed: ☑ Parameter sheet w/detection limits
☐ QA/QC standard mixing instructions ☐ Cover letter
☐ Other

Split Samples:
[] Accepted [] Declined
Signature

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - El Paso

SAMPLERS: (Signature) [signature]

DATE	TIME	COMP	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF As, Cd, Cr, Cu, Fe, Pb, Se, Zn, PH							REMARKS
7-15-97	1455		X	SS1A1-5A1	1									X							
7-15-97	1455			SS1A1-5B2																	
7-15-97	[illegible]			SS1A1-5B																	
7-15-97	[illegible]			SS1A1-5C																	
7-15-97	1511			SS1A1-5D																	
7-14-97	1137			SS1A2-1A																	
7-14-97	1140			SS1A2-1B																	
7-14-97	1325			SS1A2-2A																	
7-14-97	1325			SS1A2-2A2																	
7-14-97	1340			SS1A2-2C																	
7-14-97	1350			SS1A3-1A																	
7-14-97	1355			SS1A3-1B																	
7-14-97	1430			SS1A3-2A																	
7-14-97	1435			SS1A3-2B																	
7-14-97	1440			SS1A3-2C																	

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other ___ Air Bill # ___
[signature]	7-17-97 1700				
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time		Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other ___
		[signature]	7-21-97 10:00 (7-18-97)		Split Samples: [] Accepted [] Declined ___ Signature

HFORM-[illegible]95

Return results & electronic copy to:
Computer Dept. at address at top of page

CHAIN OF [illegible]ODY RECORD

Hydrometrics, Inc.
☐3275 W. Ina Rd., Ste. 205 • Tucson, AZ 857[illegible] (520) 544-3150
☐P.O. Box 220182 • El Paso, TX 79913 • (915) [illegible]2-3489

PROJ. NO.	PROJECT NAME
0734	ASARCO - El Paso

SAMPLERS: *(Signature)* [signature]

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF As, Cd, Cr, Cu, Fe, Pb, Zn, Ph							REMARKS
[illegible]	[illegible]		↓	1A1-4D	1 X									X							

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	PO #	Shipped via: Bus, Fed Ex, UPS Other ____ Air Bill # ____
[signature]	7-17-97 1700				
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)* [signature]	Date/Time 7-21-97 10:00 (7-18-97)	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other ____	

Split Samples
[] Accepted [] Declined ____ Signature

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

CHAIN OF CUSTODY RECORD

☐3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150
☒P.O. Box 220182 • El Paso, TX 79913 • (915) 532-3489

PROJ. NO.	PROJECT NAME
0734	ASARCO - EL PASO

SAMPLERS: *(Signature)*

DATE	TIME	COMP	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF As, Cd, Cr, Cu, Fe Pb, Mn, Zn, pH	REMARKS
7-17-97	1[illegible]			SS1A1-1A	1									X	
7-17-97	1345			SS1A1-1B											
7-17-97	1[illegible]50			SS1A1-1C											
7-17-97	1[illegible]53			SS1A1-1D											
7-17-97	1412			SS1A1-2A											
7-17-97	1415			SS1A1-2B											
7-17-97	1[illegible]1			SS1A1-2C											
7-17-97	1521			SS1A1-2D											
7-17-97	1552			SS1A1-3A											
7-17-97	1556			SS1A1-3B											
7-17-97	1[illegible]06			SS1A1-3C											
7-17-97	1[illegible]10			SS1A1-3D											
7-17-97	1[illegible]24			SS1A1-4A											
7-17-97	1[illegible]28			SS1A1-4B											
7-17-97	1[illegible]33			SS1A1-4C											

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7-17-97 | 1700				Other_____
					Air Bill #_____
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other_____	
			7.21.97 | 10:00		

Split Samples:
[] Accepted [] Declined _____ Signature

(7.18.97)

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

ASARCO

March 3, 1998

Mr. Lairy Johnson
Hydrometrics Inc.
El Paso

Please find attached the X-ray results for you El Paso soil samples (C and D) collected from July 8th of 97 to July 18th of 97. Also attached are the QC results for this set.

If you have any questions pertaining to the data, please feel free to call.

RECEIVED
MAR 09 1998
HYDROMETRICS, INC.

Lee Stone
Senior Analytical
Chemist

cc: GRStanga (w\attach)
JVanek "

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980374

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980374-1	14-JUL-97	SSIH5-15C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	150	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	2.0	%	LCS	02-MAR-98		EDXRF
			PB	13	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	48	PPM	LCS	02-MAR-98		EDXRF
L980374-2	14-JUL-97	SSIH5-15D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	120	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	2.0	%	LCS	02-MAR-98		EDXRF
			PB	22	PPM	LCS	02-MAR-98		EDXRF
			PH	9.0	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	47	PPM	LCS	02-MAR-98		EDXRF
L980374-3	14-JUL-97	SSIA5-16C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	21	PPM	LCS	02-MAR-98		EDXRF
			FE	2.0	%	LCS	02-MAR-98		EDXRF
			PB	11	PPM	LCS	02-MAR-98		EDXRF
			PH	8.7	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	48	PPM	LCS	02-MAR-98		EDXRF
L980374-4	14-JUL-97	SSIA5-16D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	46	PPM	LCS	02-MAR-98		EDXRF
			CU	23	PPM	LCS	02-MAR-98		EDXRF
			FE	2.3	%	LCS	02-MAR-98		EDXRF
			PB	18	PPM	LCS	02-MAR-98		EDXRF
			PH	8.2	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	81	PPM	LCS	02-MAR-98		EDXRF

ASARCO TECHN. _ SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980374

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980374-5	14-JUL-97	SSIA5-17C	AS	24	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	80	PPM	LCS	02-MAR-98		EDXRF
			CU	57	PPM	LCS	02-MAR-98		EDXRF
			FE	1.7	%	LCS	02-MAR-98		EDXRF
			PB	63	PPM	LCS	02-MAR-98		EDXRF
			PH	8.1	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	90	PPM	LCS	02-MAR-98		EDXRF
L980374-6	14-JUL-97	SSIA5-17D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	140	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	24	PPM	LCS	02-MAR-98		EDXRF
			PH	8.3	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	50	PPM	LCS	02-MAR-98		EDXRF
L980374-7	14-JUL-97	SSIA5-18C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	160	PPM	LCS	02-MAR-98		EDXRF
			CU	21	PPM	LCS	02-MAR-98		EDXRF
			FE	1.7	%	LCS	02-MAR-98		EDXRF
			PB	32	PPM	LCS	02-MAR-98		EDXRF
			PH	8.7	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	41	PPM	LCS	02-MAR-98		EDXRF
L980374-8	14-JUL-97	SSIA5-18D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	26	PPM	LCS	02-MAR-98		EDXRF
			PH	9.5	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	44	PPM	LCS	02-MAR-98		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980374

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980374-9	14-JUL-97	SSIA8-4C	AS	6600	PPM	LCS	02-MAR-98		EDXRF
			CD	1000	PPM	LCS	02-MAR-98		EDXRF
			CR	79	PPM	LCS	02-MAR-98		EDXRF
			CU	39000	PPM	LCS	02-MAR-98		EDXRF
			FE	5.6	%	LCS	02-MAR-98		EDXRF
			PB	71000	PPM	LCS	02-MAR-98		EDXRF
			PH	6.9	pH	EBK	25-FEB-98		9040
			SE	68	PPM	LCS	02-MAR-98		EDXRF
			ZN	26000	PPM	LCS	02-MAR-98		EDXRF
L980374-10	14-JUL-97	SSIA8-4D	AS	3100	PPM	LCS	02-MAR-98		EDXRF
			CD	530	PPM	LCS	02-MAR-98		EDXRF
			CR	140	PPM	LCS	02-MAR-98		EDXRF
			CU	13000	PPM	LCS	02-MAR-98		EDXRF
			FE	4.4	%	LCS	02-MAR-98		EDXRF
			PB	22000	PPM	LCS	02-MAR-98		EDXRF
			PH	7.3	pH	EBK	25-FEB-98		9040
			SE	23	PPM	LCS	02-MAR-98		EDXRF
			ZN	11000	PPM	LCS	02-MAR-98		EDXRF
L980374-11	16-JUL-97	SSIA8-5C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	28	PPM	LCS	02-MAR-98		EDXRF
			CR	150	PPM	LCS	02-MAR-98		EDXRF
			CU	1100	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	440	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	770	PPM	LCS	02-MAR-98		EDXRF
L980374-12	16-JUL-97	SSIA8-5D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	120	PPM	LCS	02-MAR-98		EDXRF
			CU	170	PPM	LCS	02-MAR-98		EDXRF
			FE	1.6	%	LCS	02-MAR-98		EDXRF
			PB	50	PPM	LCS	02-MAR-98		EDXRF
			PH	8.5	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	250	PPM	LCS	02-MAR-98		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980374

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980374-13	16-JUL-97	SSIA8-6C	AS	58	PPM	LCS	02-MAR-98		EDXRF
			CD	130	PPM	LCS	02-MAR-98		EDXRF
			CR	97	PPM	LCS	02-MAR-98		EDXRF
			CU	530	PPM	LCS	02-MAR-98		EDXRF
			FE	2.0	%	LCS	02-MAR-98		EDXRF
			PB	1700	PPM	LCS	02-MAR-98		EDXRF
			PH	8.3	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	1100	PPM	LCS	02-MAR-98		EDXRF
L980374-14	16-JUL-97	SSIA8-6D	AS	120	PPM	LCS	02-MAR-98		EDXRF
			CD	110	PPM	LCS	02-MAR-98		EDXRF
			CR	100	PPM	LCS	02-MAR-98		EDXRF
			CU	2600	PPM	LCS	02-MAR-98		EDXRF
			FE	2.2	%	LCS	02-MAR-98		EDXRF
			PB	2400	PPM	LCS	02-MAR-98		EDXRF
			PH	9.3	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	1300	PPM	LCS	02-MAR-98		EDXRF
L980374-15	16-JUL-97	SSIA8-7C	AS	31	PPM	LCS	02-MAR-98		EDXRF
			CD	41	PPM	LCS	02-MAR-98		EDXRF
			CR	200	PPM	LCS	02-MAR-98		EDXRF
			CU	380	PPM	LCS	02-MAR-98		EDXRF
			FE	1.5	%	LCS	02-MAR-98		EDXRF
			PB	500	PPM	LCS	02-MAR-98		EDXRF
			PH	8.3	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	330	PPM	LCS	02-MAR-98		EDXRF
L980374-16	16-JUL-97	SSIA8-7D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	250	PPM	LCS	02-MAR-98		EDXRF
			CU	23	PPM	LCS	02-MAR-98		EDXRF
			FE	2.5	%	LCS	02-MAR-98		EDXRF
			PB	42	PPM	LCS	02-MAR-98		EDXRF
			PH	8.8	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	54	PPM	LCS	02-MAR-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980374-17	16-JUL-97	SSIA8-8C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	140	PPM	LCS	02-MAR-98		EDXRF
			CU	340	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	330	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	260	PPM	LCS	02-MAR-98		EDXRF
L980374-18	16-JUL-97	SSIA8-8D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	92	PPM	LCS	02-MAR-98		EDXRF
			CU	240	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	920	PPM	LCS	02-MAR-98		EDXRF
			PH	8.5	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	210	PPM	LCS	02-MAR-98		EDXRF
L980374-19	16-JUL-97	SSIA8-9C	AS	180	PPM	LCS	02-MAR-98		EDXRF
			CD	76	PPM	LCS	02-MAR-98		EDXRF
			CR	75	PPM	LCS	02-MAR-98		EDXRF
			CU	3800	PPM	LCS	02-MAR-98		EDXRF
			FE	2.9	%	LCS	02-MAR-98		EDXRF
			PB	4600	PPM	LCS	02-MAR-98		EDXRF
			PH	7.8	pH	EBK	25-FEB-98		9040
			SE	12	PPM	LCS	02-MAR-98		EDXRF
			ZN	1600	PPM	LCS	02-MAR-98		EDXRF
L980374-20	16-JUL-97	SSIA8-9D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	19	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	840	PPM	LCS	02-MAR-98		EDXRF
			FE	2.1	%	LCS	02-MAR-98		EDXRF
			PB	1300	PPM	LCS	02-MAR-98		EDXRF
			PH	8.0	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	470	PPM	LCS	02-MAR-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980374-21	17-JUL-97	SSENT1-C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	110	PPM	LCS	02-MAR-98		EDXRF
			CU	69	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	160	PPM	LCS	02-MAR-98		EDXRF
			PH	8.7	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	70	PPM	LCS	02-MAR-98		EDXRF
L980374-22	17-JUL-97	SSENT1-D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	96	PPM	LCS	02-MAR-98		EDXRF
			CU	65	PPM	LCS	02-MAR-98		EDXRF
			FE	2.3	%	LCS	02-MAR-98		EDXRF
			PB	94	PPM	LCS	02-MAR-98		EDXRF
			PH	8.8	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	88	PPM	LCS	02-MAR-98		EDXRF
L980374-23	17-JUL-97	SSENT2-C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	430	PPM	LCS	02-MAR-98		EDXRF
			FE	2.3	%	LCS	02-MAR-98		EDXRF
			PB	430	PPM	LCS	02-MAR-98		EDXRF
			PH	8.7	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	250	PPM	LCS	02-MAR-98		EDXRF
L980374-24	17-JUL-97	SSENT2-D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	31	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	2.3	%	LCS	02-MAR-98		EDXRF
			PB	26	PPM	LCS	02-MAR-98		EDXRF
			PH	8.8	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	47	PPM	LCS	02-MAR-98		EDXRF

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L980374-25	17-JUL-97	SSENT6-C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	95	PPM	LCS	02-MAR-98		EDXRF
			CU	340	PPM	LCS	02-MAR-98		EDXRF
			FE	2.1	%	LCS	02-MAR-98		EDXRF
			PB	610	PPM	LCS	02-MAR-98		EDXRF
			PH	8.7	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	380	PPM	LCS	02-MAR-98		EDXRF
L980374-26	17-JUL-97	SSENT6-D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	60	PPM	LCS	02-MAR-98		EDXRF
			CU	49	PPM	LCS	02-MAR-98		EDXRF
			FE	2.4	%	LCS	02-MAR-98		EDXRF
			PB	38	PPM	LCS	02-MAR-98		EDXRF
			PH	7.5	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	66	PPM	LCS	02-MAR-98		EDXRF
L980374-27	14-JUL-97	SSENT7-C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	110	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	2.4	%	LCS	02-MAR-98		EDXRF
			PB	25	PPM	LCS	02-MAR-98		EDXRF
			PH	8.9	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	51	PPM	LCS	02-MAR-98		EDXRF
L980374-28	08-JUL-97	SSIA5-1C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	110	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	2.1	%	LCS	02-MAR-98		EDXRF
			PB	21	PPM	LCS	02-MAR-98		EDXRF
			PH	9.1	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	43	PPM	LCS	02-MAR-98		EDXRF

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L980374-29	08-JUL-97	SSIA5-1D							
			AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	99	PPM	LCS	02-MAR-98		EDXRF
			CU	34	PPM	LCS	02-MAR-98		EDXRF
			FE	2.1	%	LCS	02-MAR-98		EDXRF
			PB	58	PPM	LCS	02-MAR-98		EDXRF
			PH	9.0	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	63	PPM	LCS	02-MAR-98		EDXRF
L980374-30	08-JUL-97	SSIA5-2C							
			AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	85	PPM	LCS	02-MAR-98		EDXRF
			CU	81	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	95	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	77	PPM	LCS	02-MAR-98		EDXRF
L980374-31	08-JUL-97	SSIA5-2D							
			AS	27	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	160	PPM	LCS	02-MAR-98		EDXRF
			CU	71	PPM	LCS	02-MAR-98		EDXRF
			FE	2.1	%	LCS	02-MAR-98		EDXRF
			PB	82	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	55	PPM	LCS	02-MAR-98		EDXRF
L980374-32	08-JUL-97	SSIA5-3C							
			AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	52	PPM	LCS	02-MAR-98		EDXRF
			CU	570	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	410	PPM	LCS	02-MAR-98		EDXRF
			PH	8.2	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	300	PPM	LCS	02-MAR-98		EDXRF

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L980374-33	08-JUL-97	SSIA5-3D	AS	60	PPM	LCS	02-MAR-98		EDXRF
			CD	17	PPM	LCS	02-MAR-98		EDXRF
			CR	150	PPM	LCS	02-MAR-98		EDXRF
			CU	920	PPM	LCS	02-MAR-98		EDXRF
			FE	2.2	%	LCS	02-MAR-98		EDXRF
			PB	590	PPM	LCS	02-MAR-98		EDXRF
			PH	8.1	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	400	PPM	LCS	02-MAR-98		EDXRF
L980374-34	08-JUL-97	SSIA5-4C	AS	100	PPM	LCS	02-MAR-98		EDXRF
			CD	46	PPM	LCS	02-MAR-98		EDXRF
			CR	120	PPM	LCS	02-MAR-98		EDXRF
			CU	1900	PPM	LCS	02-MAR-98		EDXRF
			FE	2.4	%	LCS	02-MAR-98		EDXRF
			PB	2200	PPM	LCS	02-MAR-98		EDXRF
			PH	8.9	pH	EBK	25-FEB-98		9040
			SE	12	PPM	LCS	02-MAR-98		EDXRF
			ZN	1300	PPM	LCS	02-MAR-98		EDXRF
L980374-35	08-JUL-97	SSIA5-4D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	88	PPM	LCS	02-MAR-98		EDXRF
			CU	76	PPM	LCS	02-MAR-98		EDXRF
			FE	2.8	%	LCS	02-MAR-98		EDXRF
			PB	81	PPM	LCS	02-MAR-98		EDXRF
			PH	7.7	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	130	PPM	LCS	02-MAR-98		EDXRF
L980374-36	08-JUL-97	SSIA5-5C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	63	PPM	LCS	02-MAR-98		EDXRF
			CU	130	PPM	LCS	02-MAR-98		EDXRF
			FE	2.2	%	LCS	02-MAR-98		EDXRF
			PB	160	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	160	PPM	LCS	02-MAR-98		EDXRF

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L980374-37	08-JUL-97	SSIA5-5D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	66	PPM	LCS	02-MAR-98		EDXRF
			CU	56	PPM	LCS	02-MAR-98		EDXRF
			FE	2.9	%	LCS	02-MAR-98		EDXRF
			PB	63	PPM	LCS	02-MAR-98		EDXRF
			PH	8.1	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	110	PPM	LCS	02-MAR-98		EDXRF
L980374-38	08-JUL-97	SSIA5-6C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	13	PPM	LCS	02-MAR-98		EDXRF
			CR	74	PPM	LCS	02-MAR-98		EDXRF
			CU	370	PPM	LCS	02-MAR-98		EDXRF
			FE	2.0	%	LCS	02-MAR-98		EDXRF
			PB	430	PPM	LCS	02-MAR-98		EDXRF
			PH	8.1	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	290	PPM	LCS	02-MAR-98		EDXRF
L980374-39	08-JUL-97	SSIA5-6D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	15	PPM	LCS	02-MAR-98		EDXRF
			CR	71	PPM	LCS	02-MAR-98		EDXRF
			CU	460	PPM	LCS	02-MAR-98		EDXRF
			FE	2.1	%	LCS	02-MAR-98		EDXRF
			PB	500	PPM	LCS	02-MAR-98		EDXRF
			PH	8.1	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	290	PPM	LCS	02-MAR-98		EDXRF
L980374-40	08-JUL-97	SSIA5-7C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	27	PPM	LCS	02-MAR-98		EDXRF
			PH	7.7	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	29	PPM	LCS	02-MAR-98		EDXRF

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L980374-41	08-JUL-97	SSIA5-7D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	37	PPM	LCS	02-MAR-98		EDXRF
			CU	30	PPM	LCS	02-MAR-98		EDXRF
			FE	2.1	%	LCS	02-MAR-98		EDXRF
			PB	27	PPM	LCS	02-MAR-98		EDXRF
			PH	7.8	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	49	PPM	LCS	02-MAR-98		EDXRF
L980374-42	08-JUL-97	SSIA5-8C	AS	20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	3.1	%	LCS	02-MAR-98		EDXRF
			PB	32	PPM	LCS	02-MAR-98		EDXRF
			PH	8.5	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	86	PPM	LCS	02-MAR-98		EDXRF
L980374-43	08-JUL-97	SSIA5-8D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	42	PPM	LCS	02-MAR-98		EDXRF
			FE	3.0	%	LCS	02-MAR-98		EDXRF
			PB	25	PPM	LCS	02-MAR-98		EDXRF
			PH	9.0	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	92	PPM	LCS	02-MAR-98		EDXRF
L980374-44	08-JUL-97	SSIA5-9C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	58	PPM	LCS	02-MAR-98		EDXRF
			CU	80	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	46	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	29	PPM	LCS	02-MAR-98		EDXRF

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L980374-45	08-JUL-97	SSIA5-9D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	52	PPM	LCS	02-MAR-98		EDXRF
			CU	57	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	30	PPM	LCS	02-MAR-98		EDXRF
			PH	8.7	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	33	PPM	LCS	02-MAR-98		EDXRF
L980374-46	08-JUL-97	SSIA5-10C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	360	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	300	PPM	LCS	02-MAR-98		EDXRF
			PH	8.8	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	270	PPM	LCS	02-MAR-98		EDXRF
L980374-47	08-JUL-97	SSIA5-10D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	33	PPM	LCS	02-MAR-98		EDXRF
			CU	230	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	200	PPM	LCS	02-MAR-98		EDXRF
			PH	8.3	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	180	PPM	LCS	02-MAR-98		EDXRF
L980374-48	08-JUL-97	SSIA5-11C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	130	PPM	LCS	02-MAR-98		EDXRF
			CU	330	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	230	PPM	LCS	02-MAR-98		EDXRF
			PH	8.3	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	200	PPM	LCS	02-MAR-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980374-49	08-JUL-97	SSIA5-11D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	68	PPM	LCS	02-MAR-98		EDXRF
			CU	33	PPM	LCS	02-MAR-98		EDXRF
			FE	3.1	%	LCS	02-MAR-98		EDXRF
			PB	31	PPM	LCS	02-MAR-98		EDXRF
			PH	8.3	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	74	PPM	LCS	02-MAR-98		EDXRF
L980374-50	08-JUL-97	SSIA5-12C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	52	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	2.7	%	LCS	02-MAR-98		EDXRF
			PB	38	PPM	LCS	02-MAR-98		EDXRF
			PH	8.2	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	72	PPM	LCS	02-MAR-98		EDXRF
L980374-51	08-JUL-97	SSIA5-12D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	41	PPM	LCS	02-MAR-98		EDXRF
			CU	130	PPM	LCS	02-MAR-98		EDXRF
			FE	3.0	%	LCS	02-MAR-98		EDXRF
			PB	110	PPM	LCS	02-MAR-98		EDXRF
			PH	8.3	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	120	PPM	LCS	02-MAR-98		EDXRF
L980374-52	08-JUL-97	SSIA5-13C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	87	PPM	LCS	02-MAR-98		EDXRF
			CU	190	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	160	PPM	LCS	02-MAR-98		EDXRF
			PH	8.3	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	130	PPM	LCS	02-MAR-98		EDXRF

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L980374-53	08-JUL-97	SSIA5-13D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	42	PPM	LCS	02-MAR-98		EDXRF
			FE	2.1	%	LCS	02-MAR-98		EDXRF
			PB	35	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	61	PPM	LCS	02-MAR-98		EDXRF
L980374-54	08-JUL-97	SSIA5-14C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	56	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	1.7	%	LCS	02-MAR-98		EDXRF
			PB	12	PPM	LCS	02-MAR-98		EDXRF
			PH	8.7	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	28	PPM	LCS	02-MAR-98		EDXRF
L980374-55	08-JUL-97	SSIA5-14D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	190	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	11	PPM	LCS	02-MAR-98		EDXRF
			PH	8.7	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	38	PPM	LCS	02-MAR-98		EDXRF
L980374-56	17-JUL-97	SSIA8-10C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	25	PPM	LCS	02-MAR-98		EDXRF
			CR	79	PPM	LCS	02-MAR-98		EDXRF
			CU	520	PPM	LCS	02-MAR-98		EDXRF
			FE	1.6	%	LCS	02-MAR-98		EDXRF
			PB	810	PPM	LCS	02-MAR-98		EDXRF
			PH	8.5	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	620	PPM	LCS	02-MAR-98		EDXRF

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L980374-57	17-JUL-97	SSIA8-11C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	150	PPM	LCS	02-MAR-98		EDXRF
			CU	62	PPM	LCS	02-MAR-98		EDXRF
			FE	0.7	%	LCS	02-MAR-98		EDXRF
			PB	36	PPM	LCS	02-MAR-98		EDXRF
			PH	8.5	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	25	PPM	LCS	02-MAR-98		EDXRF
L980374-58	17-JUL-97	SSIA8-12C	AS	32	PPM	LCS	02-MAR-98		EDXRF
			CD	23	PPM	LCS	02-MAR-98		EDXRF
			CR	230	PPM	LCS	02-MAR-98		EDXRF
			CU	1500	PPM	LCS	02-MAR-98		EDXRF
			FE	1.6	%	LCS	02-MAR-98		EDXRF
			PB	1100	PPM	LCS	02-MAR-98		EDXRF
			PH	8.2	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	760	PPM	LCS	02-MAR-98		EDXRF
L980374-59	17-JUL-97	SSIA8-13C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	170	PPM	LCS	02-MAR-98		EDXRF
			CU	480	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	190	PPM	LCS	02-MAR-98		EDXRF
			PH	8.5	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	230	PPM	LCS	02-MAR-98		EDXRF
L980374-60	17-JUL-97	SSIA8-14C	AS	120	PPM	LCS	02-MAR-98		EDXRF
			CD	20	PPM	LCS	02-MAR-98		EDXRF
			CR	370	PPM	LCS	02-MAR-98		EDXRF
			CU	5800	PPM	LCS	02-MAR-98		EDXRF
			FE	18	%	LCS	02-MAR-98		EDXRF
			PB	2900	PPM	LCS	02-MAR-98		EDXRF
			PH	8.2	pH	EBK	25-FEB-98		9040
			SE	14	PPM	LCS	02-MAR-98		EDXRF
			ZN	25000	PPM	LCS	02-MAR-98		EDXRF

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L980374-61	18-JUL-97	SSIA8-15C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	92	PPM	LCS	02-MAR-98		EDXRF
			CU	210	PPM	LCS	02-MAR-98		EDXRF
			FE	1.3	%	LCS	02-MAR-98		EDXRF
			PB	100	PPM	LCS	02-MAR-98		EDXRF
			PH	8.7	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	200	PPM	LCS	02-MAR-98		EDXRF
L980374-62	18-JUL-97	SSIA8-16C	AS	1100	PPM	LCS	02-MAR-98		EDXRF
			CD	120	PPM	LCS	02-MAR-98		EDXRF
			CR	50	PPM	LCS	02-MAR-98		EDXRF
			CU	4400	PPM	LCS	02-MAR-98		EDXRF
			FE	4.0	%	LCS	02-MAR-98		EDXRF
			PB	3500	PPM	LCS	02-MAR-98		EDXRF
			PH	8.0	pH	EBK	25-FEB-98		9040
			SE	17	PPM	LCS	02-MAR-98		EDXRF
			ZN	3600	PPM	LCS	02-MAR-98		EDXRF
L980374-63	18-JUL-97	SSIA8-17C	AS	27	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	150	PPM	LCS	02-MAR-98		EDXRF
			CU	2100	PPM	LCS	02-MAR-98		EDXRF
			FE	2.0	%	LCS	02-MAR-98		EDXRF
			PB	520	PPM	LCS	02-MAR-98		EDXRF
			PH	8.6	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	730	PPM	LCS	02-MAR-98		EDXRF
L980374-64	18-JUL-97	SSIA8-19C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	160	PPM	LCS	02-MAR-98		EDXRF
			CU	430	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	290	PPM	LCS	02-MAR-98		EDXRF
			PH	8.9	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	410	PPM	LCS	02-MAR-98		EDXRF

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L980374-65	18-JUL-97	SSIA8-21C	AS	23	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	500	PPM	LCS	02-MAR-98		EDXRF
			FE	0.9	%	LCS	02-MAR-98		EDXRF
			PB	150	PPM	LCS	02-MAR-98		EDXRF
			PH	8.6	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	170	PPM	LCS	02-MAR-98		EDXRF
L980374-66	18-JUL-97	SSIA8-22C	AS	1800	PPM	LCS	02-MAR-98		EDXRF
			CD	260	PPM	LCS	02-MAR-98		EDXRF
			CR	89	PPM	LCS	02-MAR-98		EDXRF
			CU	610	PPM	LCS	02-MAR-98		EDXRF
			FE	2.2	%	LCS	02-MAR-98		EDXRF
			PB	350	PPM	LCS	02-MAR-98		EDXRF
			PH	7.2	pH	EBK	25-FEB-98		9040
			SE	15	PPM	LCS	02-MAR-98		EDXRF
			ZN	1600	PPM	LCS	02-MAR-98		EDXRF
L980374-67	18-JUL-97	SSIA8-23C	AS	29	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	30	PPM	LCS	02-MAR-98		EDXRF
			CU	410	PPM	LCS	02-MAR-98		EDXRF
			FE	1.4	%	LCS	02-MAR-98		EDXRF
			PB	370	PPM	LCS	02-MAR-98		EDXRF
			PH	8.7	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	370	PPM	LCS	02-MAR-98		EDXRF
L980374-68	18-JUL-97	SSIA8-27C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	130	PPM	LCS	02-MAR-98		EDXRF
			CU	540	PPM	LCS	02-MAR-98		EDXRF
			FE	1.3	%	LCS	02-MAR-98		EDXRF
			PB	170	PPM	LCS	02-MAR-98		EDXRF
			PH	8.9	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	95	PPM	LCS	02-MAR-98		EDXRF

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L980374-69	18-JUL-97	SSIA8-28C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	170	PPM	LCS	02-MAR-98		EDXRF
			CU	38	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	60	PPM	LCS	02-MAR-98		EDXRF
			PH	8.2	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	55	PPM	LCS	02-MAR-98		EDXRF
L980374-70	18-JUL-97	SSIA8-31C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	44	PPM	LCS	02-MAR-98		EDXRF
			CR	340	PPM	LCS	02-MAR-98		EDXRF
			CU	4400	PPM	LCS	02-MAR-98		EDXRF
			FE	26	%	LCS	02-MAR-98		EDXRF
			PB	7100	PPM	LCS	02-MAR-98		EDXRF
			PH	8.3	pH	EBK	25-FEB-98		9040
			SE	42	PPM	LCS	02-MAR-98		EDXRF
			ZN	12000	PPM	LCS	02-MAR-98		EDXRF
L980374-71	17-JUL-97	SSIA8-10D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	28	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	220	PPM	LCS	02-MAR-98		EDXRF
			FE	1.4	%	LCS	02-MAR-98		EDXRF
			PB	660	PPM	LCS	02-MAR-98		EDXRF
			PH	9.1	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	380	PPM	LCS	02-MAR-98		EDXRF
L980374-72	17-JUL-97	SSIA8-11D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	76	PPM	LCS	02-MAR-98		EDXRF
			CU	400	PPM	LCS	02-MAR-98		EDXRF
			FE	0.7	%	LCS	02-MAR-98		EDXRF
			PB	230	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	98	PPM	LCS	02-MAR-98		EDXRF

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L980374-73	17-JUL-97	SSIA8-12D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	200	PPM	LCS	02-MAR-98		EDXRF
			CU	31	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	38	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	12	PPM	LCS	02-MAR-98		EDXRF
L980374-74	17-JUL-97	SSIA8-13D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	45	PPM	LCS	02-MAR-98		EDXRF
			CR	120	PPM	LCS	02-MAR-98		EDXRF
			CU	130	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	98	PPM	LCS	02-MAR-98		EDXRF
			PH	8.6	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	180	PPM	LCS	02-MAR-98		EDXRF
L980374-75	18-JUL-97	SSIA8-15D	AS	83	PPM	LCS	02-MAR-98		EDXRF
			CD	92	PPM	LCS	02-MAR-98		EDXRF
			CR	160	PPM	LCS	02-MAR-98		EDXRF
			CU	14000	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	8900	PPM	LCS	02-MAR-98		EDXRF
			PH	7.9	pH	EBK	25-FEB-98		9040
			SE	72	PPM	LCS	02-MAR-98		EDXRF
			ZN	2200	PPM	LCS	02-MAR-98		EDXRF
L980374-76	18-JUL-97	SSIA8-16D	AS	1200	PPM	LCS	02-MAR-98		EDXRF
			CD	520	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	3100	PPM	LCS	02-MAR-98		EDXRF
			FE	5.2	%	LCS	02-MAR-98		EDXRF
			PB	5000	PPM	LCS	02-MAR-98		EDXRF
			PH	7.5	pH	EBK	25-FEB-98		9040
			SE	50	PPM	LCS	02-MAR-98		EDXRF
			ZN	3900	PPM	LCS	02-MAR-98		EDXRF

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L980374-77	18-JUL-97	SSIA8-17D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	11	PPM	LCS	02-MAR-98		EDXRF
			CR	74	PPM	LCS	02-MAR-98		EDXRF
			CU	260	PPM	LCS	02-MAR-98		EDXRF
			FE	1.3	%	LCS	02-MAR-98		EDXRF
			PB	240	PPM	LCS	02-MAR-98		EDXRF
			PH	8.7	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	170	PPM	LCS	02-MAR-98		EDXRF
L980374-78	18-JUL-97	SSIA8-19D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	220	PPM	LCS	02-MAR-98		EDXRF
			CR	41	PPM	LCS	02-MAR-98		EDXRF
			CU	11000	PPM	LCS	02-MAR-98		EDXRF
			FE	3.1	%	LCS	02-MAR-98		EDXRF
			PB	14000	PPM	LCS	02-MAR-98		EDXRF
			PH	7.6	pH	EBK	25-FEB-98		9040
			SE	14	PPM	LCS	02-MAR-98		EDXRF
			ZN	7200	PPM	LCS	02-MAR-98		EDXRF
L980374-79	18-JUL-97	SSIA8-21D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	14	PPM	LCS	02-MAR-98		EDXRF
			CR	45	PPM	LCS	02-MAR-98		EDXRF
			CU	310	PPM	LCS	02-MAR-98		EDXRF
			FE	1.1	%	LCS	02-MAR-98		EDXRF
			PB	480	PPM	LCS	02-MAR-98		EDXRF
			PH	8.5	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	220	PPM	LCS	02-MAR-98		EDXRF
L980374-80	18-JUL-97	SSIA8-22D	AS	160	PPM	LCS	02-MAR-98		EDXRF
			CD	42	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	1.4	%	LCS	02-MAR-98		EDXRF
			PB	13	PPM	LCS	02-MAR-98		EDXRF
			PH	7.8	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	160	PPM	LCS	02-MAR-98		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980374

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980374-81	18-JUL-97	SSIA8-23D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	78	PPM	LCS	02-MAR-98		EDXRF
			CU	68	PPM	LCS	02-MAR-98		EDXRF
			FE	1.6	%	LCS	02-MAR-98		EDXRF
			PB	50	PPM	LCS	02-MAR-98		EDXRF
			PH	9.1	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	64	PPM	LCS	02-MAR-98		EDXRF
L980374-82	18-JUL-97	SSIA8-28D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	89	PPM	LCS	02-MAR-98		EDXRF
			CU	31	PPM	LCS	02-MAR-98		EDXRF
			FE	1.3	%	LCS	02-MAR-98		EDXRF
			PB	27	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	20	PPM	LCS	02-MAR-98		EDXRF
L980374-83	16-JUL-97	SSIA8-1C	AS	800	PPM	LCS	02-MAR-98		EDXRF
			CD	99	PPM	LCS	02-MAR-98		EDXRF
			CR	200	PPM	LCS	02-MAR-98		EDXRF
			CU	3000	PPM	LCS	02-MAR-98		EDXRF
			FE	14	%	LCS	02-MAR-98		EDXRF
			PB	10000	PPM	LCS	02-MAR-98		EDXRF
			PH	8.1	pH	EBK	25-FEB-98		9040
			SE	40	PPM	LCS	02-MAR-98		EDXRF
			ZN	17000	PPM	LCS	02-MAR-98		EDXRF
L980374-84	16-JUL-97	SSIA8-2C	AS	880	PPM	LCS	02-MAR-98		EDXRF
			CD	38	PPM	LCS	02-MAR-98		EDXRF
			CR	290	PPM	LCS	02-MAR-98		EDXRF
			CU	1600	PPM	LCS	02-MAR-98		EDXRF
			FE	16	%	LCS	02-MAR-98		EDXRF
			PB	8900	PPM	LCS	02-MAR-98		EDXRF
			PH	8.8	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	24000	PPM	LCS	02-MAR-98		EDXRF

ASARCO TECHNI[illegible] SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980374

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980374-85	16-JUL-97	SSIA8-2D	AS	770	PPM	LCS	02-MAR-98		EDXRF
			CD	37	PPM	LCS	02-MAR-98		EDXRF
			CR	72	PPM	LCS	02-MAR-98		EDXRF
			CU	1500	PPM	LCS	02-MAR-98		EDXRF
			FE	17	%	LCS	02-MAR-98		EDXRF
			PB	10000	PPM	LCS	02-MAR-98		EDXRF
			PH	7.9	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	28000	PPM	LCS	02-MAR-98		EDXRF
L980374-86	16-JUL-97	SSIA8-3C	AS	1100	PPM	LCS	02-MAR-98		EDXRF
			CD	400	PPM	LCS	02-MAR-98		EDXRF
			CR	110	PPM	LCS	02-MAR-98		EDXRF
			CU	7000	PPM	LCS	02-MAR-98		EDXRF
			FE	2.9	%	LCS	02-MAR-98		EDXRF
			PB	6800	PPM	LCS	02-MAR-98		EDXRF
			PH	8.1	pH	EBK	25-FEB-98		9040
			SE	40	PPM	LCS	02-MAR-98		EDXRF
			ZN	4800	PPM	LCS	02-MAR-98		EDXRF
L980374-87	16-JUL-97	SSIA8-3D	AS	290	PPM	LCS	02-MAR-98		EDXRF
			CD	79	PPM	LCS	02-MAR-98		EDXRF
			CR	190	PPM	LCS	02-MAR-98		EDXRF
			CU	3700	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	4700	PPM	LCS	02-MAR-98		EDXRF
			PH	7.9	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	2200	PPM	LCS	02-MAR-98		EDXRF
L980374-88	14-JUL-97	SSIA5-19C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	13	PPM	LCS	02-MAR-98		EDXRF
			CR	68	PPM	LCS	02-MAR-98		EDXRF
			CU	230	PPM	LCS	02-MAR-98		EDXRF
			FE	2.6	%	LCS	02-MAR-98		EDXRF
			PB	860	PPM	LCS	02-MAR-98		EDXRF
			PH	8.1	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	1800	PPM	LCS	02-MAR-98		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980374

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980374-89	14-JUL-97	SS1A5-19D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	15	PPM	LCS	02-MAR-98		EDXRF
			CR	59	PPM	LCS	02-MAR-98		EDXRF
			CU	270	PPM	LCS	02-MAR-98		EDXRF
			FE	2.5	%	LCS	02-MAR-98		EDXRF
			PB	810	PPM	LCS	02-MAR-98		EDXRF
			PH	8.2	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	1500	PPM	LCS	02-MAR-98		EDXRF

Approved

Reviewer

Q C FOR ELPASO SOILS L980374

CCV 30651-58

	PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
GIVEN		12	420		18	8062		27400
FOUND	514	21	454	1057	15	7425	3	28718
	475	13	303	1016	15	7349	17	28434
	365	25	464	964	15	7552	38	28296
	491	21	227	894	15	7545	3	28653
	383	17	423	1018	15	7443	6	28208
	459	13	306	1056	15	7419	14	28295
	488	15	347	998	15	7400	5	28343
	409	19	467	1071	15	7487	4	28543
	414	16	377	955	15	7594	3	28812

LCS BRS2704

GIVEN	23.4	3.45	135	98.6	4.4	161		438
FOUND	<20	<10	21	104	4.4	209	<10	488
	<20	<10	56	105	4.4	217	<10	525

LCS SO-1

GIVEN			160	61	6	21		146
FOUND	<20	<10	51	111	6.2	19	<10	144
	<20	<10	221	74	6.2	17	<10	152
	<20	<10	138	66	6.3	16	<10	167

DUPLICATES

	As	Cd	*Cr	Cu	Fe	Pb	Se	Zn
L980374-20	17	19	<30	835	2.1	1331	<10	474
DUP374-20	11	16	100	782	2.0	1297	<10	451
%DIFF	43	17		7	5	3		5
L980374-40	<10	<10	<30	<20	1.9	27	<10	29
DUP374-40	<10	<10	31	<20	1.9	14	<10	45
%DIFF					0	63		43
L980374-60	121	20	370	5816	18	2862	15	24858
DUP374-60	126	27	349	5700	18	2790	18	24804
%DIFF	4	30	6	2	0	3	18	0
L980374-80	162	42	<30	16	1.4	13	<10	162
DUP374-80	147	46	82	23	1.3	16	<10	186
%DIFF	10	9		36	7	21		14
L980374-89	<10	15	59	266	2.5	809	<10	1507
DUP374-89	<10	8	<30	233	2.5	802	<10	1498
%DIFF		61		13	0	1		1

* The instrument conditions are optimized for Pb and As resulting in decreased sensitivity for Cr. Because of this a high % relative difference is expected for Cr values less than 300 ppm.

CCV 30651-58

	As	Cd	Cr	CU	Fe	Pb	Se	Zn
Given		12PPM	420PPM		18%	8062PPM		27400PPM
% Recov.		175	108		83	92		105
		108	72		83	91		104
		208	110		83	94		103
		175	54		83	94		105
		142	101		83	92		103
		108	73		83	92		103
		125	83		83	92		103
		158	111		83	93		104
		133	90		83	94		105

LCS BRS2704

GIVEN	23.4PPM	3.45PPM	135PPM	98.6PPM	4.40%	161PPM		438PPM
% RECOV			16	105	100	130		111
			41	106	100	135		120

LCS SO-1

GIVEN			160PPM	61PPM	6%	21PPM		146PPM
% RECOV			32	182	103	90		99
			138	121	103	81		104
			86	108	105	76		114

Hydrometrics, Inc.

Date	By	Checked By	Project No.	Page
2-18-98	LAJ		0734.502.100	2

INVESTIGATION AREA #5 (38)

SS1A5 - 1 C+D
SS1A5 - 2 C+D
SS1A5 - 3 C+D
SS1A5 - 4 C+D
SS1A5 - 5 C+D
SS1A5 - 6 C+D
SS1A5 - 7 C+D
SS1A5 - 8 C+D
SS1A5 - 9 C+D
SS1A5 - 10 C+D
SS1A5 - 11 C+D
SS1A5 - 12 C+D
SS1A5 - 13 C+D
SS1A5 - 14 C+D
SS1A5 - 15 C+D
SS1A5 - 16 C+D
SS1A5 - 17 C+D
SS1A5 - 18 C+D
SS1A5 - 19 C+D

INVESTIGATION AREA #8 (47)

SS1AB - 1 C
- 2 C+D
- 3 C+D
- 4 C+D
- 5 C+D
- 6 C+D
- 7 C+D
- 8 C+D
- 9 C+D
- 10 C+D only
- 11 C+D only
- 12 C+D only
- 13 C+D "
- 14 C+D "
- 15 C+D "
- 16 C+D "
- 17 C "
- 18 C+D - no SOLID
- 19 C+D only
- 20

(17D)* not list

SS1AB - 21 C+D only
- 22 C+D "
- 23 C+D "
- 24
- 25 C+D - no
- 26
- 27 C
- 28 C+D only
- 29
- 30
- 31 C (not list)

TOTAL C+D SAMPLES = 174. 167

we have 164

2-18-1998 - 5/PM

Hydrometrics, Inc.

Date	By	Checked By	Project No.	Page
2-18-98	LAJ		0734.502.100	1

PLANT ENTRANCE (7)

SSENT 6 - C + D
SSENT 7 C
SSENT 2 C + D
SSENT 1 C+D

we have 164

include
SS1H5-15C
15D

INVESTIGATION AREA #1 (10)

SS1A1 - 1A C+D
SS1A1 - 2 C+D
SS1A1 - 3 C+D
SS1A1 - 4 C+D
SS1A1 - 5 C+D

To: VINCE
FROM: LAIRY
801-~~264-1426~~
264-9838

INVESTIGATION AREA #2 (1)

SS1A2 - 2 C

INVESTIGATION AREA #3 (13)

SS1A3 - 2 C
SS1A3 - 3 C+D
SS1A3 - 6 C+D
SS1A3 - 7 C+D
SS1A3 - 8 C+D
SS1A3 - 9 C+D
SS1A3 - 10 C+D

INVESTIGATION AREA #4 (51)

SS1A4 - 1 C+D
SS1A4 - 2 C+D
SS1A4 - 3 C+D
SS1A4 - 4 C+D
SS1A4 - 5 C+D
SS1A4 - 6 C+D
SS1A4 - 7 C+D
SS1A4 - 8 C+D
SS1A4 - 9 C+D
SS1A4 - 10 C+D
SS1A4 - 11 C+D
SS1A4 - 12 C+D
SS1A4 - 13 C
SS1A4 - 14 C+D
SS1A4 - 15 C+D
SS1A4 - 16 C+D
SS1A4 - 17 C+D
SS1A4 - 18 C+D
SS1A4 - 19 C+D
SS1A4 - 20 C+D
SS1A4 - 21 C+D
SS1A4 - 22 C+D
SS1A4 - 23 C+D
SS1A4 - 24 C+D
SS1A4 - 25 C+D
SS1A4 - 26 C+D
SS1A4 - 28 [illegible]

Archive only

LAB NUMBER	SOURCE	TYPE	PREP	RAW
SS1A5 - 1C TO 14C	El Paso	Soil		X
1D TO 14D				
SS1A8 10C TO 17C, 19C				
21C TO 23C, 27C-28C				
31C	(associated with batch 1688)			
10D - 13D, 15D - 17D				
19D, 21D - 23D, 28D				

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.

2727 Airport Road • Helena, Montana 596[illegible] • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - El Paso

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	As, Cd, Cr, Cu, Fe, Pb, Se, Zn, pH						REMARKS
7-17-97	1023		X	SSENT 8-A_2	1									X						
7-17-97	1017		X	SSENT 8-B	1															

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7-17-97 1700				Other
					Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time		Enclosed: ☒ Parameter sheet w/detection limits
			7-21-97 10:00		☐ QA/QC standard mixing instructions ☐ Cover letter
					☐ Other

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

Split Samples:
[] Accepted [] Declined _____ Signature

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.
2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO EL PASO

SAMPLERS: *(Signature)* [signature]

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	As, Cd, Cr, Cu, Fe, Pb, Se, Zn, PH							REMARKS
7-17-97	1100		X	SSENT3-A										X							
7-17-97	1105			SSENT3-B																	
7-17-97	1035			SSENT4-A																	
7-17-97	1040			SSENT4-B																	
7-17-97	0935			SSENT5-A																	
7-17-97	0940			SSENT5-B																	
7-17-97	0940			SSENT5-B2																	
7-17-97	0905			SSENT6-A																	
7-17-97	0910			SSENT6-B																	
7-17-97	0915			SSENT6-C																	
7-17-97	0920			SSENT6-D																	
7-17-97	1005			SSENT7-A																	
7-17-97	1015			SSENT7-B																	
7-17-97	1017			SSENT7-C																	
7-17-97	1023			SSENT8-A																	

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other Air Bill #
[signature]	7-17-97 1700				
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time		Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other
		[signature]	7.21.97 10:00		

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

(7.18)

Split Samples:
[] Accepted [] Declined

CHAIN OF C[illegible]ODY RECORD

Hydrometrics, Inc.
2727 Airport Road • Helena, Montana 5[illegible] • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - EL PASO

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CON-TAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	4 XRF As, Cd, Cr, Cu, Fe, Pb, Sb, Zn, plt	REMARKS
7-17-97	1820		X	SENT 2-D	1										

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other Air Bill #
	7-17-97 1700				
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☐ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			7-21-97 10:10	Split Samples: [] Accepted [] Declined	

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

Signature

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
C734	ASARCO - El Paso

SAMPLERS: *(Signature)*

DATE	TIME	COMP	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF As, Cd, Cr, Cu, Fe, Pb, Se, Zn, pH	REMARKS
7-16-97	1350		X	SS1A8-8A	1									X	
7-16-97	1354			SS1A8-8B											
7-16-97	1356			SS1A8-8C											
7-16-97	1358			SS1A8-8D											
7-16-97	1442			SS1A8-9A											
7-16-97	1450			SS1A8-9B											
7-16-97	1453			SS1A8-9C											
7-16-97	1456			SS1A8-9D											
7-17-97	0810			SSENT-1A											
7-17-97	0815			SSENT1-B											
7-17-97	0850			SSENT1-C											
7-17-97	0855			SSENT1-D											
7-17-97	0805			SSENT2-A											
7-17-97	0810			SSENT2-B											
7-17-97	0815			SSENT2-C											

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7/17/97 1700				Other
					Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☐ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			7.21.97 1000		

HFORM-1-4

Return results & electronic copy to:
Computer Dept. at address at top of page

Split Samples:
[] Accepted [] Declined

Sig

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - El Paso

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	As, Cd, Cu, Fe, Pb, Se, Zn, pH	XRF	REMARKS
7-16-17	1323		X	SS1A8-7C	1									X		
7-16-17	1327		↓	SS1A8-7D	1									X		

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7-17-17 1700				Other
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		Air Bill #
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time		

Enclosed: ☒ ☐ Parameter sheet w/detection limits
☐ QA/QC standard mixing instructions ☐ Cover letter
☐ Other

Split Samples:
[] Accepted [] Declined _____ Signature

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.
2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - EL PASO

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF- As, Cd, Cr, Cu, Fe, Pb, Se, Zn, pH	REMARKS
7-14-97	0949		X	SS1A5-17D	1									X	
7-14-97	1055			SS1A5-18A											
7-14-97	1057			SS1A5-18B											
7-14-97	1059			SS1A5-18C											
7-14-97	1101			SS1A5-18D											
				SS1A5-19A											
				SS1A5-19B											

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7/17/97 1700				Other
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		Air Bill #
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits	
			7-21-97 10:00	☐ QA/QC standard mixing instructions ☐ Cover letter	
				☒ Other	

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CHAIN OF CUSTODY RECORD

Hydrometrics Inc.
2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - El Paso

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	As, Cd, Cr, Cu, Fe, Pb, Se, Zn, pH + TCLP	REMARKS
7-16-97	1150		X	SS1A8-4A	1									X	
7-16-97	1154			SS1A8-4B											
7-16-97	1158			SS1A8-4C											
7-16-97	1202			SS1A8-4D											
7-16-97	1129			SS1A8-5A											
7-16-97	1133			SS1A8-5B											
7-16-97	1136			SS1A8-5C											
7-16-97	1139			SS1A8-5D											
7-16-97	1235			SS1A8-6A											
7-16-97	1235			SS1A8-6A$_2$											
7-16-97	1239			SS1A8-6B											
7-16-97	1241			SS1A8-6C											
7-16-97				SS1A8-6D											
7-16-97	1314			SS1A8-7A											
7-16-97	1318			SS1A8-7B											

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7-17-97 1700				Other
Relinquished *(Signature)*	**Date/Time**	**Received by:** *(Signature)*	**Remarks**		Air Bill #
Relinquished *(Signature)*	**Date/Time**	**Received for Laboratory by:** *(Signature)*	**Date/Time**		

Enclosed: ☐ Parameter sheet w/detection limits
☐ QA/QC standard mixing instructions ☐ Cover letter
☐ Other

Split Samples:
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CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.
2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	~~EA~~ ASARCO # - EL PASO

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF - As, Ca, Cr, Cu, Fe, Pb, Se, Zn, pH	REMARKS
7-14-97	1100			SS1H5-15A	1									X	
7-14-97	1000			SS1H5-15A$_2$											
7-14-97	1010			SS1H5-15B											
7-14-97	1010			SS1H5-15B$_2$											
7-14-97	1012			SS1H5-15C											
7-14-97	1016			SS1H5-15D											
7-14-97	1025			SS1A5-16A											
7-14-97	1025			SS1A5-16A$_2$											
7-14-97	1030			SS1A5-16B											
7-14-97	1030			SS1A5-16B$_2$											
7-14-97	1033			SS1A5-16C											
7-14-97	1036			SS1A5-16D											
7-14-97	1140			SS1A5-17A											
7-14-97	1145			SS1A5-17B											
7-14-97	1147			SS1A5-17C											

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7-17-97 1700				Other
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		Air Bill #
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☑ Parameter sheet w/detection limits	
			7.21.97 10:00	☐ QA/QC standard mixing Instructions ☐ Cover letter	
				☐ Other	

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

Split Samples:
[] Accepted [] Declined

ASARCO

RECEIVED
APR 08 1998
HYDROMETRICS, INC.

March 25, 1998

Mr. Lairy Johnson
HYDROMETRICS INCORPORATED
P O Box 220182
El Paso TX 79913

Please find attached the analytical results for seventeen samples collected on 7/14/97 through 7/16/97 from the **ASARCO EL Paso Plant Site.**

The samples were digested using hydrofluoric acid digestion and results are reported on a dry weight basis.

The samples were received by the laboratory on 3/2/98.

Sincerely,

Milan Mraz
Chemist

MM/jh
Attach.

cc: Jvanek (w/attach.)
GRStanga "

ASARCO Incorporated 3422 South 700 West Salt Lake City Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980457

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980457-1	15-JUL-98	SSIA1-1C	(L980356-1)	AS	3970.	ppm	JJT	23-MAR-98		6010
				CD	1560.	ppm	JJT	23-MAR-98		6010
				CR	65.	ppm	JJT	23-MAR-98		6010
				CU	8283.	ppm	JJT	23-MAR-98		6010
				FE	47990.	ppm	JJT	23-MAR-98		6010
				PB	10650.	ppm	JJT	23-MAR-98		6010
				SE	253.	ppm	JJT	23-MAR-98		6010
				ZN	9554.	ppm	JJT	23-MAR-98		6010
L980457-2	15-JUL-98	SSIA1-1D	(L980356-2)	AS	3020.	ppm	JJT	23-MAR-98		6010
				CD	946.	ppm	JJT	23-MAR-98		6010
				CR	47.	ppm	JJT	23-MAR-98		6010
				CU	17350.	ppm	JJT	23-MAR-98		6010
				FE	23030.	ppm	JJT	23-MAR-98		6010
				PB	21530.	ppm	JJT	23-MAR-98		6010
				SE	453.	ppm	JJT	23-MAR-98		6010
				ZN	6861.	ppm	JJT	23-MAR-98		6010
L980457-3	15-JUL-98	SSIA1-2C	(L980356-3)	AS	10440.	ppm	JJT	23-MAR-98		6010
				CD	965.	ppm	JJT	23-MAR-98		6010
				CR	66.	ppm	JJT	23-MAR-98		6010
				CU	16730.	ppm	JJT	23-MAR-98		6010
				FE	43760.	ppm	JJT	23-MAR-98		6010
				PB	6784.	ppm	JJT	23-MAR-98		6010
				SE	197.	ppm	JJT	23-MAR-98		6010
				ZN	4626.	ppm	JJT	23-MAR-98		6010
L980457-4	15-JUL-98	SSIA1-2D	(L980356-4)	AS	11960.	ppm	JJT	23-MAR-98		6010
				CD	868.	ppm	JJT	23-MAR-98		6010
				CR	63.	ppm	JJT	23-MAR-98		6010
				CU	13710.	ppm	JJT	23-MAR-98		6010
				FE	36320.	ppm	JJT	23-MAR-98		6010
				PB	2807.	ppm	JJT	23-MAR-98		6010
				SE	82.	ppm	JJT	23-MAR-98		6010
				ZN	3496.	ppm	JJT	23-MAR-98		6010
L980457-5	15-JUL-98	SSIA1-3C	(L980356-5)	AS	2429.	ppm	JJT	23-MAR-98		6010
				CD	88.	ppm	JJT	23-MAR-98		6010
				CR	65.	ppm	JJT	23-MAR-98		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980457

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980457-5	15-JUL-98	SSIA1-3C	(L980356-5)	CU	13440.	ppm	JJT	23-MAR-98		6010
				FE	85380.	ppm	JJT	23-MAR-98		6010
				PB	5769.	ppm	JJT	23-MAR-98		6010
				SE	31.	ppm	JJT	23-MAR-98		6010
				ZN	8526.	ppm	JJT	23-MAR-98		6010
L980457-6	15-JUL-98	SSIA1-3D	(L980356-6)	AS	1476.	ppm	JJT	23-MAR-98		6010
				CD	81.	ppm	JJT	23-MAR-98		6010
				CR	79.	ppm	JJT	23-MAR-98		6010
				CU	8475.	ppm	JJT	23-MAR-98		6010
				FE	64050.	ppm	JJT	23-MAR-98		6010
				PB	4857.	ppm	JJT	23-MAR-98		6010
				SE	38.	ppm	JJT	23-MAR-98		6010
				ZN	5799.	ppm	JJT	23-MAR-98		6010
L980457-7	15-JUL-98	SSIA1-4C	(L980356-7)	AS	422.	ppm	JJT	23-MAR-98		6010
				CD	79.	ppm	JJT	23-MAR-98		6010
				CR	59.	ppm	JJT	23-MAR-98		6010
				CU	4708.	ppm	JJT	23-MAR-98		6010
				FE	33300.	ppm	JJT	23-MAR-98		6010
				PB	3011.	ppm	JJT	23-MAR-98		6010
				SE	11.	ppm	JJT	23-MAR-98		6010
				ZN	4381.	ppm	JJT	23-MAR-98		6010
L980457-8	15-JUL-98	SSIA1-4D	(L980356-8)	AS	148.	ppm	JJT	16-MAR-98		6010
				CD	27.	ppm	JJT	16-MAR-98		6010
				CR	57.	ppm	JJT	16-MAR-98		6010
				CU	2209.	ppm	JJT	16-MAR-98		6010
				FE	16860.	ppm	JJT	16-MAR-98		6010
				PB	1040.	ppm	JJT	16-MAR-98		6010
				SE	<10.	ppm	JJT	16-MAR-98		6010
				ZN	655.	ppm	JJT	16-MAR-98		6010
L980457-9	14-JUL-98	SSIA5-18D	(L980374-8)	AS	<10.	ppm	JJT	16-MAR-98		6010
				CD	<5.0	ppm	JJT	16-MAR-98		6010
				CR	76.	ppm	JJT	16-MAR-98		6010
				CU	27.	ppm	JJT	16-MAR-98		6010
				FE	14290.	ppm	JJT	16-MAR-98		6010
				PB	20.	ppm	JJT	16-MAR-98		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980457

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980457-9	14-JUL-98	SSIA5-18D	(L980374-8)	SE	<10.	ppm	JJT	16-MAR-98		6010
				ZN	45.	ppm	JJT	16-MAR-98		6010
L980457-10	14-JUL-98	SSIA8-4C	(L980374-9)	AS	4479.	ppm	JJT	23-MAR-98		6010
				CD	778.	ppm	JJT	23-MAR-98		6010
				CR	108.	ppm	JJT	23-MAR-98		6010
				CU	26120.	ppm	JJT	23-MAR-98		6010
				FE	53290.	ppm	JJT	23-MAR-98		6010
				PB	47440.	ppm	JJT	23-MAR-98		6010
				SE	73.	ppm	JJT	23-MAR-98		6010
				ZN	18830.	ppm	JJT	23-MAR-98		6010
L980457-11	14-JUL-98	SSIA8-4D	(L980374-10)	AS	2333.	ppm	JJT	23-MAR-98		6010
				CD	370.	ppm	JJT	23-MAR-98		6010
				CR	207.	ppm	JJT	23-MAR-98		6010
				CU	8759.	ppm	JJT	23-MAR-98		6010
				FE	37240.	ppm	JJT	23-MAR-98		6010
				PB	15790.	ppm	JJT	23-MAR-98		6010
				SE	17.	ppm	JJT	23-MAR-98		6010
				ZN	8094.	ppm	JJT	23-MAR-98		6010
L980457-12	16-JUL-98	SSIA8-5C	(L980374-11)	AS	40.	ppm	JJT	16-MAR-98		6010
				CD	19.	ppm	JJT	16-MAR-98		6010
				CR	126.	ppm	JJT	16-MAR-98		6010
				CU	813.	ppm	JJT	16-MAR-98		6010
				FE	14090.	ppm	JJT	16-MAR-98		6010
				PB	309.	ppm	JJT	16-MAR-98		6010
				SE	<10.	ppm	JJT	16-MAR-98		6010
				ZN	620.	ppm	JJT	16-MAR-98		6010
L980457-13	16-JUL-98	SSIA8-5D	(L980374-12)	AS	<10.	ppm	JJT	16-MAR-98		6010
				CD	7.7	ppm	JJT	16-MAR-98		6010
				CR	89.	ppm	JJT	16-MAR-98		6010
				CU	118.	ppm	JJT	16-MAR-98		6010
				FE	12140.	ppm	JJT	16-MAR-98		6010
				PB	44.	ppm	JJT	16-MAR-98		6010
				SE	<10.	ppm	JJT	16-MAR-98		6010
				ZN	192.	ppm	JJT	16-MAR-98		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980457

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980457-14	16-JUL-98	SSIA8-6C	(L980374-13)	AS	69.	ppm	JJT	16-MAR-98		6010
				CD	99.	ppm	JJT	16-MAR-98		6010
				CR	111.	ppm	JJT	16-MAR-98		6010
				CU	490.	ppm	JJT	16-MAR-98		6010
				FE	18030.	ppm	JJT	16-MAR-98		6010
				PB	1493.	ppm	JJT	16-MAR-98		6010
				SE	<10.	ppm	JJT	16-MAR-98		6010
				ZN	896.	ppm	JJT	16-MAR-98		6010
L980457-15	16-JUL-98	SSIA8-6D	(L980374-14)	AS	112.	ppm	JJT	16-MAR-98		6010
				CD	86.	ppm	JJT	16-MAR-98		6010
				CR	125.	ppm	JJT	16-MAR-98		6010
				CU	2195.	ppm	JJT	16-MAR-98		6010
				FE	19220.	ppm	JJT	16-MAR-98		6010
				PB	1934.	ppm	JJT	16-MAR-98		6010
				SE	<10.	ppm	JJT	16-MAR-98		6010
				ZN	1028.	ppm	JJT	16-MAR-98		6010
L980457-16	16-JUL-98	SSIA8-7C	(L980374-15)	AS	35.	ppm	JJT	16-MAR-98		6010
				CD	37.	ppm	JJT	16-MAR-98		6010
				CR	120.	ppm	JJT	16-MAR-98		6010
				CU	294.	ppm	JJT	16-MAR-98		6010
				FE	13530.	ppm	JJT	16-MAR-98		6010
				PB	395.	ppm	JJT	16-MAR-98		6010
				SE	<10.	ppm	JJT	16-MAR-98		6010
				ZN	284.	ppm	JJT	16-MAR-98		6010
L980457-17	16-JUL-98	SSIA8-8C	(L980374-17)	AS	20.	ppm	JJT	16-MAR-98		6010
				CD	5.3	ppm	JJT	16-MAR-98		6010
				CR	77.	ppm	JJT	16-MAR-98		6010
				CU	279.	ppm	JJT	16-MAR-98		6010
				FE	14770.	ppm	JJT	16-MAR-98		6010
				PB	275.	ppm	JJT	16-MAR-98		6010
				SE	<10.	ppm	JJT	16-MAR-98		6010
				ZN	254.	ppm	JJT	16-MAR-98		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980457

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980377

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980377-1		Matrix Spike	AS	111.	% RECOVERY	JJT	20-MAR-98		6010
			CD	89.	% RECOVERY	JJT	20-MAR-98		6010
			CR	100.	% RECOVERY	JJT	20-MAR-98		6010
			CU	75.	% RECOVERY	JJT	20-MAR-98		6010
			FE	SR>4XSA	% RECOVERY	JJT	20-MAR-98		6010
			PB	SR>4XSA	% RECOVERY	JJT	20-MAR-98		6010
			SE	102.	% RECOVERY	JJT	20-MAR-98		6010
			ZN	81.	% RECOVERY	JJT	20-MAR-98		6010
WG980377-2		Prep Blank	AS	<10.	ppm	JJT	16-MAR-98		6010
			CD	<5.0	ppm	JJT	16-MAR-98		6010
			CR	<10.	ppm	JJT	16-MAR-98		6010
			CU	<10.	ppm	JJT	16-MAR-98		6010
			FE	<10.	ppm	JJT	16-MAR-98		6010
			PB	<10.	ppm	JJT	16-MAR-98		6010
			SE	<10.	ppm	JJT	16-MAR-98		6010
			ZN	<5.0	ppm	JJT	16-MAR-98		6010
WG980377-3		Laboratory Control	AS	87.	% RECOVERY	JJT	16-MAR-98		6010
			CD	87.	% RECOVERY	JJT	16-MAR-98		6010
			CR	88.	% RECOVERY	JJT	16-MAR-98		6010
			CU	110.	% RECOVERY	JJT	16-MAR-98		6010
			FE	83.	% RECOVERY	JJT	16-MAR-98		6010
			PB	88.	% RECOVERY	JJT	16-MAR-98		6010
			SE	<PQL	% RECOVERY	JJT	16-MAR-98		6010
			ZN	104.	% RECOVERY	JJT	16-MAR-98		6010
WG980377-4		Duplicate	AS	3.2	% RPD	JJT	16-MAR-98		6010
			CD	1.8	% RPD	JJT	16-MAR-98		6010
			CR	<1.0	% RPD	JJT	16-MAR-98		6010
			CU	2.1	% RPD	JJT	16-MAR-98		6010
			FE	2.1	% RPD	JJT	16-MAR-98		6010
			PB	<1.0	% RPD	JJT	16-MAR-98		6010
			SE	5.6	% RPD	JJT	16-MAR-98		6010
			ZN	2.7	% RPD	JJT	16-MAR-98		6010
WG980377-5		Detection Limit	AS	10.	ppm				6010
			CD	5.0	ppm				6010
			CR	10.	ppm				6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980377

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980377-5		Detection Limit	CU	10.	ppm				6010
			FE	10.	ppm				6010
			PB	10.	ppm				6010
			SE	10.	ppm				6010
			ZN	5.0	ppm				6010

PQL= Practical quantitation limit.

Approved

Reviewer

CHAIN OF CUSTODY RECORD

[illegible] Laboratories, Inc.
2727 Airport Road • Helena, Montana [illegible]01 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - El Paso

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	As, Cd, Cr, Cu, Fe Pb, Se, Zn, Hg	REMARKS
7-18-97	1137		X	SS1A8-27A	1									X	
7-18-97	1139			SS1A8-27B											
7-18-97	1144			SS1A8-27C											
7-18-97	1500			SS1A8-28A											
7-18-97	1505			SS1A8-28B											
7-18-97	1515			SS1A8-28C											
7-18-97	1520			SS1A8-28D											
7-18-97	1049			SS1A8-29A											
7-18-97	1054			SS1A8-29B											
7-18-97	1410			SS1A-8-30A											
7-18-97	1410			SS1A8-30A2											
7-18-97	1415			SS1A8-30B											
7-18-97	140			SS1A8-31A											
7-18-97	145			SS1A8-31B											
7-18-97	1350		↓	SS1A8-31C	↓										

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7/23/97 1700				Other
					Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			7-25-97 10:30	Split Samples: [] Accepted [] Declined Signature	

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO-El Paso

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	+ X (As, Cd, Cu, Fe, Pb, Se, Zn, pH)	REMARKS
7-18-97	1620		X	SS1A8-22A	1									+	
7-18-97	1625			SS1A8-22B											
7-18-97	1630			SS1A8-22C											
7-18-97	1635			SS1A8-22D											
7-18-97	1115			SS1A8-23A											
7-18-97	1118			SS1A8-23B											
7-18-97	1122			SS1A8-23C											
7-18-97	1126			SS1A8-23D											
7-18-97	1006			SS1A8-24A											
7-18-97	1012			SS1A8-24B											
7-18-97	1430			SS1A8-25A											
7-18-97	1435			SS1A8-25B											
7-18-97	1029			SS1A8-26A											
7-18-97	1041		↓	SS1A8-26B	↓									↓	

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7/23/97 1700				Other
					Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time 7.25.97 10:30		

Enclosed: ☒ Parameter sheet w/detection limits
☐ QA/QC standard mixing instructions ☐ Cover letter
☐ Other

Split Samples:
[] Accepted [] Declined

HFORM-1 4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.
2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - El Paso

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	As, Cd, Cr, Cu, Fe, Pb, Se, Zn, pH	REMARKS
7-18-97	0808		X	SS1A8-19A	1									X	
7-18-97	0811			SS1A8-19B											
7-18-97	0816			SS1A8-19C											
7-18-97	0821			SS1A8-19D											
7-18-97	0953			SS1A8-20A											
7-18-97	0956			SS1A8-20B											
7-18-97	0967			SS1A8-21A											
7-18-97	0919			SS1A8-21B											
7-18-97	0915			SS1A8-21C											
7-18-97	0918		↓	SS1A8-21D	↓									↓	

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7/23/97 1700				Other
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		Air Bill #
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time 7-25-97 10:30	Enclosed: ☐ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

Split Samples:
[] Accepted [] Declined
Signature

CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO-El Paso

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	As, Cd, Cr, Cu, Fe, Pb, Se, Zn, pH	REMARKS
7-18-97	0745		X	SS1A8-15A	1									4	
7-18-97	0748			SS1A8-15B											
7-18-97	0752			SS1A8-15C											
7-18-97	0800			SS1A8-15D											
7-18-97	1555			SS1A8-16A											
7-18-97	1600			SS1A8-16B											
7-18-97	1605			SS1A8-16C											
7-18-97	1610			SS1A8-16D											
7-18-97	0835			SS1A8-17A											
7-18-97	0838			SS1A8-17B											
7-18-97	0839			SS1A8-17C											
7-18-97	0845			SS1A8-17D											
7-18-97	0932			SS1A8-18A											
7-18-97	0932			SS1A8-18A2											
7-18-97	0936		↓	SS1A8-18B	↓									↓	

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7/23/97 1700				Other
Relinquished *(Signature)*	**Date/Time**	**Received by: *(Signature)***	**Remarks**		Air Bill #
Relinquished *(Signature)*	**Date/Time**	**Received for Laboratory by: *(Signature)***	**Date/Time**		
			7-25-97 10:30		

Enclosed: ☑ Parameter sheet w/detection limits
☐ QA/QC standard mixing instructions ☐ Cover letter
☐ Other

Split Samples:
[] Accepted [] Declined

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.
2727 Airport Road • Helena, Montana 01 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO-El Paso

SAMPLERS: *(Signature)*

DATE	TIME	COMP	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF As, Cd, Cr, Cu, Fe, Pb, Se, Zn, Pd	REMARKS
7-17-97	1557		X	SS1A8-13D	1									4	
7-17-97	1623			SS1A8-14A											
7-17-97	1623			SS1A8-14A2											
7-17-97	1627			SS1A8-14B											
7-17-97				SS1A8-14C											
7-17-97				SS1A8-14D											
				SS1A8-15A 7/18											
				15B 7/18											
				16A 7/18											
				16B 7/18											
				17A 7/18		18B									
				17B 7/18											
				18A 7/18											
				18A2 7/18											

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7/23/97 1700				Other
					Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time 7.25.97 10:30		

Enclosed: ☑ Parameter sheet w/detection limits
☐ QA/QC standard mixing instructions ☐ Cover letter
☐ Other

Split Samples:
[] Accepted [] Declined
Signature

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.
2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO-El Paso

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	As, Cd, Cr, Cu, Fe, Xr, Pb, Se, Zn, pH							REMARKS
7-17-97	1408		X	SS1A8-10A	1									X							
7-17-97	1412			SS1A8-10B																	
7-17-97	1416			SS1A8-10C																	
7-17-97	1421			SS1A8-10D																	
7-17-97	1438			SS1A8-11A																	
7-17-97	1500			SS1A8-11B																	
7-17-97	1502			SS1A8-11C																	
7-17-97	1506			SS1A8-11C																	
7-17-97	1518			SS1A8-12A																	
7-17-97	1520			SS1A8-12B																	
7-17-97	1524			SS1A8-12C																	
7-17-97	1527			SS1A8-12D																	
7-17-97	1542			SS1A8-13A																	
7-17-97	1545			SS1A8-13B																	
7-17-97	1545			SS1A8-13C																	

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other Air Bill #
	7/23/97 1700				
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time		
			7.25.97 10:30		

Enclosed: ☒ Parameter sheet w/detection limits
☐ QA/QC standard mixing instructions ☐ Cover letter
☐ Other

Split Samples:
[] Accepted [] Declined

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

CHAIN OF [illegible]TODY RECORD

Hydrometrics, Inc.

☐3275 W. Ina Rd., Ste. 205 • Tucson, AZ 8[illegible] • (520) 544-3150
☒P.O. Box 220182 • El Paso, TX 79913 • (915) 532-3489

PROJ. NO.	PROJECT NAME
0734	ASARCO - EL PASO

SAMPLERS: (Signature) [signature]

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF As, Cd, Cr, Cu, Fe, Pb, Se, Zn, PH							REMARKS
7-15-97	1240			SS1A1-1A	1									X							
7-15-97	1245			SS1A1-1B																	
7-15-97	1250			SS1A1-1C																	
7-15-97	1253			SS1A1-1D																	
7-15-97	1312			SS1A1-2A																	
7-15-97	1315			SS1A1-2B																	
7-15-97	1321			SS1A1-2C																	
7-15-97	1329			SS1A1-2D																	
7-15-97	1354			SS1A1-3A																	
7-15-97	1356			SS1A1-3B																	
7-15-97	1406			SS1A1-3C																	
7-15-97	1410			SS1A1-3D																	
7-15-97	1424			SS1A1-4A																	
7-15-97	1428			SS1A1-4B																	
7-15-97	1433			SS1A1-4C																	

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other ____ Air Bill # ____
[signature]	7-17-97 1700				
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time		Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other ____
		[signature]	7-21-97 10:00 (7-18-97)		

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

Split Samples:
[] Accepted [] Declined ____ Signature

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.

☐3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150
☐P.O. Box 220182 • El Paso, TX 79913 • (915) 532-3489

PROJ. NO.	PROJECT NAME
0734	ASARCO - El Paso

SAMPLERS: *(Signature)* Liz Johnson

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF As, Cd, Cr, Cu, Fe Pb, Se, Zn, PH	REMARKS
7-15-97	1437		↓	SS1A1-4D	1									X	

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Liz Johnson	7-17-97 1700				Other
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		Air Bill #
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			7-21-97 10:00		

HFORM-1[illegible]5

Return results & electronic copy to:
Computer Dept. at address at top of page

(7-18-97)

Split Samples:
[] Accepted [] Declined _____ ature

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.
2727 Airport Road • Helena, Montana • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - El Paso

SAMPLERS: *(Signature)*

DATE	TIME	COMP	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	4 NRF As Cd Cr Cu Fe Pb Se Zn PM	REMARKS
7-15-97	1455		X	SS1A1-5A	1									X	
7-15-97	1455			SS1A1-5A2											
7-15-97	1501			SS1A1-5B											
7-15-97	1506			SS1A1-5C											
7-15-97	1511			SS1A1-5D											
7-14-97	1137			SS1A2-1A											
7-14-97	1140			SS1A2-1B											
7-14-97	1325			SS1A2-2A											
7-14-97	1325			SS1A2-2A2											
7-14-97	1340			SS1A2-2C											
7-14-97	1350			SS1A3-1A											
7-14-97	1355			SS1A3-1B											
7-14-97	1430			SS1A3-2A											
7-14-97	1435			SS1A3-2B											
7-14-97	1440		↓	SS1A3-2C	↓									↓	

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7-17-97 1700				Other
					Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits	
			7-21-97 10:00 (5-18-97)	☐ QA/QC standard mixing instructions ☐ Cover letter	
				☐ Other	
				Split Samples: [] Accepted [] Declined	Signature

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.: 0734

PROJECT NAME: ASARCO - EL PASO

SAMPLERS: (Signature) C. Johnson

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF As, Cd, (r), Cu, Fe, Pb, Se, Zn, pH	REMARKS
7-14-97	1500		X	SS1A3-3A	1									X	
7-14-97	1505			SS1A3-3B											
7-14-97	1515			SS1A3-3C											
7-14-97	1520			SS1A3-3D											
7-14-97	1530			SS1A3-4A											
7-14-97	1535			SS1A3-4B											
7-15-97	0810			SS1A3-5A											
7-15-97	0810			SS1A3-5A$_2$											
7-15-97	0815			SS1A3-5B											
7-15-97	0830			SS1A3-6A											
7-15-97	0834			SS1A3-6B											
7-15-97	0837			SS1A3-6C											
7-15-97	0840			SS1A3-6D											

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
C. Johnson	7-17-97 1700				Other
Relinquished (Signature)	**Date/Time**	**Received by: (Signature)**	**Remarks**		Air Bill #
Relinquished (Signature)	**Date/Time**	**Received for Laboratory by: (Signature)**	**Date/Time**	**Enclosed:** ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			7.21.97 10:00		

HFORM-1

Return results & electronic copy to:
Computer Dept. at address at top of page

7.18.97

Split Samples:
[] Accepted [] Declined _____ ...ure

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - El Paso

SAMPLERS: *(Signature)* C. Johnson

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF As, Cd, Cr, Cu, Pb, Se, Zn, pH	REMARKS
7-15-97	0852		X	SS1A3-7A	1									X	
7-15-97	0853			SS1A3-7B											
7-15-97	0900			SS1A3-7C											
7-15-97	0903			SS1A3-7D											
7-15-97	0956			SS1A3-8A											
7-15-97	1002			SS1A3-8B											
7-15-97	1005			SS1A3-8C											
7-15-97	1012			SS1A3-8D											
7-15-97	0917			SS1A3-9A											
7-15-97	0922			SS1A3-9B											
7-15-97	0926			SS1A3-9C											
7-15-97	0935			SS1A3-9D											
7-15-97	1035			SS1A3-10A											
7-15-97	1035			SS1A3-10A2											
7-15-97	1039			SS1A3-10B2											

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
C. Johnson	7-17-97 1700				Other
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		Air Bill #
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: X Parameter sheet w/detection limits	
		[illegible]	7.21.97 10:00	☐ QA/QC standard mixing instructions ☐ Cover letter	
				☐ Other	
				Split Samples: ☐ Accepted ☐ Declined	
				Signature	

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

(1.18)

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.
2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.: 0734 | PROJECT NAME: ASARCO - EL PASO

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	VRF As, Cd, Cr, Cu, Fe Pb, Se, Zn, PH	REMARKS
7-15-97	1041		X	SS1A3-10C	1									X	
7-15-97	1044		↓	SS1A3-10D	1									X	

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7-17-97 1700				Other _____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		Air Bill # _____
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other _____	
			7.21.97 10:00		

HFORM-[illegible]5

Return results & electronic copy to:
Computer Dept. at address at top of page

(7.18)

Split Samples:
[] Accepted [] Declined _____ signature

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.
2727 Airport Road • Helena, Montana 01 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - EL PASO

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF - As, Cd, Cr, Cu, Fe, Pb, Se, Zn pH						REMARKS
7-14-97	1000			SS1H5-15A	1									X	X					
7-14-97	1000			SS1H5-15A$_2$	↓									↓	↓					
7-14-97	1010			SS1H5-15B																
7-14-97	1010			SS1H5-15B$_2$																
7-14-97	1012			SS1H5-15C																
7-14-97	1016			SS1H5-15D																
7-14-97	1025			SS1A5-16A																
7-14-97	1025			SS1A5-16A$_2$																
7-14-97	1030			SS1A5-16B																
7-14-97	1030			SS1A5-16B$_2$																
7-14-97	1033			SS1A5-16C																
7-14-97	1036			SS1A5-16D																
7-14-97	1040			SS1A5-17A																
7-14-97	1045			SS1A5-17B																
7-14-97	1047			SS1A5-17C	↓									↓	↓					

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7-17-97 1700				Other
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		Air Bill #
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: Parameter sheet w/detection limits	
			7.21.97 1020	☐ QA/QC standard mixing instructions ☐ Cover letter	
				☐ Other	

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

(7.18)

Split Samples:
[] Accepted [] Declined _____ Signature

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.
2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - EL PASO

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CON-TAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF- As, Cd, Cr, Cu, Fe, Pb, Se, Zn, Hg	REMARKS
7-14-97	1049		X	SS1A5-17D	1									X	
7-14-97	1055			SS1A5-18A											
7-14-97	1057			SS1A5-18B											
7-14-97	1059			SS1A5-18C											
7-14-97	1101			SS1A5-18D											
				SS1A5-19A											
				SS1A5-19B											

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7/17/97 1700				Other
Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Remarks		Air Bill #
Relinquished *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			7.21.97 1045		

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

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Split Samples:
[] Accepted [] Declined _____ Signature

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - El Paso

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	As, Cd, Cr, Cu, Fe, Pb, Se, Zn, Hg	REMARKS
7-16-97	1150		X	SS1A8-4A	1									X	
7-16-97	1154			SS1A8-4B				SS1A8-1A				7/16			
7-16-97	1158			SS1A8-4C				SS1A8-1B							
7-16-97	1202			SS1A8-4D				SS1A8-2A							
7-16-97	1129			SS1A8-5A				SS1A8-2B							
7-16-97	1133			SS1A8-5B				SS1A8-3A							
7-16-97	1136			SS1A8-5C				SS1A8-3B							
7-16-97	1139			SS1A8-5D											
7-16-97	1235			SS1A8-6A											
7-16-97	1235			SS1A8-6A2											
7-16-97	1239			SS1A8-6B											
7-16-97	1241			SS1A8-6C											
7-16-97				SS1A8-6D											
7-16-97	1314			SS1A8-7A											
7-16-97	1318			SS1A8-7B											

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7-17-97 1700				Other
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		Air Bill #
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time 7.21.97 1030	Enclosed: ☐ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

(7.18)

Split Samples:
[] Accepted [] Declined
Signature

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.
2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - El Paso

SAMPLERS: (Signature) [signature]

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	As, Cd, Cr, Cu, Fe, Pb, Se, Zn, PH							REMARKS
7-16-97	1323		X	SS1A8-7C	1									X							
7-16-97	1327		↓	SS1A8-7D	1									X							

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other ___ Air Bill # ___
[signature]	7-17-97 1700				
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature) [signature]	Date/Time 7.21.97 10:00	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other ___	

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of page

(7.18)

Split Samples:
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CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - El Paso

SAMPLERS: *(Signature)*

DATE	TIME	COMP	GRAB	SAMPLE NUMBER	NO. OF CON-TAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF As, Cd, Cr, Cu, Fe, Pb, Se, Zn pH	REMARKS
7-16-97	1350		X	SS1AB-8A	1									X	
7-16-97	1354			SS1AB-8B											
7-16-97	1356			SS1AB-8C											
7-16-97	1358			SS1AB-8D											
7-16-97	1442			SS1AB-9A											
7-16-97	1450			SS1AB-9B											
7-16-97	1453			SS1AB-9C											
7-16-97	1456			SS1AB-9D											
7-17-97	0840			SSENT-1A											
7-17-97	0845			SSENT1-B											
7-17-97	0850			SSENT1-C											
7-17-97	0855			SSENT1-D											
7-17-97	0805			SSENT2-A											
7-17-97	0810			SSENT2-B											
7-17-97	0815			SSENT2-C											

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other Air Bill #
	7/17/97 1700				
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time 7.21.97 1040	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	

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Return results & electronic copy to:
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(7.CF)

Split Samples:
[] Accepted [] Declined
Signature

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.
2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - EL PASO

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF As, Cd, Cr, Cu, Fe Pb, Se, Zn, Pit	REMARKS
7-17-97	1620		X	SS ENT 2-D	1									X	

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7-17-97 1700				Other
Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Remarks		Air Bill #
Relinquished *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☐ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			7.21.97 10:00		

HFORM-1 [illegible]95

Return results & electronic copy to:
Computer Dept. at address at top of page

(7.08)

Split Samples:
[] Accepted [] Declined _____ ature

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.
2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - El Paso

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	As, Cd, Cr, Cu, Fe, Pb, Se, Zn, pH	REMARKS
7-17-97	1023		X	SSENT 8-A_2	1									X	
7-17-97	1027		X	SSENT 8-B	1									X	

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7-17-97 1700				Other
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		Air Bill #
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time 7.21.97 10.00	Enclosed: ☑ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	

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Return results & electronic copy to:
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(5.08)

Split Samples:
[] Accepted [] Declined
Signature

CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.	PROJECT NAME
0734	ASARCO - El PASO

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	As, Cd, Cr, Cu, Fe, Pb, Se, Zn, pH						REMARKS
7-17-97	1100		X	SSENT3-A	1									X						
7-17-97	1105			SSENT3-B																
7-17-97	1035			SSENT4-A																
7-17-97	1040			SSENT4-B																
7-17-97	0935			SSENT5-A																
7-17-97	0940			SSENT5-B																
7-17-97	0940			SSENT5-B_2																
7-17-97	0905			SSENT6-A																
7-17-97	0910			SSENT6-B																
7-17-97	0915			SSENT6-C																
7-17-97	0920			SSENT6-D																
7-17-97	1005			SSENT7-A																
7-17-97	1015			SSENT7-B																
7-17-97	1017			SSENT7-C																
7-17-97	1023			SSENT8-A																

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other Air Bill #
	7-17-97 1700				
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			7.21.97 10:05		

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Split Samples:
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